

Promoting Readiness of Minors in Supplemental Security Income (PROMISE): Technical Appendix to the Five-Year Evaluation Report

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Acronyms

| ABLE | Achieving a Better Life Experience |
|-----------|---|
| ACA | Affordable Care Act |
| ASPIRE | Achieving Success by Promoting Readiness for Education and Employment |
| BLS | U.S. Bureau of Labor Statistics |
| CaPROMISE | California PROMISE |
| CHIP | Children's Health Insurance Program |
| CMS | Centers for Medicare & Medicaid Services |
| CPI-W | Consumer Price Index for Urban Wage Earners and Clerical Workers |
| DI | Social Security Disability Insurance |
| DOL | U.S. Department of Labor |
| ED | U.S. Department of Education |
| GED | General Educational Development |
| IPE | Individual plan for employment |
| IRS | Internal Revenue Service |
| MD | Maryland |
| MDI | Minimum detectable impact |
| MEF | Master Earnings File |
| Ν | Sample size |
| n.a. | Not applicable |
| NYS | New York State |
| OASDI | Old-Age, Survivors, and Disability Insurance |
| PASS | Plan to Achieve Self-Support |
| PROMISE | Promoting Readiness of Minors in Supplemental Security Income |
| RA | Random assignment |
| RSA | Rehabilitation Services Administration |
| SAQ | Self-administered questionnaire |
| SIPP | Survey of Income and Program Participation |
| SMS | Survey management system |
| | |

Acronyms

| SNAP | Supplemental Nutrition Assistance Program |
|------|---|
| SSA | Social Security Administration |
| SE | Standard error |
| SSI | Supplemental Security Income |
| SSN | Social Security number |
| SSR | Supplemental Security Record |
| TANF | Temporary Assistance for Needy Families |
| VR | Vocational rehabilitation |
| WI | Wisconsin |

Introduction

PROMISE—Promoting Readiness of Minors in Supplemental Security Income (SSI)—was a joint initiative of the U.S. Department of Education (ED), the Social Security Administration (SSA), the U.S. Department of Health and Human Services, and the U.S. Department of Labor (DOL) to support youth with disabilities by funding and evaluating programs designed to promote positive change in the lives of youth who were receiving SSI and their families. Under cooperative agreements with ED, six entities across 11 states implemented demonstration programs for youth SSI recipients who were age 14 to 16. The programs were intended to (1) provide educational, vocational, and other services to the youth; and (2) make better use of existing resources by improving service coordination between state and local agencies. ED announced the PROMISE cooperative agreements in September 2013; the programs began enrolling youth between April 2014 and October 2014. Enrollment continued through April 2016.

Under contract to SSA, Mathematica conducted the national evaluation of (1) how the programs were implemented and operated, (2) their impacts on SSI payments and the education and employment outcomes for the youth and their families, and (3) their costs and benefits. The evaluation used a random assignment (RA) study design: eligible youth who applied to the programs were randomly assigned to either a treatment group with an opportunity to receive PROMISE services or to a control group with access to the usual services available in the community other than those provided by the program.

The five-year evaluation report presents the estimated impacts and net benefits of each of the six PROMISE programs approximately five years after youth enrolled in the evaluation (Patnaik et al. 2022). It presents results from impact analyses that assessed whether the PROMISE programs were successful in improving youth and parent or guardian outcomes related to education, training, employment, youth's self-determination and expectations, health insurance coverage, SSA payments, knowledge of work incentives, and well-being.¹ It also presents results from benefit-cost analyses that assessed the extent to which the benefits of the programs exceeded their costs.

In this appendix volume, we provide additional details about the data and methods used to conduct the five-year impact and benefit-cost analyses, as well as supplementary analyses conducted to address specific topics. The first nine appendices provide technical details and findings to support the five-year impact and benefit-cost findings:

- Appendix A presents information about the data sources, sample sizes, and outcome measures used in the impact and benefit-cost analyses.
- Appendix B describes the methods used in the impact and benefit-cost analyses
- Appendices C–I present the estimated impacts, benefits, and costs of each program separately and all programs pooled together. They also include the findings of analyses we conducted to test the sensitivity of the main results to modeling choices, analytic methods, and underlying assumptions.

The final three appendices present the findings of topical analyses:

• Appendix J explores whether the average control group outcomes and program impacts differed depending on a youth's race and ethnicity.

¹ Hereafter, we use "parents" to refer to parents and guardians.

- Appendix K presents analyses of selected survey implementation practices used in the PROMISE evaluation.
- Appendix L examines the extent to which PROMISE enrollees are representative of all PROMISEeligible youth.

Appendix A. Data, Samples, and Outcomes

This appendix provides information about the sources of data, samples, and outcome measures used in the five-year impact and benefit-cost analyses. Section A describes each data source, including the time periods covered by the data. Section B provides the sample sizes by data source and explains why the samples from some sources are smaller than the full research sample. Section C describes the sources of missing data and the approaches we used to address missing data in the analyses. Section D describes how we constructed each outcome measure used in the five-year impact analysis.

A. Data sources

The five-year impact analysis relied on data from several sources of survey and administrative data, which we describe in the subsections that follow.

1. Youth and parent five-year surveys

Mathematica conducted separate follow-up surveys of the youth and their parents five years after they enrolled in PROMISE. Although the target respondents for the youth survey were the youth themselves, they were sometimes helped by their parents, or proxies supplied their responses. The target respondent for the parent survey was the parent or guardian who completed the PROMISE enrollment forms and provided consent to participate in the evaluation. We call this person the "enrolling parent." In a small number of cases, proxies supplied responses for the enrolling parent. In five of the PROMISE programs, all randomly assigned youth were eligible for the youth five-year survey unless they had died or withdrawn within five years of enrollment. Likewise, all randomly assigned enrolling parents were eligible for the parent of a youth who had died within five years of enrollment, or were a legal guardian employed by an agency. For California PROMISE (CaPROMISE), we sampled 2,000 of the 3,097 randomly assigned enrollees. All sampled enrollees were eligible for the five-year surveys unless they met one of the conditions described above. In all programs, youth and enrolling parents were eligible for the five-year surveys regardless of whether they had completed earlier follow-up surveys conducted 18 months after enrollment.

Enrollment in the evaluation occurred over 25 months, beginning in April 2014 and ending in April 2016. The five-year surveys were fielded from May 2019 through August 2021. To simplify the survey management process, we aggregated the youth and parents into 25 cohorts that corresponded to their month of enrollment. In each month from May 2019 to March 2021, we released a cohort to be surveyed.² Among the completed surveys, we completed 97 percent of parent interviews and 96 percent of youth interviews within 24 weeks (five and a half months) from the cohort release date. We completed the remaining interviews slightly later to give more parents and youth the chance to respond. Appendix Table A.1 shows the survey fielding start and end dates for each cohort and the PROMISE programs represented in each cohort.

² Because few families enrolled in PROMISE during the first two months of the enrollment period, we launched two cohorts in May 2019, corresponding to families that enrolled in PROMISE in April and May 2014. To complete data collection more quickly, we launched two cohorts in March 2021, corresponding to families that enrolled in the last two months of the enrollment period (March and April 2016).

Appendix Table A.1. Schedule for the five-year survey

| | | | | Number of youth and parents included in cohort | | | | | |
|--------|---------------------|-------------------------|-----------------------|--|----------------|----------------|----------------|----------------|----------------|
| Cohort | Enrollment month | Fielding start month | Fielding end month | Arkansas PROMISE | ASPIRE | CaPROMISE | MD PROMISE | NYS PROMISE | WI PROMISE |
| 1 | 4/14 | 5/19 | 12/19 | Y: 0; P: 0 | Y: 0; P: 0 | Y: 0; P: 0 | Y: 17; P: 17 | Y: 0; P: 0 | Y: 12; P: 11 |
| 2 | 5/14 | 5/19 | 12/19 | Y: 0; P: 0 | Y: 0; P: 0 | Y: 0; P: 0 | Y: 53; P: 53 | Y: 0; P: 0 | Y: 76; P: 76 |
| 3 | 6/14 | 6/19 | 1/20 | Y: 0; P: 0 | Y: 0; P: 0 | Y: 0; P: 0 | Y: 61; P: 62 | Y: 0; P: 0 | Y: 74; P: 71 |
| 4 | 7/14 | 7/19 | 1/20 | Y: 0; P: 0 | Y: 0; P: 0 | Y: 0; P: 0 | Y: 66; P: 65 | Y: 0; P: 0 | Y: 65; P: 60 |
| 5 | 8/14 | 8/19 | 2/20 | Y: 0; P: 0 | Y: 0; P: 0 | Y: 14; P: 14 | Y: 52; P: 51 | Y: 0; P: 0 | Y: 78; P: 77 |
| 6 | 9/14 | 9/19 | 2/20 | Y: 35; P: 34 | Y: 0; P: 0 | Y: 129; P: 127 | Y: 63; P: 58 | Y: 0; P: 0 | Y: 42; P: 42 |
| 7 | 10/14 | 10/19 | 4/20 | Y: 56; P: 55 | Y: 17; P: 16 | Y: 122; P: 121 | Y: 69; P: 67 | Y: 4; P: 4 | Y: 45; P: 45 |
| 8 | 11/14 | 11/19 | 4/20 | Y: 138; P: 132 | Y: 27; P: 26 | Y: 108; P: 107 | Y: 57; P: 56 | Y: 15; P: 15 | Y: 41; P: 40 |
| 9 | 12/14 | 12/19 | 6/20 | Y: 239; P: 230 | Y: 88; P: 88 | Y: 68; P: 68 | Y: 72; P: 69 | Y: 5; P: 4 | Y: 14; P: 14 |
| 10 | 1/15 | 1/20 | 8/20 | Y: 85; P: 84 | Y: 97; P: 92 | Y: 85; P: 84 | Y: 93; P: 92 | Y: 30; P: 30 | Y: 51; P: 51 |
| 11 | 2/15 | 2/20 | 8/20 | Y: 81; P: 78 | Y: 97; P: 97 | Y: 66; P: 65 | Y: 80; P: 79 | Y: 27; P: 27 | Y: 74; P: 74 |
| 12 | 3/15 | 3/20 | 10/20 | Y: 122; P: 118 | Y: 121; P: 117 | Y: 68; P: 65 | Y: 80; P: 77 | Y: 34; P: 34 | Y: 70; P: 68 |
| 13 | 4/15 | 4/20 | 9/20 | Y: 124; P: 122 | Y: 89; P: 89 | Y: 92; P: 90 | Y: 77; P: 76 | Y: 47; P: 44 | Y: 64; P: 63 |
| 14 | 5/15 | 5/20 | 10/20 | Y: 140; P: 137 | Y: 115; P: 110 | Y: 74; P: 72 | Y: 74; P: 72 | Y: 56; P: 55 | Y: 48; P: 45 |
| 15 | 6/15 | 6/20 | 11/20 | Y: 113; P: 110 | Y: 133; P: 128 | Y: 128; P: 128 | Y: 97; P: 93 | Y: 78; P: 76 | Y: 67; P: 63 |
| 16 | 7/15 | 7/20 | 12/20 | Y: 38; P: 38 | Y: 118; P: 112 | Y: 148; P: 146 | Y: 110; P: 102 | Y: 133; P: 131 | Y: 101; P: 100 |
| 17 | 8/15 | 8/20 | 1/21 | Y: 44; P: 42 | Y: 100; P: 98 | Y: 140; P: 137 | Y: 117; P: 115 | Y: 145; P: 144 | Y: 110; P: 108 |
| 18 | 9/15 | 9/20 | 2/21 | Y: 54; P: 51 | Y: 95; P: 95 | Y: 153; P: 150 | Y: 104; P: 103 | Y: 174; P: 171 | Y: 77; P: 75 |
| 19 | 10/15 | 10/20 | 3/21 | Y: 81; P: 75 | Y: 61; P: 61 | Y: 119; P: 119 | Y: 107; P: 105 | Y: 213; P: 208 | Y: 87; P: 85 |
| 20 | 11/15 | 11/20 | 4/21 | Y: 98; P: 95 | Y: 75; P: 73 | Y: 125; P: 123 | Y: 122; P: 119 | Y: 207; P: 204 | Y: 111; P: 109 |
| 21 | 12/15 | 12/20 | 5/21 | Y: 84; P: 84 | Y: 88; P: 86 | Y: 82; P: 80 | Y: 99; P: 97 | Y: 232; P: 229 | Y: 79; P: 75 |
| 22 | 1/16 | 1/21 | 7/21 | Y: 71; P: 68 | Y: 63; P: 63 | Y: 82; P: 82 | Y: 92; P: 89 | Y: 194; P: 188 | Y: 58; P: 57 |
| 23 | 2/16 | 2/21 | 7/21 | Y: 84; P: 81 | Y: 116; P: 113 | Y: 96; P: 94 | Y: 72; P: 70 | Y: 205; P: 202 | Y: 104; P: 103 |
| 24 | 3/16 | 3/21 | 8/21 | Y: 86; P: 83 | Y: 192; P: 185 | Y: 40; P: 40 | Y: 0; P: 0 | Y: 131; P: 127 | Y: 114; P: 114 |
| 25 | 4/16 | 3/21 | 8/21 | Y: 14; P: 14 | Y: 210; P: 201 | Y: 42; P: 41 | Y: 0; P: 0 | Y: 32; P: 31 | Y: 217; P: 213 |

ASPIRE = Achieving Success by Promoting Readiness for Education and Employment; CaPROMISE = California PROMISE; MD = Maryland; P = parent; NYS = New York State; WI = Wisconsin; Y = youth.

We administered the surveys in English and Spanish in three modes: on the telephone by an interviewer, in person by an interviewer, and on paper via self-administration. The interviewer-administered interviews used the same instruments and were deployed via computer-assisted interviewing technology. The self-administered paper questionnaires used abbreviated versions of the instruments. We halted inperson interviewing from March 2020 to June 2021 because of the COVID-19 pandemic, conducting all interviews during this period by telephone and paper only. Among parent survey respondents, 93 percent completed the survey by telephone, 4 percent completed it in person, and 4 percent completed it on paper. The analogous figures for youth respondents are 91 percent, 4 percent, and 5 percent, respectively. The median length of the interview was 19 minutes for the parent survey and 27 minutes for the youth survey.

The PROMISE five-year youth and parent survey response rates were high. They averaged at least 80 percent for all programs (Appendix Table A.2).³ Response rates were similar for the youth and parent surveys. The differences in response rates between treatment and control group sample members were small, never exceeding 3 percentage points in any program.

| •• | | | | • | • | |
|-----------------|---------------------|--------|-----------|---------------|----------------|---------------|
| Sample | Arkansas PROMISE | ASPIRE | CaPROMISE | MD PROMISE | NYS PROMISE | WI PROMISE |
| Youth survey | | | | | | |
| (Response rate) | | | | | | |
| Treatment | 733 | 797 | 810 | 738 | 847 | 798 |
| | (82%) | (84%) | (82%) | (81%) | (86%) | (85%) |
| Control | 708 | 795 | 795 | 748 | 815 | 793 |
| | (79%) | (83%) | (80%) | (81%) | (83%) | (84%) |
| Total | 1,441 | 1,592 | 1,605 | 1,486 | 1,662 | 1,591 |
| | (81%) | (84%) | (81%) | (81%) | (85%) | (85%) |
| Parent survey | | | | | | |
| (Response rate) | | | | | | |
| Treatment | 702 | 781 | 813 | 730 | 837 | 786 |
| | (82%) | (85%) | (83%) | (82%) | (87%) | (86%) |
| Control | 691 | 766 | 792 | 722 | 807 | 775 |
| | (79%) | (83%) | (81%) | (81%) | (84%) | (84%) |
| Total | 1,393 | 1,547 | 1,605 | 1,452 | 1,644 | 1,561 |
| | (80%) | (84%) | (82%) | (81%) | (85%) | (85%) |

Appendix Table A.2. PROMISE five-year survey respondent sample sizes and response rates

Source: PROMISE five-year survey management system.

Note: Response rates equal the number of youth or parents who completed the survey divided by the number of youth or parents eligible for the survey. The number of youth eligible for the survey equals the research sample (shown in Appendix Table A.5) less youth who died or withdrew within five years of RA or, in the case of CaPROMISE, were not sampled for the survey. The number of parents eligible for the survey equals the research sample less parents who died or withdrew within five years of RA; were the parent of a youth who died within five years of RA; were a legal guardian employed by an agency; or, in the case of CaPROMISE, were not sampled for the survey.

ASPIRE = Achieving Success by Promoting Readiness for Education and Employment; CaPROMISE = California PROMISE; MD = Maryland; NYS = New York State; WI = Wisconsin.

³ We calculated the response rates as a proportion of the cases eligible for the survey.

2. Youth and parent 18-month surveys

We used selected data from the follow-up surveys of youth and their parents that we conducted 18 months after the youth enrolled in PROMISE. These surveys asked respondents about their race and ethnicity. We used these data to measure youth and parent race and ethnicity in the five-year impact analysis for all programs except Achieving Success by Promoting Readiness for Education and Employment (ASPIRE), where we instead used race and ethnicity data from the ASPIRE intake form (see below). We coded race and ethnicity as missing for youth for whom we did not have 18-month survey data (due to sampling or nonresponse). Mamun et al. (2019a) describes the 18-month survey data.

3. ASPIRE intake form and baseline survey

ASPIRE collected data about families at the time of enrollment (October 2014 to April 2016) via an intake form and baseline surveys administered to the youth and the enrolling parent or another parent or legal guardian. The youth survey asked questions designed to measure health; employment; school enrollment; difficulties with activities of daily living; and whether youth had talked to a parent, teacher, or coworker about managing money, postsecondary education, or employment. ASPIRE's parent survey asked about the parent's expectations for the youth and included self-assessments of the parent's financial knowledge and ability to support the youth's independent living. On the ASPIRE intake form, the program collected information about the youth's and parents' race and ethnicity; these data replaced those collected via the PROMISE 18-month surveys in the analyses.⁴ We used all of these data to construct covariates for use in regression models that estimated the impacts of ASPIRE. For our analysis, we used data only from baseline interviews that ASPIRE conducted either before or within two weeks of enrollment in the evaluation. We did not use the baseline survey data for 10 cases (1 percent) because ASPIRE staff had conducted those surveys more than two weeks after enrollment.

4. Non-survey data

This section describes the four sources of non-survey data used to conduct the five-year impact analysis: (1) the PROMISE RA system, (2) SSA records, (3) Centers for Medicare & Medicaid Services (CMS) records, and (4) Rehabilitation Services Administration (RSA) records.

a. RA system data

The RA system was a web-based system that Mathematica designed to enroll youth in PROMISE and assign them either to a treatment or control group. Staff at each program entered data about an enrolling youth and parent into the system at the time of enrollment (from April 2014 through April 2016). Data from this system are available for each PROMISE program.

The RA system documented the enrollees' treatment status—a variable we used in the impact analyses. Because treatment services were provided at the family level, we attempted to purposively assign all siblings of PROMISE-enrolled youth to the same research group (treatment or control) as their sibling. In some cases, we were unable to identify that two youth were siblings until after RA. Siblings could be missed if the information the parent provided at the time of RA was inconsistent across siblings; for

⁴ The replacement changed the youth's or parent's race and ethnicity information for 742 enrollees (roughly 38 percent of ASPIRE enrollees). This was primarily due to replacing missing race and ethnicity information from the 18-month surveys (for 476 youth and 392 parents) with non-missing information from the ASPIRE intake form. In a small number of cases, the ASPIRE intake data were missing race and ethnicity information while the 18-month survey data were not (for 22 youth and 49 parents); we used the 18-month survey data for these cases.

example, two different parents could have enrolled the two youth, or the parent may have listed a different birth date for him or herself. In these cases, upon learning of the sibling status, we later reclassified youth to ensure only one youth in a family was in the research sample. If siblings were assigned to different groups and services had already begun, we removed the control group youth from the research sample. If the youth were assigned to the same study group or services had not yet begun, the youth who was randomly assigned later was removed from the research sample. Only a few cases were removed from the research sample after having been randomly assigned—six in Arkansas PROMISE, one in ASPIRE, eight in Maryland (MD) PROMISE, six in New York State (NYS) PROMISE, and three in Wisconsin (WI) PROMISE.

b. SSA data

We obtained data on the annual earnings of youth and parents, SSA disability benefits, and the status of youth's age-18 redetermination. We used earnings data from SSA's Master Earnings File, which contains annual earnings as reported by employers to the Internal Revenue Service. The annual earnings data covered 2013 through 2021, which encompassed the calendar year before and five calendar years after the year of RA for all enrollees.⁵

We used the disability program benefit data from April 2013 through December 2021, which covered the 12 months before RA through the five calendar years following PROMISE enrollment for all youth enrollees and their parents. Data on SSI receipt, including dates of application and monthly payment amounts, came from the Supplemental Security Record (SSR). Data on Old-Age, Survivors, and Disability Insurance (OASDI) program payments came from the Payment History Update System. We also obtained data on several key baseline characteristics from the SSR, including youth's length of SSI payment receipt at RA, age at first SSI application, the primary impairment that was the basis for the youth's SSI eligibility, and the parents' receipt of SSI or OASDI payments at the time of RA.

The data on the youth's age-18 redetermination ranged from April 2014 through April 2021, covering the five years after RA for all enrollees. These data indicated whether the youth had an age-18 benefits redetermination within five years of RA, and if so, whether their benefits were ceased or continued or the final decision was pending.

c. CMS data

We obtained data on the Medicaid and Medicare enrollment and expenditures of youth enrollees and their parents from CMS. We used Medicaid data from April 2013 through December 2020, representing four to five years after RA, depending on the date of enrollment. We used Medicare data from April 2013 through April 2021, which covered the full 60 months after RA for all enrollees.

d. RSA data

We obtained data on youth's participation in state vocational rehabilitation (VR) agency services from SSA through an agreement it has with RSA. We used RSA data from April 2013 through December 2020, representing four to five years after RA, depending on the date of enrollment. We used data on whether the youth applied for and received services during that period.

⁵ Mathematica did not have direct access to the earnings data. The evaluation team worked with SSA staff to analyze these data.

5. Cost data

To estimate the economic cost to implement the PROMISE programs, we collected information about each program's costs during a one-year period associated with delivering its services, including the costs it did not incur directly, such as volunteer labor and donated facilities or supplies. We focused on data related to four types of costs: labor costs, other direct costs, indirect costs, and the costs of donated goods and services (Appendix Table A.3).

| Input category | Definition |
|-------------------------------------|--|
| Labor costs | Salaries and fringe benefits for direct employees of the PROMISE program |
| Other direct costs | Payments made directly to enrollees and services purchased on behalf of enrollees (including services provided by organizations under contract to or otherwise formally affiliated with the PROMISE program) |
| Indirect costs | Costs of supports purchased to operate the program (for example, office supplies, staff travel, equipment, rent, utilities, and general administrative costs) |
| Costs of donated goods and services | Volunteered time, donated goods, and donated meeting spaces |

Appendix Table A.3. Input cost category definitions

Each PROMISE program submitted its itemized inputs and total costs for a specified 12-month steadystate period during which the programs had completed enrollment but were not yet winding down services (Appendix Table A.4). Data collection procedures involved working with program staff to obtain relevant financial documents and conducting interviews with the program's financial administrator, program staff, and others involved in the demonstration about costs and additional services that enrollees may have received. The process also included administering activity logs for two one-week periods, during which staff documented their time spent performing work within each of the program's service and administration components. These periods were just before or during the cost period (Appendix Table A.4).

| | | Activity log | | |
|----------------------------------|------------------------------------|--|-------------------------|--|
| Program | 12-month steady state period | Collection dates | Number of program staff | |
| Arkansas | October 1, 2016–September | Round 1: August 8, 2016–August 14, 2016 | 33 | |
| PROMISE | 30, 2017 | Round 2: October 3, 2016–October 9, 2016 | 32 | |
| ASPIRE October 1, 2016–September | | Round 1: August 8, 2016–August 14, 2016 | 42 | |
| | 30, 2017 | Round 2: October 24, 2016–October 30, 2016 | 37 | |
| CaPROMISE | July 1, 2016 –June 30, 2017 | Round 1: September 12, 2016–September 18, 2016 | 40 | |
| | | Round 2: September 19, 2016–September 25, 2016 | 40 | |
| MD PROMISE | July 1, 2016–June 30, 2017 | Round 1: August 8, 2016–August 14, 2016 | 38 | |
| | | Round 2: October 24, 2016–October 30, 2016 | 36 | |
| NYS PROMISE | October 1, 2016–September 30, 2017 | Round 1: July 25, 2016–July 31, 2016 | 23 | |
| | | Round 2: October 31, 2016–November 6, 2016 | 24 | |

Appendix Table A.4. Periods of cost data collection and activity logs, by program

| | | Activity log | | |
|------------|---------------------------------|---|-------------------------|--|
| Program | 12-month steady state period | Collection dates | Number of program staff | |
| WI PROMISE | October 1, 2016- | Round 1: August 22, 2016–August 29, 2016 | 28 | |
| | September 30, 2017 | Round 2: November 28, 2016–December 4, 2016 | 25 | |

ASPIRE = Achieving Success by Promoting Readiness for Education and Employment; CaPROMISE = California PROMISE; MD = Maryland; NYS = New York State; WI = Wisconsin.

B. Analysis samples

The full research sample for the evaluation analysis consists of the 12,084 youth who enrolled in the evaluation and were randomly assigned, as well as their families. Because the five-year impact and benefit cost analyses used a variety of data sources, sample sizes varied by source.

1. Sample sizes

The analysis sample sizes were in some cases smaller than the research sample sizes, but the reason for the difference varied by data source (five-year survey, SSA data, CMS data, and RSA data). Appendix Table A.5 shows the sizes of the full research sample and analysis samples by treatment status and program.

| Sample | Arkansas PROMISE | ASPIRE | CaPROMISE | MD PROMISE | NYS PROMISE | WI PROMISE |
|--|---------------------|--------|-----------|---------------|----------------|---------------|
| All enrollees | | | | | | |
| Treatment | 1,027 | 1,033 | 1,646 | 997 | 1,057 | 1,018 |
| Control | 973 | 1,018 | 1,627 | 1,009 | 1,033 | 1,006 |
| Total | 2,000 | 2,051 | 3,273 | 2,006 | 2,090 | 2,024 |
| Research sample | | | | | | |
| Treatment | 904 | 978 | 1,548 | 936 | 986 | 960 |
| Control | 901 | 975 | 1,549 | 930 | 981 | 946 |
| Total | 1,805 | 1,953 | 3,097 | 1,866 | 1,967 | 1,896 |
| Analysis samples (as a percentage of the total research sample) ^a | | | | | | |
| Five-year youth survey | 79.8 | 81.5 | 51.8 | 79.6 | 84.5 | 83.9 |
| Five-year parent survey | 77.2 | 79.2 | 51.8 | 77.8 | 83.6 | 82.3 |
| SSA, CMS, and RSA data—youth | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| SSA and CMS data—parents | 98.2 | 91.5 | 84.9 | 93.9 | 94.6 | 96.6 |

Appendix Table A.5. PROMISE sample sizes, by program

Note: The research sample comprises all youth who were randomly assigned. The research sample excludes (1) youth who had siblings already enrolled in the study and were purposively assigned to the same groups as their siblings and (2) up to five youth per program who were purposively assigned to the treatment group at the program's request. The analysis samples comprise youth or parents who were included in the analyses that were based on data from the specified source. The five-year youth and parent survey sample percentages are lower than the survey responses rates because the denominators for the response rates exclude youth and parents in the research sample who were ineligible for the surveys.

^a In CaPROMISE, the percentages are smaller because the survey sample consisted of 2,000 youth and parents.

ASPIRE = Achieving Success by Promoting Readiness for Education and Employment; CaPROMISE = California PROMISE; CMS = Centers for Medicare & Medicaid Services; MD = Maryland; NYS = New York State; RSA = Rehabilitation Services Administration; SSA = Social Security Administration; WI = Wisconsin.

The analysis samples of the five-year survey data were smaller than the full research sample because of sampling, survey nonresponse, and the deaths of some enrollees. We sampled 2,000 of the 3,097 CaPROMISE research cases as planned in the evaluation design report.

For the SSA, CMS, and RSA data, all PROMISE youth in the research sample were included in the analysis sample, as were most parents. Because PROMISE enrollment required that youth provide a valid Social Security number (SSN), we could obtain SSA, CMS, and RSA data for all youth in the research sample. We used the following procedure to identify parents for inclusion in the analysis sample:

- Using information in the SSR, SSA identified a youth's parents (if available) as of the month of PROMISE enrollment. If the enrolling parent was either the youth's mother or father, the analysis sample included any parents identified in the SSR.
- If the enrolling parent was not a mother or father or there were no parents identified on the SSR, the analysis sample included the enrolling parent only if he or she provided an SSN that SSA validated through its Enumeration Verification System.

2. Baseline balance

For each program and across all programs, we compared the baseline characteristics of the treatment and control groups for various samples: all youth survey respondents, all parent survey respondents, all enrollees, and all proxy youth respondents (Appendix Tables C.1–I.1, C.2–I.2, C.3–I.3, and C.4–I.4). On average, most of the baseline characteristics were similar for the treatment and control groups. The similarity of samples across these characteristics suggest that RA created treatment and control groups in each program that were equivalent in their baseline characteristics.

In a few cases, we found statistically significant differences between the treatment and control groups at baseline. Nonetheless, we believe the estimated impacts can still be interpreted as the causal impacts of PROMISE. Because we conducted RA in a way that ensured compliance, including removing any cases that were purposively assigned to one group or the other, we are confident that the treatment and control groups were not systematically different from one another. Though some individual characteristics may have shown statistically significant differences, they were likely to be due to chance. With a significance level of 10 percent, we thus expect to reject the null hypothesis that the groups were equivalent for 1 out of every 10 characteristics by chance alone, even when the two groups in fact had no underlying differences. Therefore, significant differences for a few characteristics out of the 25 we considered are not concerning. Furthermore, as we describe in Appendix B, we included characteristics that were significantly different at baseline as covariates in our regression-adjusted impact analyses, allowing us to control for the observed differences.

3. Minimum detectable impacts based on observed outcomes and sample sizes

Statistical power was a key consideration in developing the PROMISE evaluation design (Fraker et al. 2014a). The evaluation enrolled 2,000 youth in each program except CaPROMISE; it enrolled more than 3,000 youth in that program. At the evaluation design stage, we estimated the minimum detectable impacts (MDIs)—that is, the smallest program impacts we expected to be able to detect with reasonably high probability, given the research sample sizes (Appendix Table A.6). We calculated MDIs using

administrative or survey data on five key outcomes for youth in the first year after RA: (1) employment in paid jobs, (2) annual earnings, (3) school enrollment, (4) SSI benefit receipt, and (5) annual SSI payments (Fraker et al. 2014). For example, the original estimates indicated that, for all programs except CaPROMISE, we could expect to detect program impacts of 5 percentage points or larger on employment in paid jobs and of \$357 on youth earnings, using administrative data. Notably, these estimates focused on short-term outcomes and assumed mean values and standard deviations for control group outcomes that were based on findings from the Youth Transition Demonstration 12-month impact analyses, which were the most comparable and recent data on transition-age youth receiving SSI available at the time.

After data collection for the five-year evaluation was completed, we estimated post-hoc MDIs, that is, MDIs based on the observed distribution of outcomes and sample sizes in the actual research samples (Appendix Table A.7). The post-hoc MDIs for 18-month outcomes were similar to the estimated MDIs. For example, for Arkansas PROMISE, the post-hoc MDI for employment in the year before the 18-month survey was 5 percentage points, exactly what was estimated during the evaluation design stage, and the post-hoc MDI for earnings was \$343, roughly the same as the MDI estimated at the evaluation design stage (\$357). The 18-month impact analysis was able to detect statistically significant impacts for many key outcomes in each of the PROMISE programs (Mamun et al. 2019a).

The post-hoc MDIs for the five-year outcomes were substantially larger than those for 18-month outcomes. For example, for Arkansas PROMISE, the post-hoc MDI was \$1,294 for earnings in the year before the five-year survey, compared to \$343 for earnings in the year before the 18-month survey. Although the sample sizes did not change much between the 18-month and five-year impact analysis, the control group means and standard deviations increased significantly, which resulted in larger MDIs. The increase in means and variances between the 18-month and five-year outcomes (shown in Appendix Table A.7) is likely attributable to youth's increased workforce participation as they aged from 15-17 to 19-21 years old over this period. Further, the COVID-19 pandemic might have introduced additional variance in youth's outcomes.

For some five-year outcomes, the post-hoc MDIs were probably larger than program effects that might be considered policy relevant, meaning that the evaluation might not be able to detect some policy relevant effects. For example, the point estimate for the impact of WI PROMISE on youth earnings in the year before the survey was \$668 (Appendix Table H.9). This point estimate is meaningfully large and policy relevant – it represents an increase of 14 percent over the control group mean and is about the size of the annual impact on youth earnings that would be needed in Years 6-10 after RA for the program to be cost neutral by Year 20 (see Appendix Figure H.1). Nonetheless, it is smaller than the post-hoc MDI of \$1,202 and not statistically significant. Indeed, using the observed distributions, any estimate smaller than a 25 percent change in earnings relative to the control group would likely not have been found to be statistically significant, and thus, we would not interpret it as a program impact.

| | Assumed mean value | Adminis | Follow-up survey data | |
|-----------------------|---|-------------------------|-----------------------------|---------------------------|
| Outcome | of outcome for control group members | California (N=3,100) | Other programs (N=2,000) | All programs (N=1,600) |
| Employed in paid jobs | 23% | 4% | 5% | 6% |
| Annual earnings | \$900 | \$287 | \$357 | \$399 |
| Enrolled in school | 88% | n.a. | n.a. | 4% |
| SSI receipt | 99% | 1% | 1% | n.a. |
| Annual SSI payments | \$6,500 | \$220 | \$274 | n.a. |

Appendix Table A.6. MDIs estimated for the evaluation design

Source: Fraker et al. 2014.

Note: MDI estimates assume (1) an equal number of treatment and control members, (2) a 95 percent confidence level with an 80 percent level of power, (3) a two-tailed test, (4) a reduction in variance of 10 percent owing to the use of regression models, (5) standard deviations of annual earnings and annual SSI payments of \$3,000 and \$2,300, respectively, (6) administrative data obtained on 100 percent of the sample, and (7) survey response rates of 80 percent. Mean values of outcomes for control group members are based on findings from the Youth Transition Demonstration evaluation's twelve-month impact analysis (Fraker 2013).

MDI = minimum detectable impact; N = sample size; n.a. = not applicable

Appendix Table A.7. Post-hoc MDIs based on observed outcomes and sample sizes (measured in percentage points, unless otherwise specified)

| Outcome | Control group mean | Standard deviation | Sample size | MDI |
|---|-----------------------|-----------------------|-------------|-----|
| All PROMISE programs (pooled data) | | | | |
| 18-month outcomes | | | | |
| Enrolled in school | 91.0 | 28.7 | 9,325 | 1.6 |
| Employed in a paid job during the past year | 17.3 | 37.8 | 9,311 | 2.1 |
| Earnings in the past year (\$) | 710 | 2,756 | 9,311 | 152 |
| Received SSA payments in 18-month period since RA | 96.9 | 17.4 | 12,584 | 0.8 |
| SSA payments in 18-month period since RA (\$) | 10,772 | 3,702 | 12,584 | 175 |
| Total income in the past year (\$) | 7,658 | 3,677 | 9,330 | 202 |
| Five-year outcomes | | | | |
| Enrolled in an educational or training program | 42.9 | 49.5 | 9,064 | 2.8 |
| Employed in a paid job in the past year | 42.2 | 49.4 | 9,377 | 2.7 |
| Earnings in the past year (\$) | 4,426 | 8,631 | 9,377 | 474 |
| Received SSA payments in Year 5 after RA | 64.0 | 48.0 | 12,584 | 2.3 |
| SSA payments in Year 5 after RA (\$) | 5,231 | 4,482 | 12,584 | 212 |
| Total income in the past year (\$) | 9,858 | 7,902 | 9,377 | 434 |
| Arkansas PROMISE | | | | |
| 18-month outcomes | | | | |
| Enrolled in school | 90.8 | 28.9 | 1,467 | 4.0 |
| Employed in a paid job during the past year | 16.2 | 36.8 | 1,467 | 5.1 |
| Earnings in the past year (\$) | 747 | 2,470 | 1,467 | 343 |
| Received SSA payments in 18-month period since RA | 97.2 | 16.4 | 1,805 | 2.1 |
| SSA payments in 18-month period since RA (\$) | 10,930 | 3,423 | 1,805 | 429 |
| Total income in the past year (\$) | 7,802 | 3,398 | 1,469 | 472 |

| Outcome | Control group | Standard deviation | | MDI |
|---|---------------|--------------------|-------------|-------|
| Outcome | mean | deviation | Sample size | |
| Five-year outcomes | 29.0 | 45.4 | 4 070 | 6.5 |
| Enrolled in an educational or training program | | 45.4 | 1,372 | |
| Employed in a paid job in the past year | 48.6 | 50.0 | 1,441 | 7.0 |
| Earnings in the past year (\$) | 5,198 | 9,237 | 1,441 | 1,294 |
| Received SSA payments in Year 5 after RA | 56.3 | 49.6 | 1,805 | 6.2 |
| SSA payments in Year 5 after RA (\$) | 4,210 | 4,329 | 1,805 | 542 |
| Total income in the past year (\$) | 9,463 | 8,745 | 1,441 | 1,225 |
| ASPIRE | | | | |
| 18-month outcomes | | | | |
| Enrolled in school | 91.9 | 27.3 | 1,559 | 3.7 |
| Employed in a paid job during the past year | 17.1 | 37.7 | 1,555 | 5.1 |
| Earnings in the past year (\$) | 781 | 3,148 | 1,555 | 425 |
| Received SSA payments in 18-month period since RA | 95.5 | 20.8 | 1,953 | 2.5 |
| SSA payments in 18-month period since RA (\$) | 10,132 | 4,230 | 1,953 | 509 |
| Total income in the past year (\$) | 7,239 | 4,250 | 1,560 | 572 |
| Five-year outcomes | | | | |
| Enrolled in an educational or training program | 38.7 | 48.7 | 1,550 | 6.6 |
| Employed in a paid job in the past year | 43.1 | 49.5 | 1,592 | 6.6 |
| Earnings in the past year (\$) | 4,984 | 9,105 | 1,592 | 1,214 |
| Received SSA payments in Year 5 after RA | 66.5 | 47.2 | 1,953 | 5.7 |
| SSA payments in Year 5 after RA (\$) | 5,313 | 4,299 | 1,953 | 517 |
| Total income in the past year (\$) | 10,570 | 7,975 | 1,592 | 1,063 |
| CaPROMISE | | | | |
| 18-month outcomes | | | | |
| Enrolled in school | 93.2 | 25.1 | 1,633 | 3.3 |
| Employed in a paid job during the past year | 9.5 | 29.3 | 1,631 | 3.9 |
| Earnings in the past year (\$) | 448 | 2,656 | 1,631 | 350 |
| Received SSA payments in 18-month period since RA | 96.8 | 17.7 | 3,097 | 1.7 |
| SSA payments in 18-month period since RA (\$) | 10,732 | 3,736 | 3,097 | 357 |
| Total income in the past year (\$) | 7,366 | 3,600 | 1,634 | 474 |

| Outcomo | Control group | Standard deviation | | MDI |
|--|-----------------|--------------------|-------------|-------|
| Outcome | mean | deviation | Sample size | WIDI |
| Five-year outcomes | 58.1 | 49.4 | 1 507 | 6.6 |
| Enrolled in an educational or training program | 33.3 | 49.4 | 1,567 | 6.3 |
| Employed in a paid job in the past year | | | 1,605 | |
| Earnings in the past year (\$) | 3,648 | 8,259 | 1,605 | 1,096 |
| Received SSA payments in Year 5 after RA SSA payments in Year 5 after RA (\$) | | 47.6 | 3,097 | 4.6 |
| | 6,196 10,093 | 5,085 | 3,097 | 1,002 |
| Total income in the past year (\$) MD PROMISE | 10,093 | 7,546 | 1,605 | 1,002 |
| 18-month outcomes | | | | |
| Enrolled in school | 84.1 | 36.6 | 1.500 | 5.0 |
| | 17.7 | 38.2 | 1,300 | 5.3 |
| Employed in a paid job during the past year | | | , | |
| Earnings in the past year (\$) | <u> </u> | 3,458 | 1,496 | 476 |
| Received SSA payments in 18-month period since RA | | 17.7 | • | |
| SSA payments in 18-month period since RA (\$) | 10,688 | 3,723 | 1,866 | 458 |
| Total income in the past year (\$) | 7,865 | 4,100 | 1,501 | 563 |
| Five-year outcomes | | 40.0 | 4.404 | |
| Enrolled in an educational or training program | 38.8 | 48.8 | 1,431 | 6.9 |
| Employed in a paid job in the past year | 44.9 | 49.7 | 1,486 | 6.9 |
| Earnings in the past year (\$) | 4,987 | 9,259 | 1,486 | 1,278 |
| Received SSA payments in Year 5 after RA | 60.5 | 48.9 | 1,866 | 6.0 |
| SSA payments in Year 5 after RA (\$) | 4,857 | 4,419 | 1,866 | 544 |
| Total income in the past year (\$) | 10,096 | 8,477 | 1,486 | 1,170 |
| NYS PROMISE | | | | |
| 18-month outcomes | | | | |
| Enrolled in school | 95.1 | 21.5 | 1,691 | 2.8 |
| Employed in a paid job during the past year | 16.8 | 37.4 | 1,689 | 4.8 |
| Earnings in the past year (\$) | 571 | 2,110 | 1,689 | 273 |
| Received SSA payments in 18-month period since RA | 97.9 | 14.5 | 1,967 | 1.7 |
| SSA payments in 18-month period since RA (\$) | 11,292 | 3,383 | 1,967 | 406 |
| Total income in the past year (\$) | 7,824 | 3,073 | 1,691 | 397 |

| Outcome | Control group mean | Standard deviation | Sample size | MDI |
|---|-----------------------|-----------------------|-------------|-------|
| Five-year outcomes | | ueviation | | |
| Enrolled in an educational or training program | 57.1 | 49.5 | 1.623 | 6.5 |
| Employed in a paid job in the past year | 32.8 | 46.9 | 1.662 | 6.1 |
| Earnings in the past year (\$) | 2,828 | 6,227 | 1,662 | 812 |
| Received SSA payments in Year 5 after RA | 67.8 | 46.8 | 1,967 | 5.6 |
| SSA payments in Year 5 after RA (\$) | 5,426 | 4,231 | 1,967 | 507 |
| Total income in the past year (\$) | 8,422 | 6,092 | 1,662 | 795 |
| WI PROMISE | | | · | |
| 18-month outcomes | | | | |
| Enrolled in school | 90.6 | 29.2 | 1,475 | 4.0 |
| Employed in a paid job during the past year | 26.3 | 44.0 | 1,473 | 6.1 |
| Earnings in the past year (\$) | 882 | 2,440 | 1,473 | 338 |
| Received SSA payments in 18-month period since RA | 97.1 | 16.7 | 1,896 | 2.0 |
| SSA payments in 18-month period since RA (\$) | 10,861 | 3,560 | 1,896 | 435 |
| Total income in the past year (\$) | 7,854 | 3,445 | 1,475 | 477 |
| Five-year outcomes | | | | |
| Enrolled in an educational or training program | 35.4 | 47.9 | 1,521 | 6.5 |
| Employed in a paid job in the past year | 50.6 | 50.0 | 1,591 | 6.7 |
| Earnings in the past year (\$) | 4,904 | 9,010 | 1,591 | 1,202 |
| Received SSA payments in Year 5 after RA | 67.5 | 46.8 | 1,896 | 5.7 |
| SSA payments in Year 5 after RA (\$) | 5,385 | 4,233 | 1,896 | 517 |
| Total income in the past year (\$) | 10,493 | 8,080 | 1,591 | 1,077 |

Source: PROMISE 18-month and five-year surveys; SSA data.

Note: This table shows the observed control group means, standard deviations and sample sizes after pooling data across the six PROMISE programs and for each PROMISE program. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse. The MDI calculations assume a 95 percent confidence level with an 80 percent level of power, a two-tailed test, and a reduction in variance of 10 percent owing to the use of regression models. The MDIs differ for each program depending on program-specific control group means, standard deviations, and sample sizes.

MDI = minimum detectable impact; RA = random assignment; SSA = Social Security Administration

C. Missing data

For a variety of reasons, data were missing from the analyses. Survey data were not available for some sample members because of survey and item nonresponse and because some individuals in the research sample were not targeted for the surveys. More rarely, administrative data were missing because some enrollees or their parents could not be identified in the administrative records. Below we describe the approaches we used to address missing data on baseline characteristics and outcomes.

Data on enrollee baseline characteristics came primarily from administrative data; therefore, data on baseline characteristics were missing for only a small share of cases (no more than 5 percent) in each PROMISE program.⁶ We treated categorical and continuous missing baseline data differently. For continuous and binary baseline measures with missing data, we replaced the missing values with the program-specific mean values of the measures calculated from the observations for which data were not missing. For categorical baseline measures, we added a category to indicate missing data.

Data on outcomes might be missing for some enrollees for various reasons. Administrative data on outcomes were never missing for youth but might be missing for a small subset of parents who could not be found in administrative data. (See Section B.1 above for a description of the procedure for including administrative data on parents.) Survey outcome data might not be available for youth or parents for several reasons: survey sampling, survey nonresponse, item nonresponse, and the targeting of some survey questions only to self-reporting youth. The sections that follow describe the approaches we used to address data that were missing for each of these reasons.

1. Missing data due to survey sampling and nonresponse

a. Sampling and nonresponse

For all programs except CaPROMISE, we attempted to survey all survey-eligible youth and parents. For CaPROMISE, we sampled 2,000 of the 3,097 randomly assigned enrollees. We initially selected the sample for the 18-month survey and then used the same sample for the five-year survey. We used stratified random sampling, in which we defined strata by the local educational agency and treatment status. Because CaPROMISE's enrollment was completed over a 21-month period, the 18-month survey effort began before all enrollments were completed. As a result, we sampled in two phases: first from the group that was enrolled by the time the 18-month survey effort began and then from the remainder of the enrollees (Matulewicz et al. 2018). Thus, we did not have survey data for members of the CaPROMISE research sample who were not selected for the survey.

Some sample members were targeted for surveys but did not provide survey responses because they could not be located, were located but refused to be interviewed, or did not participate in the survey for other reasons. However, nonresponse was limited among those targeted for surveys. As shown in Appendix Table A.2, response rates were greater than 80 percent for all programs.

⁶ One exception was data on parents' earnings in the year before RA, which were missing for families when no parents could be identified in SSA data. When we included "Parent had any earnings in the year before RA" or "Parents' earnings in the year before RA" as a covariate in regressions, we used the missing indicator method: we set missing observations of the covariate to a fixed value (zero) and included an extra indicator variable in the model to indicate whether the value for that covariate was missing.

b. Differences between respondents and nonrespondents

As with any survey with less than a 100 percent response rate, there is the potential for survey respondents to differ systematically from nonrespondents. Among survey respondents, if the baseline characteristics of treatment and control groups were not equivalent, survey nonresponse could introduce bias in the impact estimates. In addition, numerous and large differences in the baseline characteristics of survey respondents and nonrespondents would render the impact estimates based on survey data less representative of the full sample of evaluation enrollees. To assess the extent to which survey nonresponse might limit generalizability of the impact findings to all evaluation enrollees, we compared the baseline characteristics between survey respondents and nonrespondents.

For each program and across all programs, we compared youth and parent survey respondents with nonrespondents across 25 baseline characteristics (Appendix Tables C.5–I.5 and C.6–I.6). Overall, even when the differences were statistically significant, they generally were small. The extent and magnitude of the differences suggested that the respondents were not markedly different from the nonrespondents.

c. Survey weights

To account for survey sampling and nonresponse, we calculated and used survey weights in all regression models to estimate impacts on the survey-based outcome measures. The weights for CaPROMISE also accounted for the probability that an enrollee was sampled for the survey. These weights were the product of the survey nonresponse weight and the sampling weight. Here we describe the procedure for constructing the weights.

We used two steps in calculating the survey nonresponse weights. First, we developed a "location model" to estimate the probability of locating a sample member. Second, we developed a "response model" to estimate the probability of survey response among the located sample members. We used logistic regression models to estimate the two probabilities, with youth and parent baseline characteristics and geographic location information as covariates. The location model for CaPROMISE used the sampling weight normalized to the sample size. The response models for all programs used the normalized location-adjusted weight. The set of covariates under consideration for the models differed by program. We identified potential interactions by using Chi-square Automatic Interaction Detector.⁷ We included all available main and interaction effects identified with Chi-square Automatic Interaction Detector as covariates in forward and backward stepwise logistic regression models (using the STEPWISE option of the SAS LOGISTIC procedure). We excluded any covariate or interaction that was unlikely to be related to locating the respondent or to response propensity. Because the stepwise logistic regression procedures in SAS did not fully account for the sample design in the variance estimates, we developed the final weighted models by using a command that accounted for the complex sample design (the SURVEYLOGISTIC procedure in SAS).

Next, we evaluated a series of models comparing the following measures of predictive ability and goodness of fit: the R-squared statistic, the percentage of concordant and discordant pairs, and the Hosmer-Lemeshow goodness-of-fit test. Model fitting also involved reviewing the statistical significance of the coefficients of the covariates in the model and avoiding any unusually large adjustment factors. We created five weighting classes for both the location and the response models based on the quintiles of the estimated propensities and calculated the adjustments at each step as the inverse of the weighted response rate within each weighting class. We calculated the survey nonresponse weights as the product of the

⁷ We calculated Chi-square Automatic Interaction Detector decision trees by using PROC HSPLIT in SAS.

location and response adjustments. As noted above, the survey nonresponse weights served as the analysis weights for all programs but CaPROMISE. For that program, the analysis weight was the product of the sampling and survey nonresponse weights. We assessed the distribution of the weights for unusually high values because widely varying weights make estimates less precise and risk bias if a few cases with high weights had an undue influence on the estimates. However, we did not observe major outliers. In the final step, we ratio-adjusted the marginal weighted sums so they matched the total number of eligible treatment and control group enrollees within each program.

We calculated sampling weights as the inverse of the probability of being selected for the sample. Because this was a stratified random sample in each phase, the sampling weights were simply the population size in each stratum divided by the sample size. The sample was proportionately allocated to each stratum, so the sampling weights were approximately equal to 1.50 for all strata in the first phase and 1.89 for all strata in the second phase.⁸

We developed separate weights for the youth and parent surveys because eligibility and nonresponse differed between them. Thus, for each PROMISE program, we developed two sets of cross-sectional weights—one for the youth survey and another for the parent survey.

2. Missing data due to survey item nonresponse

Sometimes survey respondents did not answer a subset of questions on the survey, resulting in item-level nonresponse. These cases included respondents who refused to answer or did not know the answer to a question. For a small number of cases, respondents did not have the opportunity to answer all questions because they completed the abbreviated, self-administered version of the five-year survey questionnaire.

In most cases, we excluded observations with missing data from the analyses of those outcomes.⁹ However, we did not follow this approach when an outcome had a missing value conditional on the value of another variable. For example, any measure of earnings can be logically filled in with \$0 for those who are not employed; therefore, earnings can be "truly missing" only for employed individuals. If we excluded cases with "truly missing" data on earnings, we would be excluding only people who were employed, so the impact estimates could be biased. To minimize this risk of bias, we used imputation procedures to retain records with conditionally "truly missing" data.¹⁰ For example, for people with

⁸ We obtained these values by dividing the population size by the sample size within each stratum. The population sizes were 2,604 in Phase 1 and 493 in Phase 2 across strata. The sample sizes were 1,739 in Phase 1 and 261 in Phase 2 across strata. We obtained 1.50 by dividing 2,604 by 1,739, and 1.89 by dividing 493 by 261. The actual weights varied from stratum to stratum but did not differ much from 1.50 and 1.89 because we used proportional allocation to the strata.

⁹ An exception was the outcome "highest grade completed at the time of the survey." Instead of dropping missing data, we grouped them with other forms of ungraded programs to create the category "other forms of ungraded programs or do not know at the time of the survey."

¹⁰ The following youth outcomes underwent multiple imputation: (1) conditional on youth being employed in the past year: employed in a paid job, weekly hours worked, total earnings, offered fringe benefits through a job, employment with coaching, employment in integrated settings, employment outside of school-sponsored activities, paid employment is current, current weekly hours worked, current weekly earnings; (2) conditional on youth not currently working for pay: in the labor force, in productive activities; (3) conditional on youth ever arrested: number of arrests; (4) conditional on youth ever incarcerated: length of incarceration; (4) conditional on youth having health insurance: covered by private health insurance, covered by health insurance purchased through an Affordable Care Act health exchange. The following parents' outcomes underwent multiple imputation: (1) conditional on either parent worked for pay in the past year: earnings, weekly hours worked, offered fringe benefits through a job, number of weeks worked; (2) conditional on either parent not currently working for pay: in the labor force.

missing earnings data, we first logically filled in \$0 for people known to be not employed and then used imputed nonzero values for those known to be employed based on responses to other survey questions.

We primarily used multivariate imputation by chained equations to impute outcomes with conditionally missing values (Raghunathan et al. 2001; Van Buuren 2007) and predictive mean matching (Rubin 1986; Little 1988). A key advantage of the multiple imputation approach is to account for imputation uncertainty; common single imputation methods, such as mean-replacement imputation or hot decking, do not account for this uncertainty. As a result, standard errors from data based on single imputation methods may be understated, thus affecting inferences drawn from the data.

We conducted the multiple imputation procedure separately for each program. First, we developed predicted values for the missing cases of each variable using a multivariate regression model and a random disturbance term. Then, using predictive mean matching, we matched each missing data point to the 10 non-missing cases with the closest predicted values.¹¹ Next, we randomly selected 1 of the 10 matched cases to assign the value of that case to the missing data. We iterated this imputation procedure 10 times and created 10 imputed data sets; in other words, we estimated 10 replacement values for each missing case. After completing the imputation, we estimated impacts separately on each of the 10 imputed data sets. We then combined the impact estimates using the approach described in Rubin (1987), which accounts for the uncertainty created by imputing data and adjusts the standard error of impacts appropriately.

In rare instances, we were not able to conduct multiple imputation due to a small number of observations with non-missing data.¹² In these cases, we used mean imputation, filling in missing data with the mean value of the outcome for each program and research group. An example of such a case is if a youth survey respondent from the control group in NYS PROMISE reported receiving income from Temporary Assistance for Needy Families (TANF) but did not provide data on the amount of TANF support received. Because only 7.4 percent of all youth survey respondents reported receiving income from TANF, and only 1.6 percent reported the amount received, we did not have enough data to conduct the multiple imputation procedure described above. Instead, we filled in the mean value of TANF support received by other control group youth survey respondents that reported receiving TANF in NYS PROMISE.

We present estimates from impact analyses using the imputed data in the body of the report. In Appendices C–I, we present findings from an assessment of the sensitivity of the estimates to the use of imputation.

3. Missing data due to targeting survey questions to self-reporting youth

As noted above, the target respondent for the youth survey was the youth who enrolled in the PROMISE evaluation, but if the youth was unable to complete the interview on his or her own, we allowed a proxy to complete it on the youth's behalf. However, some items on the youth five-year survey were asked only if youth completed the survey themselves, not via proxies. In particular, we asked questions pertaining to

¹¹ In the imputation of length of incarceration, we matched to 3 cases instead of 10 due to the small number of observations at each site with positive values of length of incarceration. For example, out of the more than 12,000 enrollees in PROMISE, only 337 youth reported ever being incarcerated, and only 327 reported the length of incarceration.

¹² We used mean imputation when the multiple imputation procedure would likely be inaccurate due to the very small share of observations with positive values. We adopted the same procedure across all sources of income because we combined them to construct the measure of total household income.

the youth's self-determination and expectations for the future only of self-reporting youth. Thus, proxy respondents were likely to have more item-level missing data.

We compared the baseline characteristics of youth for whom we collected survey data through selfresponse versus proxy response (Appendix Tables C.7–I.7). This approach allowed us to assess whether systematically missing data from different survey modes might affect the estimated impacts on surveybased outcomes. We found some differences in baseline characteristics by survey response type. For example, in every program except Arkansas PROMISE, youth with proxy respondents were less likely to prefer English as their written and spoken language than other respondents. As another example, in all sites except MD PROMISE, youth with proxy respondents had more years since first becoming eligible for SSI and RA compared with other respondents. As a result of these types of differences, the findings for some outcomes (that is, those not queried of proxy respondents, such as the self-determination measures) might not be generalizable to all youth.

D. Outcomes measures

We organized the outcome descriptions by the youth and parent outcome domains and noted the data source for each outcome in parentheses. For most continuous measures, we removed extreme outliers and winsorized the distribution.¹³ For most dollar-denominated measures, we inflation adjusted to 2020 dollars using the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W). When inflation adjusting measures that spanned multiple years, we inflation adjusted based on the number of months in each year. When inflation adjusting earnings in the year before the survey for a youth who completed the survey in March 2019, for example, we assumed 3 of 12 months of earnings occurred in 2019 and 9 of 12 months of earnings occurred in 2018.

1. Youth outcomes

We assessed youth outcomes in the following domains: education and training, employment and earnings, self-determination and expectations, health insurance coverage and expenditures, SSA payments and knowledge of work supports, and economic and social well-being. Below, for each domain, we describe the outcome measures that we examined.

a. Youth's education and training

This domain includes multiple measures of youth's education and training measured at the time of the five-year survey. The primary outcomes (and their data sources) in the youth education and training domain include the following:

¹³ Winsorizing involves removing or transforming extreme values in a data distribution in order to reduce the effect of possibly spurious outliers. We winsorized outcome measures at the most granular level of data available. For example, for youth earnings, we winsorized earnings at the job level first rather than at the youth level. We took the following steps for all measures with 100 or more non-zero values. First, we calculated the 99th percentile, excluding zeroes and outlier values (values more than three times the inter-quartile range above the 75th percentile of non-zero values). We then top-coded values above the 99th percentile of the program-specific distribution of nonzero and non-outlier values at the 99th percentile of the program-specific distribution of nonvalues. We applied the same winsorizing procedure one more time to certain aggregated outcomes after their construction: youth's total earnings from all jobs and youth's and parents' household income. We also bottom-coded two measures (youth's hourly wage and weekly earnings at a job in the past year) at the 1st percentile of the program-specific distribution of the measure using the same procedure.

- Youth enrolled in an educational or training program (youth five-year survey). This binary measure indicates whether at interview the youth was attending or enrolled in school or a training program or was taking classes outside of school to help them learn job skills or get a job.
- Youth had a General Educational Development (GED), high school diploma, or certificate of completion (youth five-year survey). This binary measure indicates whether at interview the youth had received a GED, high school diploma, or certificate of completion from high school.

- Youth enrolled in postsecondary education (youth five-year survey). This binary measure indicates whether at interview the youth was enrolled in any type of postsecondary school, including vocational, technical or trade school, two-year or community college, four-year college or university, or a Masters, PhD, or other advanced degree program.
- **Type of school youth is attending (youth five-year survey).** This categorical measure indicates whether at interview the youth was attending a high school serving a variety of students; a high school serving only students with disabilities; a GED program or other adult education program; a postsecondary vocational, trade, or technical school; a postsecondary college or advanced degree program; other type of school; or no school.
- **Highest grade youth completed (youth five-year survey).** This categorical measure indicates whether at interview the youth had finished less than 12th grade; finished 12th grade or was a senior in high school; some or all of college or university; or other forms of ungraded programs, do not know, or refused to answer.
- Youth was enrolled in a training program (youth five-year survey). This binary measure indicates whether at interview the youth was enrolled in a training program or taking classes outside of school to learn job skills or get a job.
- Youth received a training credential in the past year (youth five-year survey). This binary measure indicates whether the youth received a job-related training diploma, certificate, or license in the year before the survey.
- Youth had a school suspension or expulsion in the past year (youth five-year survey). This binary measure indicates whether the youth had been suspended or expelled from school in the year before the survey.
- Youth received an educational accommodation (youth five-year survey). This binary measure indicates whether the youth was in school and reported receiving any services, supports, or accommodations to help in the school in which they were enrolled.
- Youth received training accommodations (youth five-year survey). This binary measure indicates whether the youth was enrolled in a training program and reported receiving any services, supports, or accommodations to help in the training program in which they were enrolled.
- Youth received supports or services for postsecondary schooling in the past year (youth fiveyear survey). This binary measure indicates whether the youth received any supports or services from someone who was not part of their family in continuing their education beyond high school in the year before the survey.

b. Youth's employment and earnings

This domain includes multiple measures of youth's employment and earnings at different points in time derived from three sources (five-year youth surveys, SSA data, and RSA data). The primary outcomes (and their data sources) in the youth employment and earnings domain include the following:

- Youth was employed in a paid job in the past year (youth five-year survey). This binary measure indicates whether the youth held a paid job in the year before the survey. If the youth held a job in the year before the survey but had missing information about whether the job was paid, we used multiple imputation at the program level to fill in the missing information.
- Youth's total earnings in the past year (youth five-year survey). This continuous measure shows the youth's total earnings from all paid jobs in the year before the survey. If the youth held a paid job in the year before the survey but had missing earnings information, we used multiple imputation at the program level to fill in the missing information.
- Youth's earnings during the five calendar years after RA (SSA data). This continuous measure shows the youth's total earnings in the five calendar years after RA.

- Youth had paid or unpaid employment in the past year (youth five-year survey). This binary measure indicates whether the youth held a paid or unpaid job in the year before the survey.
- Youth's weekly hours worked in the past year (youth five-year survey). This continuous measure shows the youth's average hours worked per week across all paid jobs in the year before the survey. If the youth did not report the number of hours worked at a job, he or she could report the number in ranges. We used the mid-point of each range to calculate weekly hours worked at a job. The top category was defined as more than 35 hours per week; we top-coded it at 40 hours. If the youth held a paid job in the year before the survey but reported neither the number nor range of hours, we used multiple imputation at the program level to fill in the missing information.
- Youth was employed in a paid job that offered fringe benefits in the past year (youth five-year survey). This binary measure indicates whether the youth had any paid jobs that offered health insurance, paid vacation or sick leave, or any kind of pension or retirement plan benefits in the year before the survey. If the youth held a paid job in the year before the survey but had missing information about fringe benefits, we conducted multiple imputation separately for each PROMISE program to fill in the missing information.
- Youth was employed in an integrated setting in the past year (youth five-year survey). This binary measure indicates whether the youth had any paid jobs at which most of the other workers did not have disabilities in the year before the survey. If the youth held a paid job in the year before the survey but had missing information about integrated settings, we conducted multiple imputation separately for each PROMISE program to fill in the missing information.
- Youth was employed outside of school-sponsored activities in the past year (youth five-year survey). This binary measure indicates whether the youth had any paid jobs that did not involve school-sponsored activities, such as a work-study job, an internship, or a job in a school-based business, in the year before the survey. If the youth held a paid job in the year before the survey but had missing information about school-sponsored activities, we conducted multiple imputation separately for each PROMISE program to fill in the missing information.

- Youth had a job with coaching in the past year (youth five-year survey). This binary measure indicates in the year before the survey whether the youth had any paid jobs that involved a job coach or someone from school or from an agency who went with the youth to help them learn the job. If the youth held a paid job in the year before the survey but had missing information about coaching, we conducted multiple imputation separately for each PROMISE program to fill in the missing information.
- Youth received supports or services in getting or keeping a job in the past year (youth five-year survey). This binary measure indicates whether the youth received any supports or services from someone who was not part of their family in getting or keeping a job in the year before the survey.
- Youth had paid employment at the time of the survey (youth five-year survey). This binary measure indicates whether the youth held a paid job at the time of the survey. If the youth held a job in the year before the survey but had missing information about whether the job was paid or the youth was still employed at the job at the time of the survey, we conducted multiple imputation separately for each PROMISE program to fill in the missing information.
- Youth's average weekly earnings at the time of the survey (youth five-year survey). This continuous measure shows the youth's total weekly earnings from all paid jobs held at the time of the survey. If the youth held a paid job at the time of the survey but had missing earnings information, we conducted multiple imputation separately for each PROMISE program to fill in the missing information.
- Youth's weekly hours worked at the time of the survey (youth five-year survey). This continuous measure shows the youth's hours worked per week across all paid jobs held at the time of the five-year survey. If the youth held a paid job at the time of the five-year survey but had missing hours information, we conducted multiple imputation separately for each PROMISE program to fill in the missing information.
- Youth participated in the labor force at the time of the survey (youth five-year survey). This binary measure indicates whether the youth held any paid or unpaid job or was looking for work at the time of the survey. If the youth did not hold a job at the time of the survey but had missing information about whether he or she was looking for work at the time of the survey, we conducted multiple imputation separately for each PROMISE program to fill in the missing information.
- Youth's employment in each calendar year after RA (SSA data). This binary measure indicates whether the youth had any earnings in each calendar year after RA.
- Youth's employment during the five calendar years after RA (SSA data). This binary measure indicates whether the youth had any earnings during the five calendar years after RA.
- Youth's earnings in each calendar year after RA (SSA data). This continuous measure shows the youth's total earnings in each calendar year after RA.
- Youth applied for VR services after RA (RSA data). This binary measure indicates whether the youth applied for VR services in the five calendar years after RA. Notably, youth with disabilities can receive pre-employment transition services from a VR agency without submitting a VR application, in which case they would not be counted as having applied for services if these were the only VR services used.
- Youth used any VR services after RA (RSA data). This binary measure indicates whether the youth had a signed an individual plan for employment (IPE) in the five calendar years after RA.

c. Youth's self-determination and expectations

We measured the outcomes in this domain at the time of the youth five-year survey. The primary outcomes (and their data sources) in the youth self-determination and expectations domain include the following:

- Youth's self-determination score (youth five-year survey). This composite score (values of 0 to 100) is based on the youth's responses to 26 questions designed to capture the extent to which the youth acted autonomously, initiated and responded to events in a psychologically empowered manner, and acted in a self-realizing manner, and their actions were defined by self-direction and pathways thinking. We rescaled the autonomy score to a 0 to 100 scale before aggregating the three domains into the composite youth's self-determination score. We based the questions on the ARC Self-Determination Scale (Wehmeyer 1996). To receive a score, the youth had to answer at least five of the seven questions on autonomy, four of the six questions on self-realization. A higher score indicates greater self-determination.
- Youth expected to be financially independent at age 25 (youth five-year survey). This binary measure indicates whether the youth responded that they probably or definitely expected to support themselves without help from family or government benefit programs at the age of 25.

- Youth's autonomy score (0 to 300 scale) (youth five-year survey). This composite score is based on the youth's response to seven questions designed to capture the extent to which the youth acted autonomously at the time of the survey. We based the questions on the ARC Self-Determination Scale (Wehmeyer 1996). The youth had to answer at least five of the seven questions to receive a score. A higher score indicates greater autonomy.
- Youth's psychological empowerment score (0 to 100 scale) (youth five-year survey). This composite score reflects the average of the youth's responses to six questions designed to capture the extent to which the youth initiated and responded to events in a psychologically empowered manner at the time of the survey. We based the questions on the ARC Self-Determination Scale (Wehmeyer 1996). The youth had to answer at least four of the six questions to receive a score. A higher score indicates greater psychological empowerment.
- Youth's self-realization score (0 to 100 scale) (youth five-year survey). This composite score reflects the average of the youth's responses to seven questions designed to capture the extent to which the youth acted in a self-realizing manner at the time of the survey. We based the questions on the ARC Self-Determination scale (Wehmeyer 1996). The youth had to answer at least five of the seven questions to receive a score. A higher score indicates greater self-realization.
- Youth's agentic action (0 to 100 scale) (youth five-year survey). This composite score reflects the average of the youth's responses to six questions designed to capture the extent to which the youth's actions were defined by self-direction and pathways thinking at the time of the survey. We based the questions on the Self-Determination Inventory: Student Report (Shogren et al. 2017). The youth had to answer at least four of the six questions to receive a score. A higher score indicates greater agentic action.

- Youth expected to get postsecondary education (youth five-year survey). This binary measure indicates whether the youth expected at the time of the survey that his or her highest level of schooling would be greater than a high school diploma, certification of completion, or GED.
- Youth expected to live independently at age 25 (youth five-year survey). This binary measure indicates whether the youth expected at the time of the survey to live independently (on his or her own or with a partner) at the age of 25.
- Youth expected to be employed at age 25 (youth five-year survey). This binary measure indicates whether at the time of the survey the youth responded that he or she probably or definitely expected to be employed in a paid job at the age of 25.
- **Parent expected youth to get postsecondary education (parent five-year survey).** This binary measure indicates whether the parent expected at the time of the survey that the youth would continue schooling beyond high school.
- **Parent expected youth to live independently at age 25 (parent five-year survey).** This binary measure indicates whether at the time of the survey the parent expected that the youth would live independently (on his or her own or with a partner) at the age of 25.
- **Parent expected youth to be financially independent at age 25 (parent five-year survey).** This binary measure indicates whether the parent responded that they probably or definitely expected at the time of the survey that the youth would be able to support herself or himself without help from family or government benefit programs at the age of 25.
- **Parent expected youth to be employed at age 25 (parent five-year survey).** This binary measure indicates whether the parent responded that they probably or definitely expected at the time of the survey that the youth would be employed in a paid job at the age of 25.
- **Parent believed it important that youth be employed eventually (parent five-year survey).** This binary measure indicates whether at the time of the survey the parent believed it to be very or somewhat important that the youth worked at a paid job after the youth finished his or her schooling.
- d. Youth's health insurance coverage and expenditures

This domain includes multiple measures of youth's health insurance and Medicaid and Medicare expenditures at different points in time, derived from two sources: the youth five-year survey and CMS data. We calculated expenditures regardless of enrollment in Medicaid or Medicare; those who were not enrolled in Medicaid or Medicare are included in the sample and assigned a value of zero for expenditures for the program(s) in which they were not enrolled. The primary outcomes (and their data sources) in this domain include the following:

- Covered by any health insurance (youth five-year survey). This binary measure indicates whether the youth had any kind of health insurance at the time of the survey.
- Average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (CMS data). This continuous measure shows the youth's average monthly expenditures across both Medicaid or Medicare for the full five years after RA, as captured in Medicaid and Medicare claims data. We calculated average monthly expenditures by summing the total dollar amounts in claims during the five years after RA and then dividing by 60.

- Covered by private health insurance (youth five-year survey). This binary measure indicates whether the youth had private health insurance (through an employer or purchased on their own) at interview. If the youth was covered by any health insurance at the time of the survey but had missing information about whether the insurance was private, we conducted multiple imputation separately for each PROMISE program to fill in the missing information.
- Covered by private health insurance purchased through an Affordable Care Act (ACA) health exchange (youth five-year survey). This binary measure indicates whether the youth had private health insurance purchased through an ACA health exchange at interview. If the youth was covered by private health insurance at the time of the survey but had missing information about whether the insurance was purchased through an ACA health exchange, we conducted multiple imputation separately for each PROMISE program to fill in the missing information.
- Average monthly Medicaid and Medicare expenditures in each of Years 1–5 after RA (CMS data). These continuous measures show the youth's combined average monthly Medicaid and Medicare expenditures in each of five years after RA, as captured in Medicaid and Medicare claims data. We calculated average monthly expenditures by summing the total dollar amounts in claims across the 12 months after RA (and subsequent years) and then dividing by 12.
- Ever enrolled in Medicaid and Medicare in each of Years 1–5 after RA (CMS data). These binary measures indicate whether the youth was enrolled in Medicaid or Medicare in each of the five years after RA, as captured in Medicaid and Medicare enrollment files.
- Percentage of months enrolled in Medicaid and Medicare in the five years after RA (CMS data). These continuous measures indicate the share of all months in the five years after RA in which the youth was enrolled in either Medicaid or Medicare, as captured by Medicaid and Medicare enrollment files.
- Average monthly Medicaid expenditures in each of Years 1–5 after RA (CMS data). These continuous measures show the youth's average monthly Medicaid expenditures in each of the five years after RA, as captured in Medicaid claims data. We calculated average monthly expenditures by summing the total dollar amounts in claims across the 12 months after RA (and subsequent years) and then dividing by 12.
- Average monthly Medicaid expenditures in the five years after RA (CMS data). This continuous measure shows the youth's average monthly Medicaid expenditures in the five years after RA, as captured in Medicaid claims data. We calculated average monthly expenditures by summing the total dollar amounts in claims across the five years after RA and then dividing by 60.
- Ever enrolled in Medicaid in each of Years 1–5 after RA (CMS data). These binary measures indicate whether the youth was enrolled in Medicaid in each of the five years after RA, as captured in Medicaid enrollment files.
- Percentage of months enrolled in Medicaid in the five years after RA (CMS data). This continuous measure indicates the share of all months in the five years after RA in which the youth was enrolled in Medicaid, as captured in Medicaid enrollment files.
- Average monthly Medicare expenditures in each of Years 1–5 after RA (CMS data). These continuous measures show the youth's average monthly Medicare expenditures in each of the five years after RA, as captured in Medicare claims data. We calculated average monthly expenditures by summing the total dollar amounts in claims across the 12 months after RA (and subsequent years) and then dividing by 12.

- Average monthly Medicare expenditures in the five years after RA (CMS data). This continuous measure shows the youth's average monthly Medicare expenditures in the five years after RA, as captured in Medicare claims data. We calculated average monthly expenditures by summing the total dollar amounts in claims across the five years and then dividing by 60.
- Ever enrolled in Medicare in each of Years 1–5 after RA (CMS data). These binary measures indicate whether the youth was enrolled in Medicare in each year after RA, as captured in Medicare enrollment files.
- Percentage of months enrolled in Medicare in the five years after RA (CMS data). This continuous measure indicates the share of all months in the five years after RA in which the youth was enrolled in Medicare, as captured in Medicare enrollment files.
- e. Youth's SSA payments and knowledge of work supports

This domain includes multiple measures of youth's receipt of SSA payments and awareness of SSA policies and other work supports from two sources: the youth five-year survey and SSA data. The primary outcomes (and their data sources) in this domain include the following:

- Received SSA payments in Year 5 after RA (SSA data). This binary measure indicates whether youth received any SSA payments (SSI or OASDI) in the fifth year after RA.
- SSA payments in Year 5 after RA (SSA data). This continuous measure shows the amount of SSA payments (SSI and OASDI) that the youth received in the fifth year after RA.
- SSA payments in the five years after RA (SSA data). This continuous measure shows the total amount of SSA payments (SSI and OASDI) the youth received during the five years after RA.

- Received SSA payments in each of Years 1–4 after RA (SSA data). These binary measures indicate whether youth received any SSA payments (SSI or OASDI) in each of the first four years after RA. Year 5 is captured by the primary outcome measure listed above.
- SSA payment amounts in each of Years 1–4 after RA (SSA data). These continuous measures show the amount of SSA payments (SSI and OASDI) youth received in each of the first four years after RA. Year 5 is captured by the primary outcome measure listed above.
- Received SSI payments in each of Years 1–5 and all five years after RA (SSA data). These binary measures indicate whether youth received SSI payments in each of the five years, and at any point during the five years, after RA.
- SSI payment amounts in each of Years 1–5 and all five years after RA (SSA data). These continuous measures show the annual SSI payment amounts youth received in each of the five years after RA and the total amount for all five years.
- Received OASDI benefits in each of Years 1–5 and all five years after RA (SSA data). These binary measures indicate whether youth received OASDI benefits in each of the five years, and at any point during the five years, after RA.
- OASDI benefit amounts in each of Years 1–5 and all five years after RA (SSA data). These continuous measures show the annual OASDI benefit amounts youth received in each of the five years after RA and the total amount for all five years.

- Age-18 redetermination status (SSA data). This categorical measure indicates the youth's age-18 redetermination status at five years after RA. The status was one of the following: continue with benefits, cease the benefits, pending a decision, or the youth did not have an age-18 redetermination.
- Youth was aware that children receiving SSI are not automatically eligible for SSI as adults (youth five-year survey). This binary measure indicates whether at the time of the survey the youth correctly identified that the statement "Children receiving SSI are automatically eligible for SSI as adults" was false.
- Youth was aware that people receiving SSI can work for pay (youth five-year survey). This binary measure indicates whether at the time of the survey youth correctly identified that the statement "People who get SSI are not allowed to work at a job for pay" was false.
- Youth believed that people receiving SSI must report earnings to SSA (youth five-year survey). This binary measure indicates whether at the time of the survey the youth agreed with the statement "People who receive SSI benefits must report any money they get from working to SSA" was true.
- Youth was aware of the Student Earned Income Exclusion (youth five-year survey). This binary measure indicates whether the youth had heard of the Student Earned Income Exclusion before the survey. This exclusion is applicable to youth under age 22 who are in school when they are working. In 2018, such youth could earn up to \$1,820 per month or up to \$7,350 per year and have it excluded when SSA calculates the SSI payment.
- Youth was aware of the earned income exclusion (youth five-year survey). This binary measure indicates whether the youth had heard of the earned income exclusion before the survey. This exclusion means one-half of one's earnings over \$65 (plus any remaining amount of the \$20 general income exclusion) are not counted when SSA calculates the SSI payment.
- Youth was aware of the SSI Plan to Achieve Self-Support (PASS) (youth five-year survey). This binary measure indicates whether the youth had heard of PASS before the survey. PASS lets SSI recipients set aside money to be used to help them reach a work goal; the money set aside does not affect their SSI eligibility or payments.
- Youth was aware of the Achieving a Better Life Experience (ABLE) account (youth five-year survey). This binary measure indicates whether the youth had heard of the ABLE account before the survey.

f. Youth's economic and social well-being

This domain includes multiple measures of youth's economic and social well-being at different points in time, derived from two sources: the five-year surveys and SSA data. The primary outcomes (and their data sources) in the economic and social well-being domain include the following:

- Income in the past year (youth five-year survey and SSA data). This continuous measure shows the total income from youth's earnings and SSA payments in the year before the survey. We derived the youth's earnings from all paid jobs and the youth's SSA payments in the year before the survey from SSA data. If the youth held a paid job in the year before the survey but had missing earnings information, we conducted multiple imputation separately for each PROMISE program to fill in the missing information.
- Total income in the five calendar years after RA (SSA data). This continuous measure reflects the sum of the youth's earnings and SSA disability payments during the five calendar years after RA.

- Income in each of Years 1–5 after RA (SSA data). These continuous measures reflect the sum of the youth's earnings and SSA payments in each of the five calendar years after RA.
- Engaged in productive activities (youth five-year survey). This binary measure indicates whether the youth participated in the labor force or was enrolled in school or training at the time of the survey.
- Household income in the past year (youth and parent five-year surveys). This continuous measure is the total amount of household income from the following sources: TANF, Supplemental Nutrition Assistance Program (SNAP), government housing assistance, SSI and OASDI, retirement income, earnings, and all other sources. We derived this measure from either (1) the parent survey for youth who resided with a parent at the time of the survey or (2) the youth survey for youth who did not reside with a parent at the time of the survey.¹⁴ For each income source, the survey asked whether any member of the youth's household received income from that source in the past month; if the respondent reported yes, the survey asked for the amount received. If a respondent reported that the household received income from a certain source but did not report the amount, we used mean imputation (tailored to each PROMISE program) to fill in the missing information. For household earnings, if respondents refused or could not provide a continuous amount, they had the option to report the household earnings in categories. In such cases, we used the mid-point of each category to calculate monthly household income; the highest category was defined as \$6,500 or more, and we imputed \$7,000 in earnings for respondents who selected this category. We multiplied the household's income in the past month by 12 to estimate the annual household income.
- Household received TANF, SNAP, or housing assistance (youth and parent five-year surveys). This binary measure indicates whether any member of the youth's household participated in TANF, SNAP, or government housing assistance at the time of the survey. Although this binary measure asks about participation in these programs at the time of the survey, the measures of the amounts received refer to the past month. We derived this measure from the parent survey for youth who resided with a parent at the time of the survey and from the youth survey for independent youth.
- Total TANF benefits the household received in the past month (youth and parent five-year surveys). This continuous measure is the amount of TANF benefits the household received in the past month. We derived this measure from the parent survey for youth who resided with a parent at the time of the survey and from the youth survey for independent youth. If an independent youth or parent reported receiving TANF but had missing information about the amount of support received, we used mean imputation at the program level to fill in the missing information.
- Total SNAP benefits the household received in the past month (youth and parent five-year surveys). This continuous measure is the amount of SNAP benefits the household received in the past month. We derived this measure from either the parent survey for youth who resided with a parent at the time of the survey or from the youth survey for independent youth. If an independent youth or parent reported receiving SNAP but had missing information about the benefit amounts received, we used mean imputation at the program level to fill in the missing information.
- Total housing assistance amount the household received in the past month (youth and parent five-year surveys). This continuous measure is the amount of housing assistance the household received in the past month. We derived this measure from either (1) the parent survey for youth who resided with a parent at the time of the survey or (2) the youth survey for youth who did not reside

¹⁴ Most youth survey respondents (78 percent) resided with a parent at the time of the survey.

with a parent at the time of the survey. If an independent youth or parent reported receiving housing assistance but had missing information about the amount of assistance received, we used mean imputation at the program level to fill in the missing information.

- Lived independently (youth five-year survey). This binary measure indicates whether the youth lived independently at the time of the survey (that is, youth did not reside with a parent or guardian or in another setting, such as a group home, institution, or boarding school).
- Married or in a marriage-like relationship (youth five-year survey). This binary measure indicates whether the youth was married, engaged, or in a marriage-like relationship at the time of the survey.
- **Responsible for a child or children (youth five-year survey).** This binary measure indicates whether the youth was responsible for biological, adopted, foster, or any other children at the time of the survey.
- Ever been arrested (youth five-year survey). This binary measure indicates whether the youth had ever been arrested or been taken into custody for a crime or illegal offense. The measure is based on a survey question that did not specify a time period, so the measure is not restricted to the period after RA.
- Number of arrests (youth five-year survey). This continuous measure indicates the total number of times the youth had ever been arrested. If the youth was ever arrested but had missing information about the number of arrests, we conducted multiple imputation separately for each PROMISE program to fill in the missing information. The measure is based on a survey question that did not specify a time period, so the measure is not restricted to the period after RA.
- Arrested in the past year (youth five-year survey). This binary measure indicates whether the youth had been arrested in the year before the survey.
- Ever incarcerated (youth five-year survey). This binary measure indicates whether the youth had ever served time in a juvenile or adult prison, jail, or other correctional facility. The measure is based on a survey question that did not specify a time period, so the measure is not restricted to the period after RA.
- Number of days of incarceration (youth five-year survey). This continuous measure indicates the total number of days the youth had been incarcerated. If the youth was ever incarcerated at the time of the survey but had missing information about the number of days of incarceration, we conducted multiple imputation separately for each PROMISE program to fill in the missing information. The measure is based on a survey question that did not specify a time period, so the measure is not restricted to the period after RA.
- Health status (youth five-year survey). This categorical measure indicates whether the youth reported his or her health at the time of the survey to be poor, fair, good, very good, or excellent.
- Received supports or services for getting accommodations for school, work, or living independently in the past year (youth five-year survey). This binary measure indicates whether the youth received any supports or services from someone not part of their family in getting accommodations for school, work, or living independently in the year before the survey.

2. Parent outcomes

We assessed parents' outcomes in the following domains: employment and earnings, health insurance coverage and expenditures, SSA payments, and economic well-being. Below, for each domain, we describe the outcome measures that we examined. Note that the definition of a parent can vary across outcomes depending on the underlying data source (see Section A).

a. Employment and earnings

This domain includes multiple measures of parents' employment and earnings at different points in time, derived from two sources: five-year parent survey and SSA data. The primary outcomes (and their data sources) in this domain include the following:

- Either parent worked for pay in the past year (parent five-year survey). This binary measure indicates whether either the parent (or the parent's spouse if the parent reported having a spouse) held a paid job in the year before the survey.
- **Parents' earnings in the past year (parent five-year survey).** This continuous measure reflects the total earnings of the parent and the parent's spouse from all paid jobs in the year before the survey. If either parent held a paid job in the year before the survey but had missing earnings information, we conducted multiple imputation separately for each PROMISE program to fill in the missing information.
- **Parents' earnings during the five calendar years after RA (SSA data).** This continuous measure reflects the total earnings of the parent and the parent's spouse during the five calendar years after RA.

- **Highest educational attainment achieved by either parent (parent five-year survey).** This categorical measure indicates the highest educational attainment that either the parent or the parent's spouse had attained at the time of the survey, according to the following categories: not a high school graduate; high school diploma or GED; some postsecondary education or more; or other or do not know.
- Number of parents who worked for pay in the past year (parent five-year survey). This continuous measure indicates whether zero, one, or two parents held a paid job in the year before the survey.
- Number of weeks worked in the past year (parent five-year survey). This continuous measure shows the total number of weeks that the parent and the parent's spouse worked in the past year across all paid jobs held at the time of the survey. If either parent held a paid job at the time of the survey but had missing information about the number of weeks worked, we conducted multiple imputation separately for each PROMISE program to fill in the missing information. We then added the hours across the two parents to construct the measure. Accordingly, this measure ranges from 0 to 104.
- Weekly hours worked in the past year (parent five-year survey). This continuous measure shows the average hours worked per week by the parent and the parent's spouse in the past year. If survey respondents did not report the number of hours that a parent or spouse worked, they could report the number in ranges. We used the mid-point at each range to calculate weekly hours worked by the parent or spouse. The top category was defined as "more than 35 hours per week," which we top-

coded at 40 hours. If either the parent or their spouse had been employed in the past year but had missing hours information, we conducted multiple imputation separately for each PROMISE program to fill in the missing information. We then added the hours across the two parents to construct the outcome measure. Accordingly, this measure ranges from 0 to 136.

- Either parent was offered fringe benefits through a job in the past year (parent five-year survey). This binary measure indicates whether either parent had a paid job that offered health insurance, paid vacation or sick leave, or any kind of pension or retirement plan fringe benefits in the year before the survey. If either parent held a paid job in the year before the survey but had missing information about fringe benefits, we conducted multiple imputation separately for each PROMISE program to fill in the missing information.
- Either parent was in the labor force at the time of the survey (parent five-year survey). This binary measure indicates whether either parent held a paid or unpaid job or was looking for work at the time of the survey. If either parent wanted a job but had missing information about whether he or she was looking for a job at the time of the survey, we conducted multiple imputation separately for each PROMISE program to fill in the missing information.
- Either parent was working for pay at the time of the survey (parent five-year survey). This binary measure indicates whether either parent held a paid job at the time of the survey.
- **Parents' employment in each of Years 1–5 after RA (SSA data).** This binary measure indicates whether a parent had any earnings in each of the five calendar years after RA.
- **Parents' employment during the five calendar years after RA (SSA data).** This binary measure indicates whether a parent had earnings in any of the five calendar years after RA.
- **Parents' earnings in each of Years 1–5 after RA (SSA data).** This continuous measure shows the parent's and the spouse's earnings in each of the five calendar years after RA.

b. SSA payments

This domain includes multiple measures of parents' receipt of SSA payments at various points in time, measured using SSA data. The primary outcomes (and their data sources) in this domain include the following:

- Received SSA payments in Year 5 after RA (SSA data). This binary measure indicates whether a parent received SSA payments (SSI or OASDI) in the fifth year after RA.
- SSA payments in Year 5 after RA (SSA data). This continuous measure shows the amount of SSA payments (SSI and OASDI) parents received in the fifth year after RA.
- SSA payments in the five years after RA (SSA data). This continuous measure shows the total amount of SSA payments (SSI and OASDI) parents received during the five years after RA.

- Received SSA payments in each of Years 1–4 after RA (SSA data). These binary measures indicate whether a parent received SSA payments (SSI or OASDI) in each of the first four years after RA. Year 5 is captured by the primary outcome measure listed above.
- SSA payments in each of Years 1–4 after RA (SSA data). These continuous measures show the amount of SSA payments (SSI and OASDI) that parents received in each of the first four years after RA. Year 5 is captured by the primary outcome measure listed above.

- Received SSI payments in each of Years 1–5 and all five years after RA (SSA data). These binary measures indicate whether a parent received SSI payments in each of the five years after RA and at any point during those five years.
- SSI payment amounts in each of Years 1–5 and all five years after RA (SSA data). These continuous measures show the annual SSI payment amounts parents received in each of the five years after RA and the total amount for all five years.
- Received OASDI benefits in each of Years 1–5 and all five years after RA (SSA data). These binary measures indicate whether a parent received OASDI benefits in each of the five years after RA and at any point during those five years.
- OASDI benefit amounts in each of Years 1–5 and all five years after RA (SSA data). These continuous measures show the annual OASDI benefit amounts parents received in each of the five years after RA and the total amount for all five years.
- c. Health insurance coverage and expenditures

This domain includes multiple measures of parents' health insurance and Medicaid and Medicare expenditures at different points in time, derived from two sources: the parent five-year survey and CMS data. We calculated expenditures regardless of enrollment in Medicaid or Medicare; those who were not enrolled in Medicaid or Medicare are included in the sample and assigned a value of zero for expenditures for the program(s) in which they were not enrolled. The primary outcomes (and their data sources) in this domain include the following:

- Either parent was covered by health insurance (parent five-year survey). This binary measure indicates whether a parent had any kind of health insurance at the time of the survey.
- Average monthly Medicaid and Medicare expenditures in the five years after RA (CMS data). This continuous measure shows parents' average monthly expenditures across both Medicaid or Medicare for the full five years after RA, as captured in Medicaid and Medicare claims data. We calculated average monthly expenditures by summing parents' total dollar amounts in claims during the five years after RA and then dividing by 60.

- Covered by private health insurance (parent five-year survey). This binary measure indicates whether a parent had private health insurance (through an employer or purchased on their own) at interview. If the parent was covered by any health insurance at the time of the survey but had missing information about whether the insurance was private, we conducted multiple imputation separately for each PROMISE program to fill in the missing information.
- Average monthly Medicaid and Medicare expenditures in each of Years 1–5 after RA (CMS data). These continuous measures show the parents' average monthly Medicaid and Medicare expenditures in each of five years after RA, as captured in Medicaid and Medicare claims data. We calculated average monthly expenditures by summing parents' total dollar amounts in claims across the 12 months after RA (and subsequent years) and then dividing by 12.
- Ever enrolled in Medicaid and Medicare in each of Years 1–5 after RA (CMS data). These binary measures indicate whether a parent was enrolled in Medicaid or Medicare in each of the five years after RA, as captured in Medicaid and Medicare enrollment files.

- Percentage of months enrolled in Medicaid and Medicare in the five years after RA (CMS data). These continuous measures indicate the share of all months in the five years after RA in which a parent was enrolled in either Medicaid or Medicare, as captured by Medicaid and Medicare enrollment files.
- Average monthly Medicaid expenditures in each of Years 1–5 after RA (CMS data). These continuous measures show the parents' average monthly Medicaid expenditures in each of the five years after RA, as captured in Medicaid claims data. We calculated average monthly expenditures by summing parents' total dollar amounts in claims across the 12 months after RA (and subsequent years) and then dividing by 12.
- Average monthly Medicaid expenditures in the five years after RA (CMS data). This continuous measure shows the parents' average monthly Medicaid expenditures in the five years after RA, as captured in Medicaid claims data. We calculated average monthly expenditures by summing parents' total dollar amounts in claims across the five years after RA and then dividing by 60.
- Ever enrolled in Medicaid in each of Years 1–5 after RA (CMS data). These binary measures indicate whether a parent was enrolled in Medicaid in each of the five years after RA, as captured in Medicaid enrollment files.
- Percentage of months enrolled in Medicaid in the five years after RA (CMS data). This continuous measure indicates the share of all months in the five years after RA in which a parent was enrolled in Medicaid, as captured in Medicaid enrollment files.
- Average monthly Medicare expenditures in each of Years 1–5 after RA (CMS data). These continuous measures show the parents' average monthly Medicare expenditures in each of the five years after RA, as captured in Medicare claims data. We calculated average monthly expenditures by summing parents' total dollar amounts in claims across the 12 months after RA (and subsequent years) and then dividing by 12.
- Average monthly Medicare expenditures in the five years after RA (CMS data). This continuous measure shows parents' average monthly Medicare expenditures for the full five years after RA, as captured in Medicaid and Medicare claims data. We calculated average monthly expenditures by summing parents' total dollar amounts in claims during the five years after RA and then dividing by 60.
- Ever enrolled in Medicare in each of Years 1–5 after RA (CMS data). These binary measures indicate whether a parent was enrolled in Medicare in each year after RA, as captured in Medicare enrollment files.
- Percentage of months enrolled in Medicare in the five years after RA (CMS data). This continuous measure indicates the share of all months in the five years after RA in which parents were enrolled in Medicare, as captured in Medicare enrollment files.

d. Economic well-being

This domain includes multiple measures of parents' economic well-being at different points in time, derived from two sources: the parent five-year survey and SSA data. The primary outcomes (and their data sources) in this domain include the following:

- Income from earnings and SSA payments in the past year (parent five-year survey and SSA data). This continuous measure shows the total income from the parent's and spouse's earnings and SSA payments in the year before the survey. If either parent held a paid job in the year before the survey but had missing earnings information, we conducted multiple imputation separately for each PROMISE program to fill in the missing information.
- Total income during the five calendar years after RA (SSA data). This continuous measure reflects parents' total earnings and SSA payments during the five calendar years after RA.

- Income in each of Years 1–5 after RA (SSA data). These continuous measures reflect the sum of the parents' earnings and SSA payments in each of the five calendar years after RA.
- Household received TANF, SNAP, or housing assistance (parent five-year survey). This binary measure indicates whether a member of the household received TANF, SNAP, or government housing assistance. Although this binary measure asks about participation in these programs at the time of the survey, the measures containing the amount received in these programs refer specifically to the month of the survey.
- Household income in the past year (parent five-year survey). This continuous measure is the total household income from the following sources: TANF, SNAP, government housing assistance, SSI and OASDI, retirement income, earnings, and all other sources. For each income source, the survey asked whether any member of the youth's household received income from the source in the past month; if the respondent reported yes, the survey asked for the amount received. If a respondent reported that the household received income from a certain source but did not report the amount, we used mean imputation (tailored to each PROMISE program) to fill in the missing information. For household earnings, if respondents refused to answer or could not provide a continuous amount, they had the option to report the household earnings in categories. In such cases, we used the mid-point of each category to calculate monthly household income; the highest category was defined as \$6,500 or more, and we imputed \$7,000 in earnings for respondents who selected this category. We multiplied the household's income in the past month by 12 to estimate the annual household income.
- **TANF benefits the household received in the past month (youth and parent five-year surveys).** This continuous measure is the amount of TANF the household received in the past month. If a parent reported receiving TANF but had missing information about the amount received, we used mean imputation at the program level to fill in the missing information.
- SNAP benefits the household received in the past month (parent five-year surveys). This continuous measure is the amount of SNAP benefits the household received in the past month. If a parent reported receiving SNAP benefits but had missing data information about the benefit amounts received, we used mean imputation at the program level to fill in the missing information.
- Housing assistance amount the household received in the past month (parent five-year surveys). This continuous measure is the amount of housing assistance the household received in the past month. If a parent reported receiving housing assistance but had missing information about the amount of assistance received, we used mean imputation at the program level to fill in the missing information.

Appendix B. Analytic Methods

This appendix provides information about the methods used to estimate program impacts, benefits, and costs. Section A describes the impact analysis methods, and Section B describes the benefit-cost analysis methods.

A. Impact analysis methods

1. Estimation methods

As proposed in the PROMISE evaluation design report (Fraker et al. 2014), the PROMISE evaluation has examined each of the six PROMISE programs as an independent site. The rationale for this approach is that, even though all six PROMISE programs broadly followed the same program model, they varied substantially in their implementation of the model components. Consistent with this heterogeneity, the findings from the 18-month impact analysis showed variation across programs in the existence and magnitude of impacts at 18 months after youth and families enrolled in PROMISE (Patnaik et al. 2021). Assessing the programs separately enabled the evaluation to consider qualitatively how differences in implementation and enrollee populations might influence the outcomes of a core intervention and help identify lessons for future programs. As supplementary analyses, we also estimated impacts by pooling data across the six programs and illustrate the extent to which the programs' impacts differ significantly from each other.

We expected PROMISE enrollees in the treatment and control groups to be similar in their initial characteristics because of the experimental study design used to construct the two groups. RA, when implemented correctly, should result in research groups that are, on average, similar in their characteristics at the time they enrolled in the evaluation. As a result, by design, a simple comparison of mean values of outcomes between the treatment and control groups should provide an unbiased estimate of program impacts. As described in Appendices C–H, we compared the baseline characteristics of treatment and control group youth in each PROMISE program and found few differences. The results of these baseline balance tests indicate that RA was well executed in each PROMISE program. Accordingly, a simple comparison of the outcomes five years after enrollment would provide an unbiased estimate of the impacts, on average.

To improve the statistical precision of the impact estimates and account for chance differences in baseline characteristics between treatment and control group members, we computed regression-adjusted impact estimates by using multivariate regression models. In all tables showing results from the impact analyses, the means for the treatment group reflect regression-adjusted means. The approach we used to implement covariate adjustment was as follows:

- For all programs, we included a core set of covariates (Appendix Table B.1).
- For each program, we included additional covariates in the model (Appendix Table B.1) as follows:
 - If we found any statistically significant differences in baseline characteristics, we used that characteristic as a covariate in all regressions for the program.
 - When analyzing ASPIRE's impacts, we included covariates derived from the ASPIRE baseline survey and the intake form administered by the program staff.
 - For ASPIRE and CaPROMISE, all regressions included region fixed effects to account for the fact that we used stratified RA at these sites.

| | 1. Covariates used in regression-adjusted analyses of impacts | | | | | |
|------------------|--|--|--|--|--|--|
| Program | Control variables | | | | | |
| All programs | Youth age (categories; age 16 is the omitted category) | | | | | |
| | Whether youth was female | | | | | |
| | • Youth race and ethnicity (categories; non-Hispanic White is the omitted category) | | | | | |
| | • Youth primary impairment (categories; physical disability is the omitted category) | | | | | |
| | Youth duration of SSI payments at RA | | | | | |
| | Youth total disability payment amount in the 12 months before the month of RA | | | | | |
| | Whether youth household has multiple SSI-eligible children | | | | | |
| | • Parent SSA payment status at RA (categories; no parent received SSA payments is the omitted category) | | | | | |
| | • For youth employment outcomes derived from SSA data: whether youth had any earnings in the year before RA | | | | | |
| | • For parent employment outcomes derived from SSA data: parents' earnings in the year before RA | | | | | |
| | • For Medicaid and Medicare expenditure outcomes derived from CMS data: average monthly Medicaid and Medicare expenditures in the year before RA | | | | | |
| Arkansas PROMISE | Whether youth had SSI payment in the month of RA | | | | | |
| | • Number of parents used in SSA data analysis (categories; none is the omitted category) | | | | | |
| ASPIRE | Youth's living arrangements at RA (categories; living with parents is the omitted category | | | | | |
| | Whether youth had OASDI benefits in the month of RA | | | | | |
| | Whether youth worked or volunteered at baseline | | | | | |
| | Whether youth talked with parent/teacher/caseworker about postsecondary education at RA | | | | | |
| | • Whether youth talked with parent/teacher/caseworker about post-school employment at RA | | | | | |
| | Whether parent expected youth to be employed in the future at RA | | | | | |
| | Whether youth had difficulty with at least one activity of daily living at RA | | | | | |
| | Whether youth had difficulty with at least one instrumental activity of daily living at RA | | | | | |
| | Parent's self-assessment of financial knowledge at RA | | | | | |
| | Region fixed effects | | | | | |
| CaPROMISE | Whether youth had SSI payment in the month of RA | | | | | |
| | Whether youth had OASDI benefits in the month of RA | | | | | |
| | Youth age at most recent SSI application | | | | | |
| | Youth SSI payment amount in the 12 months before the month of RA | | | | | |
| | Youth OASDI benefit amount in the 12 months before the month of RA | | | | | |
| | Region fixed effects | | | | | |
| | | | | | | |
| | • For all outcomes except those derived from CMS data: whether parent was employed in the year before RA | | | | | |
| MD PROMISE | Youth SSI payment amount in the 12 months before the month of RA | | | | | |
| | • Number of parents included in the administrative data (categories; "none" is the omitted category | | | | | |

Appendix Table B.1. Covariates used in regression-adjusted analyses of impacts

| Program | Control variables | | | | | | |
|--|---|--|--|--|--|--|--|
| NYS PROMISE | • Youth's living arrangements at the time of RA (categories; "living with parents" is the omitted category) | | | | | | |
| | Youth age at most recent SSI application | | | | | | |
| Youth OASDI benefit amount in the 12 months before the month of RA | | | | | | | |
| | • Number of parents used in SSA data analysis (categories; none is the omitted category) | | | | | | |
| WI PROMISE | Parent race and ethnicity (categories; "non-Hispanic White" is the omitted category) | | | | | | |
| All programs (pooled) | Whether youth had SSI benefits in the month of RA | | | | | | |

OASDI = Old-Age, Survivors, and Disability Insurance Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income.

To estimate impacts, we estimated a regression model of the following form:

$$Y_i = \alpha + \beta Treatment_i + \lambda X_i + \epsilon_i$$

where *i* denotes the individual observation, *Treatment_i* denotes the indicator for assignment to the treatment group, X_i denotes the vector of covariates, and \in_i denotes the error term. The coefficient β denotes the parameter of primary interest because it is the estimate of the program impact. We estimated this model using linear regression methods.

We addressed the possibility of heteroskedasticity of unknown form by using the method proposed by White (1980) to produce heteroskedasticity-consistent standard errors.¹⁵ Because the ASPIRE program covered a region comprising multiple states, the models for that program accounted for the fact that outcomes for individuals in the same state might be correlated, whereas outcomes for individuals in different states were assumed to be uncorrelated.

We used Stata's "svy" commands, which were designed to fit statistical models for complex survey data. When examining survey-based outcomes, we specified probability weights in the form of either the parent or youth analysis weight, depending on the source of the outcome data (see Appendix A for more information about survey weights). When examining administrative outcomes, we did not use analysis weights. For an examination of survey-based outcomes for the CaPROMISE program, we specified that the survey sampling had been stratified by local educational agency. For survey-based outcomes constructed using multiple imputation (see Appendix A), we used Stata's "mi" commands combined with the appropriate "svy" commands to estimate impacts.

We used two-sided *t*-tests and a *p*-value threshold of .10 to determine whether an estimated program impact was statistically different from zero. To calculate effect sizes for continuous outcome measures, we reported the standardized mean difference, known as Hedges' g, estimated by dividing the estimated impact by the pooled standard deviation of the outcome measure. For binary outcome measures, we calculated effect sizes by dividing the log odds ratio by 1.65, thus providing a statistic that reflected the difference in the probability of the occurrence of an event between the two groups (Cox 1970).

¹⁵ Heteroskedasticity refers to the circumstance in which the variability of an outcome is unequal across a range of values of a control variable used in the regression model.

2. Sensitivity analyses

In Appendix Tables C.18–I.18, we present results that helped us assess the sensitivity of the estimated impacts on primary outcomes to methodological choices we incorporated in the main impact estimates. For each outcome, we estimated alternative models that do not (1) use the survey weights, (2) include covariate adjustment, and (3) use imputed data for outcomes that underwent multiple imputation. The alternative models produced broadly similar results, suggesting that the main model's estimates of program impacts were not sensitive to the choice of estimation method.

As described in Appendix A, administrative data were available for all youth and most parents, but survey data were not available for all enrollees due to survey sampling and nonresponse. To assess the extent to which the lack of survey data for some enrollees would influence our estimates of program impacts, we compared how the estimated impacts on primary outcomes varied when nonrespondents were included and excluded from analyses of the administrative data (Appendix Tables C.19–I.19). We examined administrative data and estimated impacts that included those who did not respond to the survey and then compared these estimates to those obtained by limiting the sample to survey respondents only and applying the analysis weights. We conducted statistical tests to assess whether the impacts estimated with each sample differed significantly from one another. The findings suggest that use of the analysis weights minimized the potential for nonresponse bias because the estimated impacts for the survey respondent sample were comparable to those for the full research sample. Across the six PROMISE programs, impact estimates for the two samples were not statistically different from each other for any primary outcome derived from administrative data.

3. Subgroup impacts

To understand whether the impacts of PROMISE differed by enrollee characteristics, we estimated the five-year impacts for key subgroups of evaluation enrollees. To minimize the risk of drawing spurious conclusions due to multiple comparisons, we estimated subgroup impacts on the primary outcome measures only and restricted the number of subgroups examined. We selected the subgroups before beginning the analyses and identified them based on their policy relevance and the proportion of the samples with the given characteristic. We required each subgroup to represent about 25 percent or more of the analysis sample to ensure adequate statistical power to detect impacts large enough to be meaningful.¹⁶

Using these criteria, we focused on subgroups defined by the following baseline characteristics of youth: sex (females and males); age (ages 14 and 15, and age 16); primary impairment (intellectual or developmental disabilities, other mental impairments, and other disabilities); whether a youth's parent received SSA payments at the time of RA (yes or no); and whether the survey respondent completed the five-year survey before or after the onset of the COVID-19 pandemic. For ASPIRE, we also analyzed three state subgroups: Arizona, Colorado, and the remaining four states in the consortium (Montana, North Dakota, South Dakota, and Utah).

We adapted the main impact model (described in Appendix B) to conduct the subgroup analyses. We created an indicator variable for each subgroup. We estimated multivariate regression models that included an indicator for each of the relevant subgroups and the interaction between the subgroup

¹⁶ In the PROMISE evaluation design report, we estimated that 25 percent survey samples would provide enough statistical power to detect an impact of 11 percentage points or larger on the likelihood of being employed during the year after RA (Fraker et al. 2014).

indicators and the treatment indicator. For example, to analyze program impacts for two comparison subgroups, we estimated the model as follows:

 $Y_{i} = \beta_{1} Treatment_{i} * Subgroup1_{i} + \beta_{2} Treatment_{i} * Subgroup2_{i} + \beta_{3} Subgroup1_{i} + \beta_{4} Subgroup2_{i} + \lambda X_{i} + \epsilon_{i},$

where Y_i denotes the individual observation, $Subgroup1_i$ and $Subgroup2_i$ denote the indicators for each of the comparison subgroups, $Treatment_i$ denotes the indicator for assignment to the treatment group, X_i denotes the vector of covariates, and \in_i denotes the error term. β_1 and β_2 are the parameters of primary interest because they denote the estimated program impact for each of the respective subgroups. We used two-sided *t*-tests to determine whether the estimated impact on each subgroup was significantly different from zero. We tested whether the estimated program impacts on the subgroups were significantly different from each other using adjusted Wald tests.

Appendix Tables C.20–I.20, C.21–I.21, C.22–I.22, C.23–I.23, C.24–I.24, C.25–I.25, and D.26 present the subgroup impact estimates. Because we are interested in understanding the heterogeneity of program impacts, we focused on assessing statistically significant differences in a program's impacts across subgroups, rather than the program's impacts for each subgroup. We discuss findings of statistically significant variation in the subgroup impacts in Chapters III through IX of the five-year impact evaluation report.

B. Benefit-cost analysis methods

An important component of the PROMISE evaluation is the assessment of the benefits of the intervention relative to its direct and indirect costs. Benefits are defined as quantifiable monetary gains that result from PROMISE services that we were able to measure over the five-year study period, such as additional earnings for PROMISE youth and families due to increased employment. Note that we do not include the benefits or costs for outcomes that are difficult to monetize, such as having health insurance coverage, and youth self-determination; however, the impact estimates on these outcomes are small (less than 2.5 percent of the control group mean) and typically are not statistically different from zero. Nonetheless, readers may impute their own expected costs to these outcomes. Direct costs are the costs of implementing each program. Indirect costs refer to additional costs beyond the program's direct costs that may have been incurred in other areas as a result of PROMISE's effects—for example, the cost of increased education (for example, tuition costs) for PROMISE youth and families (if PROMISE increased the amount of education that youth received). For each PROMISE program, we calculated the program's net monetized benefit—the benefits net of program costs and indirect costs—per treatment group family.

In this appendix, we describe how we calculated each of the benefit and cost measures used in the benefitcost analyses. We also report the findings of sensitivity analyses we conducted to assess how the net benefit estimates changed in response to different assumptions. Finally, we describe the methods used to generate 10- and 20-year forecasts of each program's net benefit.

1. Accounting framework

We developed an accounting framework incorporating four perspectives to guide the benefit-cost data collection, analysis, and reporting: (1) the youth and families eligible for PROMISE services; (2) the federal government (separated into SSA, ED, and all other federal agencies); (3) state and local government, including PROMISE partners; and (4) all stakeholders combined (defined as the sum of the

previous three groups). We add up the costs and benefits per family; to be consistent with the impact analysis, the sample includes all treatment and control group members, regardless of whether they actually received services.

Appendix Table B.2 lists the monetary outcomes incorporated into the benefit-cost estimates as rows and each of the four perspectives as columns. Some program impacts may have been a benefit to some stakeholders but a cost to others. For each outcome, the table indicates whether an increase in the outcome would have represented a benefit (+ sign) or a cost (- sign) for the respective stakeholder. For example, an increase in SSI benefits would have represented a benefit to PROMISE youth and families (denoted by + in Column B) and a cost to SSA (denoted by - in Column C). A value of 0 indicates that an increase in the outcome would not have affected the stakeholder represented in the column label. For example, increased beneficiary earnings would have represented neither a cost nor a benefit to SSA and did not enter into the equation for calculating net benefits from SSA's perspective. Also, while some costs (such as public income support) are transfers from the government to beneficiaries, others (such as the costs of administering a public program) are strictly captured as a cost; therefore, we include separate components for benefit payments and administrative costs. The four accounting perspectives and the benefit and cost components reflected in each are described below.

PROMISE youth and their parents. Youth and parents who engaged in program services were expected to accrue benefits from increased earnings. However, youth and parents also might have borne some costs as a result of PROMISE's impacts—for example, increased commuting expenses and increased taxes associated with employment. Additionally, their SSA benefits and public assistance might decline if PROMISE increased earnings. Assessing benefits and costs from this perspective allowed us to address whether participating in PROMISE was a good investment for those the programs intended to help directly.

The federal government. SSA, ED, and federal agencies not directly involved in PROMISE could have accrued benefits and costs as a result of PROMISE. SSA would have benefited from PROMISE if the program reduced SSA payments to beneficiaries, whereas any increase in SSA payments would have represented a cost borne by SSA. ED funded the states, who ultimately implemented the PROMISE programs. We assign the cost of the programs to ED because the federal government was the ultimate source of the funds. Other federal agencies also could have incurred costs if PROMISE increased other public program expenditures, such as for TANF, SNAP, Medicare, and Medicaid. The reverse is also true; a reduction in families' reliance on public supports would have represented a benefit to federal agencies. Federal agencies also could have benefited from PROMISE if the program had increased earnings and thereby increased payroll and income tax revenue.

State and local government, including PROMISE partners. PROMISE also could have affected state and local government entities. If PROMISE increased earnings, state and local governments would have experienced benefits via higher state income and sales tax revenues. In addition, if PROMISE reduced Medicaid expenditures, TANF expenditures,¹⁷ or incarceration rates, these entities also would have benefited. Finally, states incurred the costs of additional VR use resulting from the PROMISE programs, and some states donated goods and services to the program. States also may have incurred unmeasured costs for changing their systems due to PROMISE, which are not captured here.

¹⁷ PROMISE may also have affected state supplemental SSI payments. We do not have state supplemental payment information for PROMISE enrollees and so were unable to account for this in the benefit cost analysis.

All key stakeholders. To assess the benefits and costs of PROMISE from the perspective of all key stakeholders, we summed benefits and costs across the three groups above (youth and families, the federal government, and state and local partners).

| | | Fe | deral govern | ment | State and local | | |
|---|---|------------|--------------|---|--|--|--|
| Outcome | PROMISE youth and families (B) | SSA (C) | ED (D) | Federal government as a whole ^a (E) | governments, including PROMISE partners (F) | All key stakeholders (G = B + E + F) | |
| Youth outcomes | | | | | | | |
| Earnings | + | 0 | 0 | 0 | 0 | + | |
| Fringe benefits | + | 0 | 0 | 0 | 0 | + | |
| Income taxes | - | 0 | 0 | + | + | 0 | |
| Payroll taxes | - | + | 0 | + | 0 | 0 | |
| Sales taxes | - | 0 | 0 | 0 | + | 0 | |
| Work-related and child care costs | - | 0 | 0 | 0 | 0 | - | |
| SSI benefits | + | - | 0 | - | 0 | 0 | |
| OASDI benefits | + | - | 0 | - | 0 | 0 | |
| SSI administrative costs | 0 | - | 0 | - | 0 | - | |
| OASDI administrative costs | 0 | - | 0 | - | 0 | - | |
| Medicaid expenditures | + | 0 | 0 | - | - | 0 | |
| Medicare expenditures | + | 0 | 0 | - | 0 | 0 | |
| Medicaid administrative costs | 0 | 0 | 0 | - | - | - | |
| Medicare administrative costs | 0 | 0 | 0 | - | 0 | - | |
| Education-related costs (such as tuition) | - | 0 | 0 | 0 | 0 | - | |
| Incarceration | 0 | 0 | 0 | 0 | - | - | |
| Parent outcomes | | | | | | | |
| Earnings | + | 0 | 0 | 0 | 0 | + | |
| Fringe benefits | + | 0 | 0 | 0 | 0 | + | |
| Income taxes | - | 0 | 0 | + | + | 0 | |
| Payroll taxes | - | + | 0 | + | 0 | 0 | |
| Sales taxes | - | 0 | 0 | 0 | + | 0 | |
| Work-related and child care costs | - | 0 | 0 | 0 | 0 | - | |

Appendix Table B.2. PROMISE's monetary benefits and indirect cost components, by accounting perspective

| | | Federal government | | State and local | | |
|--|---|--------------------|-----------|---|--|--|
| Outcome | PROMISE youth and families (B) | SSA (C) | ED (D) | Federal government as a whole ^a (E) | governments, including PROMISE partners (F) | All key stakeholders (G = B + E + F) |
| SSI benefits | + | - | 0 | - | 0 | 0 |
| OASDI benefits | + | - | 0 | - | 0 | 0 |
| SSI administrative costs | 0 | - | 0 | - | 0 | - |
| OASDI administrative costs | 0 | - | 0 | - | 0 | - |
| Medicaid expenditures | + | 0 | 0 | - | - | 0 |
| Medicare expenditures | + | 0 | 0 | - | 0 | 0 |
| Medicaid administrative costs | 0 | 0 | 0 | - | - | - |
| Medicare administrative costs | 0 | 0 | 0 | - | 0 | - |
| Household outcomes | | | | | | |
| Other public benefits (such as TANF) | + | 0 | 0 | _ | 0 | 0 |
| Administrative costs for other public benefits | 0 | 0 | 0 | - | 0 | - |

Note: This table lists the benefit and indirect cost components used in the net-benefit calculation. Some impacts represented benefits for some stakeholders and costs for others. For each accounting perspective column, the + sign denotes that an increase in the outcome would have represented a benefit and the - sign denotes that an increase in the outcome would have represented a cost. A value of 0 indicates that an increase in the outcome would not have affected the stakeholder. For example, an increase in SSA administrative costs would not have affected PROMISE youth and families.

^a The perspective of the federal government as a whole incorporates the perspectives of SSA, ED, and other federal agencies that might experience benefits or costs because of PROMISE and so may not reflect the sum of columns C and D.

ED = U.S. Department of Education; OASDI = Old-Age, Survivors, and Disability Insurance; SSA = Social Security Administration; SSI = Supplemental Security Income; TANF = Temporary Assistance for Needy Families.

2. Estimation methods

The principal benefit-cost analyses relied on three key inputs: (1) data on PROMISE program costs, which estimate the economic cost to implement each program; (2) the estimated impacts of PROMISE on youth and family outcomes; and (3) estimates from published literature identifying benefits and cost components not captured in the impact analysis.

a. Estimating program costs

The previous impact evaluation report (Mamun et al. 2019a; 2019b) presented the costs of implementing each PROMISE program. To produce these estimates, we followed a seven-step analytic framework (Handwerger and Thornton 1988). We began by identifying the key components of each PROMISE program (Step 1) and gathered data on the costs of delivering these components, which we then categorized (Step 2). We assessed these costs for a 12-month steady-state accounting period (Step 3) and assigned dollar values to resources a program used for which no internal dollar-denominated value was available (Step 4). Using the information from Steps 1 through 4, we calculated the total cost of a PROMISE program during the accounting period (Step 5), as well as the costs associated with the key program components (Step 6). Finally, we combined the estimate of total program costs with data on the number of treatment group enrollees to calculate the cost per treatment group enrollee; as noted above, to keep be consistent with the impact analysis, we include all treatment group members regardless of whether they received PROMISE services. We used the total program cost from the 12-month steadystate period to calculate the average annual cost per treatment group family. We applied that average to the average duration of program participation (calculated as the average time from RA through the end of the program's service period) to compute the program's total cost per treatment group family. Appendix Table B.3 shows the average duration, in years, of treatment group enrollment.

Note that by design, the cost estimates reflect the average service intensity observed during the steadystate period on which the estimates were based. Youth and families might not have received services at that same intensity throughout the period of their enrollment in the program. Additionally, costs may have been larger or smaller at start-up and wind-down.

| Program | Treatment group N | Minimum | Maximum | Mean |
|------------------|----------------------|---------|---------|------|
| Arkansas PROMISE | 904 | 3.2 | 4.8 | 4.1 |
| ASPIRE | 978 | 3.1 | 4.7 | 3.8 |
| CaPROMISE | 1,548 | 3.2 | 4.9 | 4.0 |
| MD PROMISE | 936 | 2.6 | 4.5 | 3.4 |
| NYS PROMISE | 986 | 3.3 | 4.9 | 3.9 |
| WI PROMISE | 950 | 2.4 | 4.4 | 3.3 |

Appendix Table B.3. Minimum, maximum, and average length of enrollment per treatment group family (in years), by PROMISE program

ASPIRE = Achieving Success by Promoting Readiness for Education and Employment; CaPROMISE = California PROMISE; MD = Maryland; N = sample size; NYS = New York State; WI = Wisconsin.

b. Estimating benefits and indirect costs

We used the estimates of PROMISE's impacts on earnings, SSA payments, and relevant survey-based outcomes to obtain estimates of each program's benefits and indirect costs. We included all point estimates in the benefit-cost calculation even if they did not differ significantly from zero at conventional levels of statistical significance. Following guidance set by Boardman (2018), this approach allowed us to obtain a more accurate and complete accounting of a program's benefits by using the best evidence available on the size of its impact—the unbiased point estimates—even if they were imprecise.¹⁸ We used bootstrapping methods to construct the 95 percent confidence intervals on the net-benefit impact estimates.

The benefit-cost analyses had two general limitations. First, they considered only groups directly affected by PROMISE and did not measure benefits or costs incurred by third parties, such as the employers of beneficiaries. Second, the accounting framework included only those costs that could be easily monetized. For example, in some programs, PROMISE affected some non-monetary outcomes, like health insurance coverage and youth's self-determination and physical and mental well-being. Because the costs and benefits of these impacts are difficult to measure and monetize, we did not include them in the estimation of the net benefits of PROMISE. However, because the programs' impacts on these outcomes are typically small and not significantly different from zero, we do not expect that the monetary value of these impacts would substantially change the estimates of whether a program imposed a net cost or delivered a net benefit to stakeholders.¹⁹

Appendix Table B.4 summarizes the benefit and cost components included in the analyses, as well as notes for each data source, calculation method, and potential limitations of the measure.

¹⁸ In sensitivity analyses, we excluded nonsignificant impact estimates from the benefit-cost calculation, which illustrates the extent to which the nonsignificant impact estimates drive the overall net-benefit estimate.
¹⁹ Arkansas PROMISE is the only program that affected the share of youth and parents that had health insurance, decreasing these shares by about 6 and 3 percentage points, respectively. The literature finds that low-income individuals' willingness to pay for health insurance is less than half of their own expected health costs (Finkelstein et al. 2019). The monthly Medicaid and Medicare expenditures in the five years after RA in Arkansas is about \$624 among those insured. This implies that Arkansas enrollees covered by Medicaid or Medicare value health insurance at roughly \$312 per month. A 5.5 percentage-point decline in health insurance coverage would therefore imply an additional \$1,030 in PROMISE indirect costs to youth and their families over five years that we did not account for in the benefit-cost estimates.

| Measure | Value | Source and estimation method | Potential limitations |
|-------------------------|--|---|--|
| Earnings | Sum of Year 1 through Year 5 earnings impact estimates (based on MEF data) | From impact analyses | Using the estimates based on MEF data allows us to have earnings information for the full five-year follow-up period; however, these estimates exclude earnings not reported in the MEF, which for the PROMISE population would generally be in the informal sector, and therefore may underestimate earnings, as well as the benefits and indirect costs based on earnings. |
| Fringe benefits | 25.3 percent of the sum of Year 1 through Year 5 earnings impact estimates (based on MEF data) | We constructed a multiplier based on the percentage of compensation that employers spend on each type of fringe benefit for workers at the relevant level of the earnings distribution according to the BLS (2021a), which are available at the 10th, 50 th , and 90th percentile of earnings. To do so, we first compared the mean of enrollee wages to the distribution of national wages in the BLS national compensation survey to determine which percentile reported by BLS corresponded most closely to our sample mean and used that data to construct the multiplier. Both mean youth and parent wages approximated the 10th percentile of civilian wage earners nationally, so we used the percentage of wages that employers spend on fringe benefits for the 10th percentile of civilian wage earners. | Although our multiplier aligns with the earnings distributions of the PROMISE samples, the actual fringe benefits enrollees received might have differed depending on the specific situation of their employment. |
| Federal income taxes | Multiplier of effectively 0 percent applied to the sum of Year 1 through Year 5 earnings impact estimates (based on MEF data) | We used federal tax rates and standard deduction information from published IRS tax rules to estimate the tax rate paid for the average youth and parent in our sample (IRS 2019). Because 90 percent of PROMISE youth were unmarried (based on the PROMISE five-year survey), we assumed tax rates based on single filing status; for parents, we estimated a weighted average of the tax rate paid by married and single parents. This approach yielded an effective marginal federal tax rate of zero for both youth and parents. | We tailored tax rates to reflect the mean earnings and marital status of the PROMISE population. The multiplier does not capture individual-level circumstances (such as personal deductions) that might affect a beneficiary's tax liability. Because most public support is not taxable, we applied the multiplier to the earnings estimates rather than the income estimates. We do not account for tax credits (such as the Earned Income Tax Credit) in our analyses. |

Appendix Table B.4. Benefit and indirect cost measures, estimation, and potential limitations

| Measure | Value | Source and estimation method | Potential limitations |
|---|--|--|---|
| State income taxes | State-specific income tax rates applied to the sum of Year 1 through Year 5 earnings impact estimates (based on MEF data) | We applied state-specific tax rates and the standard deduction for single and married households separately (Vermeer and Loughead 2022). For ASPIRE, we took a weighted average of the state-specific tax rates based on the number of enrollees in the six states. We refined this estimate by considering married and single households separately to create a weighted average for the multiplier accordingly. This approach yielded a multiplier of zero for youth and a range of 0.25 percent in New York to 4.8 percent in Wisconsin for parents. | We applied a separate state-specific multiplier to each PROMISE program. Although we could not fully replicate the tax code, we tailored tax rates to reflect the mean income and marital status of the PROMISE population. Because most public support is not taxable, we applied the multiplier to the earnings estimates rather than the income estimates. |
| Payroll taxes | 15.9 percent of the sum of Year 1 through Year 5 earnings impact estimates (based on MEF data) | We constructed a 15.9 percent multiplier by adding 12.4 percent (employer plus employee share of Social Security tax) + 2.9 percent (employer plus employee share of Medicare tax) + 0.6 percent unemployment) (Center on Budget Policy Priorities 2020). We assumed all youth and parent earnings reported in administrative data were subject to payroll taxes. Although payroll taxes are split between the employer and employee, for the purpose of this analysis, we assumed the cost is borne by the employee because the tax incidence literature suggests that workers pay these costs through reduced wages (Hamermesh 1993). | We applied a multiplier consisting of standard payroll tax rates to the earnings estimate based on the MEF data, thus capturing those earnings that were likely subject to payroll taxes. Because both youth and parents in the PROMISE sample had low earnings on average, we assumed their earnings were not subject to the Social Security payroll cap that applies to annual earnings greater than a relatively high threshold (\$137,700 in 2020). |
| Sales taxes | State-specific sales tax rates applied to the sum of Year 1 through Year 5 earnings impact estimates (based on MEF data) | We applied sales tax multipliers specific to the PROMISE programs based on data published by the Sales Tax Institute (Cammenga 2021). For ASPIRE, we used a weighted average of the sales tax rates in the six states based on the number of enrollees in each state. State sales tax rates ranged from 2 to 3 percent. | Increased earnings resulted in youth and parents having to spend more on sales taxes. For both youth and parents, we assumed all extra earnings were spent (a reasonable assumption for low-income workers such as those in the PROMISE sample) and that 36 percent of increased spending was subject to sales tax, based on published information (Walczak 2019). |
| Work-related costs (other than child care) | 10.6 percent of the sum of Year 1 through Year 5 earnings impact estimates (based on MEF data) | We constructed a 10.6 percent multiplier by dividing average annual work-related expenses in 2015 based on SIPP data (Mohanty et al. 2017) by average earnings that same year according to BLS (2015). | We used a multiplier that assumed work- related expenses were a function of earnings. This approach would under- or overstate costs if work-related expenses differed as a percentage of earnings at different levels of the earnings distribution. |

| Measure | Value | Source and estimation method | Potential limitations |
|-------------------------------------|---|--|--|
| Work-related child care costs | Youth: 1.35 percent of the sum of Year 1 through Year 5 youth earnings impact estimates (based on MEF data) Parent: 6.7 percent of the sum of Year 1 through Year 5 parent earnings impact estimates (based on MEF data) | We estimated work-related expenses that resulted from the use of child-care services. For youth: We constructed a 1.26 percent multiplier by taking the product of 14 percent (based on SIPP data [reference year 2016] showing that 4 in 10 low-income families pay for child care and of these families, child- care expenditures represent 35 percent of their income [Malik 2019]), and 9 percent (the percentage of the PROMISE youth sample comprising a working mother with a child under age 6 in the household (based on the PROMISE five-year survey data). For parents: We assumed PROMISE households had similar child-care spending rates as their counterparts nationally, where a median of 6.7 percent of household income is spent on child care among households with a working mother (Knop and Mohanty 2018). | We used a multiplier based on data that aligned with the age distribution of the PROMISE population but might overstate child-care expenses to the extent that some PROMISE families incurring child-care costs did not have a working mother. On the other hand, child-care expenses may be understated if parents or youth needed child care for jobs not reported in administrative data. We applied the multiplier to earnings as a proxy for increased work hours (which in turn would lead to increased child-care needs). |
| SSI benefits | Sum of Year 1 through Year 5 SSI impact estimates | From impact analyses. | This measure should be accurate because it is based on administrative data from SSA. Note that this measure includes only federal SSI payments; we do not have data on state supplemental SSI payments. |
| OASDI benefits | Sum of Year 1 through Year 5 OASDI impact estimates | From impact analyses. | This measure should be accurate because it is based on administrative data from SSA. |
| SSI administrative costs | 7.8 percent of the sum of Year 1 through Year 5 SSI impact estimates | We used a 7.8 percent multiplier applied to SSI payments based on the percentage of SSI payments spent on administrative costs according to SSA's Office of the Chief Actuary (SSA Board of Trustees 2020a). | The multiplier assumes the average percentage of SSI payments spent on administrative costs applied to those in our sample. This assumption would not capture administrative changes for events such as age-18 redeterminations or differences between PROMISE enrollees and the average SSI beneficiary. |
| OASDI administrative costs | 1.9 percent of the sum of Year 1 through Year 5 OASDI impact estimates | We used a 1.9 percent multiplier applied to OASDI payments based on the percentage of DI benefits spent on administrative costs according to SSA's Office of the Chief Actuary (SSA Board of Trustees 2020b) and the assumption that most OASDI benefits for the PROMISE sample were from DI. | The multiplier assumes the average percentage of OASDI benefits spent on administrative costs applied to our sample. This assumption may not be valid if PROMISE enrollees differed substantially from the average OASDI beneficiary. |

| Measure | Value | Source and estimation method | Potential limitations |
|---|--|--|---|
| Medicaid and Medicare expenditures | Sum of Year 1 through Year 5 Medicaid and Medicare impact estimates | We derived this value from the impact analysis, with PROMISE state-specific shares of Medicaid expenditures apportioned to state and federal government stakeholders, based on the Federal Medicaid Assistance Percentage in each state (Medicaid and CHIP Payment and Access Commission 2021). Medicaid expenditures were divided among the federal and state government based on state-specific Federal Medical Assistance Percentages. | A reduction (or increase) in Medicaid or Medicare expenditures was captured as a benefit (or cost) to the federal government (for Medicare and Medicaid) and the state government (for Medicaid), but the costs associated with any resulting changes in beneficiary health outcomes was not captured. (We counted changes in insurance coverage as nonmonetary benefits—or costs—to youth and parents.) |
| Administrative costs for Medicaid and Medicare | 8.5 percent of the sum of Year 1 through Year 5 Medicaid and Medicare impact estimates | We used an 8.5 percent multiplier applied to Medicaid and Medicare costs, based on the percentage of Medicaid and Medicare federal expenditures spent on administrative costs (Tollen et al. 2020). Medicaid administrative costs were divided among the federal and state government based on state-specific Federal Medical Assistance Percentages (Medicaid and CHIP Payment and Access Commission 2021). | The multiplier assumes the average percentage of Medicaid and Medicare expenditures spent on administrative costs applied to our sample. |
| Education- related costs | Impact estimates on college enrollment, multiplied by cost of tuition and of books | We assumed that youth completed their education between Year 3 and Year 5. We used the impact estimate on the survey variable "Completion of 'some or all of college or university" as a measure of PROMISE's impact on college completion in the years before the five-year survey. Because we had no information on when 'some or all college or university' completion occurred, we assumed that half of the impact occurred in Year 3 and the other half in Year 4. For Year 5, we used the impact estimate on the survey variable "Enrolled in postsecondary education" as a measure of PROMISE's impact on enrollment in college in that year. We divided by 100 to convert the impact estimates from percentages to fractions and then summed the impact estimates to arrive at PROMISE's cumulative impact on the share of youth enrolled in college from Years 3 through 5. We then multiplied this value by the cost of education (assumed to be the cost of tuition and books). We obtained state-specific tuition costs for four-year public college tuition (without room and board) and state | The PROMISE five-year survey did not collect data on each individual's education costs. We used average education costs that aligned to those likely to be incurred by the PROMISE population based on the types of school they attended. We obtained information about the type of school attended from the survey data. |

| Measure | Value | Source and estimation method | Potential limitations |
|---------------|--|--|---|
| | | community college tuition in the 2019-2020 academic year from the National Center for Education Statistics (2021). Community college tuition ranged from \$1,270 per year in California to \$5,476 per year in New York; four-year public college tuition ranged from \$8,192 in California to \$9,714 in Maryland. | |
| | | Because the impact estimates combined enrollment in community colleges and four-year public colleges, we calculated the cost of education as a weighted average of the percentage of PROMISE five-year survey respondents attending each type of college. For ASPIRE, we took a weighted average of the state-specific tuition prices based on the number of enrollees in the six states. We multiplied these costs by 44 percent because the National Center for Education Statistics suggests that low-income students pay an average of 44 percent of the list price for college costs (2021). Using this approach, the average tuition price per program were \$2,346 (Arkansas), \$2,258 (ASPIRE), \$1,222 (California), \$2,479 (Maryland), \$2,818 (New York State), and \$2,460 (Wisconsin). For the cost of books, we used the national average in the 2019-2020 academic year (\$1,240) from the National Center for Education Statistics (2021) for all programs. | |
| Incarceration | Impact estimates for number of days ever incarcerated, multiplied by \$97.44 (cost of incarceration per day) | We used impact estimates for days incarcerated, multiplied by the average daily federal incarceration cost in a residential reentry center for federal fiscal year 2020 (\$97.44), from the Bureau of Prisons (2021). We used residential re-entry center costs rather than federal facility costs because given the PROMISE youth's ages, they were more likely to be incarcerated in a residential re-entry center. | The imputation method assumed the same cost of incarceration across all PROMISE programs and did not account for other associated costs of justice involvement (such as court costs) or differences in incarceration costs across local, state, and federal institutions. |

| Measure | Value | Source and estimation method | Potential limitations |
|---|--------------------------------|--|---|
| Other public supports | estimates on income from TANF, | We used survey-based outcomes and therefore had only one year of data—the year before the PROMISE five-year survey. We created Year 1 through Year 5 impacts equal to the estimated impact in the year before the five-year survey. The original impacts were estimated among households that included the enrolled youth. However, the impact analysis was limited to households that included the enrolled youth; households that consisted of only the parent(s) of the enrolled youth were not included. To obtain estimates of the impact on SNAP, TANF, and public housing assistance payments for all households, we separately estimated the impacts among households where the parent did not live with their youth (Appendix Table B.5). We then took an average of the two sets of estimates, weighting it by the share of the total survey households in each group. Because TANF costs are incurred by both the state and the federal government, we split the cost across both entities according to the state-specific TANF maintenance of effort expenditures as a percentage of total costs (Office of Family Assistance 2020). | We relied on self-reported data from the survey; these data may be less accurate than administrative data. In addition, because we had data for only one year, we used the same impacts for all five years and applied a discount rate. If the impacts on TANF, SNAP, and public housing assistance differed across this period, the net benefit calculations would not capture this change. Finally, we captured only measures of public assistance that we collected via the PROMISE surveys. Some types of public assistance, like the Special Supplemental Nutrition Program for Women, Infants, and Children, are not included in the analysis. |
| Administrative costs for other public supports | - | We applied multipliers of 7.8 percent for TANF, 10.5 percent for SNAP, and 5.2 percent for public housing assistance to the relevant impact estimates. These multipliers were based on data from the U.S. Health and Human Services (2020), U.S. Department of Agriculture (2020), and a report prepared for the U.S. Department of Housing and Urban Development (Turnham et al. 2015), respectively. | The multipliers assumed the average percentage of benefits spent on administrative costs for each of these programs also applied to our sample. |

| Measure | Value | Source and estimation method | Potential limitations |
|----------|---|--|--|
| VR costs | Impact estimates for VR service use multiplied by VR cost per user | We have reliable VR costs per user per year for only one PROMISE state (Wisconsin), so we apply the Wisconsin VR costs to the other states in our sample. We multiplied the average VR cost per person per year for Wisconsin PROMISE (\$1,946) by 1.5 years, which is the average length of time that VR users typically receive VR services (Schimmel and O'Leary 2018); this yielded an estimated VR cost per user of \$2,919. To obtain the VR cost per user for the other PROMISE states, we adjusted the Wisconsin cost per user by the ratio of "community and social service occupation" wages of each PROMISE state and Wisconsin, using 2020 BLS wage information (BLS 2021b). After estimating the VR cost per user for each program, we multiplied this cost by the point estimate of the program's impact on VR service use. We attributed 21.3 percent of VR costs to the state and 78.7 percent to the federal government. We report VR costs under "Employment services" in the benefit cost tables. | The measure of VR cost per user has several limitations. First, VR costs per user in Wisconsin may differ from VR costs in other states, even after making the wage differential adjustment. Second, we did not have information on the length of time youth used VR services and so used a rough estimate of 1.5 years. Third, the period over which VR costs were measured in Wisconsin (October 1, 2016 through September 30, 2017) differs from the period over which the impacts were estimated (we estimated impacts on VR service use during the five years after RA). |

ASPIRE = Achieving Success by Promoting Readiness for Education and Employment; BLS = Bureau of Labor Statistics; CHIP = Children's Health Insurance Program; DI = Social Security Disability Insurance; IRS = Internal Revenue Service; MEF = Master Earnings File; PROMISE = Promoting Readiness of Minors in Supplemental Security Income; OASDI = Old-Age, Survivors, and Disability Insurance; SIPP = Survey of Income and Program Participation; SNAP = Supplemental Nutrition Assistance Program; SSI = Supplemental Security Income; TANF = Temporary Aid for Needy Families; VR = Vocational Rehabilitation.

| Appendix Table B.5. PROMISE impacts on amounts of public assistance received by parent-only |
|---|
| households |

| Amount of public assistance in past | Control | | | Standard | Effect | Treatment | Control |
|-------------------------------------|---------|--------|-------------------|------------------|--------|-----------|---------|
| month (\$), by source | mean | Impact | <i>p</i> -value | error | size | group N | group N |
| Arkansas PROMISE | | | | | | | |
| TANF benefits | 0 | 0 | n.a.ª | n.a ª | n.a.ª | 66 | 69 |
| SNAP benefits | 96 | 29 | 0.38 | 33 | 0.159 | 67 | 73 |
| Housing assistance | 34 | 50 | 0.15 | 35 | 0.296 | 67 | 73 |
| ASPIRE | | | | | | | |
| TANF benefits | 13 | -7 | 0.37 | 8 | -0.153 | 73 | 65 |
| SNAP benefits | 108 | 4 | 0.91 | 33 | 0.019 | 73 | 64 |
| Housing assistance | 84 | -54 | 0.21 | 42 | -0.229 | 76 | 64 |
| CaPROMISE | | | | | | | |
| TANF benefits | 38 | -9 | n.a. ^b | n.a ^b | -0.053 | 58 | 61 |
| SNAP benefits | 121 | -80** | 0.02 | 35 | -0.460 | 57 | 60 |
| Housing assistance | 210 | -116 | 0.31 | 115 | -0.230 | 57 | 60 |
| MD PROMISE | | | | | | | |
| TANF benefits | 55 | -42 | 0.47 | 58 | -0.255 | 79 | 44 |
| SNAP benefits | 161 | -14 | 0.79 | 52 | -0.060 | 76 | 44 |
| Housing assistance | 337 | -220** | 0.02 | 97 | -0.482 | 78 | 44 |
| NYS PROMISE | | | | | | | |
| TANF benefits | 34 | -14 | 0.49 | 20 | -0.160 | 48 | 37 |
| SNAP benefits | 135 | 84 | 0.13 | 55 | 0.338 | 49 | 36 |
| Housing assistance | 140 | 127 | 0.26 | 112 | 0.297 | 48 | 38 |
| WI PROMISE | | | | | | | |
| TANF benefits | 10 | 4 | 0.76 | 12 | 0.053 | 77 | 81 |
| SNAP benefits | 152 | 86** | 0.04 | 43 | 0.383 | 75 | 76 |
| Housing assistance | 116 | -27 | 0.47 | 37 | -0.119 | 77 | 74 |

Source: PROMISE five-year surveys.

Note: This table shows the observed means for the control group and the regression-adjusted estimates of the impacts of PROMISE on the amounts of public assistance received by households in which parents live but youth do not (Appendix Tables C.13, D.13, E.13, F.13, G.13 and H.13 present similar estimates for households in which youth live). The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. We weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

^a For AR PROMISE, the p-value is missing for the impact on TANF benefits due to zero variance in the outcome. The effect size cannot be calculated for the same reason.

^b Because one stratum in California contained only one person, we were not able to obtain the standard error and *p*-value of the impact estimate.

N = sample size; n.a. = not applicable; SNAP = Supplemental Nutrition Assistance Program; TANF = Temporary Assistance for Needy Families.

c. Accounting for differences in the timing of benefits and costs

Program costs accrued at the beginning of the demonstration, whereas benefits were realized later and might continue to accrue over time. Thus, we made two adjustments to account for differences in the timing of when benefits and costs occur. First, to account for inflation that erodes the value of a dollar over time, we used the CPI-W to convert all dollar-denominated measures into constant 2020 dollars. Second, we used a discount rate to convert all future benefits and costs to their present value and account for the opportunity cost of dollars not invested. We set the discount rate equal to 2.7 percent—the rate SSA used in its OASDI Trust Funds actuarial projections (SSA Board of Trustees 2020b).

d. Estimating net benefits and the benefit-cost ratio

The final step in the benefit-cost analysis was to combine the various estimates in a comprehensive assessment of the net benefits of a PROMISE program. We computed the *net benefit* by subtracting the direct costs (the cost of program components) from the sum of the quantitative outcome measures (which represents the program benefits net of its indirect costs). A positive value for this statistic signifies that a program's benefit exceeds its costs. We also calculated the *benefit-cost ratio*—the sum of the quantitative outcome measures (that is, benefits and indirect costs) divided by the sum of the direct costs. For each accounting perspective, we report the values of the quantitative outcome components, the costs of program components, the net benefits, and the benefit-cost ratio.

3. Sensitivity analyses

To assess the sensitivity of the benefit-cost estimates to changes in the underlying assumptions and methodological choices, we developed estimates under different scenarios: (1) accounting for variability in the estimates, (2) using only statistically significant impact estimates, and (3) varying several of the underlying assumptions and parameters. We describe the findings of these sensitivity analyses in the sections that follow.

a. Sample variability

As with the impact analysis, we derived most of the benefit-cost analysis measures from data on individual study enrollees, which are subject to sampling variability arising from chance factors in who participated in the program and the assignment of individuals to treatment and control groups. Different sampling draws would likely yield slightly different estimates, which are reflected in the standard errors that accompany the impact estimates. To account for this issue, we quantified uncertainty in the estimated net benefits by constructing nonparametric bootstrap confidence intervals. Bootstrapping is a nonparametric technique that allows researchers to estimate the sampling distribution of a target statistic, such as linear regression estimators. The net benefit calculations include estimates of benefits and costs that we estimated via linear regressions. Bootstrapping allows us to account for the sampling variation of each of these estimators when constructing the 95 percent confidence interval for the net benefit estimate.

For each program, we sampled with replacement from the study population 1,000 times to create 1,000 random samples with an equal size as the true sample. The study population was at the family level, with each observation representing a parent-youth pair, an independent youth, or a parent not living with his or her youth. Because we sampled with replacement, an observation may be represented more than once or not at all within a particular random sample. We stratified the sampling by research group (treatment and control) to ensure that the share of the sample belonging to each group was constant across samples. In addition to the treatment strata, we stratified sampling by an indicator for parent (which was on all records

except for independent youth). This stratification ensured that we estimated parent impacts using a correctly sized sample of parents. Finally, a small number of the impact estimates came from a subset of parents. We separately sampled this group of parents to generate the sampling distribution of these impact estimates.

We re-estimated all coefficients for each sample, resulting in a total of 1,000 instances for each coefficient.²⁰ For each sample, we calculated the net benefit for each accounting perspective, using the process described above. Appendix Tables C.27, D.29, and E.27–H.27 show the distribution of the resulting 1,000 net benefit estimates and identify various percentiles ranging from the 2.5th through the 97.5th The first and last estimates capture the 95 percent confidence interval of our main net benefit estimate. The range in estimates for all key stakeholders was large. For example, in Maryland, the 2.5th percentile was -\$22,293, whereas the 97.5th percentile was -\$7,469. Nonetheless, the estimated net benefits for all key stakeholders were negative across the entire distribution for all sites, suggesting that our main conclusion (that PROMISE did not generate net benefits across all key stakeholders) is robust.

b. Statistically significant impact estimates

The main benefit-cost calculations used PROMISE impact estimates regardless of whether they were statistically significant. To understand the extent to which the estimated net benefits were driven by nonsignificant impact estimates, we recalculated the net benefits using only those impact estimates that were significant at the 10 percent level. We set nonsignificant impact estimates equal to zero. The last row of Appendix Tables C.28, D.30, and E.28–H.28 presents the results of this analysis. For all key stakeholders, in this analysis, the net benefit was within 25 percent of the estimate from our main analysis within each program and continued to be negative and sizeable, suggesting that our main conclusion for all key stakeholders (that PROMISE did not generate net benefits across all key stakeholders) is robust.

c. Sensitivity of net benefit estimates to parameter assumptions

We considered whether the benefit-cost results were sensitive to the assumptions we used to estimate some of the individual components. Specifically, we assessed the sensitivity of the main estimates to the following:

- **Excluding fringe benefits.** It is possible that many PROMISE enrollees may not have had jobs with fringe benefits, so we varied this assumption accordingly, and assumed that youth did not receive any fringe benefits.
- **Excluding education tuition costs.** Given the distribution of incomes of PROMISE families, youth enrolled in two- or four-year colleges may have been eligible for financial aid, which could have reduced or eliminated tuition costs.
- Using the highest state-specific cost of incarceration (California, \$222/day) rather than the national average cost (\$88/day). Because there is a large variation in the daily incarceration rate across the PROMISE programs, we recalculated net benefits using incarceration costs for the highest-cost state (California) to provide an upper bound.
- Using a fixed cost of \$51 per week instead of 10.6 percent of earnings to estimate work-related costs. At certain parts of the earning distribution, work-related costs may have more closely reflected fixed costs rather than proportional costs; we varied the assumptions to reflect this possibility. The

²⁰ Because the VR service use data is de-identified, we sampled these data separately to obtain the distribution of the impact estimate on VR service use.

\$51 cost was based on the 2014 Survey of Income and Program Participation (SIPP), inflationadjusted to 2020 dollars (Mohanty et al. 2017).

• Using different discount rates. We used alternative discount rates recommended by best practice guidelines for benefit-cost analyses (Boardman et al. 2018). In the sensitivity tests, we used discount rates of 1.0 percent and 5.0 percent rather than 2.7 percent.

Appendix Tables C.28, D.30, and E.28–H.28 present the estimates of net benefits when we applied the alternative assumptions noted above. From the perspective of all key stakeholders, net benefits under these alternative assumptions were always within 15 percent of the net benefits estimated under our main analysis, and net benefits were sizeable and negative under each scenario. However, net benefits for particular perspectives were sensitive to the alternative assumptions. First, those for PROMISE youth and families were particularly sensitive to whether we treated work-related costs as a fixed dollar amount. In Arkansas PROMISE, the net benefit over five years changed from \$2,005 (in the main analysis) to -\$510 when we assumed that work-related costs were fixed; similarly, in MD PROMISE, net benefits changed from \$850 in the main analysis to -\$357 under this alternative assumption. Second, the state and local government perspective. For example, in WI PROMISE, the net benefits from the state and local government perspective changed from \$1,426 to \$3,413 when we assumed a higher cost of incarceration. Taken together, these results suggest that our main conclusion for all key stakeholders is robust, but the conclusions for particular perspectives are sensitive to the assumptions we used.

4. Long-term forecast

As a supplement to the five-year benefit-cost analysis, we projected the accrual of net benefits beyond the five-year evaluation period. We did so because additional benefits of PROMISE might be realized after the five-year evaluation follow-up period ends, particularly given the young ages of the enrolled youth and the fact that many were still in school and might have had little labor market experience at the time of the five-year follow-up. Focusing only on the five-year evaluation period could underestimate the net benefits of PROMISE if, as it intended, a large share of treatment group enrollees were building their human capital (such as enrolled in higher education or training programs, or engaging in employment experiences), the dividends of which would not accrue until later.

To account for this possibility, we projected youth earnings as well as the effects on SSA payments due to the change in earnings for Years 6 through 20 after RA under three scenarios that varied in their potential returns to education: high returns, diminishing returns, and no returns. We also projected earnings under two additional scenarios where we replaced the value of the Year 5 impact estimate with the upper or lower bound of the 95 percent confidence interval for that estimate. After projecting earnings and SSA payments for this additional 15-year period, we calculated net benefits over 10 and 20 years after RA under the five scenarios. As with the five-year benefit-cost analyses, we applied a discount rate to all impact estimates that were part of the calculations when we estimated net benefits over 10 and 20 years.

a. Projecting youth earnings

We used the following approach to project youth impacts across Years 6 through 20 after RA. We took the average of Year 4 and Year 5 earnings,²¹ and then increased this average by a 10 percent annual

²¹ For more than half of enrollees, the fifth year after RA is 2020 during which enrollees' earnings may have been affected by the COVID-19 pandemic. For this reason, we took the average of Year 4 and Year 5 earnings before applying the annual earnings growth rate.

growth rate between Year 6 and Year 10. We based this growth rate on the average annual earnings growth rate of control group youth ages 16 to 17 between 6 and 10 years after enrollment in the National Job Corps Study (Schochet 2021). For Years 11 through 20, we increased earnings by 2.6 percent, which is equivalent to the average annual earnings growth rate of the same control group youth between 11 and 20 years after enrollment (Schochet 2021).

Although, though the Job Corps intervention took place in the 1990s, economic conditions were similar to the PROMISE demonstration period. We used the average annual earnings growth rate for the National Job Corps Study age group most similar to the PROMISE youth age group; PROMISE youth were ages 14 to 16 at enrollment and members of the National Job Corps Study control group we used to estimate the long-term growth rate in earnings were ages 16 to 17 at enrollment. As youth earnings increase between Years 6 and 20, income, payroll and sales taxes, fringe benefits and work-related costs also change because these costs and benefits are a function of earnings.

b. Applying a return to education to youth earnings

Because youth's enrollment in education could deliver long-term benefits (in higher future earnings) not captured in the five-year study window, we constructed three scenarios related to the returns to education.

- 1. The "persistent high return" scenario accounted for PROMISE impacts on education in the long-term trajectories of youth earnings by assuming the PROMISE impacts on earnings would **increase** by approximately 10 percent per additional year of schooling, based on the returns to education for people with disabilities (Henderson et al. 2017). Operationally, we first estimated the impact of PROMISE on youth's number of years of education.²² We then adjusted Year 6 earnings for youth in the treatment group to account for the returns to education. For example, if PROMISE increased education by 0.5 years, we would project that Year 6 earnings for the treatment group would increase by 0.5 times 10 percent, or 5 percent. We then projected Years 7 through 20 (for both the treatment and control groups) using the Job Corps growth rate (35 percent from Years 6 through 10 and 2.6 percent thereafter).
- 2. The "no return" scenario assumed no returns to education and used the Job Corps growth rate without adjusting earnings to account for PROMISE's impact on education.
- **3.** The "diminishing return" scenario assumed the returns to education diminished over time, as was observed in the youngest Job Corps cohort (Schochet 2021). In this scenario, we assumed that the returns to education were 10 percent in Year 6, 6 percent in Year 7, 4 percent in Year 8, 1 percent in Year 9, and 0 percent in Years 10 through 20.

After projecting earnings for treatment and control group youth under the three scenarios, we re-estimated the yearly regression models to identify PROMISE's impact on earnings in Years 6 through 20 for each scenario. In scenarios in which we assumed returns to education, we would expect a larger impact estimate on youth earnings in Year 6 relative to Year 5 if PROMISE increased the educational attainment in Year 5. By the same token, if PROMISE decreased educational attainment, we would expect a smaller impact estimate on youth earnings in Year 6 relative to Year 5. For all scenarios, the dollar amount of the impact estimate in Year 6 would grow in absolute terms by 35 percent yearly from Years 6 through 10, and by 2.6 percent thereafter.

²² The PROMISE programs' impacts on years of education were small and not statistically significant (ranging from -0.06 for CaPROMISE to 0.04 for WI PROMISE).

We found that PROMISE had a negative, though not statistically significant, impact on years of education in some programs. For these programs, the net benefit estimates under the scenario that assumed no return to education were larger than the estimates under the scenarios that assumed a return to education (Appendix Tables C.29, D.31, and E.29–H.29). For example, for CaPROMISE, the net benefit over 10 years for the "no return to education" scenario from the perspective of all stakeholders was -\$21,826, higher than the -\$21,985 net benefit estimated under the scenario that assumed a persistent high return to education.

b. Using the upper and lower bounds of the confidence interval

The confidence intervals on the impact estimates on youth earnings in Year 5 quantifies the sampling variability. That is, it shows the likely range of results from repeating PROMISE recruitment and the PROMISE demonstration many times. We constructed one scenario where we assume the upper bound of the confidence interval on the impact estimate on youth earnings in Year 5 was realized and another scenario where we assume the lower bound of the confidence interval was realized. After projecting earnings for treatment and control group youth under the two scenarios, we re-estimated the yearly regression models to identify PROMISE's impact on earnings in Years 6 through 20 for each scenario.

c. Projecting SSA payments

We used Years 6 through 20 earnings and SSA program rules regarding eligibility for SSI and DI benefits to project individual-level SSI and DI payments in those years.²³ In particular, we set benefits to zero in years when the projected youth earnings crossed key thresholds. We used the annualized SGA amount to assess eligibility for DI payments. For earnings below the SGA threshold, we projected the same benefits forwards (because DI benefits don't change with earnings below the SGA threshold). We reduced benefits by \$1 for every \$2 dollars earned in the case of SSI payments based on SSI program rules relating to earned income (SSA 2022).

The projections have several limitations. First, we could not observe, and therefore did not account for, impairment-related work expenses or other SSA work incentive provisions that raise the earnings threshold beyond which benefits terminate. Second, we used annualized thresholds to determine payment eligibility; SSA uses a monthly threshold. After projecting enrollees' SSI and DI payments for Years 6 through 20 based on projected earnings over the same period, we re-estimated the impact regression models for each year to obtain PROMISE impacts on SSI and DI payments. Because we assumed that SSA administrative costs are a function of SSA payments, SSA administrative costs changed as SSA payments changed.

d. Projecting other benefits and costs

We assumed that the impact on the cost of education was zero between Years 9 and 20 because people are less likely to be enrolled in school at ages 23 to 25 and older. We assumed the impacts on public supports and health care expenditures were constant between Years 6 and 20, meaning that enrollment in Medicaid, Medicare and other public programs did not change during this period; operationally, we assigned the Year 5 impacts on public supports and the average of Years 4 and 5 impacts on Medicare and Medicaid expenditures to Years 6 through 20. Finally, we assumed that impacts on VR service use

²³ We focused only on DI benefits because, given the ages of the youth, they were ineligible for old age and survivors benefits.

and incarceration measured during the five years after RA were lifetime impacts and therefore, set the impacts on those benefits and costs to zero in Years 6 through 20.

Appendix Tables C.29, D.31, and E.29–H.29 present the forecasted net benefits over the 10- and 20-year periods for each program.

e. Cost neutrality calculations

Finally, we calculated how large the impact on youth earnings would have to be, assuming all other impacts were the same as in the five-year analysis, for PROMISE program benefits to equal the costs in 10 and 20 years after RA. Using the net-benefit equation, we solved for the total impact on youth earnings needed from Years 6 through 10, assuming that all other impacts during this period would be the same as they were in Year 1 through Year 5 and accounting for the net benefits already accrued between Years 1 through 5. We divided this number by five to arrive at the average annual impact on youth earnings needed for PROMISE to be cost neutral in 10 years. For example, if a program had no benefits and indirect and program costs were equal to \$20,000, the net benefit would be -\$20,000 over the first five years. The program would need to generate a youth earnings impact of \$20,000 over the next five years to be cost neutral in 10 years in Years 6 through 10. We did an analogous calculation to obtain the average annual impact on youth earnings needed for PROMISE to be cost neutral in 20 years. These estimates are included in Appendix Figures C.1–H.1 and Section E of each program chapter of the main report.

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Appendix C. Arkansas PROMISE Impacts, Benefits, and Costs

A. Enrollees and analysis samples

The full research sample for the evaluation of Arkansas PROMISE consists of the 1,805 youth who enrolled in the evaluation and were randomly assigned, as well as their families. To assess the extent to which the findings might reflect the baseline characteristics of various samples, we compared differences between (1) the treatment and control groups, (2) survey respondents and nonrespondents, and (3) self-reporting and proxy youth respondents.

1. Differences between the treatment and control groups

We compared 25 baseline characteristics of the treatment and control groups for four samples: all youth survey respondents, all parent survey respondents, all enrollees, and all proxy youth respondents (Appendix Tables C.1–C.4). The similarity of samples across the characteristics examined suggest that RA created treatment and control groups that were equivalent in their baseline characteristics. Although we found statistically significant differences for a few characteristics, they are not concerning for two reasons. First, with a significance level of 10 percent, we expect to reject the null hypothesis that the groups were equivalent for 1 out of every 10 characteristics by chance alone, even when the two groups in fact had no underlying differences. Second, we included characteristics that were significantly different at baseline as covariates in our regression-adjusted impact analyses, allowing us to control for the observed differences.

Appendix Table C.1. Arkansas PROMISE: Baseline characteristics of youth survey respondents (percentages, unless otherwise noted)

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p</i> -value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| Demographic characteristics | | (-) | (-) | | p raide |
| Youth is female | 34.0 | 33.2 | 34.7 | -1.4 | 0.56 |
| Youth age at RA | | | | | 0.29 |
| 14 | 38.8 | 38.9 | 38.6 | 0.3 | |
| 15 | 27.1 | 25.4 | 28.8 | -3.4 | |
| 16 | 34.1 | 35.6 | 32.5 | 3.1 | |
| Average age at RA | 15.4 | 15.4 | 15.4 | 0.0 | 0.56 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 97.6 | 97.7 | 97.5 | 0.2 | 0.77 |
| Prefers English for spoken language | 97.5 | 97.6 | 97.5 | 0.1 | 0.90 |
| Youth living arrangement at SSI application | | | | | 0.11 |
| In parents' household | 86.6 | 85.1 | 88.1 | -3.0 | |
| Own household or alone | 12.4 | 13.5 | 11.3 | 2.2 | |
| Another household and receiving support | 1.0 | 1.5 | 0.6 | 0.8 | |
| Youth race and ethnicity | | | | | 0.69 |
| Non-Hispanic White | 18.0 | 17.8 | 18.1 | -0.3 | |
| Non-Hispanic Black | 48.2 | 48.7 | 47.7 | 1.0 | |
| Hispanic | 6.6 | 6.5 | 6.6 | -0.1 | |
| Non-Hispanic American Indian | 0.8 | 0.8 | 0.8 | 0.0 | |
| Non-Hispanic other or mixed race | 6.9 | 7.8 | 5.9 | 1.9 | |
| Missing | 19.6 | 18.3 | 20.8 | -2.5 | |
| Enrolling parent age at RA | 42.3 | 42.4 | 42.1 | 0.3 | 0.57 |
| Parent race and ethnicity | | | | | 0.76 |
| Non-Hispanic White | 23.0 | 23.2 | 22.8 | 0.4 | |
| Non-Hispanic Black | 50.9 | 50.9 | 51.0 | -0.0 | |
| Hispanic | 5.3 | 5.6 | 5.0 | 0.7 | |
| Non-Hispanic American Indian | 0.8 | 0.7 | 0.9 | -0.2 | |
| Non-Hispanic other or mixed race | 5.3 | 5.9 | 4.6 | 1.3 | |
| Missing | 14.8 | 13.7 | 15.8 | -2.1 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.59 |
| Intellectual or developmental disability | 42.6 | 43.6 | 41.7 | 1.9 | |
| Speech, hearing, or visual impairment | 1.1 | 1.3 | 1.0 | 0.2 | |
| Physical disability | 10.3 | 9.5 | 11.0 | -1.5 | |
| Other mental impairment | 43.3 | 42.5 | 44.1 | -1.7 | |
| Other or unknown disability | 2.7 | 3.2 | 2.2 | 1.0 | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p</i> -value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 94.2 | 92.7 | 95.6 | -2.9** | 0.02 |
| Received OASDI | 14.7 | 14.8 | 14.6 | 0.3 | 0.89 |
| Years between youth's earliest SSI eligibility and RA | 8.7 | 8.8 | 8.7 | 0.1 | 0.63 |
| Youth age at most recent SSI application | 7.1 | 7.1 | 7.2 | -0.1 | 0.62 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,217 | 7,181 | 7,253 | -72 | 0.54 |
| OASDI | 419 | 431 | 407 | 25 | 0.71 |
| Total SSI and OASDI | 7,636 | 7,613 | 7,660 | -47 | 0.63 |
| Household had multiple SSI-eligible children | 27.5 | 26.5 | 28.4 | -1.9 | 0.42 |
| Enrolling parent provided a valid SSN at RA | 90.5 | 89.5 | 91.5 | -2.0 | 0.20 |
| Parents included in the administrative data | | | | † | 0.09 |
| None | 1.9 | 2.5 | 1.4 | 1.2 | |
| One parent | 63.4 | 61.1 | 65.6 | -4.5 | |
| Two parents | 34.7 | 36.4 | 33.0 | 3.4 | |
| Parent SSA payment status at RA | | | | | 0.41 |
| Any parent received SSI only | 9.7 | 9.1 | 10.3 | -1.2 | |
| Any parent received OASDI only | 11.8 | 12.4 | 11.1 | 1.3 | |
| Any parent received both SSI and OASDI | 7.5 | 7.8 | 7.2 | 0.7 | |
| No parent received any SSA payments | 69.1 | 68.1 | 70.1 | -2.0 | |
| No parent was included in the SSA data analyses | 1.9 | 2.5 | 1.4 | 1.2 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 0.7 | 0.8 | 0.7 | 0.1 | 0.75 |
| Youth earnings in the calendar year before RA (\$) | 9 | 3 | 15 | -12 | 0.23 |
| Parent had earnings in the calendar year before RA | 70.0 | 70.9 | 69.1 | 1.8 | 0.46 |
| Parent earnings in the calendar year before RA (\$) | 15,630 | 16,376 | 14,893 | 1,483 | 0.11 |
| Number of youth | 1,441 | 733 | 708 | | |

Note: The sample includes all youth who completed the PROMISE five-year youth survey. We weighted the statistics to adjust for survey nonresponse. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a chi-square test.

Appendix Table C.2. Arkansas PROMISE: Baseline characteristics of parent survey respondents (percentages, unless otherwise noted)

| | All | Treatment | Control | Difference | |
|--|------|-----------|---------|------------|-----------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | <i>p</i> -value |
| Demographic characteristics | | | | | |
| Youth is female | 33.8 | 33.1 | 34.5 | -1.4 | 0.59 |
| Youth age at RA | | | | | 0.33 |
| 14 | 39.0 | 38.6 | 39.4 | -0.8 | |
| 15 | 27.2 | 25.8 | 28.5 | -2.7 | |
| 16 | 33.8 | 35.6 | 32.1 | 3.5 | |
| Average age at RA | 15.4 | 15.4 | 15.4 | 0.1 | 0.34 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 97.4 | 97.4 | 97.3 | 0.0 | 0.96 |
| Prefers English for spoken language | 97.3 | 97.2 | 97.3 | -0.1 | 0.91 |
| Youth living arrangement at SSI application | | | | | 0.47 |
| In parents' household | 87.4 | 86.6 | 88.2 | -1.6 | |
| Own household or alone | 11.4 | 11.9 | 10.9 | 1.0 | |
| Another household and receiving support | 1.2 | 1.5 | 0.9 | 0.6 | |
| Youth race and ethnicity | | | | | 0.81 |
| Non-Hispanic White | 18.0 | 17.9 | 18.2 | -0.3 | |
| Non-Hispanic Black | 49.8 | 50.1 | 49.5 | 0.6 | |
| Hispanic | 7.1 | 7.2 | 7.0 | 0.2 | |
| Non-Hispanic American Indian | 0.9 | 0.9 | 0.8 | 0.1 | |
| Non-Hispanic other or mixed race | 6.8 | 7.6 | 6.1 | 1.6 | |
| Missing | 17.4 | 16.3 | 18.5 | -2.2 | |
| Enrolling parent age at RA | 42.0 | 42.0 | 42.0 | -0.1 | 0.89 |
| Parent race and ethnicity | | | | | 0.74 |
| Non-Hispanic White | 22.9 | 23.4 | 22.4 | 1.0 | |
| Non-Hispanic Black | 50.8 | 50.8 | 50.8 | 0.0 | |
| Hispanic | 5.4 | 5.7 | 5.1 | 0.6 | |
| Non-Hispanic American Indian | 0.7 | 0.7 | 0.7 | 0.0 | |
| Non-Hispanic other or mixed race | 5.0 | 5.5 | 4.5 | 1.0 | |
| Missing | 15.2 | 13.8 | 16.5 | -2.7 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.52 |
| Intellectual or developmental disability | 43.1 | 44.5 | 41.7 | 2.8 | |
| Speech, hearing, or visual impairment | 1.0 | 1.2 | 0.7 | 0.5 | |
| Physical disability | 10.5 | 9.9 | 11.0 | -1.1 | |
| Other mental impairment | 42.9 | 41.4 | 44.4 | -3.0 | |
| Other or unknown disability | | | | | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 94.1 | 92.3 | 95.9 | -3.5*** | 0.01 |
| Received OASDI | 14.4 | 14.3 | 14.6 | -0.3 | 0.89 |
| Years between youth's earliest SSI eligibility and RA | 8.7 | 8.7 | 8.7 | 0.0 | 0.93 |
| Youth age at most recent SSI application | 7.1 | 7.1 | 7.1 | 0.0 | 0.87 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,215 | 7,175 | 7,255 | -80 | 0.49 |
| OASDI | 415 | 418 | 411 | 8 | 0.91 |
| Total SSI and OASDI | 7,630 | 7,593 | 7,666 | -73 | 0.47 |
| Household had multiple SSI-eligible children | 28.4 | 26.8 | 30.0 | -3.2 | 0.19 |
| Enrolling parent provided a valid SSN at RA | 90.9 | 90.2 | 91.6 | -1.4 | 0.36 |
| Parents included in the administrative data | | | | | 0.28 |
| None | 1.7 | 2.0 | 1.3 | 0.7 | |
| One parent | 62.6 | 60.8 | 64.3 | -3.5 | |
| Two parents | 35.7 | 37.1 | 34.3 | 2.8 | |
| Parent SSA payment status at RA | | | | | 0.82 |
| Any parent received SSI only | 9.2 | 9.1 | 9.4 | -0.3 | |
| Any parent received OASDI only | 11.0 | 11.5 | 10.5 | 1.0 | |
| Any parent received both SSI and OASDI | 8.0 | 7.8 | 8.2 | -0.4 | |
| No parent received any SSA payments | 70.1 | 69.6 | 70.6 | -1.0 | |
| No parent was included in the SSA data analyses | 1.7 | 2.0 | 1.3 | 0.7 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 0.8 | 0.9 | 0.7 | 0.1 | 0.80 |
| Youth earnings in the calendar year before RA (\$) | 16 | 4 | 28 | -24 | 0.12 |
| Parent had earnings in the calendar year before RA | 70.8 | 71.6 | 70.1 | 1.5 | 0.54 |
| Parent earnings in the calendar year before RA (\$) | 16,006 | 16,595 | 15,431 | 1,164 | 0.23 |
| Number of youth | 1,393 | 702 | 691 | | |

Note: The sample includes all youth whose parent completed the PROMISE five-year youth survey. We weighted the statistics to adjust for survey nonresponse. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a chi-square test.

Appendix Table C.3. Arkansas PROMISE: Baseline characteristics of all youth enrollees (percentages, unless otherwise noted)

| Deseline ob every stariotic | All | Treatment | Control | Difference | |
|--|------|-----------|---------|------------|-----------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | <i>p</i> -value |
| Demographic characteristics | | | | | |
| Youth is female | 33.6 | 33.2 | 34.0 | -0.8 | 0.73 |
| Youth age at RA | | | | | 0.51 |
| 14 | 38.3 | 37.8 | 38.8 | -1.0 | |
| 15 | 27.5 | 26.8 | 28.3 | -1.5 | |
| 16 | 34.1 | 35.4 | 32.9 | 2.5 | |
| Average age at RA | 15.4 | 15.4 | 15.4 | 0.0 | 0.38 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 97.5 | 97.7 | 97.3 | 0.3 | 0.64 |
| Prefers English for spoken language | 97.5 | 97.6 | 97.3 | 0.2 | 0.76 |
| Youth living arrangement at SSI application | | | | | 0.38 |
| In parents' household | 86.7 | 85.6 | 87.8 | -2.2 | |
| Own household or alone | 12.1 | 13.1 | 11.2 | 1.8 | |
| Another household and receiving support | 1.2 | 1.3 | 1.0 | 0.3 | |
| Youth race and ethnicity | | | | | 0.32 |
| Non-Hispanic White | 18.1 | 17.9 | 18.3 | -0.4 | |
| Non-Hispanic Black | 47.4 | 48.8 | 45.9 | 2.8 | |
| Hispanic | 6.6 | 6.3 | 7.0 | -0.7 | |
| Non-Hispanic American Indian | 0.8 | 0.7 | 0.9 | -0.2 | |
| Non-Hispanic other or mixed race | 6.8 | 7.6 | 5.9 | 1.8 | |
| Missing | 20.3 | 18.7 | 22.0 | -3.3 | |
| Enrolling parent age at RA | 41.9 | 41.9 | 41.9 | -0.0 | 0.98 |
| Parent race and ethnicity | | | | | 0.30 |
| Non-Hispanic White | 22.6 | 22.6 | 22.6 | -0.1 | |
| Non-Hispanic Black | 50.0 | 51.4 | 48.6 | 2.8 | |
| Hispanic | 5.2 | 5.2 | 5.2 | -0.0 | |
| Non-Hispanic American Indian | 0.8 | 0.6 | 1.0 | -0.4 | |
| Non-Hispanic other or mixed race | 5.0 | 5.5 | 4.4 | 1.1 | |
| Missing | 16.4 | 14.7 | 18.1 | -3.4 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.92 |
| Intellectual or developmental disability | 41.9 | 42.5 | 41.4 | 1.1 | |
| Speech, hearing, or visual impairment | 1.1 | 1.0 | 1.1 | -0.1 | |
| Physical disability | 9.4 | 9.0 | 9.9 | -0.9 | |
| Other mental impairment | 44.7 | 44.5 | 45.0 | -0.5 | |
| Other or unknown disability | 2.9 | 3.1 | 2.7 | 0.4 | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 94.0 | 92.6 | 95.4 | -2.9** | 0.01 |
| Received OASDI | 14.7 | 15.2 | 14.2 | 0.9 | 0.57 |
| Years between youth's earliest SSI eligibility and RA | 8.7 | 8.7 | 8.7 | 0.0 | 0.84 |
| Youth age at most recent SSI application | 7.1 | 7.1 | 7.1 | 0.0 | 0.98 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,217 | 7,193 | 7,241 | -48 | 0.65 |
| OASDI | 414 | 433 | 396 | 37 | 0.54 |
| Total SSI and OASDI | 7,632 | 7,626 | 7,637 | -11 | 0.90 |
| Household had multiple SSI-eligible children | 28.1 | 27.5 | 28.6 | -1.0 | 0.62 |
| Enrolling parent provided a valid SSN at RA | 90.4 | 89.6 | 91.2 | -1.6 | 0.24 |
| Parents included in the administrative data | | | | † | 0.08 |
| None | 1.8 | 2.3 | 1.2 | 1.1 | |
| One parent | 63.4 | 61.5 | 65.4 | -3.9 | |
| Two parents | 34.8 | 36.2 | 33.4 | 2.8 | |
| Parent SSA payment status at RA | | | | | 0.49 |
| Any parent received SSI only | 9.8 | 9.8 | 9.8 | 0.1 | |
| Any parent received OASDI only | 11.5 | 11.6 | 11.3 | 0.3 | |
| Any parent received both SSI and OASDI | 7.6 | 7.7 | 7.4 | 0.3 | |
| No parent received any SSA payments | 69.4 | 68.5 | 70.3 | -1.8 | |
| No parent was included in the SSA data analyses | 1.8 | 2.3 | 1.2 | 1.1 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 0.8 | 0.9 | 0.8 | 0.1 | 0.80 |
| Youth earnings in the calendar year before RA (\$) | 14 | 6 | 22 | -16 | 0.14 |
| Parent had earnings in the calendar year before RA | 70.9 | 71.0 | 70.8 | 0.2 | 0.92 |
| Parent earnings in the calendar year before RA (\$) | 15,623 | 15,937 | 15,312 | 624 | 0.44 |
| Number of youth | 1,805 | 904 | 901 | | |

Note: The sample includes all youth who enrolled in PROMISE. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

Appendix Table C.4. Arkansas PROMISE: Baseline characteristics of proxy youth survey respondents (percentages, unless otherwise noted)

| | All | Treatment | Control | Difference | |
|--|------|-----------|---------|------------|-----------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | <i>p</i> -value |
| Demographic characteristics | | | | | |
| Youth is female | 26.9 | 25.3 | 28.1 | -2.8 | 0.49 |
| Youth age at RA | | | | | 0.50 |
| 14 | 35.5 | 35.4 | 35.7 | -0.3 | |
| 15 | 30.1 | 27.8 | 32.0 | -4.2 | |
| 16 | 34.4 | 36.8 | 32.3 | 4.5 | |
| Average age at RA | 15.4 | 15.5 | 15.4 | 0.1 | 0.41 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 96.9 | 96.8 | 97.0 | -0.2 | 0.90 |
| Prefers English for spoken language | 96.9 | 96.8 | 97.0 | -0.2 | 0.90 |
| Youth living arrangement at SSI application | | | | | 0.22 |
| In parents' household | 86.0 | 83.2 | 88.3 | -5.2 | |
| Own household or alone | 13.0 | 15.3 | 11.0 | 4.3 | |
| Another household and receiving support | 1.0 | 1.5 | 0.7 | 0.8 | |
| Youth race and ethnicity | | | | | 0.93 |
| Non-Hispanic White | 17.5 | 17.4 | 17.6 | -0.2 | |
| Non-Hispanic Black | 46.5 | 45.4 | 47.5 | -2.1 | |
| Hispanic | 6.5 | 6.8 | 6.3 | 0.6 | |
| Non-Hispanic American Indian | 0.8 | 0.9 | 0.7 | 0.2 | |
| Non-Hispanic other or mixed race | 5.3 | 6.5 | 4.3 | 2.2 | |
| Missing | 23.4 | 23.0 | 23.7 | -0.6 | |
| Enrolling parent age at RA | 42.3 | 42.6 | 42.0 | 0.7 | 0.42 |
| Parent race and ethnicity | | | | | 0.47 |
| Non-Hispanic White | 21.9 | 22.7 | 21.2 | 1.5 | |
| Non-Hispanic Black | 50.1 | 47.8 | 52.1 | -4.3 | |
| Hispanic | 6.5 | 8.1 | 5.1 | 3.0 | |
| Non-Hispanic American Indian | 0.7 | 1.1 | 0.3 | 0.8 | |
| Non-Hispanic other or mixed race | 4.0 | 5.0 | 3.2 | 1.7 | |
| Missing | 16.8 | 15.4 | 18.1 | -2.7 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.85 |
| Intellectual or developmental disability | 42.3 | 43.1 | 41.7 | 1.4 | |
| Speech, hearing, or visual impairment | 1.5 | 1.9 | 1.3 | 0.6 | |
| Physical disability | 11.3 | 12.6 | 10.3 | 2.3 | |
| Other mental impairment | 42.7 | 40.5 | 44.7 | -4.2 | |
| Other or unknown disability | 2.0 | 2.0 | 2.1 | -0.0 | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 95.3 | 93.4 | 96.8 | -3.4* | 0.09 |
| Received OASDI | 12.3 | 13.2 | 11.6 | 1.6 | 0.59 |
| Years between youth's earliest SSI eligibility and RA | 9.1 | 9.0 | 9.2 | -0.2 | 0.61 |
| Youth age at most recent SSI application | 6.9 | 6.9 | 6.8 | 0.1 | 0.89 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,319 | 7,389 | 7,259 | 130 | 0.52 |
| OASDI | 351 | 378 | 329 | 49 | 0.66 |
| Total SSI and OASDI | 7,670 | 7,767 | 7,588 | 179 | 0.30 |
| Household had multiple SSI-eligible children | 26.0 | 23.1 | 28.5 | -5.5 | 0.19 |
| Enrolling parent provided a valid SSN at RA | 89.3 | 87.5 | 90.8 | -3.4 | 0.25 |
| Parents included in the administrative data | | | | | 0.14 |
| None | 2.9 | 4.3 | 1.7 | 2.6 | |
| One parent | 64.0 | 60.6 | 66.9 | -6.2 | |
| Two parents | 33.1 | 35.1 | 31.4 | 3.7 | |
| Parent SSA payment status at RA | | | | | 0.45 |
| Any parent received SSI only | 7.8 | 7.4 | 8.1 | -0.8 | |
| Any parent received OASDI only | 7.7 | 8.2 | 7.3 | 0.9 | |
| Any parent received both SSI and OASDI | 8.2 | 9.1 | 7.4 | 1.7 | |
| No parent received any SSA payments | 73.5 | 71.1 | 75.5 | -4.4 | |
| No parent was included in the SSA data analyses | 2.9 | 4.3 | 1.7 | 2.6 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 0.4 | 0.4 | 0.4 | 0.0 | 0.99 |
| Youth earnings in the calendar year before RA (\$) | 13 | 1 | 22 | -21 | 0.35 |
| Parent had earnings in the calendar year before RA | 72.1 | 75.7 | 69.2 | 6.5 | 0.12 |
| Parent earnings in the calendar year before RA (\$) | 15,075 | 15,336 | 14,859 | 478 | 0.75 |
| Number of youth | 483 | 224 | 259 | | |

Note: The sample includes all youth who completed the PROMISE five-year youth survey by proxy. We weighted the statistics to adjust for survey nonresponse. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a chi-square test.

2. Differences between survey respondents and nonrespondents

We compared youth and parent survey respondents with nonrespondents across 25 baseline characteristics to assess the extent to which survey nonresponse might limit generalizability of the impact findings to all evaluation enrollees (Appendix Tables C.5 and C.6). Youth survey respondents differed from nonrespondents with respect to youth sex and age at RA, enrolling parent age at RA, the years between youth's earliest SSI eligibility and RA, the share of households with multiple SSI-eligible children, youth OASDI payments in the year before RA, and the share of parents with any earnings in the year before RA. Parent survey respondents differed from nonrespondents with respect to youth's earliest SSI eligibility and RA, the share of parents with any earnings in the year before RA. Parent survey respondents differed from nonrespondents with respect to youth sex, enrolling parent age at RA, the years between youth's earliest SSI eligibility and RA, and youth age at most recent SSI application. Overall, even when the differences were statistically significant, they generally were small. The extent and magnitude of the differences suggested that the respondents were not markedly different from the nonrespondents. To account for survey nonresponse, we calculated and used survey weights in all regression models to estimate impacts on the survey-based outcome measures.

Appendix Table C.5. Arkansas PROMISE: Baseline characteristics of youth survey respondents and nonrespondents (percentages, unless otherwise noted)

| | All | | Nonrespondents | | <i>p</i> - |
|--|------|------|----------------|---------|------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | value |
| Demographic characteristics | | | | | |
| Youth is female | 33.6 | 35.4 | 26.4 | 9.0*** | 0.00 |
| Youth age at RA | | | | | 0.25 |
| 14 | 38.3 | 39.3 | 34.6 | 4.7 | |
| 15 | 27.5 | 27.0 | 29.7 | -2.7 | |
| 16 | 34.1 | 33.7 | 35.7 | -2.0 | |
| Average age at RA | 15.4 | 15.4 | 15.5 | -0.1* | 0.09 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 97.5 | 97.4 | 98.1 | -0.7 | 0.39 |
| Prefers English for spoken language | 97.5 | 97.3 | 98.1 | -0.8 | 0.35 |
| Youth living arrangement at SSI application | | | | †† | 0.02 |
| In parents' household | 86.7 | 85.7 | 90.7 | -5.0 | |
| Own household or alone | 12.1 | 13.2 | 8.0 | 5.2 | |
| Another household and receiving support | 1.2 | 1.1 | 1.4 | -0.3 | |
| Youth race and ethnicity | | | | ††† | 0.00 |
| Non-Hispanic White | 18.1 | 19.2 | 14.0 | 5.1 | |
| Non-Hispanic Black | 47.4 | 50.9 | 33.5 | 17.4 | |
| Hispanic | 6.6 | 7.1 | 4.7 | 2.5 | |
| Non-Hispanic American Indian | 0.8 | 0.8 | 0.5 | 0.3 | |
| Non-Hispanic other or mixed race | 6.8 | 7.2 | 4.9 | 2.3 | |
| Missing | 20.3 | 14.8 | 42.3 | -27.5 | |
| Enrolling parent age at RA | 41.9 | 42.5 | 39.8 | 2.7*** | 0.00 |
| Parent race and ethnicity | | | | ††† | 0.00 |
| Non-Hispanic White | 22.6 | 24.0 | 17.0 | 7.0 | |
| Non-Hispanic Black | 50.0 | 52.6 | 39.8 | 12.8 | |
| Hispanic | 5.2 | 5.6 | 3.6 | 2.0 | |
| Non-Hispanic American Indian | 0.8 | 0.8 | 0.5 | 0.3 | |
| Non-Hispanic other or mixed race | 5.0 | 5.4 | 3.3 | 2.1 | |
| Missing | 16.4 | 11.5 | 35.7 | -24.2 | |
| Disability | | | | | |
| Youth primary impairment | | | | †† | 0.01 |
| Intellectual or developmental disability | 41.9 | 43.0 | 37.9 | 5.0 | |
| Speech, hearing, or visual impairment | 1.1 | 1.1 | 0.8 | 0.3 | |
| Physical disability | 9.4 | 10.3 | 6.0 | 4.2 | |
| Other mental impairment | 44.7 | 42.8 | 52.2 | -9.4 | |
| Other or unknown disability | 2.9 | 2.8 | 3.0 | -0.2 | |

| Baseline characteristic | All (A) | Respondents (B) | Nonrespondents (C) | Difference (B – C) | <i>p-</i> value |
|---|------------|--------------------|-----------------------|-----------------------|--------------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 94.0 | 94.1 | 93.7 | 0.4 | 0.77 |
| Received OASDI | 14.7 | 15.3 | 12.4 | 2.9 | 0.14 |
| Years between youth's earliest SSI eligibility and RA | 8.7 | 8.8 | 8.4 | 0.4* | 0.08 |
| Youth age at most recent SSI application | 7.1 | 7.1 | 7.5 | -0.4 | 0.11 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,217 | 7,192 | 7,316 | -123 | 0.34 |
| OASDI | 414 | 441 | 309 | 132** | 0.04 |
| Total SSI and OASDI | 7,632 | 7,633 | 7,625 | 9 | 0.94 |
| Household had multiple SSI-eligible children | 28.1 | 26.8 | 33.0 | -6.2** | 0.02 |
| Enrolling parent provided a valid SSN at RA | 90.4 | 90.5 | 90.1 | 0.4 | 0.83 |
| Parents included in the administrative data | | | | | 0.27 |
| None | 1.8 | 2.0 | 0.8 | 1.2 | |
| One parent | 63.4 | 63.6 | 62.9 | 0.7 | |
| Two parents | 34.8 | 34.4 | 36.3 | -1.8 | |
| Parent SSA payment status at RA | | | | † | 0.10 |
| Any parent received SSI only | 9.8 | 9.6 | 10.4 | -0.8 | |
| Any parent received OASDI only | 11.5 | 12.3 | 8.2 | 4.0 | |
| Any parent received both SSI and OASDI | 7.6 | 7.7 | 7.1 | 0.6 | |
| No parent received any SSA payments | 69.4 | 68.4 | 73.4 | -5.0 | |
| No parent was included in the SSA data analyses | 1.8 | 2.0 | 0.8 | 1.2 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 0.8 | 0.7 | 1.4 | -0.7 | 0.29 |
| Youth earnings in the calendar year before RA (\$) | 14 | 8 | 37 | -29 | 0.17 |
| Parent had earnings in the calendar year before RA | 70.9 | 69.6 | 75.9 | -6.3** | 0.01 |
| Parent earnings in the calendar year before RA (\$) | 15,623 | 15,635 | 15,579 | 55 | 0.96 |
| Number of youth | 1,805 | 1,441 | 364 | | |

Note: The sample includes all youth who enrolled in PROMISE. Nonrespondents include youth ineligible for the survey because they died or withdrew from the study. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (p-value is less than .10/.05/.01) using a two-tailed t-test.

+/++/+++ Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

Appendix Table C.6. Arkansas PROMISE: Baseline characteristics of parent survey respondents and nonrespondents (percentages, unless otherwise noted)

| Beeline chance to visit | All | Respondents | | | <i>p</i> - |
|--|------|-------------|------|-------------|------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | value |
| Demographic characteristics | | | | | |
| Youth is female | 33.6 | 34.7 | 29.9 | 4.8* | 0.06 |
| Youth age at RA | | | | | 0.39 |
| 14 | 38.3 | 39.1 | 35.7 | 3.4 | |
| 15 | 27.5 | 26.9 | 29.6 | -2.7 | |
| 16 | 34.1 | 34.0 | 34.7 | -0.8 | |
| Average age at RA | 15.4 | 15.4 | 15.4 | -0.0 | 0.42 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 97.5 | 97.3 | 98.1 | -0.7 | 0.38 |
| Prefers English for spoken language | 97.5 | 97.3 | 98.1 | -0.8 | 0.33 |
| Youth living arrangement at SSI application | | | | | 0.86 |
| In parents' household | 86.7 | 86.5 | 87.4 | -0.9 | |
| Own household or alone | 12.1 | 12.3 | 11.7 | 0.6 | |
| Another household and receiving support | 1.2 | 1.2 | 1.0 | 0.2 | |
| Youth race and ethnicity | | | | <u>+</u> ++ | 0.00 |
| Non-Hispanic White | 18.1 | 18.6 | 16.5 | 2.1 | |
| Non-Hispanic Black | 47.4 | 52.1 | 31.3 | 20.8 | |
| Hispanic | 6.6 | 7.2 | 4.9 | 2.3 | |
| Non-Hispanic American Indian | 0.8 | 0.9 | 0.5 | 0.4 | |
| Non-Hispanic other or mixed race | 6.8 | 7.1 | 5.6 | 1.5 | |
| Missing | 20.3 | 14.1 | 41.3 | -27.1 | |
| Enrolling parent age at RA | 41.9 | 42.2 | 41.1 | 1.0** | 0.05 |
| Parent race and ethnicity | | | | <u>+</u> ++ | 0.00 |
| Non-Hispanic White | 22.6 | 23.5 | 19.4 | 4.1 | |
| Non-Hispanic Black | 50.0 | 53.8 | 37.4 | 16.4 | |
| Hispanic | 5.2 | 5.5 | 4.4 | 1.1 | |
| Non-Hispanic American Indian | 0.8 | 0.7 | 1.0 | -0.3 | |
| Non-Hispanic other or mixed race | 5.0 | 5.2 | 4.1 | 1.1 | |
| Missing | 16.4 | 11.3 | 33.7 | -22.5 | |
| Disability | | | | | |
| Youth primary impairment | | | | <u>†††</u> | 0.00 |
| Intellectual or developmental disability | 41.9 | 43.5 | 36.7 | 6.9 | |
| Speech, hearing, or visual impairment | 1.1 | 1.0 | 1.2 | -0.2 | |
| Physical disability | 9.4 | 10.4 | 6.1 | 4.3 | |
| Other mental impairment | 44.7 | 42.4 | 52.4 | -10.0 | |
| Other or unknown disability | 2.9 | 2.7 | 3.6 | -1.0 | |

| Baseline characteristic | All (A) | Respondents (B) | Nonrespondents (C) | Difference (B – C) | <i>p-</i> value |
|---|------------|--------------------|-----------------------|-----------------------|--------------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 94.0 | 94.1 | 93.7 | 0.4 | 0.75 |
| Received OASDI | 14.7 | 14.4 | 15.5 | -1.1 | 0.58 |
| Years between youth's earliest SSI eligibility and RA | 8.7 | 8.8 | 8.2 | 0.6*** | 0.01 |
| Youth age at most recent SSI application | 7.1 | 7.0 | 7.5 | -0.5** | 0.04 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,217 | 7,196 | 7,288 | -91 | 0.47 |
| OASDI | 414 | 426 | 375 | 51 | 0.44 |
| Total SSI and OASDI | 7,632 | 7,622 | 7,663 | -40 | 0.71 |
| Household had multiple SSI-eligible children | 28.1 | 27.4 | 30.2 | -2.7 | 0.29 |
| Enrolling parent provided a valid SSN at RA | 90.4 | 90.9 | 88.8 | 2.0 | 0.24 |
| Parents included in the administrative data | | | | | 0.86 |
| None | 1.8 | 1.8 | 1.7 | 0.1 | |
| One parent | 63.4 | 63.7 | 62.4 | 1.4 | |
| Two parents | 34.8 | 34.5 | 35.9 | -1.5 | |
| Parent SSA payment status at RA | | | | | 0.78 |
| Any parent received SSI only | 9.8 | 9.4 | 11.2 | -1.8 | |
| Any parent received OASDI only | 11.5 | 11.3 | 12.1 | -0.9 | |
| Any parent received both SSI and OASDI | 7.6 | 7.8 | 6.8 | 1.0 | |
| No parent received any SSA payments | 69.4 | 69.7 | 68.2 | 1.5 | |
| No parent was included in the SSA data analyses | 1.8 | 1.8 | 1.7 | 0.1 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 0.8 | 0.8 | 1.0 | -0.2 | 0.74 |
| Youth earnings in the calendar year before RA (\$) | 14 | 15 | 12 | 3 | 0.78 |
| Parent had earnings in the calendar year before RA | 70.9 | 70.4 | 72.6 | -2.2 | 0.39 |
| Parent earnings in the calendar year before RA (\$) | 15,623 | 15,817 | 14,970 | 847 | 0.37 |
| Number of youth | 1,805 | 1,393 | 412 | | |

Note: The sample includes the parents who were eligible for the survey. Nonrespondents include parents ineligible for the survey because they died or withdrew from the study. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a chi-square test.

3. Differences between self-reporting and proxy youth respondents

We compared the baseline characteristics of youth who self-responded to the survey to those who responded via proxies to assess whether systematically missing data from different survey modes might affect the estimated impacts on survey-based outcomes (Appendix Table C.7). We found differences in 3 out of 25 baseline characteristics by survey response type. Compared with self-respondents, youth with proxy respondents were less likely to be female and have received OASDI at RA, and they had more years between their earliest SSI eligibility and RA. Because the number of differences is small (that is, about the same as we might expect to occur by chance), we can reasonably expect that the findings for survey-based outcomes that are available only for self-respondents generalize to all survey respondents.

Appendix Table C.7. Arkansas PROMISE: Baseline characteristics of proxy and self-reporting youth survey respondents (percentages, unless otherwise noted)

| Baseline characteristic | All (A) | Proxy respondent (B) | Self- reporting respondent (C) | Difference (B – C) | <i>p</i> -value |
|--|------------|----------------------------|---|-----------------------|-----------------|
| Demographic characteristics | | | | | |
| Youth is female | 34.0 | 26.9 | 37.6 | -10.7*** | 0.00 |
| Youth age at RA | | | | | 0.12 |
| 14 | 38.8 | 35.5 | 40.5 | -4.9 | |
| 15 | 27.1 | 30.1 | 25.6 | 4.5 | |
| 16 | 34.1 | 34.4 | 33.9 | 0.4 | |
| Average age at RA | 15.4 | 15.4 | 15.4 | 0.0 | 0.43 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 97.6 | 96.9 | 98.0 | -1.1 | 0.21 |
| Prefers English for spoken language | 97.5 | 96.9 | 97.9 | -1.0 | 0.25 |
| Youth living arrangement at SSI application | | | | | 0.88 |
| In parents' household | 86.6 | 86.0 | 86.9 | -0.9 | |
| Own household or alone | 12.4 | 13.0 | 12.1 | 0.9 | |
| Another household and receiving support | 1.0 | 1.0 | 1.0 | 0.0 | |
| Youth race and ethnicity | | | | | 0.13 |
| Non-Hispanic White | 18.0 | 17.5 | 18.2 | -0.6 | |
| Non-Hispanic Black | 48.2 | 46.5 | 49.1 | -2.6 | |
| Hispanic | 6.6 | 6.5 | 6.6 | -0.1 | |
| Non-Hispanic American Indian | 0.8 | 0.8 | 0.8 | -0.0 | |
| Non-Hispanic other or mixed race | 6.9 | 5.3 | 7.7 | -2.4 | |
| Missing | 19.6 | 23.4 | 17.6 | 5.7 | |
| Enrolling parent age at RA | 42.3 | 42.3 | 42.3 | -0.0 | 0.98 |
| Parent race and ethnicity | | | | | 0.26 |
| Non-Hispanic White | 23.0 | 21.9 | 23.5 | -1.6 | |
| Non-Hispanic Black | 50.9 | 50.1 | 51.4 | -1.3 | |
| Hispanic | 5.3 | 6.5 | 4.7 | 1.8 | |
| Non-Hispanic American Indian | 0.8 | 0.7 | 0.8 | -0.2 | |
| Non-Hispanic other or mixed race | 5.3 | 4.0 | 5.9 | -1.9 | |
| Missing | 14.8 | 16.8 | 13.7 | 3.1 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.57 |
| Intellectual or developmental disability | 42.6 | 42.3 | 42.8 | -0.4 | |
| Speech, hearing, or visual impairment | 1.1 | 1.5 | 0.9 | 0.6 | |
| Physical disability | 10.3 | 11.3 | 9.7 | 1.6 | |
| Other mental impairment | 43.3 | 42.7 | 43.6 | -0.8 | |
| Other or unknown disability | 2.7 | 2.0 | 3.0 | -0.9 | |

| Baseline characteristic | All (A) | Proxy respondent (B) | Self- reporting respondent (C) | Difference (B – C) | <i>p</i> -value |
|---|------------|----------------------------|---|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 94.2 | 95.3 | 93.6 | 1.6 | 0.19 |
| Received OASDI | 14.7 | 12.3 | 16.0 | -3.6* | 0.06 |
| Years between youth's earliest SSI eligibility and RA | 8.7 | 9.1 | 8.5 | 0.6** | 0.01 |
| Youth age at most recent SSI application | 7.1 | 6.9 | 7.3 | -0.4 | 0.11 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,217 | 7,319 | 7,165 | 154 | 0.21 |
| OASDI | 419 | 351 | 454 | -102 | 0.14 |
| Total SSI and OASDI | 7,636 | 7,670 | 7,619 | 52 | 0.62 |
| Household had multiple SSI-eligible children | 27.5 | 26.0 | 28.2 | -2.2 | 0.39 |
| Enrolling parent provided a valid SSN at RA | 90.5 | 89.3 | 91.1 | -1.8 | 0.29 |
| Parents included in the administrative data | | | | | 0.14 |
| None | 1.9 | 2.9 | 1.5 | 1.4 | |
| One parent | 63.4 | 64.0 | 63.0 | 1.0 | |
| Two parents | 34.7 | 33.1 | 35.5 | -2.4 | |
| Parent SSA payment status at RA | | | | <u>+</u> ++ | 0.00 |
| Any parent received SSI only | 9.7 | 7.8 | 10.6 | -2.8 | |
| Any parent received OASDI only | 11.8 | 7.7 | 13.9 | -6.2 | |
| Any parent received both SSI and OASDI | 7.5 | 8.2 | 7.1 | 1.0 | |
| No parent received any SSA payments | 69.1 | 73.5 | 66.9 | 6.6 | |
| No parent was included in the SSA data analyses | 1.9 | 2.9 | 1.5 | 1.4 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 0.7 | 0.4 | 0.9 | -0.5 | 0.25 |
| Youth earnings in the calendar year before RA (\$) | 9 | 13 | 7 | 5 | 0.67 |
| Parent had earnings in the calendar year before RA | 70.0 | 72.1 | 68.9 | 3.2 | 0.22 |
| Parent earnings in the calendar year before RA (\$) | 15,630 | 15,075 | 15,910 | -835 | 0.38 |
| Number of youth | 1,441 | 483 | 958 | | |

Note: The sample includes all PROMISE five-year youth survey respondents. We weighted the statistics to adjust for survey nonresponse. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a chi-square test.

B. Findings from the impact analysis

In this section, we present findings from the impact analysis of Arkansas PROMISE. First, we present impacts estimated through the main models. Second, we present the results of sensitivity analyses. Third, we present impacts for key subgroups of evaluation enrollees.

1. Impact estimates

Appendix Tables C.8–C.17 provide results and inference statistics for the regression-adjusted impacts estimated through the main models described in Appendix B. For each outcome measure, we report the estimated regression-adjusted impact; the control group mean (weighted, as applicable); and additional inference statistics, such as standard errors, effect sizes, and sample sizes by treatment status.

Appendix Table C.8. Arkansas PROMISE: Impact on the youth's education and training (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group sample size | Control group sample size |
|--|-----------------|--------|-----------------|-------------------|-------------|--------------------------------------|------------------------------------|
| Primary outcomes | | | | | | | |
| Enrolled in an educational or training program | 29.0 | -1.7 | 0.49 | 2.4 | -0.050 | 702 | 670 |
| Has a GED, high school diploma, or certificate of completion | 78.9 | -2.2 | 0.31 | 2.2 | -0.078 | 731 | 706 |
| Supplementary outcomes | | | | | | | |
| Enrolled in postsecondary education | 12.5 | -1.2 | 0.50 | 1.7 | -0.067 | 727 | 699 |
| Type of school attending | | | | | | | |
| High school serving a variety of students | 4.8 | 0.2 | 0.88 | 1.1 | 0.023 | 727 | 699 |
| High school serving only students with disabilities | 0.8 | -0.1 | 0.85 | 0.5 | -0.071 | 727 | 699 |
| GED program or other adult education program | 2.5 | -0.4 | 0.59 | 0.8 | -0.118 | 727 | 699 |
| Postsecondary vocational, trade, or technical school | 1.8 | 0.7 | 0.36 | 0.8 | 0.203 | 727 | 699 |
| Postsecondary college or advanced degree program | 10.6 | -1.9 | 0.24 | 1.6 | -0.129 | 727 | 699 |
| Other type of school | 2.0 | -0.8 | 0.25 | 0.7 | -0.313 | 727 | 699 |
| Not attending school | 77.4 | 2.3 | 0.29 | 2.1 | 0.082 | 727 | 699 |
| Highest grade completed | | | | | | | |
| Lower than 12th grade | 20.6 | 0.7 | 0.73 | 2.1 | 0.027 | 733 | 708 |
| 12th grade or senior in high school | 68.6 | 0.2 | 0.92 | 2.5 | 0.007 | 733 | 708 |
| Some or all of college or university | 9.9 | -1.3 | 0.41 | 1.5 | -0.091 | 733 | 708 |
| Other or do not know | 0.9 | 0.3 | 0.62 | 0.6 | 0.162 | 733 | 708 |
| Enrolled in a training program | 8.3 | 0.8 | 0.61 | 1.6 | 0.061 | 698 | 661 |
| Received any training credential in the past year | 9.7 | 2.3 | 0.17 | 1.7 | 0.145 | 728 | 699 |
| Any school suspensions or expulsions in the past year | 2.1 | 1.2 | 0.19 | 0.9 | 0.274 | 697 | 664 |

| Outcome | Control mean | Impact | <i>p-</i> value | Standard error | Effect size | Treatment group sample size | Control group sample size |
|--|-----------------|--------|-----------------|-------------------|-------------|--------------------------------------|------------------------------------|
| Accommodations | | | | | | | |
| Receives educational accommodation | 12.2 | -2.2 | 0.19 | 1.6 | -0.135 | 727 | 699 |
| Receives training accommodation | 3.9 | 1.4 | 0.24 | 1.2 | 0.188 | 698 | 660 |
| Received supports or services for postsecondary education in the past year | 18.3 | 3.9* | 0.07 | 2.1 | 0.146 | 729 | 700 |

Source: PROMISE five-year surveys.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of Arkansas PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

GED = General Educational Development.

Appendix Table C.9. Arkansas PROMISE: Impact on the youth's employment and earnings (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|---------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Employed in a paid job in the past year ^a | 48.6 | 3.3 | 0.21 | 2.7 | 0.080 | 733 | 708 |
| Earnings in the past year (\$) | 5,198 | -51 | 0.91 | 475 | -0.006 | 733 | 708 |
| Earnings during the five calendar years after RA (\$) | 13,359 | 830 | 0.32 | 828 | 0.045 | 904 | 901 |
| Supplementary outcomes | 1 | | | | | | |
| Employment in the past year | | | | | | | |
| Any employment | 51.2 | 3.3 | 0.22 | 2.6 | 0.079 | 733 | 708 |
| Weekly hours worked | 8.9 | 0.2 | 0.77 | 0.8 | 0.016 | 733 | 708 |
| Employed in a paid job offering fringe benefits | 29.1 | 0.9 | 0.70 | 2.5 | 0.028 | 733 | 708 |
| Employment settings | | | | | | | |
| Integrated | 41.9 | 0.2 | 0.94 | 2.7 | 0.005 | 733 | 708 |
| Outside of school-sponsored activities | 44.7 | 2.7 | 0.31 | 2.7 | 0.066 | 733 | 708 |
| With coaching | 6.9 | 1.4 | 0.35 | 1.5 | 0.122 | 733 | 708 |
| Received supports or services in getting or keeping a job | 15.7 | 4.3** | 0.04 | 2.1 | 0.177 | 732 | 699 |
| Employment at the time of the survey | | | | | | | |
| Any paid employment | 30.2 | 4.2* | 0.09 | 2.5 | 0.117 | 733 | 708 |
| Average weekly earnings (\$) | 107 | 9 | 0.39 | 11 | 0.046 | 733 | 708 |
| Weekly hours worked | 9.5 | 1.0 | 0.26 | 0.9 | 0.061 | 733 | 708 |
| Labor force participation | 60.8 | 2.2 | 0.40 | 2.6 | 0.056 | 733 | 708 |
| Employment and earnings in calendar years after RA | | | | | | | |
| Ever employed in Year 1 | 15.5 | 40.5*** | 0.00 | 2.0 | 1.174 | 904 | 901 |
| Ever employed in Year 2 | 29.2 | 23.2*** | 0.00 | 2.1 | 0.595 | 904 | 901 |
| Ever employed in Year 3 | 44.4 | 17.0*** | 0.00 | 2.3 | 0.417 | 904 | 901 |
| Ever employed in Year 4 | 55.7 | 1.7 | 0.45 | 2.3 | 0.042 | 904 | 901 |
| Ever employed in Year 5 | 59.2 | 2.6 | 0.25 | 2.3 | 0.066 | 904 | 901 |
| Ever employed during Years 1-5 | 72.9 | 17.7*** | 0.00 | 1.7 | 0.774 | 904 | 901 |
| Earnings in Year 1 (\$) | 350 | 639*** | 0.00 | 56 | 0.492 | 904 | 901 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|---------|-----------------|-------------------|-------------|----------------------|--------------------|
| Earnings in Year 2 (\$) | 1,126 | 272** | 0.02 | 118 | 0.104 | 904 | 901 |
| Earnings in Year 3 (\$) | 2,354 | 108 | 0.58 | 195 | 0.025 | 904 | 901 |
| Earnings in Year 4 (\$) | 3,929 | -132 | 0.64 | 282 | -0.021 | 904 | 901 |
| Earnings in Year 5 (\$) | 5,600 | -57 | 0.88 | 367 | -0.007 | 904 | 901 |
| VR services during the 5 years after RA ^a | | | | | | | |
| Applied for VR services | 15.6 | 13.1*** | 0.00 | 1.9 | 0.470 | 904 | 901 |
| Received VR services | 10.5 | 8.6*** | 0.00 | 1.6 | 0.424 | 904 | 901 |

Source: PROMISE five-year survey, RSA-911 data (VR service outcomes), and SSA administrative records (employment and earnings in years after RA).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of Arkansas PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

^a RSA-911 data are available only through 2020. VR services outcomes used only four years of data for youth who enrolled in PROMISE in 2016.

N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration; VR = vocational rehabilitation.

Appendix Table C.10. Arkansas PROMISE: Impact on the youth's self-determination and expectations (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Self-determination score (scale: 0 to 100) ^a | 78.7 | 0.1 | 0.93 | 0.9 | 0.006 | 479 | 421 |
| Youth expects to be financially independent at age 25 | 62.6 | 0.6 | 0.84 | 3.2 | 0.017 | 500 | 439 |
| Supplementary outcomes | | | | | | | |
| Scores on subdomains of self-determination ^a | | | | | | | |
| Autonomy (scale: 0 to 300) | 136.4 | 5.7 | 0.15 | 4.0 | 0.096 | 479 | 420 |
| Psychological empowerment (scale: 0 to 100) | 87.0 | -0.1 | 0.96 | 1.4 | -0.003 | 476 | 421 |
| Self-realization (scale: 0 to 100) | 91.9 | -1.1 | 0.28 | 1.0 | -0.072 | 478 | 421 |
| Agentic action (scale: 0 to 100) | 90.4 | -0.1 | 0.94 | 1.4 | -0.005 | 479 | 420 |
| Youth expects to: | | | | | | | |
| Get postsecondary education (beyond high school/GED) | 60.3 | -6.4* | 0.05 | 3.3 | -0.158 | 481 | 425 |
| Live independently at age 25 | 74.0 | 0.9 | 0.74 | 2.9 | 0.030 | 489 | 434 |
| Be employed in a paid job at age 25 | 85.3 | 0.5 | 0.83 | 2.3 | 0.025 | 502 | 443 |
| Parent expects youth to: | | | | | | | |
| Get postsecondary education (beyond high school/GED) | 41.5 | 1.6 | 0.56 | 2.7 | 0.039 | 656 | 629 |
| Live independently at age 25 | 58.3 | -1.5 | 0.57 | 2.7 | -0.038 | 657 | 641 |
| Be financially independent at age 25 | 54.5 | 3.6 | 0.19 | 2.7 | 0.088 | 670 | 651 |
| Be employed in a paid job at age 25 | 80.0 | 2.5 | 0.25 | 2.1 | 0.098 | 670 | 658 |
| Parent believes it important that youth be employed eventually | 92.5 | 0.4 | 0.77 | 1.5 | 0.039 | 647 | 634 |

Source: PROMISE five-year survey.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of Arkansas PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

^a Higher scores on the scales indicate higher levels of self-determination.

GED = General Educational Development; N = sample size.

Appendix Table C.11. Arkansas PROMISE: Impact on the youth's SSA payments and knowledge (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|---------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | incuri | impact | praiac | | | group it | groupit |
| Received SSA payments in Year 5 after RA | 56.3 | -0.4 | 0.86 | 2.2 | -0.010 | 904 | 901 |
| Total SSA payments in Year 5 after RA (\$) | 4,210 | -65 | 0.73 | 189 | -0.015 | 904 | 901 |
| Total SSA payments during Years 1–5 after RA (\$) | 31,146 | -462 | 0.43 | 585 | -0.033 | 904 | 901 |
| Supplementary outcomes | | | | | | | |
| Aware of the following SSA policies | | | | | | | |
| Children receiving SSI are not automatically eligible for SSI as adults | 46.7 | -2.3 | 0.51 | 3.4 | -0.055 | 474 | 419 |
| People receiving SSI can work for pay | 67.3 | -2.2 | 0.50 | 3.2 | -0.059 | 475 | 419 |
| People receiving SSI must report earnings to SSA | 73.9 | 6.7** | 0.02 | 2.9 | 0.230 | 473 | 419 |
| Aware of the following work supports | | | | | | | |
| SSI Student Earned Income Exclusion | 6.8 | 7.8*** | 0.00 | 2.1 | 0.517 | 475 | 420 |
| SSI earned income exclusion | 7.2 | 2.0 | 0.27 | 1.8 | 0.163 | 475 | 420 |
| SSI PASS plan | 6.1 | 4.2** | 0.03 | 1.9 | 0.343 | 475 | 420 |
| ABLE account | 4.5 | 33.1*** | 0.00 | 2.5 | 1.547 | 475 | 420 |
| SSA payments in years after RA | | | | | | | |
| Received any in Year 1 | 97.7 | -0.3 | 0.60 | 0.6 | -0.073 | 904 | 901 |
| Received any in Year 2 | 92.7 | -1.0 | 0.42 | 1.2 | -0.081 | 904 | 901 |
| Received any in Year 3 | 83.9 | -1.8 | 0.28 | 1.7 | -0.079 | 904 | 901 |
| Received any in Year 4 | 70.4 | -0.4 | 0.84 | 2.0 | -0.012 | 904 | 901 |
| Received any in Years 1–5 | 98.0 | -0.2 | 0.69 | 0.5 | -0.065 | 904 | 901 |
| Amount in Year 1 (\$) | 8,086 | -118 | 0.16 | 84 | -0.047 | 904 | 901 |
| Amount in Year 2 (\$) | 7,352 | -209* | 0.10 | 127 | -0.068 | 904 | 901 |
| Amount in Year 3 (\$) | 6,308 | -45 | 0.78 | 161 | -0.012 | 904 | 901 |
| Amount in Year 4 (\$) | 5,191 | -24 | 0.89 | 178 | -0.006 | 904 | 901 |

| | Control | | | Standard | | Treatment | Control |
|------------------------------------|---------|--------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p</i> -value | error | Effect size | group N | group N |
| SSI payments in years after RA | | | | | | | |
| Received any in Year 1 | 96.9 | -0.2 | 0.73 | 0.5 | -0.035 | 904 | 901 |
| Received any in Year 2 | 90.5 | -0.9 | 0.50 | 1.3 | -0.058 | 904 | 901 |
| Received any in Year 3 | 79.2 | -0.3 | 0.87 | 1.8 | -0.011 | 904 | 901 |
| Received any in Year 4 | 66.4 | 0.7 | 0.75 | 2.1 | 0.018 | 904 | 901 |
| Received any in Year 5 | 53.5 | 0.7 | 0.77 | 2.2 | 0.016 | 904 | 901 |
| Received any in Years 1–5 | 97.2 | -0.1 | 0.83 | 0.5 | -0.025 | 904 | 901 |
| Amount in Year 1 (\$) | 7,556 | -117 | 0.26 | 104 | -0.041 | 904 | 901 |
| Amount in Year 2 (\$) | 6,796 | -241* | 0.08 | 139 | -0.073 | 904 | 901 |
| Amount in Year 3 (\$) | 5,744 | -57 | 0.73 | 167 | -0.015 | 904 | 901 |
| Amount in Year 4 (\$) | 4,727 | 18 | 0.92 | 179 | 0.005 | 904 | 901 |
| Amount in Year 5 (\$) | 3,865 | -62 | 0.74 | 183 | -0.015 | 904 | 901 |
| Total amount during Years 1–5 (\$) | 28,688 | -458 | 0.46 | 621 | -0.031 | 904 | 901 |
| OASDI benefits in years after RA | | | | | | | |
| Received any in Year 1 | 15.9 | -0.2 | 0.89 | 1.6 | -0.010 | 904 | 901 |
| Received any in Year 2 | 16.9 | 0.3 | 0.84 | 1.6 | 0.014 | 904 | 901 |
| Received any in Year 3 | 16.2 | -0.3 | 0.83 | 1.6 | -0.016 | 904 | 901 |
| Received any in Year 4 | 13.5 | -1.4 | 0.36 | 1.5 | -0.075 | 904 | 901 |
| Received any in Year 5 | 9.0 | -0.3 | 0.80 | 1.3 | -0.025 | 904 | 901 |
| Received any in Years 1–5 | 19.5 | 0.8 | 0.67 | 1.8 | 0.029 | 904 | 901 |
| Amount in Year 1 (\$) | 530 | -2 | 0.98 | 73 | -0.001 | 904 | 901 |
| Amount in Year 2 (\$) | 556 | 32 | 0.68 | 76 | 0.019 | 904 | 901 |
| Amount in Year 3 (\$) | 564 | 12 | 0.88 | 81 | 0.007 | 904 | 901 |
| Amount in Year 4 (\$) | 464 | -42 | 0.55 | 70 | -0.028 | 904 | 901 |
| Amount in Year 5 (\$) | 345 | -4 | 0.96 | 71 | -0.002 | 904 | 901 |
| Total amount during Years 1–5 (\$) | 2,458 | -4 | 0.99 | 313 | -0.001 | 904 | 901 |

| Outcome | Control mean | Impact | <i>p-</i> value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Age-18 redetermination status five years after RA | | | | | | | |
| Final decision: benefits ceased | 32.7 | 1.0 | 0.65 | 2.1 | 0.026 | 904 | 901 |
| Final decision: benefits continued | 27.6 | -1.2 | 0.54 | 1.9 | -0.036 | 904 | 901 |
| Final decision is pending | 10.9 | -1.8 | 0.18 | 1.4 | -0.125 | 904 | 901 |
| Did not have an age-18 redetermination | 28.7 | 2.1 | 0.31 | 2.0 | 0.060 | 904 | 901 |

Source: SSA administrative records and PROMISE five-year survey (awareness of work supports and SSA policies).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of Arkansas PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

ABLE = Achieving a Better Life Experience; OASDI = Old-Age, Survivors, and Disability Insurance; PASS = Plan for Achieving Self Support; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income.

Appendix Table C.12. Arkansas PROMISE: Impact on the youth's health insurance coverage and expenditures (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Covered by any health insurance | 81.3 | -5.5** | 0.01 | 2.2 | -0.200 | 703 | 678 |
| Average monthly Medicaid and Medicare expenditures in the five years after RA (\$) | 440 | 2 | 0.94 | 20 | 0.003 | 904 | 901 |
| Supplementary outcomes | | | | | | | |
| Covered by private health insurance | 10.8 | -2.0 | 0.22 | 1.6 | -0.139 | 703 | 678 |
| Covered by private health insurance purchased through an ACA health exchange | 0.7 | -0.6* | 0.08 | 0.3 | -1.303 | 703 | 678 |
| Medicaid and Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 97.6 | 1.5** | 0.02 | 0.6 | 0.575 | 904 | 901 |
| Ever enrolled in Year 2 | 95.3 | -0.6 | 0.59 | 1.0 | -0.072 | 904 | 901 |
| Ever enrolled in Year 3 | 91.7 | 1.0 | 0.44 | 1.3 | 0.084 | 904 | 901 |
| Ever enrolled in Year 4 | 88.1 | -1.4 | 0.37 | 1.6 | -0.077 | 904 | 901 |
| Ever enrolled in Year 5 | 84.2 | -1.2 | 0.47 | 1.7 | -0.055 | 904 | 901 |
| Percentage of months enrolled in Years 1–5 | 85.8 | -0.5 | 0.60 | 1.1 | -0.024 | 904 | 901 |
| Average monthly Medicaid and Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 510 | 20 | 0.33 | 21 | 0.032 | 904 | 901 |
| Year 2 (\$) | 446 | 13 | 0.54 | 21 | 0.023 | 904 | 901 |
| Year 3 (\$) | 357 | 7 | 0.73 | 19 | 0.014 | 904 | 901 |
| Year 4 (\$) | 404 | -23 | 0.52 | 35 | -0.028 | 904 | 901 |
| Year 5 (\$) | 483 | -9 | 0.81 | 40 | -0.010 | 904 | 901 |
| Medicaid participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 97.6 | 1.5** | 0.02 | 0.6 | 0.575 | 904 | 901 |
| Ever enrolled in Year 2 | 95.3 | -0.6 | 0.59 | 1.0 | -0.072 | 904 | 901 |
| Ever enrolled in Year 3 | 91.7 | 1.0 | 0.44 | 1.3 | 0.084 | 904 | 901 |
| Ever enrolled in Year 4 | 87.8 | -1.1 | 0.49 | 1.6 | -0.058 | 904 | 901 |
| Ever enrolled in Year 5 | 83.8 | -0.8 | 0.64 | 1.7 | -0.035 | 904 | 901 |
| Percentage of months enrolled in Years 1–5 | 85.7 | -0.4 | 0.70 | 1.1 | -0.017 | 904 | 901 |

Appendix C Arkansas PROMISE Impacts, Benefits, and Costs

| Outcome | Control mean | Impact | p-value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|--------|---------|-------------------|-------------|----------------------|--------------------|
| Average monthly Medicaid expenditures in years after RA | | | | | | 3.000 | 9.00p.11 |
| Year 1 (\$) | 506 | 22 | 0.32 | 21 | 0.034 | 904 | 901 |
| Year 2 (\$) | 445 | 10 | 0.62 | 21 | 0.019 | 904 | 901 |
| Year 3 (\$) | 357 | -2 | 0.90 | 18 | -0.005 | 904 | 901 |
| Year 4 (\$) | 380 | -19 | 0.43 | 23 | -0.033 | 904 | 901 |
| Year 5 (\$) | 464 | -19 | 0.58 | 33 | -0.024 | 904 | 901 |
| Years 1–5 (\$) | 430 | -2 | 0.93 | 17 | -0.003 | 904 | 901 |
| Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 0.1 | 0.0 | 0.92 | 0.1 | 0.077 | 904 | 901 |
| Ever enrolled in Year 2 | 0.1 | 0.0 | 0.92 | 0.1 | 0.077 | 904 | 901 |
| Ever enrolled in Year 3 | 0.7 | -0.2 | 0.58 | 0.3 | -0.207 | 904 | 901 |
| Ever enrolled in Year 4 | 2.0 | 0.0 | 0.99 | 0.6 | 0.003 | 904 | 901 |
| Ever enrolled in Year 5 | 3.9 | -0.4 | 0.67 | 0.9 | -0.063 | 904 | 901 |
| Percentage of months enrolled in Years 1–5 | 0.9 | 0.1 | 0.83 | 0.3 | 0.010 | 904 | 901 |
| Average monthly Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 4 | -1 | 0.84 | 5 | -0.010 | 904 | 901 |
| Year 2 (\$) | 1 | 3 | 0.45 | 4 | 0.033 | 904 | 901 |
| Year 3 (\$) | 0 | 9 | 0.14 | 6 | 0.069 | 904 | 901 |
| Year 4 (\$) | 23 | -4 | 0.88 | 26 | -0.007 | 904 | 901 |
| Year 5 (\$) | 20 | 9 | 0.65 | 20 | 0.021 | 904 | 901 |
| Years 1–5 (\$) | 10 | 3 | 0.75 | 10 | 0.015 | 904 | 901 |

Source: CMS administrative records and PROMISE five-year survey (non-Medicare/Medicaid outcomes).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of Arkansas PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

ACA = Affordable Care Act; CMS = Centers for Medicare & Medicaid Services; N = sample size; RA = random assignment.

Appendix Table C.13. Arkansas PROMISE: Impact on the youth's economic and social well-being (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|----------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Total income in the past year (\$) | 9,463 | -162 | 0.72 | 457 | -0.019 | 733 | 708 |
| Total income during the five calendar years after RA (\$) | 45,215 | 114 | 0.89 | 854 | 0.006 | 904 | 901 |
| Supplementary outcomes | | | | | | | |
| Engaging in productive market activities ^a | 74.6 | 0.2 | 0.92 | 2.3 | 0.007 | 722 | 688 |
| Income in calendar years after RA | | | | | | | |
| Year 1 (\$) | 8,717 | 388*** | 0.00 | 128 | 0.119 | 904 | 901 |
| Year 2 (\$) | 8,592 | 162 | 0.36 | 178 | 0.040 | 904 | 901 |
| Year 3 (\$) | 8,672 | 37 | 0.87 | 220 | 0.008 | 904 | 901 |
| Year 4 (\$) | 9,237 | -219 | 0.43 | 276 | -0.037 | 904 | 901 |
| Year 5 (\$) | 9,998 | -255 | 0.46 | 348 | -0.034 | 904 | 901 |
| Household income in the past year (\$) ^b | 24,685 | 1,337 | 0.17 | 964 | 0.080 | 617 | 601 |
| Household receives TANF, SNAP, or housing assistance ^b | 37.6 | 0.2 | 0.93 | 2.7 | 0.006 | 637 | 621 |
| Amount of public assistance in the past month | | | | | | | |
| TANF (\$) ^b | 1 | 4 | 0.21 | 3 | 0.069 | 640 | 629 |
| SNAP benefits (\$) ^b | 101 | 19* | 0.10 | 11 | 0.095 | 644 | 625 |
| Housing assistance (\$) ^b | 44 | -1 | 0.94 | 9 | -0.005 | 645 | 625 |
| Family structure and living arrangements | | | | | | | |
| Living independently | 20.0 | 0.5 | 0.83 | 2.1 | 0.017 | 731 | 707 |
| Married or in a marriage-like relationship | 7.2 | 0.5 | 0.72 | 1.4 | 0.045 | 698 | 661 |
| Responsible for a child or children | 14.0 | 2.6 | 0.19 | 2.0 | 0.120 | 693 | 663 |
| Engagement with the criminal justice system | | | | | | | |
| Ever arrested | 15.2 | 0.1 | 0.95 | 2.0 | 0.005 | 693 | 656 |
| Number of times arrested | 0.4 | -0.1 | 0.37 | 0.1 | -0.048 | 693 | 656 |
| Arrested in the past year | 5.3 | 1.1 | 0.38 | 1.3 | 0.125 | 692 | 655 |
| Ever incarcerated | 6.6 | -3.1** | 0.01 | 1.2 | -0.408 | 688 | 654 |
| Length of incarceration (days) | 42.5 | -31.8*** | 0.00 | 8.9 | -0.198 | 688 | 654 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Self-reported health status | | | | | | | |
| Poor | 3.9 | -0.3 | 0.74 | 1.1 | -0.058 | 691 | 662 |
| Fair | 15.5 | 2.5 | 0.22 | 2.1 | 0.110 | 691 | 662 |
| Good | 40.5 | -4.2 | 0.12 | 2.7 | -0.108 | 691 | 662 |
| Very good or excellent | 40.1 | 2.0 | 0.46 | 2.7 | 0.050 | 691 | 662 |
| Received help in getting accommodations for school, work, or living independently in past year | 12.8 | 3.9** | 0.04 | 1.9 | 0.188 | 726 | 700 |

Source: PROMISE five-year surveys and SSA administrative records (SSA payments and income in calendar years after RA).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of Arkansas PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

^a Productive market activities include engaging in any of the following at the time of the five-year survey: employment in paid or unpaid work, looking for work, or enrollment in school or a training program.

^b This outcome is based on data from the parent survey about the parent's household if the youth lived with the parent at interview.

N = sample size; RA = random assignment; SNAP = Supplemental Nutrition Assistance Program; SSA = Social Security Administration; TANF = Temporary Assistance for Needy Families.

Appendix Table C.14. Arkansas PROMISE: Impact on the parents' employment and earnings (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | ,, | |
| Either parent worked for pay in the past year | 65.3 | 1.5 | 0.50 | 2.3 | 0.041 | 700 | 689 |
| Parents' earnings in the past year (\$) | 18,734 | 815 | 0.47 | 1,130 | 0.037 | 700 | 690 |
| Parents' earnings during the five calendar years after RA (\$) | 95,269 | -1,124 | 0.69 | 2,786 | -0.011 | 883 | 890 |
| Supplementary outcomes | | | | | | | |
| Highest educational attainment achieved by either parent | | | | | | | |
| Not a high school graduate | 18.7 | 3.0 | 0.15 | 2.1 | 0.112 | 702 | 691 |
| High school diploma or GED | 39.1 | -1.3 | 0.63 | 2.6 | -0.032 | 702 | 691 |
| Some postsecondary education or more | 41.2 | -1.9 | 0.46 | 2.6 | -0.048 | 702 | 691 |
| Other or do not know | 1.1 | 0.2 | 0.77 | 0.6 | 0.095 | 702 | 691 |
| Employment in the past year | | | | | | | |
| Number of parents that worked for pay | 0.8 | 0.0 | 0.76 | 0.0 | 0.015 | 698 | 688 |
| Number of weeks worked | 35.4 | 0.5 | 0.74 | 1.5 | 0.016 | 698 | 688 |
| Weekly hours worked | 28.2 | 0.4 | 0.76 | 1.3 | 0.015 | 700 | 690 |
| Either parent was offered fringe benefits through a job | 47.9 | -0.5 | 0.86 | 2.6 | -0.011 | 699 | 689 |
| Employment at the time of survey | | | | | | | |
| Either parent is in the labor force | 67.7 | 1.9 | 0.41 | 2.3 | 0.054 | 666 | 658 |
| Either parent is working for pay | 56.4 | -1.2 | 0.64 | 2.6 | -0.029 | 668 | 658 |
| Employment and earnings in calendar years after RA | | | | | | | |
| Ever employed in Year 1 | 71.8 | 0.1 | 0.97 | 1.8 | 0.002 | 883 | 890 |
| Ever employed in Year 2 | 69.6 | 1.1 | 0.55 | 1.8 | 0.031 | 883 | 890 |
| Ever employed in Year 3 | 70.4 | 2.2 | 0.22 | 1.8 | 0.065 | 883 | 890 |
| Ever employed in Year 4 | 71.3 | 1.3 | 0.46 | 1.8 | 0.040 | 883 | 890 |
| Ever employed in Year 5 | 70.0 | -0.4 | 0.81 | 1.9 | -0.013 | 883 | 890 |
| Ever employed in Years 1-5 | 80.1 | 2.1 | 0.18 | 1.6 | 0.084 | 883 | 890 |
| Earnings in Year 1 (\$) | 17,320 | 213 | 0.68 | 510 | 0.011 | 883 | 890 |

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| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|-------------------------|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Earnings in Year 2 (\$) | 18,261 | -379 | 0.53 | 602 | -0.018 | 883 | 890 |
| Earnings in Year 3 (\$) | 19,129 | 66 | 0.92 | 644 | 0.003 | 883 | 890 |
| Earnings in Year 4 (\$) | 20,114 | -447 | 0.52 | 696 | -0.020 | 883 | 890 |
| Earnings in Year 5 (\$) | 20,446 | -577 | 0.46 | 784 | -0.025 | 883 | 890 |

Source: PROMISE five-year survey and SSA administrative records (employment and earnings in years after RA).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of Arkansas PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

GED = General Educational Development; N = sample size; RA = random assignment.

Appendix Table C.15. Arkansas PROMISE: Impact on the parents' SSA payments (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Control | | | Standard | | Treatment | Control |
|--|---------|--------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p</i> -value | error | Effect size | group N | group N |
| Primary outcomes | | | | | | | |
| Either parent received SSA payments in Year 5 | 33.8 | -0.1 | 0.95 | 1.4 | -0.002 | 883 | 890 |
| Total SSA payments received in Year 5 (\$) | 3,760 | -56 | 0.78 | 201 | -0.010 | 883 | 890 |
| Total SSA payments during the five years after RA (\$) | 17,539 | 325 | 0.66 | 735 | 0.012 | 883 | 890 |
| Supplementary outcomes | | | | | | | |
| SSA payments in years after RA | | | | | | | |
| Received any in Year 1 | 30.6 | 0.0 | 0.96 | 0.7 | 0.001 | 883 | 890 |
| Received any in Year 2 | 31.2 | 0.6 | 0.51 | 1.0 | 0.018 | 883 | 890 |
| Received any in Year 3 | 32.1 | 0.8 | 0.52 | 1.2 | 0.021 | 883 | 890 |
| Received any in Year 4 | 32.8 | -0.3 | 0.82 | 1.3 | -0.008 | 883 | 890 |
| Received any in Years 1–5 | 36.6 | 0.8 | 0.52 | 1.3 | 0.022 | 883 | 890 |
| Amount in Year 1 (\$) | 3,247 | 188 | 0.16 | 134 | 0.033 | 883 | 890 |
| Amount in Year 2 (\$) | 3,418 | 198 | 0.26 | 176 | 0.033 | 883 | 890 |
| Amount in Year 3 (\$) | 3,556 | 83 | 0.66 | 187 | 0.014 | 883 | 890 |
| Amount in Year 4 (\$) | 3,558 | -87 | 0.62 | 174 | -0.016 | 883 | 890 |
| SSI payments in years after RA | | | | | | | |
| Received any in Year 1 | 17.0 | 0.9 | 0.19 | 0.7 | 0.038 | 883 | 890 |
| Received any in Year 2 | 17.6 | 0.7 | 0.43 | 0.9 | 0.030 | 883 | 890 |
| Received any in Year 3 | 18.0 | -0.2 | 0.84 | 1.0 | -0.009 | 883 | 890 |
| Received any in Year 4 | 17.8 | -1.9* | 0.07 | 1.1 | -0.083 | 883 | 890 |
| Received any in Year 5 | 18.2 | -1.5 | 0.21 | 1.2 | -0.064 | 883 | 890 |
| Received any in Years 1–5 | 22.0 | 0.4 | 0.77 | 1.2 | 0.012 | 883 | 890 |
| Amount in Year 1 (\$) | 1,142 | 171** | 0.04 | 83 | 0.053 | 883 | 890 |
| Amount in Year 2 (\$) | 1,216 | 129 | 0.20 | 101 | 0.038 | 883 | 890 |
| Amount in Year 3 (\$) | 1,250 | -14 | 0.89 | 104 | -0.004 | 883 | 890 |
| Amount in Year 4 (\$) | 1,212 | -105 | 0.28 | 97 | -0.034 | 883 | 890 |
| Amount in Year 5 (\$) | 1,319 | -161 | 0.15 | 113 | -0.049 | 883 | 890 |
| Total amount during Years 1–5 (\$) | 6,138 | 20 | 0.96 | 404 | 0.001 | 883 | 890 |

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| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|------------------------------------|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| OASDI benefits in years after RA | | | | | | | |
| Received any in Year 1 | 20.7 | -0.3 | 0.64 | 0.7 | -0.012 | 883 | 890 |
| Received any in Year 2 | 21.3 | 0.3 | 0.71 | 0.9 | 0.012 | 883 | 890 |
| Received any in Year 3 | 22.4 | 0.0 | 0.98 | 1.0 | 0.001 | 883 | 890 |
| Received any in Year 4 | 22.9 | -0.3 | 0.79 | 1.1 | -0.010 | 883 | 890 |
| Received any in Year 5 | 23.6 | -0.4 | 0.74 | 1.2 | -0.014 | 883 | 890 |
| Received any in Years 1–5 | 25.4 | 0.7 | 0.59 | 1.2 | 0.021 | 883 | 890 |
| Amount in Year 1 (\$) | 2,105 | 16 | 0.88 | 109 | 0.004 | 883 | 890 |
| Amount in Year 2 (\$) | 2,202 | 69 | 0.60 | 133 | 0.014 | 883 | 890 |
| Amount in Year 3 (\$) | 2,307 | 97 | 0.52 | 151 | 0.019 | 883 | 890 |
| Amount in Year 4 (\$) | 2,347 | 18 | 0.91 | 151 | 0.004 | 883 | 890 |
| Amount in Year 5 (\$) | 2,441 | 105 | 0.54 | 169 | 0.021 | 883 | 890 |
| Total amount during Years 1–5 (\$) | 11,401 | 305 | 0.62 | 624 | 0.013 | 883 | 890 |

Source: SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of Arkansas PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

N = sample size; OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income.

Appendix Table C.16. Arkansas PROMISE: Impact on the parents' health insurance coverage and expenditures (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | ļ | 1 | | | | | |
| Either parent is covered by health insurance | 90.5 | -3.1* | 0.07 | 1.7 | -0.191 | 697 | 685 |
| Average monthly Medicaid and Medicare expenditures in the five years after RA (\$) | 319 | 36** | 0.05 | 18 | 0.063 | 883 | 890 |
| Supplementary outcomes | | | | | | | |
| Covered by private health insurance | 28.9 | -1.0 | 0.69 | 2.4 | -0.029 | 697 | 686 |
| Medicaid and Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 83.6 | 0.2 | 0.92 | 1.6 | 0.007 | 883 | 890 |
| Ever enrolled in Year 2 | 84.0 | 1.2 | 0.46 | 1.6 | 0.055 | 883 | 890 |
| Ever enrolled in Year 3 | 83.4 | -1.0 | 0.56 | 1.7 | -0.042 | 883 | 890 |
| Ever enrolled in Year 4 | 79.9 | -0.8 | 0.67 | 1.8 | -0.028 | 883 | 890 |
| Ever enrolled in Year 5 | 75.6 | 0.6 | 0.74 | 1.9 | 0.021 | 883 | 890 |
| Percentage of months enrolled in Years 1–5 | 76.8 | 0.3 | 0.86 | 1.5 | 0.007 | 883 | 890 |
| Average monthly Medicaid and Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 366 | 18 | 0.27 | 16 | 0.031 | 883 | 890 |
| Year 2 (\$) | 305 | 60*** | 0.01 | 22 | 0.090 | 883 | 890 |
| Year 3 (\$) | 300 | 59** | 0.01 | 24 | 0.089 | 883 | 890 |
| Year 4 (\$) | 291 | 38 | 0.11 | 24 | 0.062 | 883 | 890 |
| Year 5 (\$) | 334 | 3 | 0.91 | 29 | 0.005 | 883 | 890 |
| Medicaid participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 81.1 | -0.2 | 0.92 | 1.7 | -0.007 | 883 | 890 |
| Ever enrolled in Year 2 | 81.5 | 0.8 | 0.63 | 1.7 | 0.034 | 883 | 890 |
| Ever enrolled in Year 3 | 80.1 | -1.0 | 0.56 | 1.8 | -0.039 | 883 | 890 |
| Ever enrolled in Year 4 | 76.0 | -0.3 | 0.90 | 1.9 | -0.008 | 883 | 890 |
| Ever enrolled in Year 5 | 71.3 | 1.2 | 0.54 | 2.0 | 0.037 | 883 | 890 |
| Percentage of months enrolled in Years 1–5 | 72.7 | 0.5 | 0.78 | 1.6 | 0.012 | 883 | 890 |

| | Control | | | Standard | | Treatment | Control |
|---|---------|--------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p</i> -value | error | Effect size | group N | group N |
| Average monthly Medicaid expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 257 | 7 | 0.63 | 14 | 0.018 | 883 | 890 |
| Year 2 (\$) | 181 | 20 | 0.14 | 14 | 0.059 | 883 | 890 |
| Year 3 (\$) | 163 | 30** | 0.01 | 12 | 0.099 | 883 | 890 |
| Year 4 (\$) | 159 | 28** | 0.03 | 13 | 0.088 | 883 | 890 |
| Year 5 (\$) | 169 | 11 | 0.45 | 14 | 0.031 | 883 | 890 |
| Years 1–5 (\$) | 186 | 19* | 0.06 | 10 | 0.069 | 883 | 890 |
| Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 19.2 | 0.2 | 0.82 | 0.8 | 0.007 | 883 | 890 |
| Ever enrolled in Year 2 | 20.6 | -0.1 | 0.90 | 0.8 | -0.004 | 883 | 890 |
| Ever enrolled in Year 3 | 21.7 | -0.7 | 0.47 | 0.9 | -0.024 | 883 | 890 |
| Ever enrolled in Year 4 | 23.4 | -2.0* | 0.07 | 1.1 | -0.070 | 883 | 890 |
| Ever enrolled in Year 5 | 23.8 | -1.8 | 0.12 | 1.2 | -0.062 | 883 | 890 |
| Percentage of months enrolled in Years 1–5 | 21.0 | -1.1 | 0.14 | 0.7 | -0.028 | 883 | 890 |
| Average monthly Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 110 | 11 | 0.40 | 13 | 0.027 | 883 | 890 |
| Year 2 (\$) | 124 | 40** | 0.03 | 18 | 0.078 | 883 | 890 |
| Year 3 (\$) | 137 | 29 | 0.15 | 20 | 0.053 | 883 | 890 |
| Year 4 (\$) | 132 | 10 | 0.58 | 18 | 0.021 | 883 | 890 |
| Year 5 (\$) | 165 | -7 | 0.76 | 24 | -0.012 | 883 | 890 |
| Years 1–5 (\$) | 133 | 17 | 0.27 | 15 | 0.037 | 883 | 890 |

Source: CMS administrative records and PROMISE five-year survey (non-Medicare/Medicaid outcomes).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of Arkansas PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

CMS = Centers for Medicare & Medicaid Services; N = sample size.

Appendix Table C.17. Arkansas PROMISE: Impact on the parents' economic well-being (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Parents' total income in the past year (\$) | 22,779 | 800 | 0.47 | 1,111 | 0.039 | 685 | 680 |
| Parents' total income during the five calendar years after RA (\$) | 114,598 | -733 | 0.79 | 2,686 | -0.008 | 883 | 890 |
| Supplementary outcomes | | | | | | | |
| Parents' income in calendar years after RA | | | | | | | |
| Year 1 (\$) | 21,002 | 354 | 0.49 | 513 | 0.019 | 883 | 890 |
| Year 2 (\$) | 22,008 | -174 | 0.77 | 597 | -0.009 | 883 | 890 |
| Year 3 (\$) | 22,998 | 118 | 0.85 | 633 | 0.006 | 883 | 890 |
| Year 4 (\$) | 24,076 | -498 | 0.46 | 673 | -0.024 | 883 | 890 |
| Year 5 (\$) | 24,513 | -533 | 0.48 | 754 | -0.024 | 883 | 890 |
| Household receives TANF, SNAP, or housing assistance | 42.1 | -2.8 | 0.29 | 2.7 | -0.070 | 688 | 676 |
| Household income in the past year (\$) | 26,720 | 535 | 0.57 | 931 | 0.032 | 668 | 655 |

Source: PROMISE five-year survey and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of Arkansas PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

N = sample size; RA = random assignment; SSA = Social Security Administration.

2. Sensitivity analyses

We assessed the sensitivity of the estimated impacts on primary outcomes to methodological choices we incorporated in the main impact estimates. In Appendix Table C.18, we show the impact estimated by the main regression model for each outcome, as well as by alternative models that do not (1) use the survey weights, (2) include covariate adjustment, and (3) use imputed data for outcomes that underwent multiple imputation. The alternative models produced broadly similar results, suggesting that the main model's estimates of program impacts were not sensitive to the choice of estimation method.

We also assessed the extent to which the lack of survey data for some enrollees would influence the estimates of program impacts. In Appendix Table C.19, we compare how the estimated impacts on primary outcomes varied when nonrespondents were included and excluded from analyses of outcomes measured using administrative data. For all outcomes, the impact estimated using the weighted survey respondent sample did not significantly differ from the impact estimated using the administrative analysis sample. The findings suggest that use of the analysis weights minimized the potential for nonresponse bias because the estimated impacts for the survey respondent sample were comparable to those for the full research sample.

Appendix Table C.18. Arkansas PROMISE: Impact on primary outcomes, by estimation approach (values measured at the time of the survey and shown in in percentages, unless otherwise noted)

| Outcome | Main model | No weighting for non- response | No covariate adjustment | No imputation |
|--|------------|--------------------------------------|----------------------------|------------------|
| Enrolled in an educational or training program | -1.7 | -0.9 | -1.6 | n.a. |
| Has a GED, high school diploma, or certificate of completion | -2.2 | -2.2 | -2.1 | n.a. |
| Youth employed in a paid job in the past year | 3.3 | 3.7 | 3.4 | 3.9 |
| Youth earnings in the past year (\$) | -51 | -9 | 43 | 124 |
| Youth earnings during the five calendar years after RA (\$) | 830 | n.a. | 1,126 | n.a. |
| Youth self-determination score (scale: 0 to 100) ^a | 0.1 | 0.4 | 0.0 | n.a. |
| Youth expects to be financially independent at age 25 | 0.6 | 1.3 | 1.2 | n.a. |
| Youth received SSA payments in Year 5 after RA | -0.4 | n.a. | -1.4 | n.a. |
| Youth total SSA payments in Year 5 after RA (\$) | -65 | n.a. | -153 | n.a. |
| Youth total SSA payments during Years 1–5 after RA (\$) | -462 | n.a. | -940 | n.a. |
| Youth covered by any health insurance | -5.5** | -5.9*** | -5.3** | n.a. |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 2 | n.a. | 2 | n.a. |
| Youth total income in the past year (\$) | -162 | -168 | -112 | -55 |
| Youth total income during the five calendar years after RA (\$) | 114 | n.a. | -78 | n.a. |
| Either parent worked for pay in the past year | 1.5 | 1.7 | 1.8 | n.a. |
| Parents' earnings in the past year (\$) | 815 | 1,133 | 1,272 | 963 |
| Parents' earnings during the five calendar years after RA (\$) | -1,124 | n.a. | 1,755 | n.a. |
| Either parent received SSA payments in Year 5 after RA | -0.1 | n.a. | 0.8 | n.a. |
| Parents' total SSA payments received in Year 5 after RA (\$) | -56 | n.a. | 82 | n.a. |
| Parents' total SSA payments during the five years after RA (\$) | 325 | n.a. | 1,052 | n.a. |
| Parents' total income in the past year (\$) | 800 | 1,154 | 1,390 | 939 |
| Parents' income during the five calendar years after RA (\$) | -733 | n.a. | 2,909 | n.a. |
| Either parent is covered by health insurance | -3.1* | -2.9* | -3.1* | n.a. |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 36** | n.a. | 36** | n.a. |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the impact estimates of Arkansas PROMISE, using different modeling approaches. In the main model, we used covariate adjustment and, for outcomes derived from survey data, we weighted statistics to adjust for survey nonresponse and used multiple imputation when an outcome had

a missing value conditional on the value of another variable. In the model with "No weighting for non-response", we followed the main model but did not apply weights to adjust for non-response. In the model with "No covariate adjustment", we followed the main model but did not include covariates. For the model with "No multiple imputation", we followed the main model except that we excluded cases with outcomes that had a missing value conditional on the value of another variable.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

CMS = Centers for Medicare & Medicaid Services; GED = General Educational Development; N = sample size; n.a.= not applicable; RA = random assignment; SSA = Social Security Administration.

Appendix Table C.19. Arkansas PROMISE: Impact on primary outcomes measured using administrative data, including and excluding five-year survey nonrespondents (percentage, unless otherwise noted)

| | Admin | istrative ar samples | nalysis | Five-year | pondents | | |
|--|-----------------|-------------------------|-----------------|-----------------|----------|-----------------|-----------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | <i>p</i> -value for difference |
| Youth earnings during the five calendar years after RA (\$) | 13,359 | 830 | 0.32 | 12,624 | 1,534* | 0.10 | 0.42 |
| Youth received SSA payments in Year 5 after RA | 56.3 | -0.4 | 0.86 | 58.5 | 0.9 | 0.71 | 0.57 |
| Youth total SSA payments in Year 5 after RA (\$) | 4,210 | -65 | 0.73 | 4,469 | -53 | 0.81 | 0.95 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 31,146 | -462 | 0.43 | 31,959 | -311 | 0.64 | 0.81 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 440 | 2 | 0.94 | 455 | 13 | 0.59 | 0.61 |
| Youth total income during the five calendar years after RA (\$) | 45,215 | 114 | 0.89 | 45,491 | 936 | 0.33 | 0.36 |
| Parents' earnings during the five calendar years after RA (\$) | 95,269 | -1,124 | 0.69 | 96,034 | 1,379 | 0.67 | 0.41 |
| Either parent received SSA payments in Year 5 after RA | 33.8 | -0.1 | 0.95 | 35.3 | -0.9 | 0.59 | 0.60 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,760 | -56 | 0.78 | 4,018 | -139 | 0.56 | 0.71 |
| Parents' total SSA payments during the five years after RA (\$) | 17,539 | 325 | 0.66 | 18,178 | -274 | 0.74 | 0.44 |
| Parents' total income during the five calendar years after RA (\$) | 114,598 | -733 | 0.79 | 116,190 | 1,151 | 0.72 | 0.52 |
| Parents' average monthly Medicaid and Medicare expenditures in years after RA in Years 1-5 after RA (\$) | 319 | 36** | 0.05 | 338 | 22 | 0.29 | 0.46 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of Arkansas PROMISE for administrative analysis samples and five-year survey respondents. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For the sample of five-year survey respondents, we weighted the statistics to adjust for survey nonresponse, applying youth weights for youths' outcomes and parent weights for parents' outcomes.

*/**/*** Impact estimate is significantly different from zero (p-value is less than .10/.05/.01) using a two-tailed t-test.

+/++/+++ Impact estimates for the two samples are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

CMS = Centers for Medicare & Medicaid Services; N = sample size; RA = random assignment. SSA = Social Security Administration.

3. Subgroup impact estimates

We estimated the five-year impacts for key subgroups of evaluation enrollees to understand whether the impacts of Arkansas PROMISE differed by enrollee characteristics. We focused on subgroups defined by the following baseline characteristics of youth: age (ages 14 and 15, and age 16); sex (females and males); whether a youth's parent received SSA payments at the time of RA (yes or no); primary impairment (intellectual or developmental disabilities, other mental impairments, and other disabilities); and whether the survey respondent completed the five-year survey before or after the onset of the COVID-19 pandemic (yes or no). Appendix Tables C.20–C.25 present the subgroup impact estimates.

Appendix Table C.20. Arkansas PROMISE: Impacts on primary outcomes, by youth's age (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Age 14 and 15 Age 16 | | | | | | | <i>p-</i> value | | | |
|---|----------------------|--------|-----------------|----------------------|--------------------|-----------------|--------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Youth enrolled in an educational or training program | 33.1 | -3.0 | 0.32 | 450 | 461 | 20.2 | 1.0 | 0.79 | 252 | 209 | 0.41 |
| Youth has a GED, high school diploma, or certificate of completion | 77.4 | -0.7 | 0.80 | 471 | 480 | 82.0 | -5.2 | 0.15 | 260 | 226 | 0.32 |
| Youth employed in a paid job in the past year | 49.7 | 0.9 | 0.78 | 473 | 482 | 46.2 | 7.9* | 0.08 | 260 | 226 | 0.21 |
| Youth earnings in the past year (\$) | 4,830 | 88 | 0.87 | 473 | 482 | 5,961 | -317 | 0.73 | 260 | 226 | 0.70 |
| Youth earnings during the five calendar years after RA (\$) | 10,871 | 1,319 | 0.13 | 584 | 605 | 18,443 | -187 | 0.92 | 320 | 296 | 0.44 |
| Youth self-determination score (scale: 0 to 100) | 78.9 | 0.4 | 0.70 | 308 | 288 | 78.2 | -0.6 | 0.69 | 171 | 133 | 0.58 |
| Youth expects to be financially independent at age 25 | 62.1 | 4.4 | 0.26 | 324 | 299 | 63.6 | -6.8 | 0.23 | 176 | 140 | 0.10 |
| Youth received SSA payments in Year 5 after RA | 62.1 | -3.2 | 0.23 | 584 | 605 | 44.3 | 5.0 | 0.18 | 320 | 296 | 0.07† |
| Youth total SSA payments in Year 5 after RA (\$) | 4,557 | -257 | 0.27 | 584 | 605 | 3,500 | 304 | 0.34 | 320 | 296 | 0.15 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 32,136 | -819 | 0.25 | 584 | 605 | 29,123 | 225 | 0.82 | 320 | 296 | 0.40 |
| Youth covered by any health insurance | 83.9 | -6.1** | 0.02 | 454 | 464 | 75.9 | -4.5 | 0.27 | 249 | 214 | 0.74 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 478 | -10 | 0.66 | 584 | 605 | 361 | 23 | 0.56 | 320 | 296 | 0.46 |
| Youth total income in the past year (\$) | 9,385 | -227 | 0.67 | 473 | 482 | 9,625 | -39 | 0.96 | 260 | 226 | 0.85 |
| Youth total income during the five calendar years after RA (\$) | 43,806 | 26 | 0.98 | 584 | 605 | 48,094 | 264 | 0.87 | 320 | 296 | 0.90 |

| | | | Age 14 and | d 15 | | | | Age 16 | | | <i>p</i> -value |
|--|-----------------|--------|-----------------|----------------------|--------------------|-----------------|--------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Either parent worked for pay in the past year | 64.9 | 1.5 | 0.60 | 449 | 468 | 66.0 | 1.6 | 0.67 | 251 | 221 | 0.98 |
| Parents' earnings in the past year (\$) | 18,323 | 969 | 0.48 | 449 | 469 | 19,602 | 516 | 0.79 | 251 | 221 | 0.85 |
| Parents' earnings during the five calendar years after RA (\$) | 96,019 | 67 | 0.98 | 568 | 598 | 93,734 | -3,408 | 0.47 | 315 | 292 | 0.55 |
| Either parent received SSA payments in Year 5 after RA | 33.4 | 0.3 | 0.87 | 568 | 598 | 34.6 | -0.8 | 0.76 | 315 | 292 | 0.72 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,708 | -117 | 0.61 | 568 | 598 | 3,865 | 60 | 0.87 | 315 | 292 | 0.69 |
| Parents' total SSA payments during the five years after RA (\$) | 17,548 | 42 | 0.96 | 568 | 598 | 17,519 | 866 | 0.50 | 315 | 292 | 0.60 |
| Parents' total income in the past year (\$) | 22,286 | 993 | 0.47 | 439 | 462 | 23,820 | 427 | 0.83 | 246 | 218 | 0.81 |
| Parents' total income during the five calendar years after RA (\$) | 115,334 | 192 | 0.95 | 568 | 598 | 113,089 | -2,516 | 0.58 | 315 | 292 | 0.63 |
| Either parent is covered by health insurance | 90.0 | -2.4 | 0.26 | 447 | 466 | 91.6 | -4.4 | 0.12 | 250 | 219 | 0.57 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 326 | 31 | 0.15 | 568 | 598 | 304 | 45 | 0.17 | 315 | 292 | 0.73 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of Arkansas PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

CMS = Centers for Medicare & Medicaid Services; GED = General Educational Development; N = sample size; RA = random assignment; SSA = Social Security Administration.

Appendix Table C.21. Arkansas PROMISE: Impacts on primary outcomes, by youth's sex (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | | | Male | | | | | Female | | | <i>p-</i> value |
|---|-----------------|---------|-----------------|----------------------|--------------------|-----------------|--------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p-</i> value | Treatment group N | Control group N | Control mean | Impact | <i>p-</i> value | Treatment group N | Control group N | for subgroup difference |
| Youth enrolled in an educational or training program | 27.2 | -2.8 | 0.33 | 456 | 429 | 32.3 | 0.6 | 0.88 | 246 | 241 | 0.50 |
| Youth has a GED, high school diploma, or certificate of completion | 77.3 | -1.9 | 0.50 | 477 | 453 | 81.9 | -2.9 | 0.41 | 254 | 253 | 0.82 |
| Youth employed in a paid job in the past year | 47.8 | 4.6 | 0.16 | 478 | 453 | 50.0 | 0.7 | 0.87 | 255 | 255 | 0.48 |
| Youth earnings in the past year (\$) | 5,292 | 319 | 0.61 | 478 | 453 | 5,022 | -779 | 0.27 | 255 | 255 | 0.23 |
| Youth earnings during the five calendar years after RA (\$) | 13,219 | 861 | 0.41 | 604 | 595 | 13,630 | 767 | 0.58 | 300 | 306 | 0.96 |
| Youth self-determination score (scale: 0 to 100) | 78.0 | -0.2 | 0.90 | 293 | 250 | 79.8 | 0.5 | 0.73 | 186 | 171 | 0.73 |
| Youth expects to be financially independent at age 25 | 64.8 | -0.7 | 0.87 | 307 | 264 | 59.2 | 2.8 | 0.59 | 193 | 175 | 0.59 |
| Youth received SSA payments in Year 5 after RA | 54.8 | 0.2 | 0.94 | 604 | 595 | 59.2 | -1.6 | 0.68 | 300 | 306 | 0.70 |
| Youth total SSA payments in Year 5 after RA (\$) | 4,050 | 51 | 0.83 | 604 | 595 | 4,520 | -297 | 0.37 | 300 | 306 | 0.38 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 30,650 | -375 | 0.60 | 604 | 595 | 32,110 | -636 | 0.53 | 300 | 306 | 0.83 |
| Youth covered by any health insurance | 79.1 | -8.3*** | 0.00 | 454 | 430 | 85.4 | -0.2 | 0.96 | 249 | 248 | 0.06† |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 411 | -13 | 0.58 | 604 | 595 | 496 | 31 | 0.40 | 300 | 306 | 0.31 |
| Youth income in the past year (\$) | 9,460 | 237 | 0.69 | 478 | 453 | 9,468 | -949 | 0.16 | 255 | 255 | 0.18 |
| Youth total income during the five calendar years after RA (\$) | 44,516 | 225 | 0.83 | 604 | 595 | 46,574 | -108 | 0.94 | 300 | 306 | 0.85 |
| Either parent worked for pay in the past year | 66.5 | 1.6 | 0.57 | 460 | 449 | 62.8 | 1.4 | 0.73 | 240 | 240 | 0.96 |

| | | | Male | | | | | Female | | | <i>p</i> -value |
|---|-----------------|--------|-----------------|----------------------|--------------------|-----------------|---------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p-</i> value | Treatment group N | Control group N | Control mean | Impact | <i>p-</i> value | Treatment group N | Control group N | for subgroup difference |
| Parents' earnings in the past year (\$) | 19,719 | 999 | 0.49 | 460 | 449 | 16,856 | 450 | 0.80 | 240 | 241 | 0.81 |
| Parents' earnings during the five calendar years after RA (\$) | 101,198 | 2,105 | 0.54 | 592 | 588 | 83,727 | -7,622* | 0.09 | 291 | 302 | 0.08† |
| Either parent received SSA payments in Year 5 after RA | 33.0 | -0.8 | 0.64 | 592 | 588 | 35.4 | 1.4 | 0.52 | 291 | 302 | 0.42 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,746 | -309 | 0.22 | 592 | 588 | 3,786 | 453 | 0.17 | 291 | 302 | 0.06† |
| Parents' total SSA payments during the five years after RA (\$) | 17,094 | -844 | 0.36 | 592 | 588 | 18,406 | 2,676** | 0.03 | 291 | 302 | 0.02†† |
| Parents' income in the past year (\$) | 23,584 | 900 | 0.53 | 453 | 443 | 21,240 | 600 | 0.74 | 232 | 237 | 0.90 |
| Parents' income during the five calendar years after RA (\$) | 120,282 | 1,046 | 0.75 | 592 | 588 | 103,531 | -4,312 | 0.33 | 291 | 302 | 0.33 |
| Either parent is covered by health insurance | 92.0 | -3.9* | 0.06 | 457 | 446 | 87.7 | -1.5 | 0.62 | 240 | 239 | 0.52 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 297 | 33 | 0.13 | 592 | 588 | 361 | 41 | 0.20 | 291 | 302 | 0.83 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of Arkansas PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table C.22. Arkansas PROMISE: Impacts on primary outcomes, by whether parent received SSA payments before RA (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | ١ | lo parent r | eceived S | SA payment | S | At leas | st one par | ent receiv | ed SSA pay | ments | <i>p</i> -value |
|---|-----------------|-------------|-----------------|----------------------|--------------------|-----------------|------------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p-</i> value | Treatment group N | Control group N | for subgroup difference |
| Youth enrolled in an educational or training program | 32.0 | -4.2 | 0.16 | 477 | 467 | 21.0 | 5.8 | 0.17 | 208 | 192 | 0.05† |
| Youth has a GED, high school diploma, or certificate of completion | 81.3 | -2.9 | 0.25 | 492 | 492 | 73.2 | -0.5 | 0.92 | 222 | 203 | 0.62 |
| Youth employed in a paid job in the past year | 50.8 | 3.1 | 0.33 | 493 | 492 | 43.6 | 4.4 | 0.37 | 222 | 205 | 0.82 |
| Youth earnings in the past year (\$) | 5,439 | -136 | 0.82 | 493 | 492 | 4,549 | 261 | 0.75 | 222 | 205 | 0.69 |
| Youth earnings during the five calendar years after RA (\$) | 13,753 | 790 | 0.42 | 619 | 633 | 12,356 | 1,130 | 0.47 | 264 | 257 | 0.85 |
| Youth self-determination score (scale: 0 to 100) | 79.3 | -1.0 | 0.42 | 316 | 281 | 77.5 | 1.7 | 0.26 | 155 | 134 | 0.16 |
| Youth expects to be financially independent at age 25 | 63.8 | -1.4 | 0.72 | 329 | 294 | 60.0 | 5.6 | 0.33 | 162 | 139 | 0.31 |
| Youth received SSA payments in Year 5 after RA | 55.3 | 0.4 | 0.87 | 619 | 633 | 58.8 | -3.5 | 0.39 | 264 | 257 | 0.41 |
| Youth total SSA payments in Year 5 after RA (\$) | 4,106 | 64 | 0.77 | 619 | 633 | 4,435 | -405 | 0.27 | 264 | 257 | 0.27 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 30,352 | -383 | 0.59 | 619 | 633 | 32,892 | -635 | 0.55 | 264 | 257 | 0.84 |
| Youth covered by any health insurance | 82.1 | -4.5* | 0.08 | 473 | 471 | 79.8 | -8.5** | 0.04 | 212 | 196 | 0.41 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 411 | -9 | 0.65 | 619 | 633 | 510 | 11 | 0.82 | 264 | 257 | 0.69 |
| Youth income in the past year (\$) | 9,669 | -189 | 0.74 | 493 | 492 | 8,868 | 11 | 0.99 | 222 | 205 | 0.84 |
| Youth total income during the five calendar years after RA (\$) | 44,818 | 246 | 0.81 | 619 | 633 | 45,909 | 6 | 1.00 | 264 | 257 | 0.90 |
| Either parent worked for pay in the past year | 80.5 | -1.2 | 0.64 | 485 | 483 | 27.6 | 9.5** | 0.04 | 200 | 196 | 0.04†† |

| | N | lo parent r | eceived S | SA payment | s | At leas | st one par | ent receiv | ed SSA payı | ments | <i>p-</i> value |
|--|-----------------|-------------|-----------------|----------------------|--------------------|-----------------|------------|-----------------|----------------------|-------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | | for subgroup difference |
| Parents' earnings in the past year (\$) | 23,882 | -368 | 0.80 | 485 | 484 | 6,168 | 3,862** | 0.02 | 200 | 196 | 0.05†† |
| Parents' earnings during the five calendar years after RA (\$) | 119,958 | -1,612 | 0.66 | 619 | 633 | 34,462 | 108 | 0.98 | 264 | 257 | 0.74 |
| Either parent received SSA payments in Year 5 after RA | 10.1 | 0.7 | 0.71 | 619 | 633 | 92.2 | -1.8 | 0.49 | 264 | 257 | 0.43 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 1,232 | -88 | 0.70 | 619 | 633 | 9,985 | 48 | 0.91 | 264 | 257 | 0.78 |
| Parents' total SSA payments during the five years after RA (\$) | 3,895 | -72 | 0.92 | 619 | 633 | 51,144 | 1,420 | 0.43 | 264 | 257 | 0.45 |
| Parents' income in the past year (\$) | 25,199 | -332 | 0.81 | 485 | 484 | 16,694 | 3,799** | 0.02 | 200 | 196 | 0.05†† |
| Parents' income during the five calendar years after RA (\$) | 124,747 | -1,548 | 0.65 | 619 | 633 | 89,599 | 1,442 | 0.71 | 264 | 257 | 0.56 |
| Either parent is covered by health insurance | 89.5 | -4.3** | 0.05 | 484 | 481 | 95.0 | -0.7 | 0.76 | 198 | 194 | 0.26 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 151 | 21 | 0.19 | 619 | 633 | 733 | 73 | 0.12 | 264 | 257 | 0.30 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of Arkansas PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table C.23. Arkansas PROMISE: Impacts on primary outcomes, by youth's primary impairment (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Intellectual or developmental disabilities | | | Other m | ental impa | airments | Oth | nents | <i>p</i> -value for | |
|---|---|--------|-----------------|-----------------|------------|-----------------|-----------------|--------|---------------------|------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | subgroup difference |
| Youth enrolled in an educational or training program | 30.7 | -2.3 | 0.54 | 24.2 | -1.5 | 0.68 | 38.5 | -0.8 | 0.90 | 0.98 |
| Youth has a GED, high school diploma, or certificate of completion | 81.6 | -0.1 | 0.99 | 73.8 | -4.2 | 0.26 | 86.6 | -3.0 | 0.55 | 0.68 |
| Youth employed in a paid job in the past year | 43.6 | 1.9 | 0.63 | 54.7 | 4.7 | 0.25 | 44.2 | 4.8 | 0.49 | 0.87 |
| Youth earnings in the past year (\$) | 4,265 | -21 | 0.97 | 6,038 | 348 | 0.67 | 5,328 | -1,212 | 0.29 | 0.53 |
| Youth earnings during the five calendar years after RA (\$) | 11,511 | 842 | 0.49 | 15,270 | 1,174 | 0.36 | 12,668 | -220 | 0.92 | 0.87 |
| Youth self-determination score (scale: 0 to 100) | 77.8 | -0.4 | 0.79 | 78.5 | 0.6 | 0.70 | 81.9 | -0.4 | 0.82 | 0.87 |
| Youth expects to be financially independent at age 25 | 56.3 | 6.4 | 0.20 | 65.1 | -2.2 | 0.65 | 73.0 | -8.4 | 0.30 | 0.23 |
| Youth received SSA payments in Year 5 after RA | 65.4 | -1.4 | 0.69 | 44.0 | -1.2 | 0.71 | 69.1 | 5.2 | 0.34 | 0.54 |
| Youth total SSA payments in Year 5 after RA (\$) | 5,280 | -487 | 0.11 | 2,876 | 139 | 0.61 | 5,357 | 542 | 0.28 | 0.14 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 33,450 | -927 | 0.32 | 28,312 | -597 | 0.49 | 33,489 | 1,417 | 0.34 | 0.39 |
| Youth covered by any health insurance | 86.6 | -6.7** | 0.03 | 73.2 | -4.9 | 0.20 | 91.0 | -4.2 | 0.37 | 0.88 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 390 | -6 | 0.80 | 404 | -7 | 0.80 | 711 | 47 | 0.60 | 0.84 |
| Youth income in the past year (\$) | 9,761 | -700 | 0.26 | 8,879 | 443 | 0.58 | 10,403 | -385 | 0.72 | 0.53 |
| Youth total income during the five calendar years after RA (\$) | 46,474 | -697 | 0.57 | 43,330 | 475 | 0.73 | 47,602 | 1,504 | 0.49 | 0.63 |
| Either parent worked for pay in the past year | 64.7 | 3.4 | 0.32 | 64.4 | 1.9 | 0.59 | 69.8 | -5.1 | 0.40 | 0.46 |

| | Intellectual or developmental disabilities | | | Other mental impairments | | | Other impairments | | | <i>p</i> -value for |
|--|--|--------|-----------------|--------------------------|--------|-----------------|-------------------|--------|-----------------|------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | subgroup difference |
| Parents' earnings in the past year (\$) | 18,243 | 2,699 | 0.10 | 18,531 | -299 | 0.86 | 20,849 | -657 | 0.85 | 0.40 |
| Parents' earnings during the five calendar years after RA (\$) | 105,339 | -82 | 0.98 | 79,968 | -2,092 | 0.60 | 115,772 | -1,696 | 0.85 | 0.94 |
| Either parent received SSA payments in Year 5 after RA | 31.4 | -0.1 | 0.94 | 36.7 | -0.5 | 0.83 | 31.4 | 1.8 | 0.68 | 0.89 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,350 | 274 | 0.36 | 4,206 | -329 | 0.29 | 3,512 | -144 | 0.78 | 0.37 |
| Parents' total SSA payments during the five years after RA (\$) | 15,644 | 1,337 | 0.21 | 19,691 | -446 | 0.71 | 16,103 | -120 | 0.95 | 0.51 |
| Parents' income in the past year (\$) | 21,872 | 2,941* | 0.07 | 22,974 | -490 | 0.77 | 24,836 | -808 | 0.81 | 0.29 |
| Parents' income during the five calendar years after RA (\$) | 122,704 | 1,176 | 0.78 | 101,549 | -2,295 | 0.54 | 133,535 | -1,882 | 0.83 | 0.82 |
| Either parent is covered by health insurance | 88.6 | -2.8 | 0.29 | 93.5 | -4.4* | 0.07 | 86.7 | 0.8 | 0.87 | 0.61 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 299 | -11 | 0.68 | 347 | 64** | 0.03 | 288 | 90** | 0.03 | 0.06† |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of Arkansas PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table C.24. Arkansas PROMISE: Sample sizes for primary outcomes, by youth's primary impairment

| | | [·] developmental bilities | Other menta | l impairments | Other impairments | | |
|---|----------------------|--|----------------------|--------------------|--------------------|----------------------|--|
| Outcome | Treatment group N | Control group N | Treatment group N | Control group N | Control group N | Treatment group N | |
| Youth enrolled in an educational or training program | 310 | 280 | 290 | 292 | 102 | 98 | |
| Youth has a GED, high school diploma, or certificate of completion | 320 | 296 | 308 | 308 | 103 | 102 | |
| Youth employed in a paid job in the past year | 322 | 297 | 308 | 309 | 103 | 102 | |
| Youth earnings in the past year (\$) | 322 | 297 | 308 | 309 | 103 | 102 | |
| Youth earnings during the five calendar years after RA (\$) | 384 | 373 | 402 | 405 | 118 | 123 | |
| Youth self-determination score (scale: 0 to 100) | 215 | 179 | 199 | 180 | 65 | 62 | |
| Youth expects to be financially independent at age 25 | 222 | 183 | 213 | 190 | 65 | 66 | |
| Youth received SSA payments in Year 5 after RA | 384 | 373 | 402 | 405 | 118 | 123 | |
| Youth total SSA payments in Year 5 after RA (\$) | 384 | 373 | 402 | 405 | 118 | 123 | |
| Youth total SSA payments during Years 1–5 after RA (\$) | 384 | 373 | 402 | 405 | 118 | 123 | |
| Youth covered by any health insurance | 312 | 284 | 289 | 295 | 102 | 99 | |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 384 | 373 | 402 | 405 | 118 | 123 | |
| Youth income in the past year (\$) | 322 | 297 | 308 | 309 | 103 | 102 | |
| Youth total income during the five calendar years after RA (\$) | 384 | 373 | 402 | 405 | 118 | 123 | |
| Either parent worked for pay in the past year | 313 | 290 | 287 | 303 | 100 | 96 | |
| Parents' earnings in the past year (\$) | 313 | 291 | 287 | 303 | 100 | 96 | |
| Parents' earnings during the five calendar years after RA (\$) | 375 | 366 | 394 | 403 | 114 | 121 | |
| Either parent received SSA payments in Year 5 after RA | 375 | 366 | 394 | 403 | 114 | 121 | |

| | | developmental bilities | Other menta | l impairments | Other impairments | | |
|---|----------------------|---------------------------|----------------------|--------------------|--------------------|----------------------|--|
| Outcome | Treatment group N | Control group N | Treatment group N | Control group N | Control group N | Treatment group N | |
| Parents' total SSA payments received in Year 5 after RA (\$) | 375 | 366 | 394 | 403 | 114 | 121 | |
| Parents' total SSA payments during the five years after RA (\$) | 375 | 366 | 394 | 403 | 114 | 121 | |
| Parents' income in the past year (\$) | 306 | 284 | 283 | 301 | 96 | 95 | |
| Parents' income during the five calendar years after RA (\$) | 375 | 366 | 394 | 403 | 114 | 121 | |
| Either parent is covered by health insurance | 312 | 289 | 285 | 301 | 100 | 95 | |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 375 | 366 | 394 | 403 | 114 | 121 | |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the sample size by subgroup for the estimates reported in Appendix Table C.23.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table C.25. Arkansas PROMISE: Impacts on primary outcomes, by whether the survey respondent completed the five-year survey before or during the pandemic (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | | Be | fore pand | lemic | | During pandemic | | | | | <i>p</i> -value |
|--|-----------------|---------|-----------------|----------------------|--------------------|-----------------|--------|-----------------|----------------------|-----------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Youth enrolled in an educational or training program | 35.2 | -7.5 | 0.11 | 196 | 181 | 26.7 | 0.6 | 0.83 | 502 | 488 | 0.13 |
| Youth has a GED, high school diploma, or certificate of completion | 80.3 | -2.9 | 0.49 | 196 | 184 | 78.3 | -1.9 | 0.46 | 531 | 521 | 0.85 |
| Youth employed in a paid job in the past year | 47.1 | 9.3* | 0.07 | 196 | 184 | 49.2 | 0.9 | 0.77 | 533 | 523 | 0.16 |
| Youth earnings in the past year (\$) | 4,100 | 1,208 | 0.17 | 196 | 184 | 5,597 | -505 | 0.37 | 533 | 523 | 0.10† |
| Youth self-determination score (scale: 0 to 100) | 79.5 | -1.1 | 0.50 | 158 | 149 | 78.3 | 0.7 | 0.52 | 321 | 272 | 0.36 |
| Youth expects to be financially independent at age 25 | 60.1 | 0.9 | 0.88 | 157 | 145 | 63.9 | 0.5 | 0.90 | 343 | 294 | 0.96 |
| Youth covered by any health insurance | 80.3 | -6.9 | 0.12 | 188 | 175 | 81.7 | -5.0** | 0.05 | 515 | 503 | 0.70 |
| Youth income in the past year (\$) | 9,105 | 994 | 0.22 | 196 | 184 | 9,606 | -570 | 0.30 | 533 | 523 | 0.11 |
| Either parent worked for pay in the past year | 64.6 | 3.1 | 0.46 | 201 | 206 | 65.5 | 0.9 | 0.75 | 499 | 483 | 0.65 |
| Parents' earnings in the past year (\$) | 20,663 | -334 | 0.88 | 201 | 206 | 17,911 | 1,332 | 0.31 | 499 | 484 | 0.52 |
| Parents' income in the past year (\$) | 25,688 | -1,467 | 0.51 | 198 | 202 | 21,547 | 1,788 | 0.16 | 487 | 478 | 0.20 |
| Either parent is covered by health insurance | 93.8 | -9.0*** | 0.00 | 200 | 203 | 89.2 | -0.6 | 0.77 | 497 | 482 | 0.02†† |

Source: PROMISE five-year surveys.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of Arkansas PROMISE on outcomes derived from survey data. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. We weighted statistics to adjust for survey nonresponse. We defined before the pandemic as before March 13, 2020.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Impact estimates for subgroups are significantly different from each other (p-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size.

C. Findings from the benefit-cost analysis

In this section, we present findings from the benefit-cost analysis of Arkansas PROMISE. First, we present benefits and costs estimated through the main model. Second, we present the results of sensitivity analyses. Third, we present the projected accrual of net benefits beyond the five-year evaluation period.

1. Benefit-cost estimates

Appendix Table C.26 provides estimates of the program's benefits and indirect costs, the costs of program components, and benefit-cost statistics estimated using the main model described in Appendix B.

| | | Fe | deral govern | | | |
|---|---|------------|--------------|---|---|--|
| Benefit or cost measure | PROMISE youth and families (A) | SSA (B) | ED (C) | Federal government as a whole ^a (D) | State and local government, including PROMISE partners (E) | All key stakeholders (F = A + D + E) |
| Panel 1: Quantitative outcome measures | | | | | | |
| Youth outcomes | | | | | | |
| Earnings | 927 | 0 | 0 | 0 | 0 | 927 |
| Fringe benefits | 235 | 0 | 0 | 0 | 0 | 235 |
| Income, payroll, and sales taxes | -178 | 115 | 0 | 147 | 31 | 0 |
| Work-related and child care costs | -110 | 0 | 0 | 0 | 0 | -110 |
| SSI benefits | -494 | 494 | 0 | 494 | 0 | 0 |
| OASDI benefits | -2 | 2 | 0 | 2 | 0 | 0 |
| SSI administrative costs | 0 | 39 | 0 | 39 | 0 | 39 |
| SSDI administrative costs | 0 | 0 | 0 | 0 | 0 | 0 |
| Medicaid and Medicare expenditures and administrative costs | 134 | 0 | 0 | -165 | 20 | -11 |
| Education-related costs | 118 | 0 | 0 | 0 | 0 | 118 |
| Incarceration | 0 | 0 | 0 | 0 | 3,101 | 3,101 |
| Parent outcomes | | | | | | |
| Earnings | -1,140 | 0 | 0 | 0 | 0 | -1,140 |
| Fringe benefits | -289 | 0 | 0 | 0 | 0 | -289 |
| Income, payroll, and sales taxes | 272 | -141 | 0 | -181 | -91 | 0 |
| Work-related and child care costs | 197 | 0 | 0 | 0 | 0 | 197 |
| SSI benefits | 46 | -46 | 0 | -46 | 0 | 0 |
| OASDI benefits | 319 | -319 | 0 | -319 | 0 | 0 |
| SSI administrative costs | 0 | -4 | 0 | -4 | 0 | -4 |
| SSDI administrative costs | 0 | -6 | 0 | -6 | 0 | -6 |
| Medicaid and Medicare expenditures and administrative costs | 2,285 | 0 | 0 | -2,082 | -398 | -194 |

Appendix Table C.26. Arkansas PROMISE: Benefits and costs (\$) over the five-year evaluation time period, by accounting perspective

| | | F | ederal govern | ment | | |
|--|---|------------|---------------|---|---|--|
| Benefit or cost measure | PROMISE youth and families (A) | SSA (B) | ED (C) | Federal government as a wholeª (D) | State and local government, including PROMISE partners (E) | All key stakeholders (F = A + D + E) |
| Household outcomes | | | | | | |
| TANF, SNAP, housing assistance, and related administrative costs | 1,770 | 0 | 0 | -1,825 | -110 | -165 |
| Total | 4,089 | 134 | 0 | -3,946 | 2,553 | 2,696 |
| Panel 2: Costs of program components | | | | | | |
| Program administration | 0 | 0 | -8,705 | -8,705 | -47 | -8,752 |
| Employment services | 0 | 0 | -11,973 | -11,973 | -68 | -12,041 |
| Education services | 0 | 0 | -2,280 | -2,280 | -18 | -2,298 |
| Case management services | 0 | 0 | -12,451 | -12,451 | -116 | -12,567 |
| Financial and benefits counseling | 0 | 0 | -858 | -858 | -8 | -866 |
| Parent training and information services | 0 | 0 | -1,601 | -1,601 | -13 | -1,614 |
| Youth self-determination services | 0 | 0 | -2,421 | -2,421 | -19 | -2,440 |
| Total | 0 | 0 | -40,289 | -40,289 | -289 | -40,578 |
| Panel 3: Benefit-cost statistics | | | | | | |
| Net benefits (benefits minus costs) | 4,089 | 134 | -40,289 | -44,234 | 2,264 | -37,882 |
| Net benefit ratio ^b | n.a. | n.a. | 0 | -0.10 | 8.83 | 0.07 |

Source: See Appendix Table B.4 for details on the sources and imputation methods for each benefit or cost component.

Note: To construct each component of the benefit-cost analysis, we used the estimated impacts on key outcomes (regardless of whether they were statistically significant), or imputation methods that combined the impact estimates with data from external sources. To construct program costs, we used data from program administrative records, financial documents, staff activity logs, and staff interviews. All benefits and costs are dollars per treatment group family over five years and are inflation-adjusted to 2020 dollars and discounted to 2020 present value.

^a The perspective of the federal government as a whole incorporates the perspectives of SSA, ED, and other federal agencies that might experience benefits or costs because of PROMISE.

^b Calculated for all key stakeholders as the sum of all quantitative measures in Panel 1, which include benefits and indirect costs, divided by the program costs.

ED = U.S. Department of Education; SNAP = Supplemental Nutrition Assistance Program; SSA = Social Security Administration; SSDI = Social Security Disability Insurance; SSI = Supplemental Security Income; TANF = Temporary Assistance for Needy Families.

2. Sensitivity analyses

We conducted three analyses to assess the sensitivity of the benefit-cost estimates to changes in the underlying assumptions and methodological choices.

First, we sampled with replacement from the study population 1,000 times to create 1,000 random samples with an equal size as the true sample. For each sample, we calculated the net benefit for each accounting perspective. In Appendix Table C.27, we show the distribution of the resulting 1,000 net benefit estimates. The estimated net benefits for all key stakeholders were negative across the entire distribution, suggesting that our main conclusion (that Arkansas PROMISE did not generate net benefit estimate for all key stakeholders) is robust to sampling variability. The confidence interval on the net benefit estimate for all key stakeholders (-\$37,882) ranged from -\$45,102 (the 2.5th percentile) to -\$31,293 (the 97.5th percentile).

Second, we recalculated the net benefits using only the impact estimates that were significant at the 10 percent level (Appendix Table C.28). From the perspective of all stakeholders, the net benefit was within 5 percent of the estimate from the main analysis and continued to be negative and sizeable.

Third, we considered whether the benefit-cost results were sensitive to the assumptions we used to estimate some of the individual components. In Appendix Table C.28, we show the estimates of net benefits when we applied the alternative assumptions. From the perspective of all stakeholders, net benefits under the alternative assumptions were always within 8 percent of the net benefits estimated under the main analysis, and net benefits were sizeable and negative under each scenario. However, net benefits for Arkansas PROMISE youth and families and for state and local governments were sensitive to the alternative assumptions. For example, net benefits from the perspective of Arkansas PROMISE youth and families ranged from \$1,341 (when using a fixed work-related cost measure) to \$4,407 (when using a high discount rate). The net benefits from the perspective of state and local governments did not vary much under alternative assumptions, except when we used higher incarceration costs than in the main model.²⁴ Taken together, these results suggest that our main conclusion for all key stakeholders is robust, but the conclusions for two of the perspectives are sensitive to the assumptions we used.

²⁴ This scenario assumes that incarceration costs equal the highest state-specific cost (California, \$228/day) rather than the national average (\$97/day), representing a more than two-fold change in daily incarceration costs.

| | | | Federal governm | State and local | | |
|-------------------|-------------------------------|--------|-----------------|--------------------------------------|---|-------------------------|
| | PROMISE youth and families | SSA | ED | Federal government as a wholeª | government, including PROMISE partners | All key stakeholders |
| Original estimate | 4,089 | 134 | -40,289 | -44,234 | 2,264 | -37,882 |
| Min | -7,108 | -3,510 | -40,408 | -51,852 | -495 | -50,880 |
| 2.5th percentile | -1,773 | -2,323 | -40,349 | -48,735 | 414 | -45,102 |
| 25th percentile | 1,786 | -676 | -40,308 | -45,769 | 1,560 | -40,026 |
| 50th percentile | 3,970 | 151 | -40,285 | -44,093 | 2,208 | -37,853 |
| 75th percentile | 6,025 | 904 | -40,260 | -42,430 | 2,829 | -35,723 |
| 97.5th percentile | 9,675 | 2,498 | -40,219 | -39,320 | 4,207 | -31,293 |
| Max | 15,944 | 3,634 | -40,151 | -37,239 | 5,095 | -27,822 |

Appendix Table C.27. Arkansas PROMISE: Sensitivity of net benefits to sampling variability

Source: See Appendix Table B.4 for details on the sources and methods for the net-benefit calculation.

Note: We quantified uncertainty in the estimated net benefits by constructing non-parametric bootstrap confidence intervals. We sampled with replacement from the study population 1,000 times and then re-estimated all cost and benefit parameters for these 1,000 random samples. We then calculated the net benefits for each bootstrap sample. The 2.5th percentile and 97.5th percentile of the resulting values represent the 95 percent confidence interval of the net benefit estimate.

| | | F | ederal governr | nent | State and local | |
|---|--------------------------------------|------------|----------------|---|--|--|
| Assumption | PROMISE youth and families (A) | SSA (B) | ED (C) | Federal government as a whole ^a (D) | government, including PROMISE partners (E) | All key stakeholders (F = A + D + E) |
| Main benefit-cost analysis model | 4,089 | 134 | -40,289 | -44,234 | 2,264 | -37,882 |
| Excluded fringe benefits | 4,143 | 134 | -40,289 | -44,234 | 2,264 | -37,828 |
| Excluded education tuition costs | 4,002 | 134 | -40,289 | -44,234 | 2,264 | -37,969 |
| Used higher incarceration costs ^b | 4,089 | 134 | -40,289 | -44,234 | 6,443 | -33,703 |
| Used a fixed work-related cost measure (non-child care) ^c | 1,341 | 134 | -40,289 | -44,234 | 2,264 | -40,630 |
| Used a low discount rate ^d | 3,736 | 129 | -40,289 | -43,987 | 2,297 | -37,954 |
| Used a high discount rate ^d | 4,407 | 138 | -40,289 | -44,455 | 2,234 | -37,815 |
| Used only statistically significant estimates in the calculation ^e | 3,202 | 200 | -40,289 | -42,357 | 2,606 | -36,550 |

Appendix Table C.28. Arkansas PROMISE: Sensitivity of net benefits to different assumptions in the benefit cost analysis

Source: See Appendix Table B.4 for details on the sources and methods for the net-benefit calculation.

Note: The inputs for the benefit-cost analysis are based on (1) program costs drawn from program administrative records, financial documents, staff activity logs and staff interviews (2) the estimated impacts on key outcomes (regardless of whether they were statistically significant), or (3) imputation methods that combined the impact estimates with data from external sources. All benefits and costs are dollars per treatment group family over five years and are inflation-adjusted to 2020 dollars and discounted to 2020 present value.

^a The perspective of the federal government as a whole incorporates the perspectives of SSA, ED, and other federal agencies that might experience benefits or costs because of PROMISE.

^b We changed incarceration costs from the national average (\$97/day) to the highest state-specific cost (California, \$228/day).

^c We changed work-related costs from a multiplier of 10.6% to a fixed cost of \$51 dollars per week.

^d The low discount rate is 1 percent, and the high discount rate is 5 percent.

^e This sensitivity analysis assigns a value of zero to impact estimates to impacts estimates that were not were significant at the .10 level. (The main analysis and all other sensitivity tests include impact estimates regardless of whether they were statistically significant).

ED = U.S. Department of Education; SSA = Social Security Administration.

3. Long-term forecast

We projected the accrual of net benefits over 10 and 20 years after RA to assess how costs and benefits may change after the five-year evaluation period. We projected the net benefits under three scenarios that varied in their potential returns to youth's education: high returns, diminishing returns, and no returns (Appendix Table C.29). Because Arkansas PROMISE caused a small and nonsignificant decrease in youth's years of education (-0.01 years), the scenario assuming "no returns" to education generates the highest net benefit estimate and the scenario assuming "high returns" to education generates the lowest estimate. Across all scenarios, the forecasted net benefits 10 and 20 years after RA are lower than the net benefits estimated at five years after RA. This is largely because treatment group youth had lower earnings than control group youth in the fourth and fifth years after RA, a disadvantage that gets compounded in the forecast as earnings grow by an annual percentage over time.

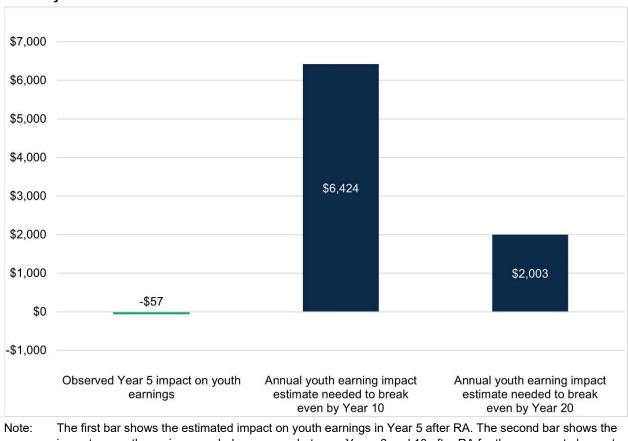
We also calculated how large the impact on youth earnings would have to be, assuming all other impacts were the same as in the five-year analysis, for Arkansas PROMISE's benefits to equal the costs in 10 and 20 years after RA (Appendix Figure C.1). The program would need to generate an average annual impact on youth earnings of \$6,424 per year to be cost neutral 10 years after RA and \$2,003 per year to be cost neutral 20 years after RA. Generating impacts of these sizes is unlikely given that the point estimate of the program's impact on youth earnings in the fifth year after RA was -\$57.

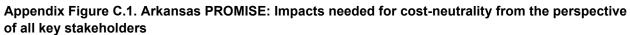
Appendix Table C.29. Arkansas PROMISE: Net benefits (\$) to all stakeholders forecast over 10 and 20 years after RA, under different assumptions about the returns to education and using the upper and lower bound of the earnings impact

| | | F | ederal governm | ent | State and local | |
|--------------------------------------|----------------------------------|--------|----------------|--|--|---|
| | PROMISE youth and families | SSA | ED | Federal government as a whole ^a | government, including PROMISE partners | All key stakeholders (F = A + D + |
| Assumption | (A) | (B) | (C) | (D) | (E) | E) |
| 10-year forecast | | | | | | |
| Returns to education | | | | | | - |
| Persistent high return to education | 2,770 | 523 | -40,289 | -45,818 | 1,948 | -41,100 |
| Diminishing return to education | 2,788 | 528 | -40,289 | -45,812 | 1,948 | -41,075 |
| No return to education | 2,800 | 531 | -40,289 | -45,808 | 1,949 | -41,060 |
| Confidence interval bounds | | • | • | · | | |
| Using upper bound of earnings impact | 7,047 | 1,305 | -40,289 | -44,871 | 2,105 | -35,719 |
| Using lower bound of earnings impact | -903 | -296 | -40,289 | -46,783 | 1,808 | -45,878 |
| 20-year forecast | | | | | | · |
| Returns to education | | | | | | |
| Persistent high return to education | 164 | 962 | -40,289 | -48,631 | 1,416 | -47,051 |
| Diminishing return to education | 254 | 983 | -40,289 | -48,606 | 1,419 | -46,933 |
| No return to education | 265 | 986 | -40,289 | -48,603 | 1,420 | -46,917 |
| Confidence interval bounds | | | | | | |
| Using upper bound of earnings impact | 14,235 | 3,434 | -40,289 | -45,618 | 1,930 | -29,453 |
| Using lower bound of earnings impact | -12,076 | -1,479 | -40,289 | -51,552 | 960 | -62,668 |

Source: See Appendix Table B.4 for details on the sources and methods for the net-benefit calculation.

Note: To construct each component of the benefit-cost analysis, we used either (1) the impact estimates themselves (regardless of whether they were statistically significant), or (2) imputation methods to combine the impact estimates with data from external sources. To construct program costs, we used data from program administrative records, financial documents, staff activity logs, and staff interviews. All benefits and costs are dollars per treatment group family and are inflation-adjusted to 2020 dollars and discounted to 2020 present value. The 10-year and 20-year projections are based on costs observed from the five-year evaluation period and a forecasting scenario for the five and fifteen following years, respectively, assuming that earnings grow over time. Additionally, the persistent high return to education forecasting scenario assumes a return to education of 10 percent per additional year of schooling; the diminishing returns to education scenario assumes the returns to education are 10 percent in Year 6 and then diminish over time to zero percent in Year 10; and the no return to education scenario assumes no increase over time in the return to education.





Note: The first bar shows the estimated impact on youth earnings in Year 5 after RA. The second bar shows the impact on youth earnings needed every year between Years 6 and 10 after RA for the program to be cost neutral 10 years after RA, assuming other benefits and costs are held constant between Years 6 and 10 years after RA. The third bar shows the impact on youth earnings needed every year between Years 6 and 20 after RA for the program to be cost neutral 20 years after RA, assuming other benefits and costs are held constant between Years 6 and 20 after RA for the program to be cost neutral 20 years after RA, assuming other benefits and costs are held constant between Years 6 and 20 after RA for the program to be cost neutral 20 years after RA, assuming other benefits and costs are held constant between Years 6 and 20 after RA. All values are per treatment group family, inflation-adjusted to 2020 dollars, and discounted to 2020 present value.

RA = random assignment.

Appendix D. ASPIRE Impacts, Benefits, and Costs

A. Enrollees and analysis samples

The full research sample for the evaluation of ASPIRE consists of the 1,953 youth who enrolled in the evaluation and were randomly assigned, as well as their families. To assess the extent to which the findings might reflect the baseline characteristics of various samples, we compared differences between (1) the treatment and control groups, (2) survey respondents and nonrespondents, and (3) self-reporting and proxy youth respondents.

1. Differences between the treatment and control groups

We compared 25 baseline characteristics of the treatment and control groups for four samples: all youth survey respondents, all parent survey respondents, all enrollees, and all proxy youth respondents (Appendix Tables D.1–D.4). The similarity of samples across the characteristics examined suggest that RA created treatment and control groups that were equivalent in their baseline characteristics. Although we found statistically significant differences for a few characteristics, they are not concerning for two reasons. First, with a significance level of 10 percent, we expect to reject the null hypothesis that the groups were equivalent for 1 out of every 10 characteristics by chance alone, even when the two groups in fact had no underlying differences. Second, we included characteristics that were significantly different at baseline as covariates in our regression-adjusted impact analyses, allowing us to control for the observed differences.

Appendix Table D.1. ASPIRE: Baseline characteristics of youth survey respondents (percentages, unless otherwise noted)

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| Demographic characteristics | | | | | |
| Youth is female | 32.6 | 33.5 | 31.7 | 1.8 | 0.44 |
| Youth age at RA | | | | | 0.88 |
| 14 | 37.6 | 37.4 | 37.9 | -0.6 | |
| 15 | 31.7 | 32.3 | 31.1 | 1.2 | |
| 16 | 30.7 | 30.4 | 31.0 | -0.6 | |
| Average age at RA | 15.4 | 15.4 | 15.4 | -0.0 | 0.86 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 91.8 | 91.0 | 92.5 | -1.5 | 0.27 |
| Prefers English for spoken language | 91.3 | 90.8 | 91.9 | -1.1 | 0.42 |
| Youth living arrangement at SSI application | | | | † | 0.05 |
| In parents' household | 83.5 | 83.5 | 83.6 | -0.1 | |
| Own household or alone | 13.6 | 14.6 | 12.7 | 1.9 | |
| Another household and receiving support | 2.8 | 1.9 | 3.8 | -1.9 | |
| Youth race and ethnicity | | | | | 1.00 |
| Non-Hispanic White | 37.7 | 37.3 | 38.1 | -0.8 | |
| Non-Hispanic Black | 11.3 | 11.1 | 11.5 | -0.4 | |
| Hispanic | 37.4 | 37.9 | 36.9 | 1.0 | |
| Non-Hispanic American Indian | 5.8 | 5.9 | 5.7 | 0.2 | |
| Non-Hispanic other or mixed race | 7.5 | 7.5 | 7.5 | 0.1 | |
| Missing | 0.2 | 0.2 | 0.2 | -0.0 | |
| Enrolling parent age at RA | 44.0 | 43.8 | 44.2 | -0.4 | 0.39 |
| Parent race and ethnicity | | | | | 0.11 |
| Non-Hispanic White | 45.4 | 44.2 | 46.6 | -2.4 | |
| Non-Hispanic Black | 11.5 | 10.6 | 12.4 | -1.7 | |
| Hispanic | 31.9 | 33.3 | 30.6 | 2.7 | |
| Non-Hispanic American Indian | 5.9 | 5.6 | 6.3 | -0.7 | |
| Non-Hispanic other or mixed race | 4.7 | 6.0 | 3.4 | 2.5 | |
| Missing | 0.6 | 0.4 | 0.7 | -0.4 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.47 |
| Intellectual or developmental disability | 45.0 | 46.2 | 43.9 | 2.3 | |
| Speech, hearing, or visual impairment | 2.3 | 2.1 | 2.5 | -0.5 | |
| Physical disability | 19.1 | 20.0 | 18.3 | 1.7 | |
| Other mental impairment | 28.7 | 26.7 | 30.6 | -3.9 | |
| Other or unknown disability | 4.9 | 5.0 | 4.7 | 0.4 | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 91.2 | 91.2 | 91.2 | 0.0 | 0.99 |
| Received OASDI | 10.0 | 11.3 | 8.7 | 2.6* | 0.08 |
| Years between youth's earliest SSI eligibility and RA | 8.8 | 8.8 | 8.8 | 0.0 | 0.93 |
| Youth age at most recent SSI application | 7.2 | 7.1 | 7.3 | -0.1 | 0.50 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,087 | 7,060 | 7,114 | -54 | 0.65 |
| OASDI | 298 | 313 | 284 | 28 | 0.62 |
| Total SSI and OASDI | 7,385 | 7,373 | 7,398 | -25 | 0.82 |
| Household had multiple SSI-eligible children | 17.8 | 17.8 | 17.8 | -0.1 | 0.97 |
| Enrolling parent provided a valid SSN at RA | 71.3 | 71.8 | 70.9 | 1.0 | 0.67 |
| Parents included in the administrative data | | | | | 0.86 |
| None | 8.1 | 7.9 | 8.3 | -0.4 | |
| One parent | 49.6 | 49.1 | 50.0 | -0.9 | |
| Two parents | 42.4 | 43.0 | 41.7 | 1.3 | |
| Parent SSA payment status at RA | | | | | 0.97 |
| Any parent received SSI only | 9.1 | 8.6 | 9.5 | -0.9 | |
| Any parent received OASDI only | 9.3 | 9.5 | 9.2 | 0.3 | |
| Any parent received both SSI and OASDI | 4.4 | 4.4 | 4.5 | -0.2 | |
| No parent received any SSA payments | 69.1 | 69.6 | 68.5 | 1.1 | |
| No parent was included in the SSA data analyses | 8.1 | 7.9 | 8.3 | -0.4 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 1.6 | 1.8 | 1.4 | 0.4 | 0.53 |
| Youth earnings in the calendar year before RA (\$) | 11 | 16 | 7 | 8 | 0.15 |
| Parent had earnings in the calendar year before RA | 71.9 | 71.3 | 72.4 | -1.1 | 0.64 |
| Parent earnings in the calendar year before RA (\$) | 19,682 | 19,944 | 19,422 | 522 | 0.64 |
| Number of youth | 1,592 | 797 | 795 | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes all youth who completed the PROMISE five-year youth survey. We weighted the statistics to adjust for survey nonresponse. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

Appendix Table D.2. ASPIRE: Baseline characteristics of parent survey respondents (percentages, unless otherwise noted)

| Deceline alconectoristic | All | Treatment | Control | Difference | |
|--|------|-----------|---------|------------|-----------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | <i>p</i> -value |
| Demographic characteristics | | | | | |
| Youth is female | 32.8 | 33.6 | 32.0 | 1.7 | 0.49 |
| Youth age at RA | | | | | 0.93 |
| 14 | 37.5 | 37.4 | 37.7 | -0.3 | |
| 15 | 31.8 | 32.2 | 31.4 | 0.9 | |
| 16 | 30.7 | 30.4 | 31.0 | -0.6 | |
| Average age at RA | 15.4 | 15.4 | 15.4 | -0.0 | 0.62 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 91.6 | 91.1 | 92.1 | -1.1 | 0.44 |
| Prefers English for spoken language | 91.1 | 90.7 | 91.5 | -0.8 | 0.56 |
| Youth living arrangement at SSI application | | | | <u>††</u> | 0.04 |
| In parents' household | 84.3 | 84.0 | 84.7 | -0.7 | |
| Own household or alone | 13.1 | 14.3 | 11.8 | 2.5 | |
| Another household and receiving support | 2.6 | 1.7 | 3.5 | -1.8 | |
| Youth race and ethnicity | | | | | 0.90 |
| Non-Hispanic White | 37.7 | 37.0 | 38.3 | -1.3 | |
| Non-Hispanic Black | 10.8 | 10.3 | 11.2 | -0.9 | |
| Hispanic | 37.9 | 38.2 | 37.5 | 0.7 | |
| Non-Hispanic American Indian | 5.9 | 6.5 | 5.3 | 1.1 | |
| Non-Hispanic other or mixed race | 7.6 | 7.7 | 7.5 | 0.2 | |
| Missing | 0.2 | 0.3 | 0.1 | 0.1 | |
| Enrolling parent age at RA | 43.6 | 43.6 | 43.6 | 0.0 | 0.93 |
| Parent race and ethnicity | | | | | 0.25 |
| Non-Hispanic White | 45.5 | 44.0 | 46.9 | -2.9 | |
| Non-Hispanic Black | 11.2 | 10.3 | 12.1 | -1.8 | |
| Hispanic | 32.3 | 33.4 | 31.1 | 2.4 | |
| Non-Hispanic American Indian | 6.0 | 6.0 | 5.9 | 0.0 | |
| Non-Hispanic other or mixed race | 4.7 | 5.9 | 3.6 | 2.3 | |
| Missing | 0.4 | 0.4 | 0.4 | -0.0 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.43 |
| Intellectual or developmental disability | 45.4 | 46.3 | 44.4 | 2.0 | |
| Speech, hearing, or visual impairment | 2.4 | 1.9 | 2.9 | -1.0 | |
| Physical disability | 19.2 | 20.0 | 18.4 | 1.7 | |
| Other mental impairment | 28.1 | 26.7 | 29.6 | -2.9 | |
| Other or unknown disability | 4.9 | 5.0 | 4.8 | 0.3 | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 91.2 | 91.3 | 91.1 | 0.2 | 0.88 |
| Received OASDI | 10.2 | 11.4 | 9.1 | 2.4 | 0.13 |
| Years between youth's earliest SSI eligibility and RA | 8.8 | 8.8 | 8.7 | 0.0 | 0.85 |
| Youth age at most recent SSI application | 7.2 | 7.1 | 7.3 | -0.2 | 0.40 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,073 | 7,045 | 7,101 | -56 | 0.64 |
| OASDI | 301 | 317 | 285 | 32 | 0.58 |
| Total SSI and OASDI | 7,374 | 7,362 | 7,386 | -24 | 0.83 |
| Household had multiple SSI-eligible children | 18.5 | 18.5 | 18.6 | -0.1 | 0.95 |
| Enrolling parent provided a valid SSN at RA | 71.5 | 71.9 | 71.2 | 0.7 | 0.75 |
| Parents included in the administrative data | | | | | 0.95 |
| None | 7.8 | 8.0 | 7.6 | 0.4 | |
| One parent | 49.5 | 49.2 | 49.7 | -0.4 | |
| Two parents | 42.8 | 42.8 | 42.8 | 0.0 | |
| Parent SSA payment status at RA | | | | | 0.87 |
| Any parent received SSI only | 8.7 | 8.0 | 9.5 | -1.5 | |
| Any parent received OASDI only | 9.5 | 9.8 | 9.1 | 0.6 | |
| Any parent received both SSI and OASDI | 4.3 | 4.4 | 4.2 | 0.2 | |
| No parent received any SSA payments | 69.8 | 69.9 | 69.6 | 0.2 | |
| No parent was included in the SSA data analyses | 7.8 | 8.0 | 7.6 | 0.4 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 1.7 | 1.7 | 1.6 | 0.1 | 0.90 |
| Youth earnings in the calendar year before RA (\$) | 12 | 15 | 10 | 5 | 0.39 |
| Parent had earnings in the calendar year before RA | 72.6 | 71.8 | 73.4 | -1.6 | 0.50 |
| Parent earnings in the calendar year before RA (\$) | 20,031 | 20,091 | 19,972 | 119 | 0.92 |
| Number of youth | 1,547 | 781 | 766 | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes all youth whose parent completed the PROMISE five-year youth survey. We weighted the statistics to adjust for survey nonresponse. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

Appendix Table D.3. ASPIRE: Baseline characteristics of all youth enrollees (percentages, unless otherwise noted)

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p</i> -value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| Demographic characteristics | | | () | | |
| Youth is female | 32.8 | 33.7 | 31.8 | 1.9 | 0.36 |
| Youth age at RA | | | | | 0.92 |
| 14 | 37.2 | 37.5 | 36.8 | 0.7 | |
| 15 | 32.0 | 31.6 | 32.4 | -0.8 | |
| 16 | 30.8 | 30.9 | 30.8 | 0.1 | |
| Average age at RA | 15.4 | 15.4 | 15.4 | -0.0 | 0.67 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 92.0 | 92.3 | 91.7 | 0.6 | 0.60 |
| Prefers English for spoken language | 91.7 | 92.0 | 91.3 | 0.7 | 0.55 |
| Youth living arrangement at SSI application | | | | | 0.15 |
| In parents' household | 83.6 | 83.9 | 83.2 | 0.8 | |
| Own household or alone | 13.6 | 13.9 | 13.2 | 0.7 | |
| Another household and receiving support | 2.9 | 2.1 | 3.6 | -1.4 | |
| Youth race and ethnicity | | | | | 0.88 |
| Non-Hispanic White | 37.9 | 37.4 | 38.4 | -0.9 | |
| Non-Hispanic Black | 11.6 | 11.6 | 11.6 | -0.0 | |
| Hispanic | 37.1 | 36.7 | 37.4 | -0.7 | |
| Non-Hispanic American Indian | 6.0 | 6.6 | 5.3 | 1.3 | |
| Non-Hispanic other or mixed race | 7.0 | 7.2 | 6.9 | 0.3 | |
| Missing | 0.5 | 0.5 | 0.4 | 0.1 | |
| Enrolling parent age at RA | 43.9 | 43.7 | 44.1 | -0.3 | 0.47 |
| Parent race and ethnicity | | | | | 0.49 |
| Non-Hispanic White | 45.2 | 44.4 | 45.9 | -1.6 | |
| Non-Hispanic Black | 12.0 | 11.7 | 12.3 | -0.7 | |
| Hispanic | 31.4 | 31.7 | 31.1 | 0.6 | |
| Non-Hispanic American Indian | 6.2 | 6.3 | 6.2 | 0.2 | |
| Non-Hispanic other or mixed race | 4.4 | 5.2 | 3.5 | 1.7 | |
| Missing | 0.9 | 0.7 | 1.0 | -0.3 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.29 |
| Intellectual or developmental disability | 44.7 | 46.1 | 43.3 | 2.8 | |
| Speech, hearing, or visual impairment | 2.5 | 2.1 | 2.8 | -0.6 | |
| Physical disability | 19.1 | 19.7 | 18.5 | 1.3 | |
| Other mental impairment | 28.9 | 26.9 | 30.9 | -4.0 | |
| Other or unknown disability | 4.9 | 5.1 | 4.6 | 0.5 | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 91.6 | 91.8 | 91.3 | 0.5 | 0.67 |
| Received OASDI | 10.4 | 11.9 | 8.9 | 2.9** | 0.03 |
| Years between youth's earliest SSI eligibility and RA | 8.8 | 8.8 | 8.7 | 0.1 | 0.54 |
| Youth age at most recent SSI application | 7.2 | 7.1 | 7.3 | -0.2 | 0.30 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,117 | 7,088 | 7,146 | -58 | 0.58 |
| OASDI | 296 | 307 | 286 | 22 | 0.66 |
| Total SSI and OASDI | 7,414 | 7,396 | 7,432 | -36 | 0.71 |
| Household had multiple SSI-eligible children | 17.7 | 18.2 | 17.2 | 1.0 | 0.57 |
| Enrolling parent provided a valid SSN at RA | 71.2 | 71.6 | 70.8 | 0.8 | 0.69 |
| Parents included in the administrative data | | | | | 0.73 |
| None | 8.5 | 8.1 | 8.9 | -0.8 | |
| One parent | 49.8 | 49.6 | 50.1 | -0.5 | |
| Two parents | 41.7 | 42.3 | 41.0 | 1.3 | |
| Parent SSA payment status at RA | | | | | 0.82 |
| Any parent received SSI only | 8.7 | 8.4 | 9.0 | -0.6 | |
| Any parent received OASDI only | 9.6 | 10.2 | 8.9 | 1.3 | |
| Any parent received both SSI and OASDI | 4.0 | 4.1 | 4.0 | 0.1 | |
| No parent received any SSA payments | 69.2 | 69.2 | 69.1 | 0.1 | |
| No parent was included in the SSA data analyses | 8.5 | 8.1 | 8.9 | -0.8 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 1.4 | 1.4 | 1.4 | -0.0 | 0.99 |
| Youth earnings in the calendar year before RA (\$) | 11 | 12 | 11 | 2 | 0.76 |
| Parent had earnings in the calendar year before RA | 72.3 | 71.4 | 73.2 | -1.8 | 0.40 |
| Parent earnings in the calendar year before RA (\$) | 19,798 | 19,787 | 19,808 | -21 | 0.98 |
| Number of youth | 1,953 | 978 | 975 | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes all youth who enrolled in PROMISE. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

 $\frac{1}{1}$ Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

Appendix Table D.4. ASPIRE: Baseline characteristics of proxy youth survey respondents (percentages, unless otherwise noted)

| | All | Treatment | Control | Difference | |
|--|------|-----------|---------|------------|-----------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | <i>p-</i> value |
| Demographic characteristics | | | | | |
| Youth is female | 28.2 | 30.1 | 26.5 | 3.6 | 0.38 |
| Youth age at RA | | | | | 0.69 |
| 14 | 35.1 | 37.0 | 33.3 | 3.7 | |
| 15 | 33.5 | 32.7 | 34.2 | -1.5 | |
| 16 | 31.5 | 30.3 | 32.5 | -2.2 | |
| Average age at RA | 15.4 | 15.4 | 15.5 | -0.1 | 0.19 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 88.1 | 87.5 | 88.7 | -1.2 | 0.67 |
| Prefers English for spoken language | 87.3 | 87.5 | 87.2 | 0.3 | 0.93 |
| Youth living arrangement at SSI application | | | | | 0.17 |
| In parents' household | 83.4 | 85.6 | 81.3 | 4.3 | |
| Own household or alone | 14.6 | 13.5 | 15.6 | -2.1 | |
| Another household and receiving support | 2.1 | 0.9 | 3.1 | -2.2 | |
| Youth race and ethnicity | | | | | 0.87 |
| Non-Hispanic White | 35.3 | 36.0 | 34.7 | 1.3 | |
| Non-Hispanic Black | 11.9 | 10.2 | 13.3 | -3.1 | |
| Hispanic | 40.5 | 40.8 | 40.3 | 0.5 | |
| Non-Hispanic American Indian | 5.0 | 4.7 | 5.4 | -0.7 | |
| Non-Hispanic other or mixed race | 6.9 | 7.9 | 6.0 | 1.9 | |
| Missing | 0.4 | 0.4 | 0.4 | 0.0 | |
| Enrolling parent age at RA | 44.3 | 43.8 | 44.7 | -0.9 | 0.23 |
| Parent race and ethnicity | | | | | 0.12 |
| Non-Hispanic White | 42.7 | 43.5 | 41.9 | 1.6 | |
| Non-Hispanic Black | 12.2 | 10.2 | 14.0 | -3.8 | |
| Hispanic | 34.9 | 34.5 | 35.3 | -0.8 | |
| Non-Hispanic American Indian | 5.7 | 4.7 | 6.5 | -1.8 | |
| Non-Hispanic other or mixed race | 4.0 | 6.3 | 1.9 | 4.5 | |
| Missing | 0.6 | 0.8 | 0.4 | 0.5 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.71 |
| Intellectual or developmental disability | 45.6 | 45.1 | 46.1 | -1.0 | |
| Speech, hearing, or visual impairment | 1.2 | 1.3 | 1.2 | 0.1 | |
| Physical disability | 22.1 | 24.7 | 19.8 | 4.9 | |
| Other mental impairment | 25.1 | 23.0 | 27.0 | -3.9 | |
| Other or unknown disability | 5.9 | 5.9 | 6.0 | -0.1 | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 91.7 | 92.4 | 91.0 | 1.4 | 0.58 |
| Received OASDI | 10.2 | 12.1 | 8.5 | 3.6 | 0.20 |
| Years between youth's earliest SSI eligibility and RA | 9.3 | 9.1 | 9.4 | -0.3 | 0.41 |
| Youth age at most recent SSI application | 6.8 | 6.9 | 6.8 | 0.2 | 0.66 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,182 | 7,158 | 7,203 | -44 | 0.83 |
| OASDI | 307 | 308 | 306 | 2 | 0.98 |
| Total SSI and OASDI | 7,489 | 7,466 | 7,509 | -42 | 0.83 |
| Household had multiple SSI-eligible children | 14.5 | 16.8 | 12.5 | 4.3 | 0.17 |
| Enrolling parent provided a valid SSN at RA | 69.3 | 71.3 | 67.4 | 3.9 | 0.35 |
| Parents included in the administrative data | | | | | 0.59 |
| None | 8.7 | 7.7 | 9.6 | -1.8 | |
| One parent | 48.4 | 47.2 | 49.4 | -2.2 | |
| Two parents | 42.9 | 45.0 | 41.0 | 4.0 | |
| Parent SSA payment status at RA | | | | | 0.88 |
| Any parent received SSI only | 6.9 | 5.9 | 7.7 | -1.7 | |
| Any parent received OASDI only | 9.7 | 9.8 | 9.7 | 0.2 | |
| Any parent received both SSI and OASDI | 4.1 | 4.2 | 3.9 | 0.3 | |
| No parent received any SSA payments | 70.6 | 72.3 | 69.2 | 3.1 | |
| No parent was included in the SSA data analyses | 8.7 | 7.7 | 9.6 | -1.8 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 0.4 | 0.0 | 0.8 | -0.8 | 0.16 |
| Youth earnings in the calendar year before RA (\$) | 99 | 0 | 2 | -2 | 0.23 |
| Parent had earnings in the calendar year before RA | 72.1 | 70.6 | 73.6 | -3.0 | 0.48 |
| Parent earnings in the calendar year before RA (\$) | 20,565 | 20,259 | 20,846 | -587 | 0.78 |
| Number of youth | 496 | 237 | 259 | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes all youth who completed the PROMISE five-year youth survey by proxy. We weighted the statistics to adjust for survey nonresponse. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

2. Differences between survey respondents and nonrespondents

We compared youth and parent survey respondents with nonrespondents across 25 baseline characteristics to assess the extent to which survey nonresponse might limit generalizability of the impact findings to all evaluation enrollees (Appendix Tables D.5 and D.6). Youth survey respondents differed from nonrespondents with respect to youth's spoken language preference. Parent survey respondents differed from nonrespondents with respect to youth's written and spoken language preferences, the years between youth's earliest SSI eligibility and RA, youth age at most recent SSI application, youth's SSI and total benefits in the year before RA, the share of youth with earnings in the year before RA, and parents' earnings in the year before RA. Overall, even when the differences were statistically significant, they generally were small. The extent and magnitude of the differences suggested that the respondents were not markedly different from the nonrespondents. To account for survey nonresponse, we calculated and used survey weights in all regression models to estimate impacts on the survey-based outcome measures.

Appendix Table D.5. ASPIRE: Baseline characteristics of youth survey respondents and nonrespondents (percentages, unless otherwise noted)

| | All | | Nonrespondents | | p- |
|--|------|------|----------------|------------|-------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | value |
| Demographic characteristics | | | | | |
| Youth is female | 32.8 | 32.7 | 33.2 | -0.6 | 0.83 |
| Youth age at RA | | | | | 0.58 |
| 14 | 37.2 | 37.7 | 34.9 | 2.8 | |
| 15 | 32.0 | 31.6 | 33.8 | -2.2 | |
| 16 | 30.8 | 30.7 | 31.3 | -0.6 | |
| Average age at RA | 15.4 | 15.4 | 15.4 | -0.0 | 0.56 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 92.0 | 91.6 | 93.6 | -2.0 | 0.17 |
| Prefers English for spoken language | 91.7 | 91.2 | 93.6 | -2.4* | 0.10 |
| Youth living arrangement at SSI application | | | | | 0.93 |
| In parents' household | 83.6 | 83.5 | 83.9 | -0.5 | |
| Own household or alone | 13.6 | 13.7 | 13.0 | 0.7 | |
| Another household and receiving support | 2.9 | 2.8 | 3.0 | -0.2 | |
| Youth race and ethnicity | | | | <u>†††</u> | 0.00 |
| Non-Hispanic White | 37.9 | 38.4 | 35.5 | 3.0 | |
| Non-Hispanic Black | 11.6 | 10.4 | 16.9 | -6.5 | |
| Hispanic | 37.1 | 37.6 | 34.9 | 2.7 | |
| Non-Hispanic American Indian | 6.0 | 5.9 | 6.4 | -0.5 | |
| Non-Hispanic other or mixed race | 7.0 | 7.5 | 5.0 | 2.5 | |
| Missing | 0.5 | 0.3 | 1.4 | -1.1 | |
| Enrolling parent age at RA | 43.9 | 44.0 | 43.3 | 0.7 | 0.25 |
| Parent race and ethnicity | | | | <u>†††</u> | 0.00 |
| Non-Hispanic White | 45.2 | 46.2 | 40.7 | 5.4 | |
| Non-Hispanic Black | 12.0 | 10.6 | 18.0 | -7.4 | |
| Hispanic | 31.4 | 32.0 | 28.5 | 3.5 | |
| Non-Hispanic American Indian | 6.2 | 6.0 | 7.5 | -1.5 | |
| Non-Hispanic other or mixed race | 4.4 | 4.6 | 3.0 | 1.6 | |
| Missing | 0.9 | 0.6 | 2.2 | -1.7 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.60 |
| Intellectual or developmental disability | 44.7 | 45.2 | 42.4 | 2.8 | |
| Speech, hearing, or visual impairment | 2.5 | 2.3 | 3.3 | -1.1 | |
| Physical disability | 19.1 | 19.2 | 18.8 | 0.3 | |
| Other mental impairment | 28.9 | 28.4 | 31.0 | -2.6 | |
| Other or unknown disability | 4.9 | 5.0 | 4.4 | 0.5 | |

| Baseline characteristic | All (A) | Respondents (B) | Nonrespondents (C) | Difference (B – C) | <i>p-</i> value |
|---|------------|--------------------|-----------------------|-----------------------|--------------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 91.6 | 91.2 | 93.1 | -1.9 | 0.22 |
| Received OASDI | 10.4 | 10.0 | 12.2 | -2.2 | 0.24 |
| Years between youth's earliest SSI eligibility and RA | 8.8 | 8.8 | 8.5 | 0.3 | 0.20 |
| Youth age at most recent SSI application | 7.2 | 7.2 | 7.5 | -0.3 | 0.17 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,117 | 7,086 | 7,254 | -168 | 0.19 |
| OASDI | 296 | 298 | 289 | 9 | 0.88 |
| Total SSI and OASDI | 7,414 | 7,384 | 7,543 | -159 | 0.20 |
| Household had multiple SSI-eligible children | 17.7 | 18.2 | 15.6 | 2.7 | 0.21 |
| Enrolling parent provided a valid SSN at RA | 71.2 | 71.3 | 70.6 | 0.7 | 0.80 |
| Parents included in the administrative data | | | | † | 0.07 |
| None | 8.5 | 8.0 | 10.5 | -2.5 | |
| One parent | 49.8 | 49.2 | 52.6 | -3.4 | |
| Two parents | 41.7 | 42.8 | 36.8 | 5.9 | |
| Parent SSA payment status at RA | | | | | 0.12 |
| Any parent received SSI only | 8.7 | 9.0 | 7.2 | 1.8 | |
| Any parent received OASDI only | 9.6 | 9.4 | 10.5 | -1.2 | |
| Any parent received both SSI and OASDI | 4.0 | 4.5 | 2.2 | 2.2 | |
| No parent received any SSA payments | 69.2 | 69.1 | 69.5 | -0.4 | |
| No parent was included in the SSA data analyses | 8.5 | 8.0 | 10.5 | -2.5 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 1.4 | 1.6 | 0.8 | 0.7 | 0.20 |
| Youth earnings in the calendar year before RA (\$) | 11 | 11 | 13 | -2 | 0.80 |
| Parent had earnings in the calendar year before RA | 72.3 | 71.9 | 74.0 | -2.1 | 0.45 |
| Parent earnings in the calendar year before RA (\$) | 19,798 | 19,779 | 19,882 | -103 | 0.93 |
| | | | | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes all youth who enrolled in PROMISE. Nonrespondents include youth ineligible for the survey because they died or withdrew from the study. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (p-value is less than .10/.05/.01) using a two-tailed t-test.

+/++/+++ Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

Appendix Table D.6. ASPIRE: Baseline characteristics of parent survey respondents and nonrespondents (percentages, unless otherwise noted)

| | All | | Nonrespondents | | р- |
|--|------|------|----------------|-------------|-------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | value |
| Demographic characteristics | | | | | |
| Youth is female | 32.8 | 32.8 | 32.5 | 0.3 | 0.90 |
| Youth age at RA | | | | | 0.43 |
| 14 | 37.2 | 37.9 | 34.5 | 3.4 | |
| 15 | 32.0 | 31.8 | 32.8 | -1.0 | |
| 16 | 30.8 | 30.3 | 32.8 | -2.4 | |
| Average age at RA | 15.4 | 15.4 | 15.4 | -0.1 | 0.26 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 92.0 | 91.3 | 94.6 | -3.2** | 0.02 |
| Prefers English for spoken language | 91.7 | 90.8 | 94.8 | -4.0*** | 0.00 |
| Youth living arrangement at SSI application | | | | | 0.35 |
| In parents' household | 83.6 | 83.8 | 82.8 | 1.0 | |
| Own household or alone | 13.6 | 13.6 | 13.3 | 0.3 | |
| Another household and receiving support | 2.9 | 2.6 | 3.9 | -1.4 | |
| Youth race and ethnicity | | | | <u>+</u> ++ | 0.00 |
| Non-Hispanic White | 37.9 | 38.3 | 36.2 | 2.1 | |
| Non-Hispanic Black | 11.6 | 10.3 | 16.3 | -5.9 | |
| Hispanic | 37.1 | 37.8 | 34.2 | 3.6 | |
| Non-Hispanic American Indian | 6.0 | 5.8 | 6.7 | -0.8 | |
| Non-Hispanic other or mixed race | 7.0 | 7.5 | 5.2 | 2.3 | |
| Missing | 0.5 | 0.2 | 1.5 | -1.3 | |
| Enrolling parent age at RA | 43.9 | 43.7 | 44.7 | -1.0 | 0.15 |
| Parent race and ethnicity | | | | <u>+</u> ++ | 0.00 |
| Non-Hispanic White | 45.2 | 46.2 | 41.1 | 5.1 | |
| Non-Hispanic Black | 12.0 | 10.8 | 16.5 | -5.7 | |
| Hispanic | 31.4 | 32.3 | 28.1 | 4.2 | |
| Non-Hispanic American Indian | 6.2 | 5.8 | 7.9 | -2.1 | |
| Non-Hispanic other or mixed race | 4.4 | 4.5 | 3.7 | 0.8 | |
| Missing | 0.9 | 0.4 | 2.7 | -2.3 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.29 |
| Intellectual or developmental disability | 44.7 | 45.4 | 42.1 | 3.3 | |
| Speech, hearing, or visual impairment | 2.5 | 2.4 | 2.7 | -0.3 | |
| Physical disability | 19.1 | 19.3 | 18.2 | 1.1 | |
| Other mental impairment | 28.9 | 27.8 | 33.0 | -5.2 | |
| Other or unknown disability | 4.9 | 5.1 | 3.9 | 1.2 | |

| Baseline characteristic | All (A) | Respondents (B) | Nonrespondents (C) | Difference (B – C) | <i>p-</i> value |
|---|------------|--------------------|-----------------------|-----------------------|--------------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 91.6 | 91.3 | 92.6 | -1.3 | 0.37 |
| Received OASDI | 10.4 | 10.2 | 11.1 | -0.9 | 0.62 |
| Years between youth's earliest SSI eligibility and RA | 8.8 | 8.8 | 8.5 | 0.4* | 0.09 |
| Youth age at most recent SSI application | 7.2 | 7.1 | 7.6 | -0.4* | 0.06 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,117 | 7,075 | 7,280 | -205* | 0.09 |
| OASDI | 296 | 300 | 283 | 17 | 0.78 |
| Total SSI and OASDI | 7,414 | 7,374 | 7,563 | -188* | 0.10 |
| Household had multiple SSI-eligible children | 17.7 | 18.2 | 15.8 | 2.4 | 0.24 |
| Enrolling parent provided a valid SSN at RA | 71.2 | 71.3 | 70.7 | 0.6 | 0.81 |
| Parents included in the administrative data | | | | <u>+</u> ++ | 0.00 |
| None | 8.5 | 8.0 | 10.3 | -2.3 | |
| One parent | 49.8 | 48.4 | 55.2 | -6.8 | |
| Two parents | 41.7 | 43.6 | 34.5 | 9.1 | |
| Parent SSA payment status at RA | | | | | 0.46 |
| Any parent received SSI only | 8.7 | 8.7 | 8.9 | -0.2 | |
| Any parent received OASDI only | 9.6 | 9.6 | 9.6 | -0.0 | |
| Any parent received both SSI and OASDI | 4.0 | 4.3 | 3.0 | 1.4 | |
| No parent received any SSA payments | 69.2 | 69.4 | 68.2 | 1.2 | |
| No parent was included in the SSA data analyses | 8.5 | 8.0 | 10.3 | -2.3 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 1.4 | 1.6 | 0.7 | 0.9* | 0.10 |
| Youth earnings in the calendar year before RA (\$) | 11 | 12 | 10 | 2 | 0.81 |
| Parent had earnings in the calendar year before RA | 72.3 | 72.7 | 70.6 | 2.1 | 0.42 |
| Parent earnings in the calendar year before RA (\$) | 19,798 | 20,226 | 18,122 | 2,104* | 0.07 |
| Number of youth | 1,953 | 1,547 | 406 | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes the parents who were eligible for the survey. Nonrespondents include parents ineligible for the survey because they died or withdrew from the study. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

3. Differences between self-reporting and proxy youth respondents

We compared the baseline characteristics of youth who self-responded to the survey to those who responded via proxies to assess whether systematically missing data from different survey modes might affect the estimated impacts on survey-based outcomes (Appendix Table D.7). We found differences in 7 of 25 baseline characteristics by survey response type. Compared with self-respondents, youth who responded by proxy were less likely to be female, prefer English as a spoken or written language, live in a household with multiple SSI-eligible children, and be employed in the year before RA; they had lower average earnings in the year before RA, more years between earliest SSI eligibility and RA, and were younger at the time of their most recent SSI application. Because of these differences, findings on survey-based outcomes that are available only for self-respondents might not generalize to all survey respondents.

Appendix Table D.7. ASPIRE: Baseline characteristics of proxy and self-reporting youth survey respondents (percentages, unless otherwise noted)

| Baseline characteristic | All (A) | Proxy respondent (B) | Self- reporting respondent (C) | Difference (B – C) | <i>p</i> -value |
|--|------------|----------------------------|---|-----------------------|-----------------|
| Demographic characteristics | | | | | |
| Youth is female | 32.6 | 28.2 | 34.6 | -6.3** | 0.01 |
| Youth age at RA | | | | | 0.35 |
| 14 | 37.6 | 35.1 | 38.8 | -3.7 | |
| 15 | 31.7 | 33.5 | 30.9 | 2.6 | |
| 16 | 30.7 | 31.5 | 30.3 | 1.1 | |
| Average age at RA | 15.4 | 15.4 | 15.4 | 0.0 | 0.44 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 91.8 | 88.1 | 93.4 | -5.3*** | 0.00 |
| Prefers English for spoken language | 91.3 | 87.3 | 93.1 | -5.8*** | 0.00 |
| Youth living arrangement at SSI application | | | | | 0.36 |
| In parents' household | 83.5 | 83.4 | 83.6 | -0.3 | |
| Own household or alone | 13.6 | 14.6 | 13.2 | 1.4 | |
| Another household and receiving support | 2.8 | 2.1 | 3.2 | -1.1 | |
| Youth race and ethnicity | | | | | 0.43 |
| Non-Hispanic White | 37.7 | 35.3 | 38.8 | -3.5 | |
| Non-Hispanic Black | 11.3 | 11.9 | 11.1 | 0.8 | |
| Hispanic | 37.4 | 40.5 | 36.0 | 4.6 | |
| Non-Hispanic American Indian | 5.8 | 5.0 | 6.2 | -1.2 | |
| Non-Hispanic other or mixed race | 7.5 | 6.9 | 7.7 | -0.8 | |
| Missing | 0.2 | 0.4 | 0.2 | 0.2 | |
| Enrolling parent age at RA | 44.0 | 44.3 | 43.9 | 0.3 | 0.51 |
| Parent race and ethnicity | | | | | 0.50 |
| Non-Hispanic White | 45.4 | 42.7 | 46.6 | -3.9 | |
| Non-Hispanic Black | 11.5 | 12.2 | 11.2 | 1.0 | |
| Hispanic | 31.9 | 34.9 | 30.6 | 4.4 | |
| Non-Hispanic American Indian | 5.9 | 5.7 | 6.1 | -0.4 | |
| Non-Hispanic other or mixed race | 4.7 | 4.0 | 5.0 | -1.1 | |
| Missing | 0.6 | 0.6 | 0.5 | 0.1 | |
| Disability | | | | | |
| Youth primary impairment | | | | <u>††</u> | 0.02 |
| Intellectual or developmental disability | 45.0 | 45.6 | 44.7 | 0.9 | |
| Speech, hearing, or visual impairment | 2.3 | 1.2 | 2.8 | -1.5 | |
| Physical disability | 19.1 | 22.1 | 17.8 | 4.3 | |
| Other mental impairment | 28.7 | 25.1 | 30.3 | -5.2 | |
| Other or unknown disability | 4.9 | 5.9 | 4.4 | 1.5 | |

| Baseline characteristic | All (A) | Proxy respondent (B) | Self- reporting respondent (C) | Difference (B – C) | <i>p</i> -value |
|---|------------|----------------------------|---|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 91.2 | 91.7 | 90.9 | 0.7 | 0.64 |
| Received OASDI | 10.0 | 10.2 | 9.9 | 0.3 | 0.84 |
| Years between youth's earliest SSI eligibility and RA | 8.8 | 9.3 | 8.6 | 0.7*** | 0.00 |
| Youth age at most recent SSI application | 7.2 | 6.8 | 7.4 | -0.5** | 0.03 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,087 | 7,182 | 7,045 | 137 | 0.27 |
| OASDI | 298 | 307 | 294 | 12 | 0.84 |
| Total SSI and OASDI | 7,385 | 7,489 | 7,339 | 149 | 0.21 |
| Household had multiple SSI-eligible children | 17.8 | 14.5 | 19.3 | -4.8** | 0.02 |
| Enrolling parent provided a valid SSN at RA | 71.3 | 69.3 | 72.3 | -3.0 | 0.22 |
| Parents included in the administrative data | | | | | 0.74 |
| None | 8.1 | 8.7 | 7.8 | 0.9 | |
| One parent | 49.6 | 48.4 | 50.1 | -1.7 | |
| Two parents | 42.4 | 42.9 | 42.1 | 0.8 | |
| Parent SSA payment status at RA | | | | | 0.31 |
| Any parent received SSI only | 9.1 | 6.9 | 10.1 | -3.2 | |
| Any parent received OASDI only | 9.3 | 9.7 | 9.2 | 0.6 | |
| Any parent received both SSI and OASDI | 4.4 | 4.1 | 4.6 | -0.5 | |
| No parent received any SSA payments | 69.1 | 70.6 | 68.4 | 2.3 | |
| No parent was included in the SSA data analyses | 8.1 | 8.7 | 7.8 | 0.9 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 1.6 | 0.4 | 2.2 | -1.7*** | 0.00 |
| Youth earnings in the calendar year before RA (\$) | 11 | 1 | 16 | -15*** | 0.00 |
| Parent had earnings in the calendar year before RA | 71.9 | 72.1 | 71.8 | 0.4 | 0.89 |
| Parent earnings in the calendar year before RA (\$) | 19,682 | 20,565 | 19,290 | 1,275 | 0.30 |
| Number of youth | 1,592 | 496 | 1,096 | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes all PROMISE five-year youth survey respondents. We weighted the statistics to adjust for survey nonresponse. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

B. Findings from the impact analysis

In this section, we present findings from the impact analysis of ASPIRE. First, we present impacts estimated through the main models. Second, we present the results of sensitivity analyses. Third, we present impacts for key subgroups of evaluation enrollees.

1. Impact estimates

Appendix Tables D.8–D.17 provide results and inference statistics for the regression-adjusted impacts estimated through the main models described in Appendix B. For each outcome measure, we report the estimated regression-adjusted impact; the control group mean (weighted, as applicable); and additional inference statistics, such as standard errors, effect sizes, and sample sizes by treatment status.

Appendix Table D.8. ASPIRE: Impact on the youth's education and training (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group sample size | Control group sample size |
|--|-----------------|---------|-----------------|-------------------|-------------|--------------------------------------|------------------------------------|
| Primary outcomes | | | | | | | |
| Enrolled in an educational or training program | 38.7 | 0.4 | 0.86 | 2.4 | 0.011 | 775 | 775 |
| Has a GED, high school diploma, or certificate of completion | 74.1 | -4.0* | 0.07 | 2.2 | -0.122 | 791 | 792 |
| Supplementary outcomes | | | | | | | |
| Enrolled in postsecondary education | 11.9 | 0.9 | 0.61 | 1.7 | 0.048 | 779 | 786 |
| Type of school attending | | | | | | | |
| High school serving a variety of students | 8.9 | 2.0 | 0.18 | 1.5 | 0.133 | 779 | 786 |
| High school serving only students with disabilities | 4.8 | -0.2 | 0.83 | 1.0 | -0.030 | 779 | 786 |
| GED program or other adult education program | 3.2 | -1.9*** | 0.01 | 0.7 | -0.559 | 779 | 786 |
| Postsecondary vocational, trade, or technical school | 2.7 | 0.3 | 0.70 | 0.8 | 0.071 | 779 | 786 |
| Postsecondary college or advanced degree program | 9.2 | 0.5 | 0.72 | 1.5 | 0.037 | 779 | 786 |
| Other type of school | 3.3 | -0.8 | 0.34 | 0.8 | -0.167 | 779 | 786 |
| Not attending school | 67.9 | 0.1 | 0.97 | 2.3 | 0.002 | 779 | 786 |
| Highest grade completed | | | | | | | |
| Lower than 12th grade | 20.7 | 2.9 | 0.15 | 2.1 | 0.103 | 797 | 795 |
| 12th grade or senior in high school | 69.7 | -4.8** | 0.04 | 2.4 | -0.133 | 797 | 795 |
| Some or all of college or university | 6.7 | 2.4* | 0.08 | 1.4 | 0.202 | 797 | 795 |
| Other or do not know | 2.9 | -0.5 | 0.55 | 0.8 | -0.114 | 797 | 795 |
| Enrolled in a training program | 10.4 | 0.9 | 0.57 | 1.6 | 0.057 | 759 | 768 |
| Received any training credential in the past year | 6.6 | 2.6* | 0.06 | 1.4 | 0.217 | 786 | 785 |
| Any school suspensions or expulsions in the past year | 1.2 | 1.3* | 0.06 | 0.7 | 0.454 | 761 | 768 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group sample size | Control group sample size |
|--|-----------------|--------|-----------------|-------------------|-------------|--------------------------------------|------------------------------------|
| Accommodations | | | | | | | |
| Receives educational accommodation | 23.7 | -0.7 | 0.74 | 2.0 | -0.023 | 781 | 784 |
| Receives training accommodation | 6.7 | 0.1 | 0.93 | 1.3 | 0.010 | 758 | 767 |
| Received supports or services for postsecondary education in the past year | 26.3 | -2.9 | 0.18 | 2.2 | -0.095 | 786 | 788 |

Source: PROMISE five-year surveys.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of ASPIRE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

GED = General Educational Development.

Appendix Table D.9. ASPIRE: Impact on the youth's employment and earnings (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|--------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Employed in a paid job in the past year ^a | 43.1 | -0.6 | 0.81 | 2.4 | -0.014 | 797 | 795 |
| Earnings in the past year (\$) | 4,984 | 110 | 0.81 | 461 | 0.012 | 797 | 795 |
| Earnings during the five calendar years after RA (\$) | 12,892 | -582 | 0.51 | 880 | -0.028 | 978 | 975 |
| Supplementary outcomes | | | | | | | |
| Employment in the past year | | | | | | | |
| Any employment | 48.4 | 1.8 | 0.45 | 2.4 | 0.045 | 797 | 795 |
| Weekly hours worked | 7.7 | 0.2 | 0.74 | 0.7 | 0.016 | 797 | 795 |
| Employed in a paid job offering fringe benefits | 24.6 | 3.2 | 0.16 | 2.3 | 0.100 | 797 | 795 |
| Employment settings | | | | | | | |
| Integrated | 35.2 | -2.9 | 0.21 | 2.3 | -0.079 | 797 | 795 |
| Outside of school-sponsored activities | 39.4 | -0.7 | 0.78 | 2.4 | -0.017 | 797 | 795 |
| With coaching | 6.8 | 2.2 | 0.12 | 1.4 | 0.188 | 797 | 795 |
| Received supports or services in getting or keeping a job | 20.9 | 1.4 | 0.50 | 2.0 | 0.049 | 788 | 789 |
| Employment at the time of the survey | | | | | | | |
| Any paid employment | 28.1 | -1.1 | 0.63 | 2.2 | -0.033 | 797 | 795 |
| Average weekly earnings (\$) | 99 | -5 | 0.57 | 10 | -0.028 | 797 | 795 |
| Weekly hours worked | 7.9 | -0.3 | 0.67 | 0.7 | -0.021 | 797 | 795 |
| Labor force participation | 49.9 | 2.5 | 0.31 | 2.4 | 0.060 | 797 | 795 |
| Employment and earnings in calendar years after RA | | | | | | | |
| Ever employed in Year 1 | 14.3 | 2.5* | 0.09 | 1.5 | 0.117 | 978 | 975 |
| Ever employed in Year 2 | 27.5 | 2.7 | 0.15 | 1.9 | 0.081 | 978 | 975 |
| Ever employed in Year 3 | 37.0 | 2.1 | 0.29 | 2.0 | 0.055 | 978 | 975 |
| Ever employed in Year 4 | 44.5 | 2.2 | 0.30 | 2.1 | 0.053 | 978 | 975 |
| Ever employed in Year 5 | 47.2 | -0.6 | 0.77 | 2.1 | -0.015 | 978 | 975 |
| Ever employed during Years 1-5 | 59.1 | 1.8 | 0.37 | 2.0 | 0.046 | 978 | 975 |
| Earnings in Year 1 (\$) | 348 | 32 | 0.56 | 56 | 0.025 | 978 | 975 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|---------|-----------------|-------------------|-------------|----------------------|--------------------|
| Earnings in Year 2 (\$) | 980 | -108 | 0.31 | 107 | -0.044 | 978 | 975 |
| Earnings in Year 3 (\$) | 2,216 | -29 | 0.89 | 202 | -0.006 | 978 | 975 |
| Earnings in Year 4 (\$) | 3,902 | -75 | 0.80 | 301 | -0.011 | 978 | 975 |
| Earnings in Year 5 (\$) | 5,447 | -403 | 0.30 | 385 | -0.045 | 978 | 975 |
| VR services during the 5 years after RA ^a | | | | | | | |
| Applied for VR services | 25.9 | 15.2*** | 0.00 | 2.0 | 0.419 | 978 | 975 |
| Received VR services | 20.6 | 13.5*** | 0.00 | 1.9 | 0.418 | 978 | 975 |

Source: PROMISE five-year survey, RSA-911 data (VR service outcomes), and SSA administrative records (employment and earnings in years after RA).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of ASPIRE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

^a RSA-911 data are available only through 2020. VR services outcomes used only four years of data for youth who enrolled in PROMISE in 2016.

N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration; VR = vocational rehabilitation.

Appendix Table D.10. ASPIRE: Impact on the youth's self-determination and expectations (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Self-determination score (scale: 0 to 100) ^a | 79.5 | -0.6 | 0.48 | 0.9 | -0.044 | 528 | 517 |
| Youth expects to be financially independent at age 25 | 56.1 | -0.0 | 0.99 | 3.0 | -0.001 | 539 | 526 |
| Supplementary outcomes | | | | | | | |
| Scores on subdomains of self-determination ^a | | | | | | | |
| Autonomy (scale: 0 to 300) | 147.7 | -1.3 | 0.73 | 3.6 | -0.022 | 531 | 518 |
| Psychological empowerment (scale: 0 to 100) | 88.5 | -0.6 | 0.57 | 1.1 | -0.035 | 529 | 518 |
| Self-realization (scale: 0 to 100) | 91.2 | -0.5 | 0.62 | 1.0 | -0.031 | 530 | 516 |
| Agentic action (scale: 0 to 100) | 89.4 | -1.0 | 0.46 | 1.4 | -0.046 | 527 | 513 |
| Youth expects to: | | | | | | | |
| Get postsecondary education (beyond high school/GED) | 55.3 | -4.0 | 0.18 | 3.0 | -0.097 | 531 | 510 |
| Live independently at age 25 | 60.1 | 0.1 | 0.96 | 2.9 | 0.004 | 532 | 515 |
| Be employed in a paid job at age 25 | 87.5 | -1.1 | 0.57 | 2.0 | -0.060 | 548 | 529 |
| Parent expects youth to: | | | | | | | |
| Get postsecondary education (beyond high school/GED) | 40.1 | -1.1 | 0.66 | 2.5 | -0.027 | 747 | 719 |
| Live independently at age 25 | 34.8 | -1.5 | 0.52 | 2.3 | -0.040 | 740 | 724 |
| Be financially independent at age 25 | 37.9 | -2.4 | 0.32 | 2.4 | -0.062 | 755 | 733 |
| Be employed in a paid job at age 25 | 76.4 | 0.1 | 0.95 | 2.0 | 0.004 | 755 | 735 |
| Parent believes it important that youth be employed eventually | 86.4 | 3.4** | 0.03 | 1.5 | 0.199 | 730 | 724 |

Source: PROMISE five-year survey.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of ASPIRE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

^a Higher scores on the scales indicate higher levels of self-determination.

GED = General Educational Development; N = sample size.

Appendix Table D.11. ASPIRE: Impact on the youth's SSA payments and knowledge (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|---------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Received SSA payments in Year 5 after RA | 66.5 | -0.3 | 0.88 | 2.0 | -0.009 | 978 | 975 |
| Total SSA payments in Year 5 after RA (\$) | 5,313 | 43 | 0.81 | 182 | 0.010 | 978 | 975 |
| Total SSA payments during Years 1–5 after RA (\$) | 31,502 | 177 | 0.77 | 600 | 0.012 | 978 | 975 |
| Supplementary outcomes | | | | | | | |
| Aware of the following SSA policies | | | | | | | |
| Children receiving SSI are not automatically eligible for SSI as adults | 44.6 | -4.3 | 0.16 | 3.1 | -0.107 | 529 | 518 |
| People receiving SSI can work for pay | 73.8 | -2.1 | 0.45 | 2.7 | -0.063 | 529 | 518 |
| People receiving SSI must report earnings to SSA | 77.8 | 0.4 | 0.88 | 2.6 | 0.014 | 529 | 518 |
| Aware of the following work supports | | | | | | | |
| SSI Student Earned Income Exclusion | 7.7 | 5.4*** | 0.00 | 1.9 | 0.358 | 529 | 518 |
| SSI earned income exclusion | 8.6 | 1.5 | 0.40 | 1.8 | 0.110 | 529 | 518 |
| SSI PASS plan | 6.6 | 6.4*** | 0.00 | 1.8 | 0.452 | 529 | 518 |
| ABLE account | 8.3 | 44.6*** | 0.00 | 2.5 | 1.527 | 529 | 518 |
| SSA payments in years after RA | | | | | | | |
| Received any in Year 1 | 95.2 | 0.0 | 1.00 | 0.9 | 0.001 | 978 | 975 |
| Received any in Year 2 | 88.0 | -1.0 | 0.50 | 1.4 | -0.054 | 978 | 975 |
| Received any in Year 3 | 81.9 | -0.6 | 0.72 | 1.7 | -0.024 | 978 | 975 |
| Received any in Year 4 | 73.2 | 0.4 | 0.85 | 1.9 | 0.011 | 978 | 975 |
| Received any in Years 1–5 | 96.8 | 0.1 | 0.92 | 0.8 | 0.015 | 978 | 975 |
| Amount in Year 1 (\$) | 7,526 | 4 | 0.97 | 97 | 0.001 | 978 | 975 |
| Amount in Year 2 (\$) | 6,805 | -19 | 0.89 | 135 | -0.006 | 978 | 975 |
| Amount in Year 3 (\$) | 6,248 | 42 | 0.79 | 158 | 0.011 | 978 | 975 |
| Amount in Year 4 (\$) | 5,609 | 108 | 0.53 | 173 | 0.027 | 978 | 975 |

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| | Control | | | Standard | | Treatment | Control |
|------------------------------------|---------|--------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p-</i> value | error | Effect size | group N | group N |
| SSI payments in years after RA | | | | | | | |
| Received any in Year 1 | 93.8 | 0.9 | 0.35 | 1.0 | 0.107 | 978 | 975 |
| Received any in Year 2 | 85.2 | 0.4 | 0.78 | 1.5 | 0.021 | 978 | 975 |
| Received any in Year 3 | 78.3 | 1.2 | 0.49 | 1.8 | 0.045 | 978 | 975 |
| Received any in Year 4 | 70.6 | 1.0 | 0.62 | 2.0 | 0.029 | 978 | 975 |
| Received any in Year 5 | 64.1 | 0.2 | 0.92 | 2.1 | 0.006 | 978 | 975 |
| Received any in Years 1–5 | 95.9 | 0.8 | 0.37 | 0.8 | 0.129 | 978 | 975 |
| Amount in Year 1 (\$) | 7,165 | 30 | 0.77 | 103 | 0.010 | 978 | 975 |
| Amount in Year 2 (\$) | 6,353 | 24 | 0.86 | 138 | 0.007 | 978 | 975 |
| Amount in Year 3 (\$) | 5,842 | 73 | 0.65 | 160 | 0.019 | 978 | 975 |
| Amount in Year 4 (\$) | 5,205 | 148 | 0.39 | 173 | 0.037 | 978 | 975 |
| Amount in Year 5 (\$) | 4,882 | 74 | 0.68 | 180 | 0.018 | 978 | 975 |
| Total amount during Years 1–5 (\$) | 29,446 | 349 | 0.57 | 612 | 0.023 | 978 | 975 |
| OASDI benefits in years after RA | | | | | | | |
| Received any in Year 1 | 9.6 | 0.2 | 0.65 | 0.4 | 0.012 | 978 | 975 |
| Received any in Year 2 | 10.8 | 0.2 | 0.81 | 0.6 | 0.009 | 978 | 975 |
| Received any in Year 3 | 10.2 | 0.3 | 0.76 | 0.9 | 0.019 | 978 | 975 |
| Received any in Year 4 | 8.7 | -0.1 | 0.93 | 1.0 | -0.007 | 978 | 975 |
| Received any in Year 5 | 8.2 | -0.5 | 0.66 | 1.1 | -0.040 | 978 | 975 |
| Received any in Years 1–5 | 13.7 | 0.2 | 0.84 | 1.0 | 0.010 | 978 | 975 |
| Amount in Year 1 (\$) | 361 | -26 | 0.57 | 45 | -0.018 | 978 | 975 |
| Amount in Year 2 (\$) | 453 | -43 | 0.49 | 63 | -0.025 | 978 | 975 |
| Amount in Year 3 (\$) | 407 | -31 | 0.62 | 62 | -0.019 | 978 | 975 |
| Amount in Year 4 (\$) | 404 | -41 | 0.56 | 70 | -0.024 | 978 | 975 |
| Amount in Year 5 (\$) | 432 | -31 | 0.69 | 78 | -0.017 | 978 | 975 |
| Total amount during Years 1–5 (\$) | 2,056 | -171 | 0.53 | 271 | -0.023 | 978 | 975 |

| Outcome | Control mean | Impact | <i>p-</i> value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Age-18 redetermination status five years after RA | | | | | | | |
| Final decision: benefits ceased | 16.6 | -1.0 | 0.52 | 1.6 | -0.046 | 978 | 975 |
| Final decision: benefits continued | 42.8 | 1.0 | 0.62 | 2.1 | 0.025 | 978 | 975 |
| Final decision is pending | 5.4 | -0.1 | 0.89 | 1.0 | -0.016 | 978 | 975 |
| Did not have an age-18 redetermination | 35.2 | 0.1 | 0.95 | 2.1 | 0.003 | 978 | 975 |

Source: SSA administrative records and PROMISE five-year survey (awareness of work supports and SSA policies).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of ASPIRE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

ABLE = Achieving a Better Life Experience; OASDI = Old-Age, Survivors, and Disability Insurance; PASS = Plan for Achieving Self Support; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income.

Appendix Table D.12. ASPIRE: Impact on the youth's health insurance coverage and expenditures (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Control | | | Standard | | Treatment | Control |
|--|---------|--------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p-</i> value | error | Effect size | group N | group N |
| Primary outcomes | | | | | | | |
| Covered by any health insurance | 89.3 | -1.9 | 0.24 | 1.6 | -0.114 | 773 | 777 |
| Average monthly Medicaid and Medicare expenditures in the five years after RA (\$) | 1,760 | -21 | 0.66 | 47 | -0.011 | 978 | 975 |
| Supplementary outcomes | | | | | | | |
| Covered by private health insurance | 13.7 | -0.2 | 0.92 | 1.7 | -0.009 | 773 | 777 |
| Covered by private health insurance purchased through an ACA health exchange | 0.1 | 0.0 | 0.97 | 0.2 | 0.029 | 773 | 777 |
| Medicaid and Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 96.7 | 1.3* | 0.07 | 0.7 | 0.315 | 978 | 975 |
| Ever enrolled in Year 2 | 95.9 | 0.1 | 0.89 | 0.9 | 0.020 | 978 | 975 |
| Ever enrolled in Year 3 | 93.6 | 1.1 | 0.27 | 1.0 | 0.128 | 978 | 975 |
| Ever enrolled in Year 4 | 89.7 | 0.9 | 0.49 | 1.3 | 0.063 | 978 | 975 |
| Ever enrolled in Year 5 | 85.5 | 2.1 | 0.16 | 1.5 | 0.112 | 978 | 975 |
| Percentage of months enrolled in Years 1–5 | 88.4 | 1.5 | 0.12 | 0.9 | 0.067 | 978 | 975 |
| Average monthly Medicaid and Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 1,594 | 3 | 0.92 | 32 | 0.002 | 978 | 975 |
| Year 2 (\$) | 2,007 | -48 | 0.36 | 53 | -0.023 | 978 | 975 |
| Year 3 (\$) | 1,896 | 16 | 0.81 | 68 | 0.007 | 978 | 975 |
| Year 4 (\$) | 1,707 | -36 | 0.59 | 68 | -0.017 | 978 | 975 |
| Year 5 (\$) | 1,595 | -41 | 0.56 | 70 | -0.020 | 978 | 975 |
| Medicaid participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 96.7 | 1.3* | 0.07 | 0.7 | 0.315 | 978 | 975 |
| Ever enrolled in Year 2 | 95.9 | 0.1 | 0.89 | 0.9 | 0.020 | 978 | 975 |
| Ever enrolled in Year 3 | 93.6 | 1.1 | 0.27 | 1.0 | 0.128 | 978 | 975 |
| Ever enrolled in Year 4 | 89.7 | 0.8 | 0.53 | 1.3 | 0.057 | 978 | 975 |
| Ever enrolled in Year 5 | 85.3 | 2.0 | 0.18 | 1.5 | 0.104 | 978 | 975 |
| Percentage of months enrolled in Years 1–5 | 88.3 | 1.4 | 0.13 | 0.9 | 0.065 | 978 | 975 |

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| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Average monthly Medicaid expenditures in years after RA | | • | | | | | |
| Year 1 (\$) | 1,590 | 3 | 0.94 | 33 | 0.002 | 978 | 975 |
| Year 2 (\$) | 2,006 | -55 | 0.30 | 54 | -0.026 | 978 | 975 |
| Year 3 (\$) | 1,896 | 8 | 0.90 | 68 | 0.004 | 978 | 975 |
| Year 4 (\$) | 1,698 | -35 | 0.61 | 67 | -0.016 | 978 | 975 |
| Year 5 (\$) | 1,579 | -40 | 0.55 | 67 | -0.020 | 978 | 975 |
| Years 1–5 (\$) | 1,754 | -24 | 0.61 | 47 | -0.013 | 978 | 975 |
| Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 0.1 | -0.0 | 0.84 | 0.1 | -0.201 | 978 | 975 |
| Ever enrolled in Year 2 | 0.1 | 0.1 | 0.72 | 0.2 | 0.285 | 978 | 975 |
| Ever enrolled in Year 3 | 0.0 | 0.3* | 0.08 | 0.2 | | 978 | 975 |
| Ever enrolled in Year 4 | 2.2 | -0.1 | 0.90 | 0.7 | -0.024 | 978 | 975 |
| Ever enrolled in Year 5 | 4.5 | -0.3 | 0.73 | 0.9 | -0.045 | 978 | 975 |
| Percentage of months enrolled in Years 1–5 | 0.9 | 0.0 | 0.99 | 0.2 | 0.000 | 978 | 975 |
| Average monthly Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 4 | 1 | 0.90 | 7 | 0.005 | 978 | 975 |
| Year 2 (\$) | 1 | 7 | 0.27 | 6 | 0.042 | 978 | 975 |
| Year 3 (\$) | 0 | 8 | 0.16 | 6 | 0.054 | 978 | 975 |
| Year 4 (\$) | 9 | -2 | 0.89 | 12 | -0.007 | 978 | 975 |
| Year 5 (\$) | 17 | -1 | 0.96 | 16 | -0.002 | 978 | 975 |
| Years 1–5 (\$) | 6 | 3 | 0.71 | 7 | 0.017 | 978 | 975 |

Source: CMS administrative records and PROMISE five-year survey (non-Medicare/Medicaid outcomes).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of ASPIRE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

ACA = Affordable Care Act; CMS = Centers for Medicare & Medicaid Services; N = sample size; RA = random assignment.

Appendix Table D.13. ASPIRE: Impact on the youth's economic and social well-being (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Total income in the past year (\$) | 10,570 | 89 | 0.83 | 422 | 0.011 | 797 | 795 |
| Total income during the five calendar years after RA (\$) | 45,513 | -324 | 0.71 | 856 | -0.016 | 978 | 975 |
| Supplementary outcomes | | | | | | | |
| Engaging in productive market activities ^a | 72.1 | 0.1 | 0.95 | 2.3 | 0.004 | 786 | 786 |
| Income in calendar years after RA | | | | | | | |
| Year 1 (\$) | 7,954 | 76 | 0.57 | 136 | 0.021 | 978 | 975 |
| Year 2 (\$) | 7,979 | -105 | 0.53 | 167 | -0.026 | 978 | 975 |
| Year 3 (\$) | 8,610 | 70 | 0.75 | 219 | 0.014 | 978 | 975 |
| Year 4 (\$) | 9,845 | 19 | 0.95 | 285 | 0.003 | 978 | 975 |
| Year 5 (\$) | 11,124 | -384 | 0.27 | 347 | -0.049 | 978 | 975 |
| Household income in the past year (\$) ^b | 35,244 | -809 | 0.51 | 1,235 | -0.035 | 681 | 692 |
| Household receives TANF, SNAP, or housing assistance ^b | 36.1 | 2.3 | 0.37 | 2.5 | 0.060 | 707 | 707 |
| Amount of public assistance in the past month | | | | | | | |
| TANF (\$) ^b | 3 | 8** | 0.03 | 4 | 0.127 | 711 | 709 |
| SNAP benefits (\$) ^b | 107 | 19* | 0.10 | 12 | 0.089 | 715 | 710 |
| Housing assistance (\$) ^b | 87 | -4 | 0.79 | 14 | -0.014 | 709 | 710 |
| Family structure and living arrangements | | | | | | | |
| Living independently | 13.7 | 1.6 | 0.36 | 1.8 | 0.078 | 795 | 793 |
| Married or in a marriage-like relationship | 5.2 | 1.6 | 0.19 | 1.2 | 0.172 | 757 | 769 |
| Responsible for a child or children | 5.5 | 0.5 | 0.67 | 1.2 | 0.056 | 758 | 767 |
| Engagement with the criminal justice system | | | | | | | |
| Ever arrested | 12.2 | -0.6 | 0.71 | 1.6 | -0.034 | 757 | 768 |
| Number of times arrested | 0.3 | -0.0 | 0.71 | 0.1 | -0.019 | 757 | 768 |
| Arrested in the past year | 3.9 | -0.8 | 0.41 | 0.9 | -0.141 | 757 | 767 |
| Ever incarcerated | 3.7 | -0.2 | 0.82 | 0.9 | -0.038 | 754 | 763 |
| Length of incarceration (days) | 12.2 | -1.1 | 0.86 | 6.3 | -0.009 | 754 | 763 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Self-reported health status | | | | | | | |
| Poor | 4.1 | 1.0 | 0.36 | 1.1 | 0.139 | 756 | 768 |
| Fair | 16.3 | -0.3 | 0.87 | 1.9 | -0.014 | 756 | 768 |
| Good | 36.1 | 2.1 | 0.40 | 2.5 | 0.054 | 756 | 768 |
| Very good or excellent | 43.5 | -2.8 | 0.28 | 2.5 | -0.069 | 756 | 768 |
| Received help in getting accommodations for school, work, or living independently in past year | 20.5 | 0.1 | 0.95 | 2.0 | 0.005 | 788 | 790 |

Source: PROMISE five-year surveys and SSA administrative records (SSA payments and income in calendar years after RA).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of ASPIRE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

^a Productive market activities include engaging in any of the following at the time of the five-year survey: employment in paid or unpaid work, looking for work, or enrollment in school or a training program.

^b This outcome is based on data from the parent survey about the parent's household if the youth lived with the parent at interview.

N = sample size; RA = random assignment; SNAP = Supplemental Nutrition Assistance Program; SSA = Social Security Administration; TANF = Temporary Assistance for Needy Families.

Appendix Table D.14. ASPIRE: Impact on the parents' employment and earnings (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Either parent worked for pay in the past year | 69.1 | 0.2 | 0.92 | 2.2 | 0.006 | 779 | 765 |
| Parents' earnings in the past year (\$) | 28,252 | -434 | 0.77 | 1,455 | -0.014 | 779 | 765 |
| Parents' earnings during the five calendar years after RA (\$) | 130,465 | -2,813 | 0.41 | 3,443 | -0.022 | 899 | 888 |
| Supplementary outcomes | | | | | | | |
| Highest educational attainment achieved by either parent | | | | | | | |
| Not a high school graduate | 17.6 | -1.8 | 0.33 | 1.8 | -0.079 | 781 | 766 |
| High school diploma or GED | 30.1 | -0.8 | 0.72 | 2.4 | -0.024 | 781 | 766 |
| Some postsecondary education or more | 50.9 | 2.6 | 0.29 | 2.5 | 0.064 | 781 | 766 |
| Other or do not know | 1.4 | 0.0 | 0.96 | 0.6 | 0.014 | 781 | 766 |
| Employment in the past year | | | | | | | |
| Number of parents that worked for pay | 0.9 | -0.0 | 0.78 | 0.0 | -0.013 | 777 | 765 |
| Number of weeks worked | 41.6 | 0.1 | 0.95 | 1.6 | 0.003 | 777 | 765 |
| Weekly hours worked | 33.4 | -0.8 | 0.56 | 1.3 | -0.027 | 779 | 765 |
| Either parent was offered fringe benefits through a job | 50.3 | 0.3 | 0.90 | 2.4 | 0.007 | 778 | 765 |
| Employment at the time of survey | | | | | | | |
| Either parent is in the labor force | 70.7 | -0.5 | 0.81 | 2.2 | -0.015 | 747 | 740 |
| Either parent is working for pay | 61.3 | 0.6 | 0.79 | 2.4 | 0.016 | 748 | 744 |
| Employment and earnings in calendar years after RA | | | | | | | |
| Ever employed in Year 1 | 74.5 | -0.1 | 0.96 | 1.7 | -0.003 | 899 | 888 |
| Ever employed in Year 2 | 75.3 | 0.3 | 0.86 | 1.7 | 0.010 | 899 | 888 |
| Ever employed in Year 3 | 76.6 | -1.8 | 0.30 | 1.7 | -0.058 | 899 | 888 |
| Ever employed in Year 4 | 75.9 | -1.6 | 0.37 | 1.8 | -0.051 | 899 | 888 |
| Ever employed in Year 5 | 74.9 | -2.4 | 0.18 | 1.8 | -0.076 | 899 | 888 |
| Ever employed in Years 1-5 | 84.7 | -3.3** | 0.03 | 1.5 | -0.142 | 899 | 888 |
| Earnings in Year 1 (\$) | 23,163 | -389 | 0.52 | 599 | -0.016 | 899 | 888 |

Appendix D ASPIRE Impacts, Benefits, and Costs

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|-------------------------|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Earnings in Year 2 (\$) | 25,000 | -499 | 0.48 | 702 | -0.019 | 899 | 888 |
| Earnings in Year 3 (\$) | 26,541 | -700 | 0.38 | 791 | -0.026 | 899 | 888 |
| Earnings in Year 4 (\$) | 27,534 | -593 | 0.51 | 900 | -0.021 | 899 | 888 |
| Earnings in Year 5 (\$) | 28,227 | -632 | 0.54 | 1,020 | -0.021 | 899 | 888 |

Source: PROMISE five-year survey and SSA administrative records (employment and earnings in years after RA).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of ASPIRE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

GED = General Educational Development; N = sample size; RA = random assignment.

Appendix Table D.15. ASPIRE: Impact on the parents' SSA payments (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Control | | | Standard | | Treatment | Control |
|--|---------|--------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p</i> -value | error | Effect size | group N | group N |
| Primary outcomes | | | | | | | |
| Either parent received SSA payments in Year 5 | 28.8 | -2.0 | 0.14 | 1.4 | -0.061 | 899 | 888 |
| Total SSA payments received in Year 5 (\$) | 3,133 | 37 | 0.86 | 210 | 0.006 | 899 | 888 |
| Total SSA payments during the five years after RA (\$) | 14,707 | 335 | 0.65 | 745 | 0.013 | 899 | 888 |
| Supplementary outcomes | | | | | | | |
| SSA payments in years after RA | | | | | | | |
| Received any in Year 1 | 25.1 | -0.1 | 0.86 | 0.6 | -0.004 | 899 | 888 |
| Received any in Year 2 | 26.9 | -1.0 | 0.30 | 0.9 | -0.031 | 899 | 888 |
| Received any in Year 3 | 27.6 | -1.3 | 0.27 | 1.2 | -0.039 | 899 | 888 |
| Received any in Year 4 | 28.6 | -2.7** | 0.03 | 1.3 | -0.082 | 899 | 888 |
| Received any in Years 1–5 | 32.0 | -1.3 | 0.31 | 1.3 | -0.036 | 899 | 888 |
| Amount in Year 1 (\$) | 2,733 | 157 | 0.26 | 141 | 0.028 | 899 | 888 |
| Amount in Year 2 (\$) | 2,898 | 40 | 0.80 | 158 | 0.007 | 899 | 888 |
| Amount in Year 3 (\$) | 2,920 | 33 | 0.85 | 176 | 0.006 | 899 | 888 |
| Amount in Year 4 (\$) | 3,022 | 68 | 0.73 | 198 | 0.012 | 899 | 888 |
| SSI payments in years after RA | | | | | | | |
| Received any in Year 1 | 14.8 | -0.7 | 0.21 | 0.5 | -0.034 | 899 | 888 |
| Received any in Year 2 | 15.4 | -1.4* | 0.08 | 0.8 | -0.070 | 899 | 888 |
| Received any in Year 3 | 15.0 | -0.3 | 0.74 | 1.0 | -0.016 | 899 | 888 |
| Received any in Year 4 | 14.8 | -0.3 | 0.77 | 1.1 | -0.015 | 899 | 888 |
| Received any in Year 5 | 14.0 | 0.1 | 0.93 | 1.1 | 0.005 | 899 | 888 |
| Received any in Years 1–5 | 18.5 | -0.1 | 0.93 | 1.1 | -0.004 | 899 | 888 |
| Amount in Year 1 (\$) | 1,100 | 9 | 0.89 | 66 | 0.003 | 899 | 888 |
| Amount in Year 2 (\$) | 1,210 | -117 | 0.20 | 91 | -0.037 | 899 | 888 |
| Amount in Year 3 (\$) | 1,093 | -8 | 0.93 | 94 | -0.003 | 899 | 888 |
| Amount in Year 4 (\$) | 1,001 | 148 | 0.17 | 107 | 0.049 | 899 | 888 |
| Amount in Year 5 (\$) | 1,021 | 42 | 0.68 | 104 | 0.014 | 899 | 888 |
| Total amount during Years 1–5 (\$) | 5,424 | 75 | 0.84 | 379 | 0.005 | 899 | 888 |

Appendix D ASPIRE Impacts, Benefits, and Costs

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|------------------------------------|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| OASDI benefits in years after RA | | | | | | | |
| Received any in Year 1 | 15.1 | 0.5 | 0.38 | 0.6 | 0.025 | 899 | 888 |
| Received any in Year 2 | 16.0 | 0.6 | 0.41 | 0.8 | 0.029 | 899 | 888 |
| Received any in Year 3 | 17.5 | -0.6 | 0.52 | 1.0 | -0.027 | 899 | 888 |
| Received any in Year 4 | 18.8 | -1.6 | 0.15 | 1.1 | -0.064 | 899 | 888 |
| Received any in Year 5 | 19.0 | -0.9 | 0.45 | 1.2 | -0.036 | 899 | 888 |
| Received any in Years 1–5 | 20.7 | -0.6 | 0.62 | 1.2 | -0.022 | 899 | 888 |
| Amount in Year 1 (\$) | 1,634 | 148 | 0.23 | 123 | 0.032 | 899 | 888 |
| Amount in Year 2 (\$) | 1,688 | 157 | 0.23 | 130 | 0.034 | 899 | 888 |
| Amount in Year 3 (\$) | 1,827 | 41 | 0.78 | 147 | 0.009 | 899 | 888 |
| Amount in Year 4 (\$) | 2,021 | -80 | 0.63 | 165 | -0.016 | 899 | 888 |
| Amount in Year 5 (\$) | 2,113 | -5 | 0.98 | 183 | -0.001 | 899 | 888 |
| Total amount during Years 1–5 (\$) | 9,283 | 261 | 0.69 | 651 | 0.012 | 899 | 888 |

Source: SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of ASPIRE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

N = sample size; OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income.

Appendix Table D.16. ASPIRE: Impact on the parents' health insurance coverage and expenditures (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Control | | | Standard | | Treatment | Control |
|--|---------|--------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p</i> -value | error | Effect size | group N | group N |
| Primary outcomes | | | | | | | |
| Either parent is covered by health insurance | 87.0 | 1.7 | 0.31 | 1.7 | 0.097 | 776 | 761 |
| Average monthly Medicaid and Medicare expenditures in the five years after RA (\$) | 681 | 24 | 0.37 | 26 | 0.029 | 899 | 888 |
| Supplementary outcomes | | | | | | | |
| Covered by private health insurance | 30.7 | 2.0 | 0.38 | 2.2 | 0.055 | 777 | 761 |
| Medicaid and Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 78.0 | 0.5 | 0.79 | 1.7 | 0.017 | 899 | 888 |
| Ever enrolled in Year 2 | 77.6 | -1.1 | 0.54 | 1.8 | -0.037 | 899 | 888 |
| Ever enrolled in Year 3 | 75.2 | -1.1 | 0.57 | 1.8 | -0.034 | 899 | 888 |
| Ever enrolled in Year 4 | 72.4 | -1.1 | 0.56 | 1.9 | -0.034 | 899 | 888 |
| Ever enrolled in Year 5 | 70.4 | -1.8 | 0.35 | 2.0 | -0.053 | 899 | 888 |
| Percentage of months enrolled in Years 1–5 | 70.2 | -0.9 | 0.58 | 1.6 | -0.022 | 899 | 888 |
| Average monthly Medicaid and Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 663 | 20 | 0.37 | 22 | 0.024 | 899 | 888 |
| Year 2 (\$) | 779 | 29 | 0.36 | 31 | 0.029 | 899 | 888 |
| Year 3 (\$) | 706 | 32 | 0.36 | 35 | 0.033 | 899 | 888 |
| Year 4 (\$) | 612 | 48 | 0.20 | 37 | 0.050 | 899 | 888 |
| Year 5 (\$) | 648 | -9 | 0.81 | 40 | -0.010 | 899 | 888 |
| Medicaid participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 75.3 | -0.0 | 0.98 | 1.8 | -0.001 | 899 | 888 |
| Ever enrolled in Year 2 | 74.5 | -1.5 | 0.43 | 1.8 | -0.046 | 899 | 888 |
| Ever enrolled in Year 3 | 71.6 | -0.9 | 0.64 | 1.9 | -0.026 | 899 | 888 |
| Ever enrolled in Year 4 | 68.0 | -0.5 | 0.79 | 2.0 | -0.015 | 899 | 888 |
| Ever enrolled in Year 5 | 64.9 | -0.0 | 1.00 | 2.1 | -0.000 | 899 | 888 |
| Percentage of months enrolled in Years 1–5 | 66.1 | -0.6 | 0.72 | 1.6 | -0.014 | 899 | 888 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Average monthly Medicaid expenditures in years after | mean | impact | <i>p</i> -value | enor | Lilect Size | group N | group N |
| RA | | | | | | | |
| Year 1 (\$) | 565 | 9 | 0.68 | 21 | 0.013 | 899 | 888 |
| Year 2 (\$) | 682 | -5 | 0.85 | 28 | -0.007 | 899 | 888 |
| Year 3 (\$) | 595 | 4 | 0.90 | 29 | 0.005 | 899 | 888 |
| Year 4 (\$) | 480 | 32 | 0.24 | 28 | 0.048 | 899 | 888 |
| Year 5 (\$) | 493 | 0 | 1.00 | 29 | 0.000 | 899 | 888 |
| Years 1–5 (\$) | 563 | 8 | 0.71 | 22 | 0.013 | 899 | 888 |
| Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 14.6 | 0.5 | 0.56 | 0.9 | 0.024 | 899 | 888 |
| Ever enrolled in Year 2 | 15.2 | 0.7 | 0.45 | 0.9 | 0.031 | 899 | 888 |
| Ever enrolled in Year 3 | 15.9 | 0.5 | 0.63 | 1.0 | 0.021 | 899 | 888 |
| Ever enrolled in Year 4 | 17.3 | -1.1 | 0.31 | 1.0 | -0.046 | 899 | 888 |
| Ever enrolled in Year 5 | 18.1 | -0.6 | 0.58 | 1.1 | -0.026 | 899 | 888 |
| Percentage of months enrolled in Years 1–5 | 15.5 | 0.0 | 0.98 | 0.8 | 0.001 | 899 | 888 |
| Average monthly Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 97 | 11 | 0.53 | 17 | 0.023 | 899 | 888 |
| Year 2 (\$) | 97 | 34* | 0.08 | 20 | 0.068 | 899 | 888 |
| Year 3 (\$) | 111 | 28 | 0.19 | 22 | 0.052 | 899 | 888 |
| Year 4 (\$) | 132 | 15 | 0.55 | 25 | 0.025 | 899 | 888 |
| Year 5 (\$) | 155 | -10 | 0.73 | 27 | -0.015 | 899 | 888 |
| Years 1–5 (\$) | 118 | 16 | 0.39 | 18 | 0.033 | 899 | 888 |

Source: CMS administrative records and PROMISE five-year survey (non-Medicare/Medicaid outcomes).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of ASPIRE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

CMS = Centers for Medicare & Medicaid Services; N = sample size.

Appendix Table D.17. ASPIRE: Impact on the parents' economic well-being (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Parents' total income in the past year (\$) | 31,975 | -327 | 0.82 | 1,469 | -0.011 | 715 | 705 |
| Parents' total income during the five calendar years after RA (\$) | 146,562 | -2,392 | 0.48 | 3,408 | -0.020 | 899 | 888 |
| Supplementary outcomes | | | | | | | |
| Parents' income in calendar years after RA | | | | | | | |
| Year 1 (\$) | 26,219 | -388 | 0.52 | 609 | -0.017 | 899 | 888 |
| Year 2 (\$) | 28,132 | -386 | 0.59 | 710 | -0.016 | 899 | 888 |
| Year 3 (\$) | 29,803 | -596 | 0.45 | 792 | -0.023 | 899 | 888 |
| Year 4 (\$) | 30,831 | -496 | 0.58 | 887 | -0.018 | 899 | 888 |
| Year 5 (\$) | 31,578 | -526 | 0.60 | 1,003 | -0.018 | 899 | 888 |
| Household receives TANF, SNAP, or housing assistance | 37.6 | 1.8 | 0.46 | 2.4 | 0.046 | 771 | 759 |
| Household income in the past year (\$) | 36,634 | 152 | 0.90 | 1,181 | 0.006 | 753 | 739 |

Source: PROMISE five-year survey and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of ASPIRE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

N = sample size; RA = random assignment; SSA = Social Security Administration.

2. Sensitivity analyses

We assessed the sensitivity of the estimated impacts on primary outcomes to methodological choices we incorporated in the main impact estimates. In Appendix Table D.18, we show the impact estimated by the main regression model for each outcome, as well as by alternative models that do not (1) use the survey weights, (2) include covariate adjustment, and (3) use imputed data for outcomes that underwent multiple imputation. The alternative models produced broadly similar results, suggesting that the main model's estimates of program impacts were not sensitive to the choice of estimation method.

We also assessed the extent to which the lack of survey data for some enrollees would influence the estimates of program impacts. In Appendix Table D.19, we compare how the estimated impacts on primary outcomes varied when nonrespondents were included and excluded from analyses of outcomes measured using administrative data. For all outcomes, the impact estimated using the weighted survey respondent sample did not significantly differ from the impact estimated using the administrative analysis sample. The findings suggest that use of the analysis weights minimized the potential for nonresponse bias because the estimated impacts for the survey respondent sample were comparable to those for the full research sample.

Appendix Table D.18. ASPIRE: Impact on primary outcomes, by estimation approach (values measured at the time of the survey and shown in in percentages, unless otherwise noted)

| Outcome | Main model | No weighting for non- response | No covariate adjustment | No imputation |
|--|------------|--------------------------------------|----------------------------|------------------|
| Enrolled in an educational or training program | 0.4 | 0.6 | 0.3 | n.a. |
| Has a GED, high school diploma, or certificate of completion | -4.0* | -4.1* | -3.8* | n.a. |
| Youth employed in a paid job in the past year | -0.6 | -0.8 | -0.6 | -0.1 |
| Youth earnings in the past year (\$) | 110 | 63 | 198 | 265 |
| Youth earnings during the five calendar years after RA (\$) | -582 | n.a. | -507 | n.a. |
| Youth self-determination score (scale: 0 to 100) ^a | -0.6 | -0.5 | -0.8 | n.a. |
| Youth expects to be financially independent at age 25 | -0.0 | -0.1 | -0.6 | n.a. |
| Youth received SSA payments in Year 5 after RA | -0.3 | n.a. | -0.3 | n.a. |
| Youth total SSA payments in Year 5 after RA (\$) | 43 | n.a. | 51 | n.a. |
| Youth total SSA payments during Years 1–5 after RA (\$) | 177 | n.a. | 82 | n.a. |
| Youth covered by any health insurance | -1.9 | -1.8 | -2.3 | n.a. |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | -21 | n.a. | -21 | n.a. |
| Youth total income in the past year (\$) | 89 | 54 | 179 | 215 |
| Youth total income during the five calendar years after RA (\$) | -324 | n.a. | -365 | n.a. |
| Either parent worked for pay in the past year | 0.2 | 0.2 | 0.4 | n.a. |
| Parents' earnings in the past year (\$) | -434 | -517 | -703 | -765 |
| Parents' earnings during the five calendar years after RA (\$) | -2,813 | n.a. | -3,393 | n.a. |
| Either parent received SSA payments in Year 5 after RA | -2.0 | n.a. | -1.6 | n.a. |
| Parents' total SSA payments received in Year 5 after RA (\$) | 37 | n.a. | 105 | n.a. |
| Parents' total SSA payments during the five years after RA (\$) | 335 | n.a. | 674 | n.a. |
| Parents' total income in the past year (\$) | -327 | -415 | -664 | -345 |
| Parents' income during the five calendar years after RA (\$) | -2,392 | n.a. | -2,602 | n.a. |
| Either parent is covered by health insurance | 1.7 | 1.7 | 1.5 | n.a. |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 24 | n.a. | 24 | n.a. |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the impact estimates of ASPIRE, using different modeling approaches. In the main model, we used covariate adjustment and, for outcomes derived from survey data, we weighted statistics to adjust for survey nonresponse and used multiple imputation when an outcome had a

missing value conditional on the value of another variable. In the model with "No weighting for non-response", we followed the main model but did not apply weights to adjust for non-response. In the model with "No covariate adjustment", we followed the main model but did not include covariates except for region fixed effects. For the model with "No multiple imputation", we followed the main model except that we excluded cases with outcomes that had a missing value conditional on the value of another variable.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

CMS = Centers for Medicare & Medicaid Services; GED = General Educational Development; N = sample size; n.a.= not applicable; RA = random assignment; SSA = Social Security Administration.

Appendix Table D.19. ASPIRE: Impact on primary outcomes measured using administrative data, including and excluding five-year survey nonrespondents (percentage, unless otherwise noted)

| | Admin | istrative ar samples | nalysis | Five-year | | | |
|--|-----------------|-------------------------|-----------------|-----------------|--------|-----------------|-----------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | <i>p</i> -value for difference |
| Youth earnings during the five calendar years after RA (\$) | 12,892 | -582 | 0.51 | 11,783 | 245 | 0.80 | 0.37 |
| Youth received SSA payments in Year 5 after RA | 66.5 | -0.3 | 0.88 | 70.4 | -0.8 | 0.73 | 0.83 |
| Youth total SSA payments in Year 5 after RA (\$) | 5,313 | 43 | 0.81 | 5,654 | -44 | 0.83 | 0.65 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 31,502 | 177 | 0.77 | 32,281 | 17 | 0.98 | 0.80 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,760 | -21 | 0.66 | 1,796 | -32 | 0.53 | 0.82 |
| Youth total income during the five calendar years after RA (\$) | 45,513 | -324 | 0.71 | 45,437 | 361 | 0.69 | 0.44 |
| Parents' earnings during the five calendar years after RA (\$) | 130,465 | -2,813 | 0.41 | 130,907 | -2,211 | 0.57 | 0.87 |
| Either parent received SSA payments in Year 5 after RA | 28.8 | -2.0 | 0.14 | 30.2 | -2.0 | 0.18 | 0.99 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,133 | 37 | 0.86 | 3,312 | -6 | 0.98 | 0.84 |
| Parents' total SSA payments during the five years after RA (\$) | 14,707 | 335 | 0.65 | 15,141 | 49 | 0.95 | 0.71 |
| Parents' total income during the five calendar years after RA (\$) | 146,562 | -2,392 | 0.48 | 147,583 | -2,103 | 0.58 | 0.94 |
| Parents' average monthly Medicaid and Medicare expenditures in years after RA in Years 1-5 after RA (\$) | 681 | 24 | 0.37 | 695 | 16 | 0.58 | 0.79 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of ASPIRE for administrative analysis samples and five-year survey respondents. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For the sample of five-year survey respondents, we weighted the statistics to adjust for survey nonresponse, applying youth weights for youths' outcomes and parent weights for parents' outcomes.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Impact estimates for the two samples are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

CMS = Centers for Medicare & Medicaid Services; N = sample size; RA = random assignment. SSA = Social Security Administration.

3. Subgroup impact estimates

We estimated the five-year impacts for key subgroups of evaluation enrollees to understand whether the impacts of ASPIRE differed by enrollee characteristics. We focused on subgroups defined by the following baseline characteristics of youth: age (ages 14 and 15, and age 16); sex (females and males); whether a youth's parent received SSA payments at the time of RA (yes or no); primary impairment (intellectual or developmental disabilities, other mental impairments, and other disabilities); whether the survey respondent completed the five-year survey before or after the onset of the COVID-19 pandemic (yes or no); and state (Arizona, Colorado, and the remaining four states in the consortium [Montana, North Dakota, South Dakota, and Utah]). Appendix Tables D.20–D.27 present the subgroup impact estimates.

Appendix Table D.20. ASPIRE: Impacts on primary outcomes, by youth's age (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | | | Age 14 and | d 15 | | Age 16 | | | | | <i>p</i> -value |
|---|-----------------|--------|-----------------|----------------------|--------------------|-----------------|----------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Youth enrolled in an educational or training program | 43.6 | 1.0 | 0.73 | 540 | 536 | 27.7 | -0.9 | 0.83 | 235 | 239 | 0.70 |
| Youth has a GED, high school diploma, or certificate of completion | 70.8 | -4.3 | 0.12 | 550 | 547 | 81.4 | -3.4 | 0.35 | 241 | 245 | 0.83 |
| Youth employed in a paid job in the past year | 42.3 | 0.4 | 0.88 | 554 | 549 | 44.9 | -2.9 | 0.50 | 243 | 246 | 0.51 |
| Youth earnings in the past year (\$) | 4,513 | 439 | 0.41 | 554 | 549 | 6,034 | -641 | 0.47 | 243 | 246 | 0.29 |
| Youth earnings during the five calendar years after RA (\$) | 10,582 | 470 | 0.62 | 676 | 675 | 18,089 | -3,076 | 0.11 | 302 | 300 | 0.09† |
| Youth self-determination score (scale: 0 to 100) | 79.4 | -0.7 | 0.49 | 368 | 362 | 79.9 | -0.4 | 0.81 | 160 | 155 | 0.85 |
| Youth expects to be financially independent at age 25 | 59.8 | -2.3 | 0.52 | 372 | 366 | 47.8 | 5.3 | 0.34 | 167 | 160 | 0.24 |
| Youth received SSA payments in Year 5 after RA | 66.7 | 1.3 | 0.59 | 676 | 675 | 66.0 | -3.9 | 0.29 | 302 | 300 | 0.23 |
| Youth total SSA payments in Year 5 after RA (\$) | 5,223 | 173 | 0.43 | 676 | 675 | 5,518 | -246 | 0.46 | 302 | 300 | 0.29 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 31,392 | 471 | 0.51 | 676 | 675 | 31,751 | -479 | 0.67 | 302 | 300 | 0.47 |
| Youth covered by any health insurance | 90.5 | -1.6 | 0.39 | 538 | 536 | 86.5 | -2.7 | 0.41 | 235 | 241 | 0.78 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,727 | -21 | 0.70 | 676 | 675 | 1,834 | -20 | 0.81 | 302 | 300 | 0.99 |
| Youth total income in the past year (\$) | 9,930 | 556 | 0.27 | 554 | 549 | 11,998 | -973 | 0.21 | 243 | 246 | 0.09† |
| Youth total income during the five calendar years after RA (\$) | 43,031 | 1,015 | 0.30 | 676 | 675 | 51,098 | -3,437** | 0.04 | 302 | 300 | 0.02†† |

| | | | Age 14 and | d 15 | | | | Age 16 | | | <i>p</i> -value |
|--|-----------------|--------|-----------------|----------------------|--------------------|-----------------|--------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Either parent worked for pay in the past year | 70.1 | -0.4 | 0.87 | 544 | 531 | 67.0 | 1.7 | 0.66 | 235 | 234 | 0.64 |
| Parents' earnings in the past year (\$) | 28,960 | -1,297 | 0.47 | 544 | 531 | 26,677 | 1,514 | 0.55 | 235 | 234 | 0.36 |
| Parents' earnings during the five calendar years after RA (\$) | 131,106 | -2,307 | 0.58 | 619 | 616 | 129,014 | -3,632 | 0.55 | 280 | 272 | 0.86 |
| Either parent received SSA payments in Year 5 after RA | 28.2 | -1.7 | 0.31 | 619 | 616 | 30.1 | -2.7 | 0.24 | 280 | 272 | 0.72 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,101 | -36 | 0.89 | 619 | 616 | 3,208 | 199 | 0.59 | 280 | 272 | 0.59 |
| Parents' total SSA payments during the five years after RA (\$) | 14,370 | 194 | 0.83 | 619 | 616 | 15,468 | 650 | 0.62 | 280 | 272 | 0.78 |
| Parents' total income in the past year (\$) | 32,683 | -1,265 | 0.48 | 499 | 489 | 30,407 | 1,782 | 0.49 | 216 | 216 | 0.33 |
| Parents' total income during the five calendar years after RA (\$) | 146,870 | -2,060 | 0.62 | 619 | 616 | 145,866 | -2,893 | 0.64 | 280 | 272 | 0.91 |
| Either parent is covered by health insurance | 87.1 | 0.9 | 0.65 | 542 | 530 | 86.7 | 3.5 | 0.25 | 234 | 231 | 0.46 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 685 | 39 | 0.22 | 619 | 616 | 673 | -11 | 0.81 | 280 | 272 | 0.36 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of ASPIRE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

CMS = Centers for Medicare & Medicaid Services; GED = General Educational Development; N = sample size; RA = random assignment; SSA = Social Security Administration.

Appendix Table D.21. ASPIRE: Impacts on primary outcomes, by youth's sex (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | | | Male | | | | <i>p</i> -value | | | | |
|---|-----------------|--------|-----------------|----------------------|--------------------|-----------------|-----------------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p-</i> value | Treatment group N | Control group N | Control mean | Impact | <i>p-</i> value | Treatment group N | Control group N | for subgroup difference |
| Youth enrolled in an educational or training program | 37.9 | -1.1 | 0.71 | 513 | 526 | 40.4 | 3.5 | 0.41 | 262 | 249 | 0.37 |
| Youth has a GED, high school diploma, or certificate of completion | 72.5 | -4.5 | 0.11 | 526 | 539 | 77.6 | -3.1 | 0.40 | 265 | 253 | 0.76 |
| Youth employed in a paid job in the past year | 45.2 | 1.6 | 0.58 | 531 | 541 | 38.8 | -5.1 | 0.21 | 266 | 254 | 0.17 |
| Youth earnings in the past year (\$) | 5,649 | 59 | 0.92 | 531 | 541 | 3,553 | 213 | 0.76 | 266 | 254 | 0.86 |
| Youth earnings during the five calendar years after RA (\$) | 14,040 | -763 | 0.50 | 648 | 665 | 10,429 | -213 | 0.88 | 330 | 310 | 0.76 |
| Youth self-determination score (scale: 0 to 100) | 79.6 | 0.0 | 0.99 | 343 | 338 | 79.4 | -1.8 | 0.25 | 185 | 179 | 0.32 |
| Youth expects to be financially independent at age 25 | 59.4 | -0.4 | 0.91 | 352 | 344 | 49.9 | 0.7 | 0.89 | 187 | 182 | 0.85 |
| Youth received SSA payments in Year 5 after RA | 62.9 | 1.6 | 0.52 | 648 | 665 | 74.2 | -4.2 | 0.23 | 330 | 310 | 0.18 |
| Youth total SSA payments in Year 5 after RA (\$) | 4,936 | 235 | 0.29 | 648 | 665 | 6,123 | -349 | 0.28 | 330 | 310 | 0.13 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 30,521 | 986 | 0.18 | 648 | 665 | 33,605 | -1,475 | 0.16 | 330 | 310 | 0.05† |
| Youth covered by any health insurance | 87.9 | -2.0 | 0.33 | 511 | 528 | 92.2 | -1.8 | 0.49 | 262 | 249 | 0.93 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,700 | -50 | 0.38 | 648 | 665 | 1,889 | 38 | 0.65 | 330 | 310 | 0.38 |
| Youth income in the past year (\$) | 10,873 | 136 | 0.81 | 531 | 541 | 9,920 | -8 | 0.99 | 266 | 254 | 0.86 |
| Youth total income during the five calendar years after RA (\$) | 45,484 | 209 | 0.85 | 648 | 665 | 45,574 | -1,414 | 0.31 | 330 | 310 | 0.35 |
| Either parent worked for pay in the past year | 69.2 | 0.4 | 0.89 | 518 | 519 | 69.0 | -0.1 | 0.98 | 261 | 246 | 0.92 |

| | | | Male | | | | | Female | | | <i>p</i> -value |
|---|-----------------|--------|-----------------|----------------------|--------------------|-----------------|--------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Parents' earnings in the past year (\$) | 28,813 | -1,199 | 0.51 | 518 | 519 | 27,060 | 1,130 | 0.63 | 261 | 246 | 0.42 |
| Parents' earnings during the five calendar years after RA (\$) | 130,950 | -5,309 | 0.21 | 595 | 601 | 129,450 | 2,225 | 0.72 | 304 | 287 | 0.31 |
| Either parent received SSA payments in Year 5 after RA | 28.5 | -1.3 | 0.43 | 595 | 601 | 29.6 | -3.5 | 0.15 | 304 | 287 | 0.46 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,108 | 97 | 0.71 | 595 | 601 | 3,186 | -83 | 0.81 | 304 | 287 | 0.67 |
| Parents' total SSA payments during the five years after RA (\$) | 14,636 | 518 | 0.57 | 595 | 601 | 14,855 | -33 | 0.98 | 304 | 287 | 0.73 |
| Parents' income in the past year (\$) | 32,461 | -1,435 | 0.43 | 473 | 476 | 30,958 | 1,911 | 0.42 | 242 | 229 | 0.26 |
| Parents' income during the five calendar years after RA (\$) | 146,958 | -4,654 | 0.26 | 595 | 601 | 145,735 | 2,173 | 0.72 | 304 | 287 | 0.35 |
| Either parent is covered by health insurance | 85.9 | 2.4 | 0.26 | 515 | 517 | 89.4 | 0.3 | 0.90 | 261 | 244 | 0.55 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 670 | 32 | 0.31 | 595 | 601 | 706 | 8 | 0.87 | 304 | 287 | 0.67 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of ASPIRE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (p-value is less than .10/.05/.01) using a two-tailed t-test.

†/††/††† Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table D.22. ASPIRE: Impacts on primary outcomes, by whether parent received SSA payments before RA (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | ٦ | lo parent r | eceived S | SA payment | S | At least one parent received SSA payments | | | | | <i>p</i> -value |
|---|-----------------|-------------|-----------------|----------------------|--------------------|---|---------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p-</i> value | Treatment group N | Control group N | Control mean | Impact | <i>p-</i> value | Treatment group N | Control group N | for subgroup difference |
| Youth enrolled in an educational or training program | 41.3 | -0.6 | 0.83 | 537 | 529 | 33.9 | -2.6 | 0.60 | 176 | 183 | 0.73 |
| Youth has a GED, high school diploma, or certificate of completion | 74.0 | -1.8 | 0.50 | 551 | 541 | 76.0 | -10.7** | 0.03 | 178 | 185 | 0.10 |
| Youth employed in a paid job in the past year | 42.8 | 0.4 | 0.90 | 556 | 544 | 41.1 | -0.8 | 0.87 | 179 | 185 | 0.84 |
| Youth earnings in the past year (\$) | 4,920 | 566 | 0.31 | 556 | 544 | 4,690 | -944 | 0.29 | 179 | 185 | 0.15 |
| Youth earnings during the five calendar years after RA (\$) | 12,952 | -771 | 0.46 | 677 | 674 | 12,091 | 129 | 0.94 | 222 | 214 | 0.67 |
| Youth self-determination score (scale: 0 to 100) | 79.8 | -0.8 | 0.41 | 359 | 350 | 78.3 | 0.4 | 0.83 | 126 | 128 | 0.56 |
| Youth expects to be financially independent at age 25 | 56.6 | -1.8 | 0.62 | 370 | 356 | 54.5 | 4.9 | 0.44 | 127 | 129 | 0.35 |
| Youth received SSA payments in Year 5 after RA | 66.2 | 1.5 | 0.53 | 677 | 674 | 66.4 | -0.8 | 0.85 | 222 | 214 | 0.63 |
| Youth total SSA payments in Year 5 after RA (\$) | 5,211 | 226 | 0.30 | 677 | 674 | 5,620 | -224 | 0.57 | 222 | 214 | 0.32 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 29,966 | 710 | 0.33 | 677 | 674 | 35,432 | -457 | 0.70 | 222 | 214 | 0.40 |
| Youth covered by any health insurance | 90.2 | -2.4 | 0.21 | 537 | 534 | 84.1 | 2.9 | 0.44 | 176 | 177 | 0.21 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,729 | 3 | 0.95 | 677 | 674 | 1,564 | -21 | 0.81 | 222 | 214 | 0.82 |
| Youth income in the past year (\$) | 10,386 | 643 | 0.21 | 556 | 544 | 10,466 | -807 | 0.33 | 179 | 185 | 0.14 |
| Youth total income during the five calendar years after RA (\$) | 44,078 | 145 | 0.89 | 677 | 674 | 48,734 | -476 | 0.79 | 222 | 214 | 0.76 |
| Either parent worked for pay in the past year | 78.9 | 3.3 | 0.17 | 542 | 530 | 41.5 | -5.3 | 0.31 | 173 | 175 | 0.13 |

| | N | lo parent i | eceived S | SA payment | S | At leas | st one par | ent receiv | ed SSA payı | ments | <i>p</i> -value |
|--|-----------------|-------------|-----------------|----------------------|--------------------|-----------------|------------|-----------------|----------------------|-------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p-</i> value | Treatment group N | | for subgroup difference |
| Parents' earnings in the past year (\$) | 33,709 | 698 | 0.71 | 542 | 530 | 13,327 | -3,696 | 0.12 | 173 | 175 | 0.14 |
| Parents' earnings during the five calendar years after RA (\$) | 156,238 | -4,238 | 0.32 | 677 | 674 | 49,291 | 1,416 | 0.78 | 222 | 214 | 0.39 |
| Either parent received SSA payments in Year 5 after RA | 9.3 | -1.5 | 0.32 | 677 | 674 | 90.2 | -3.3 | 0.28 | 222 | 214 | 0.60 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 1,080 | 17 | 0.94 | 677 | 674 | 9,599 | 230 | 0.66 | 222 | 214 | 0.71 |
| Parents' total SSA payments during the five years after RA (\$) | 3,323 | 438 | 0.55 | 677 | 674 | 50,558 | 620 | 0.78 | 222 | 214 | 0.94 |
| Parents' income in the past year (\$) | 34,887 | 662 | 0.71 | 542 | 530 | 23,092 | -3,386 | 0.13 | 173 | 175 | 0.16 |
| Parents' income during the five calendar years after RA (\$) | 160,240 | -3,546 | 0.40 | 677 | 674 | 103,486 | 1,656 | 0.75 | 222 | 214 | 0.43 |
| Either parent is covered by health insurance | 86.7 | 1.5 | 0.45 | 539 | 526 | 93.1 | 1.5 | 0.57 | 173 | 175 | 0.99 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 453 | 41 | 0.11 | 677 | 674 | 1,400 | -40 | 0.57 | 222 | 214 | 0.27 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of ASPIRE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table D.23. ASPIRE: Impacts on primary outcomes, by youth's primary impairment (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | | tellectual mental dis | | Other m | ental impa | airments | Oth | er impairn | nents | <i>p</i> -value for |
|---|-----------------|--------------------------|-----------------|-----------------|------------|-----------------|-----------------|------------|-----------------|------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | subgroup difference |
| Youth enrolled in an educational or training program | 40.6 | -0.3 | 0.93 | 32.6 | -1.2 | 0.79 | 42.5 | 3.6 | 0.45 | 0.73 |
| Youth has a GED, high school diploma, or certificate of completion | 77.9 | -7.3** | 0.02 | 66.1 | -4.0 | 0.38 | 77.1 | 1.4 | 0.73 | 0.23 |
| Youth employed in a paid job in the past year | 34.5 | 3.2 | 0.36 | 55.3 | -0.9 | 0.84 | 43.4 | -7.0 | 0.12 | 0.19 |
| Youth earnings in the past year (\$) | 3,818 | 550 | 0.39 | 6,786 | -7 | 0.99 | 4,828 | -560 | 0.50 | 0.56 |
| Youth earnings during the five calendar years after RA (\$) | 10,683 | 487 | 0.69 | 16,421 | -1,240 | 0.49 | 12,377 | -1,862 | 0.27 | 0.47 |
| Youth self-determination score (scale: 0 to 100) | 78.3 | -0.6 | 0.66 | 79.0 | -0.7 | 0.65 | 82.4 | -0.5 | 0.72 | 1.00 |
| Youth expects to be financially independent at age 25 | 52.1 | 5.5 | 0.23 | 55.4 | 2.1 | 0.71 | 63.9 | -12.6** | 0.03 | 0.04†† |
| Youth received SSA payments in Year 5 after RA | 72.0 | -0.6 | 0.83 | 53.2 | 2.3 | 0.56 | 73.0 | -2.5 | 0.50 | 0.67 |
| Youth total SSA payments in Year 5 after RA (\$) | 5,872 | 84 | 0.76 | 3,922 | 333 | 0.34 | 6,040 | -323 | 0.34 | 0.38 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 32,890 | 186 | 0.84 | 29,350 | 620 | 0.57 | 31,748 | -339 | 0.77 | 0.83 |
| Youth covered by any health insurance | 89.5 | -2.7 | 0.27 | 84.6 | 0.0 | 0.99 | 94.4 | -2.7 | 0.28 | 0.79 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,880 | -99 | 0.16 | 1,205 | -20 | 0.79 | 2,222 | 120 | 0.25 | 0.22 |
| Youth income in the past year (\$) | 9,846 | 844 | 0.15 | 11,009 | 4 | 1.00 | 11,291 | -1,126 | 0.11 | 0.10† |
| Youth total income during the five calendar years after RA (\$) | 44,980 | 793 | 0.51 | 45,921 | -414 | 0.82 | 45,916 | -2,314 | 0.15 | 0.29 |
| Either parent worked for pay in the past year | 65.7 | 2.0 | 0.53 | 70.4 | -1.9 | 0.64 | 73.5 | -0.5 | 0.89 | 0.73 |

| | | tellectual mental dis | | Other m | nental impa | irments | Other impairments | | | <i>p</i> -value for |
|--|-----------------|--------------------------|-----------------|-----------------|-------------|-----------------|-------------------|--------|-----------------|------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | subgroup difference |
| Parents' earnings in the past year (\$) | 26,424 | 587 | 0.78 | 28,994 | -1,580 | 0.57 | 30,513 | -965 | 0.73 | 0.80 |
| Parents' earnings during the five calendar years after RA (\$) | 128,571 | -1,294 | 0.79 | 128,680 | -16,347*** | 0.01 | 135,819 | 9,333 | 0.22 | 0.02†† |
| Either parent received SSA payments in Year 5 after RA | 30.4 | -4.1* | 0.05 | 29.5 | -1.2 | 0.64 | 25.4 | 0.5 | 0.86 | 0.38 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,327 | -351 | 0.28 | 3,019 | 231 | 0.50 | 2,935 | 517 | 0.23 | 0.22 |
| Parents' total SSA payments during the five years after RA (\$) | 14,920 | -362 | 0.74 | 15,814 | 286 | 0.84 | 13,037 | 1,673 | 0.25 | 0.54 |
| Parents' income in the past year (\$) | 30,044 | 285 | 0.89 | 33,029 | -1,475 | 0.60 | 34,154 | -4 | 1.00 | 0.88 |
| Parents' income during the five calendar years after RA (\$) | 145,031 | -1,855 | 0.70 | 145,660 | -15,931*** | 0.01 | 150,256 | 11,533 | 0.13 | 0.01†† |
| Either parent is covered by health insurance | 88.9 | 0.8 | 0.73 | 86.5 | 3.8 | 0.23 | 84.3 | 1.2 | 0.74 | 0.74 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 689 | 19 | 0.64 | 715 | 27 | 0.60 | 629 | 27 | 0.54 | 0.99 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of ASPIRE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table D.24. ASPIRE: Sample sizes for primary outcomes, by youth's primary impairment

| | | developmental bilities | Other menta | l impairments | Other imp | airments |
|--|----------------------|---------------------------|----------------------|--------------------|--------------------|----------------------|
| Outcome | Treatment group N | Control group N | Treatment group N | Control group N | Control group N | Treatment group N |
| Youth enrolled in an educational or training program | 358 | 344 | 205 | 233 | 212 | 198 |
| Youth has a GED, high school diploma, or certificate of completion | 364 | 351 | 211 | 238 | 216 | 203 |
| Youth employed in a paid job in the past year | 369 | 351 | 212 | 240 | 216 | 204 |
| Youth earnings in the past year (\$) | 369 | 351 | 212 | 240 | 216 | 204 |
| Youth earnings during the five calendar years after RA (\$) | 451 | 422 | 263 | 301 | 264 | 252 |
| Youth self-determination score (scale: 0 to 100) | 249 | 223 | 150 | 166 | 129 | 128 |
| Youth expects to be financially independent at age 25 | 247 | 225 | 154 | 168 | 138 | 133 |
| Youth received SSA payments in Year 5 after RA | 451 | 422 | 263 | 301 | 264 | 252 |
| Youth total SSA payments in Year 5 after RA (\$) | 451 | 422 | 263 | 301 | 264 | 252 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 451 | 422 | 263 | 301 | 264 | 252 |
| Youth covered by any health insurance | 359 | 344 | 204 | 232 | 210 | 201 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 451 | 422 | 263 | 301 | 264 | 252 |
| Youth income in the past year (\$) | 369 | 351 | 212 | 240 | 216 | 204 |
| Youth total income during the five calendar years after RA (\$) | 451 | 422 | 263 | 301 | 264 | 252 |
| Either parent worked for pay in the past year | 362 | 339 | 206 | 224 | 211 | 202 |
| Parents' earnings in the past year (\$) | 362 | 339 | 206 | 224 | 211 | 202 |
| Parents' earnings during the five calendar years after RA (\$) | 414 | 392 | 242 | 268 | 243 | 228 |
| Either parent received SSA payments in Year 5 after RA | 414 | 392 | 242 | 268 | 243 | 228 |

| | | developmental bilities | Other menta | l impairments | Other impairments | |
|---|----------------------|---------------------------|----------------------|--------------------|--------------------|----------------------|
| Outcome | Treatment group N | Control group N | Treatment group N | Control group N | Control group N | Treatment group N |
| Parents' total SSA payments received in Year 5 after RA (\$) | 414 | 392 | 242 | 268 | 243 | 228 |
| Parents' total SSA payments during the five years after RA (\$) | 414 | 392 | 242 | 268 | 243 | 228 |
| Parents' income in the past year (\$) | 331 | 317 | 191 | 205 | 193 | 183 |
| Parents' income during the five calendar years after RA (\$) | 414 | 392 | 242 | 268 | 243 | 228 |
| Either parent is covered by health insurance | 359 | 338 | 204 | 222 | 213 | 201 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 414 | 392 | 242 | 268 | 243 | 228 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the sample size by subgroup for the estimates reported in Appendix Table D.23.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table D.25. ASPIRE: Impacts on primary outcomes, by whether the survey respondent completed the five-year survey before or during the pandemic (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | | Be | fore pand | lemic | | | Dui | ring pande | mic | | <i>p</i> -value |
|--|-----------------|--------|-----------------|----------------------|--------------------|-----------------|--------|-----------------|----------------------|-----------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Youth enrolled in an educational or training program | 48.7 | 0.9 | 0.89 | 102 | 92 | 37.4 | 0.0 | 0.99 | 671 | 681 | 0.91 |
| Youth has a GED, high school diploma, or certificate of completion | 79.3 | -7.7 | 0.20 | 102 | 92 | 73.5 | -3.5 | 0.15 | 687 | 698 | 0.51 |
| Youth employed in a paid job in the past year | 43.0 | 2.3 | 0.73 | 102 | 92 | 43.3 | -1.0 | 0.70 | 693 | 701 | 0.64 |
| Youth earnings in the past year (\$) | 4,755 | -1,170 | 0.29 | 102 | 92 | 5,031 | 313 | 0.54 | 693 | 701 | 0.22 |
| Youth self-determination score (scale: 0 to 100) | 80.4 | 1.0 | 0.61 | 84 | 78 | 79.4 | -0.9 | 0.33 | 444 | 439 | 0.37 |
| Youth expects to be financially independent at age 25 | 56.9 | -11.0 | 0.15 | 80 | 78 | 56.0 | 2.0 | 0.55 | 459 | 448 | 0.12 |
| Youth covered by any health insurance | 93.3 | -2.0 | 0.60 | 100 | 92 | 88.7 | -2.0 | 0.27 | 673 | 685 | 1.00 |
| Youth income in the past year (\$) | 11,027 | -497 | 0.63 | 102 | 92 | 10,529 | 187 | 0.69 | 693 | 701 | 0.54 |
| Either parent worked for pay in the past year | 67.6 | 3.0 | 0.63 | 101 | 90 | 69.3 | -0.1 | 0.96 | 678 | 675 | 0.63 |
| Parents' earnings in the past year (\$) | 29,311 | 1,567 | 0.71 | 101 | 90 | 28,108 | -723 | 0.64 | 678 | 675 | 0.61 |
| Parents' income in the past year (\$) | 33,174 | 2,127 | 0.60 | 99 | 87 | 31,803 | -730 | 0.64 | 616 | 618 | 0.51 |
| Either parent is covered by health insurance | 92.2 | 1.0 | 0.79 | 100 | 89 | 86.3 | 1.7 | 0.35 | 676 | 672 | 0.87 |

Source: PROMISE five-year surveys.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of ASPIRE on outcomes derived from survey data. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. We weighted statistics to adjust for survey nonresponse. We defined before the pandemic as before March 13, 2020.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size.

Appendix Table D.26. ASPIRE: Impacts on primary outcomes, by region (values measured at survey and shown in percentages, unless otherwise noted)

| | | Colorado | | | Arizona | | (| Other state | s | <i>p</i> -value for |
|---|--------------|----------|-----------------|--------------|---------|-----------------|-----------------|-------------|-----------------|------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p-</i> value | subgroup difference |
| Youth enrolled in an educational or training program | 34.6 | -0.7 | 0.84 | 43.0 | 5.1 | 0.34 | 42.2 | -1.0 | 0.82 | 0.61 |
| Youth has a GED, high school diploma, or certificate of completion | 72.4 | -4.2 | 0.19 | 74.9 | -5.0 | 0.28 | 76.1 | -3.0 | 0.45 | 0.94 |
| Youth employed in a paid job in the past year | 42.8 | -3.6 | 0.29 | 40.5 | 0.6 | 0.91 | 45.4 | 3.4 | 0.44 | 0.43 |
| Youth total earnings in the past year (\$) | 5,359 | -571 | 0.40 | 4,646 | 858 | 0.38 | 4,636 | 658 | 0.41 | 0.35 |
| Youth earnings during the five calendar years after RA (\$) | 14,116 | -1,403 | 0.29 | 11,275 | 241 | 0.89 | 12,046 | 173 | 0.91 | 0.66 |
| Youth self-determination score (scale: 0 to 100) | 79.5 | -2.0 | 0.12 | 79.9 | -0.4 | 0.84 | 79.4 | 1.2 | 0.43 | 0.25 |
| Youth expects to be financially independent at age 25 | 59.6 | -2.3 | 0.61 | 57.3 | 1.5 | 0.81 | 50.8 | 1.7 | 0.75 | 0.81 |
| Youth received SSA payments in Year 5 after RA | 61.7 | -2.2 | 0.46 | 67.1 | 5.5 | 0.18 | 73.9 | -1.4 | 0.70 | 0.28 |
| Youth total SSA payments in Year 5 after RA (\$) | 4,884 | -81 | 0.76 | 5,366 | 486 | 0.19 | 5,997 | -77 | 0.82 | 0.41 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 30,286 | 432 | 0.63 | 32,396 | 965 | 0.42 | 32,877 | -827 | 0.43 | 0.49 |
| Youth covered by any health insurance | 88.7 | -2.0 | 0.42 | 92.1 | -2.3 | 0.47 | 88.1 | -1.6 | 0.61 | 0.99 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 2,300 | -42 | 0.53 | 1,431 | -34 | 0.74 | 1,099 | 23 | 0.79 | 0.83 |
| Youth income in the past year (\$) | 10,599 | -652 | 0.30 | 10,062 | 1,065 | 0.24 | 10,886 | 571 | 0.43 | 0.22 |
| Youth total income during the five calendar years after RA (\$) | 45,043 | -851 | 0.50 | 44,737 | 1,823 | 0.31 | 46,886 | -1,034 | 0.50 | 0.40 |
| Either parent worked for pay in the past year | 67.9 | -2.1 | 0.51 | 70.7 | 1.6 | 0.73 | 69.9 | 3.0 | 0.43 | 0.56 |

| | | Colorado | | | Arizona | | | Other states | S | <i>p</i> -value for |
|--|-----------------|----------|-----------------|--------------|---------|-----------------|-----------------|--------------|-----------------|------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | subgroup difference |
| Parents' earnings in the past year (\$) | 25,483 | 372 | 0.85 | 30,484 | -1,214 | 0.73 | 31,161 | -1,183 | 0.65 | 0.86 |
| Parents' earnings during the five calendar years after RA (\$) | 118,857 | 6,062 | 0.23 | 142,678 | -3,890 | 0.59 | 139,502 | -15,522** | 0.01 | 0.03†† |
| Either parent received SSA payments in Year 5 after RA | 29.8 | -4.4** | 0.02 | 23.9 | 0.7 | 0.80 | 30.9 | -0.4 | 0.88 | 0.23 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,180 | -166 | 0.54 | 2,566 | 292 | 0.50 | 3,473 | 165 | 0.70 | 0.61 |
| Parents' total SSA payments during the five years after RA (\$) | 15,523 | -518 | 0.62 | 12,150 | 1,561 | 0.31 | 15,300 | 764 | 0.61 | 0.49 |
| Parents' income in the past year (\$) | 29,742 | -9 | 1.00 | 33,162 | -583 | 0.87 | 34,462 | -559 | 0.82 | 0.98 |
| Parents' income during the five calendar years after RA (\$) | 135,784 | 5,357 | 0.28 | 156,030 | -2,349 | 0.74 | 156,309 | -14,186** | 0.02 | 0.05†† |
| Either parent is covered by health insurance | 88.0 | 1.4 | 0.54 | 88.2 | 0.0 | 1.00 | 84.5 | 3.4 | 0.29 | 0.77 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 791 | 41 | 0.28 | 619 | -9 | 0.87 | 558 | 21 | 0.67 | 0.75 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of ASPIRE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

| | Col | orado | Ari | zona | Other s | tates |
|---|----------------------|--------------------|----------------------|--------------------|--------------------|----------------------|
| Outcome | Treatment group N | Control group N | Treatment group N | Control group N | Control group N | Treatment group N |
| | | | | | | ••• |
| Youth enrolled in an educational or training program | 379 | 374 | 173 | 163 | 223 | 238 |
| Youth has a GED, high school diploma, or certificate of completion | 390 | 378 | 176 | 168 | 225 | 246 |
| Youth employed in a paid job in the past year | 391 | 380 | 176 | 169 | 230 | 246 |
| Youth earnings in the past year (\$) | 391 | 380 | 176 | 169 | 230 | 246 |
| Youth earnings during the five calendar years after RA (\$) | 479 | 478 | 214 | 213 | 285 | 284 |
| Youth self-determination score (scale: 0 to 100) | 248 | 235 | 125 | 107 | 155 | 175 |
| Youth expects to be financially independent at age 25 | 250 | 235 | 127 | 111 | 162 | 180 |
| Youth received SSA payments in Year 5 after RA | 479 | 478 | 214 | 213 | 285 | 284 |
| Youth total SSA payments in Year 5 after RA (\$) | 479 | 478 | 214 | 213 | 285 | 284 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 479 | 478 | 214 | 213 | 285 | 284 |
| Youth covered by any health insurance | 380 | 369 | 171 | 167 | 222 | 241 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 479 | 478 | 214 | 213 | 285 | 284 |
| Youth income in the past year (\$) | 391 | 380 | 176 | 169 | 230 | 246 |
| Youth total income during the five calendar years after RA (\$) | 479 | 478 | 214 | 213 | 285 | 284 |
| Either parent worked for pay in the past year | 385 | 374 | 169 | 161 | 225 | 230 |
| Parents' earnings in the past year (\$) | 385 | 374 | 169 | 161 | 225 | 230 |
| Parents' earnings during the five calendar years after RA (\$) | 423 | 419 | 198 | 197 | 278 | 272 |
| Either parent received SSA payments in Year 5 after RA | 423 | 419 | 198 | 197 | 278 | 272 |

Appendix Table D.27. ASPIRE: Sample sizes for primary outcomes, by region

| | Col | orado | Ari | zona | Other s | tates |
|---|----------------------|--------------------|----------------------|--------------------|--------------------|----------------------|
| Outcome | Treatment group N | Control group N | Treatment group N | Control group N | Control group N | Treatment group N |
| Parents' total SSA payments received in Year 5 after RA (\$) | 423 | 419 | 198 | 197 | 278 | 272 |
| Parents' total SSA payments during the five years after RA (\$) | 423 | 419 | 198 | 197 | 278 | 272 |
| Parents' income in the past year (\$) | 335 | 330 | 157 | 153 | 223 | 222 |
| Parents' income during the five calendar years after RA (\$) | 423 | 419 | 198 | 197 | 278 | 272 |
| Either parent is covered by health insurance | 385 | 372 | 167 | 161 | 224 | 228 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 423 | 419 | 198 | 197 | 278 | 272 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the sample size by subgroup for the estimates reported in Appendix Table D.26.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

C. Findings from the benefit-cost analysis

In this section, we present findings from the benefit-cost analysis of ASPIRE. First, we present benefits and costs estimated through the main model. Second, we present the results of sensitivity analyses. Third, we present the projected accrual of net benefits beyond the five-year evaluation period.

1. Benefit-cost estimates

Appendix Table D.28 provides estimates of the program's benefits and indirect costs, the costs of program components, and benefit-cost statistics estimated using the main model as described in Appendix B.

| | | Fe | deral govern | ment | State and local | |
|---|---|------------|--------------|---|--|--|
| Benefit or cost measure | PROMISE youth and families (A) | SSA (B) | ED (C) | Federal government as a whole ^a (D) | government, including PROMISE partners (E) | All key stakeholders (F = A + D + E) |
| Panel 1: Quantitative outcome measures | | | | | | |
| Youth outcomes | | | | | | |
| Earnings | -591 | 0 | 0 | 0 | 0 | -591 |
| Fringe benefits | -150 | 0 | 0 | 0 | 0 | -150 |
| Income, payroll, and sales taxes | 111 | -73 | 0 | -94 | -17 | 0 |
| Work-related and child care costs | 70 | 0 | 0 | 0 | 0 | 70 |
| SSI benefits | 362 | -362 | 0 | -362 | 0 | 0 |
| OASDI benefits | -181 | 181 | 0 | 181 | 0 | 0 |
| SSI administrative costs | 0 | -28 | 0 | -28 | 0 | -28 |
| SSDI administrative costs | 0 | 3 | 0 | 3 | 0 | 3 |
| Medicaid and Medicare expenditures and administrative costs | -1,310 | 0 | 0 | 813 | 609 | 111 |
| Education-related costs | -164 | 0 | 0 | 0 | 0 | -164 |
| Incarceration | 0 | 0 | 0 | 0 | 110 | 110 |
| Parent outcomes | ÷ | | | | | |
| Earnings | -2,952 | 0 | 0 | 0 | 0 | -2,952 |
| Fringe benefits | -747 | 0 | 0 | 0 | 0 | -747 |
| Income, payroll, and sales taxes | 656 | -366 | 0 | -469 | -187 | 0 |
| Work-related and child care costs | 511 | 0 | 0 | 0 | 0 | 511 |
| SSI benefits | 70 | -70 | 0 | -70 | 0 | 0 |
| OASDI benefits | 290 | -290 | 0 | -290 | 0 | 0 |
| SSI administrative costs | 0 | -5 | 0 | -5 | 0 | -5 |
| SSDI administrative costs | 0 | -6 | 0 | -6 | 0 | -6 |
| Medicaid and Medicare expenditures and administrative costs | 1,511 | 0 | 0 | -1,437 | -202 | -128 |

Appendix Table D.28. ASPIRE: Benefits and costs (\$) over the five-year evaluation time period, by accounting perspective

| | | F | ederal govern | ment | State and local | |
|--|---|------------|---------------|---------|--|--|
| Benefit or cost measure | PROMISE youth and families (A) | SSA (B) | | | government, including PROMISE partners (E) | All key stakeholders (F = A + D + E) |
| Household outcomes | | | | | | |
| TANF, SNAP, housing assistance, and related administrative costs | 1,024 | 0 | 0 | -974 | -175 | -125 |
| Total | -1,490 | -1,017 | 0 | -2,739 | 138 | -4,090 |
| Panel 2: Costs of program components | | | | | | |
| Program administration | 0 | 0 | -8,757 | -8,757 | 0 | -8,757 |
| Employment services | 0 | 0 | -812 | -812 | -84 | -897 |
| Education services | 0 | 0 | -546 | -546 | 0 | -546 |
| Case management services | 0 | 0 | -9,357 | -9,357 | 0 | -9,357 |
| Financial and benefits counseling | 0 | 0 | -1,311 | -1,311 | 0 | -1,311 |
| Parent training and information services | 0 | 0 | -516 | -516 | 0 | -516 |
| Youth self-determination services | 0 | 0 | -1,365 | -1,365 | 0 | -1,365 |
| Total | 0 | 0 | -22,665 | -22,665 | -84 | -22,749 |
| Panel 3: Benefit-cost statistics | | | | | | |
| Net benefits (benefits minus costs) | -1,490 | -1,017 | -22,665 | -25,403 | 54 | -26,839 |
| Net benefit ratio ^b | n.a. | n.a. | 0 | -0.12 | 1.64 | -0.18 |

Source: See Appendix Table B.4 for details on the sources and imputation methods for each benefit or cost component.

Note: To construct each component of the benefit-cost analysis, we used the estimated impacts on key outcomes (regardless of whether they were statistically significant), or imputation methods that combined the impact estimates with data from external sources. To construct program costs, we used data from program administrative records, financial documents, staff activity logs, and staff interviews. All benefits and costs are dollars per treatment group family over five years and are inflation-adjusted to 2020 dollars and discounted to 2020 present value.

^a The perspective of the federal government as a whole incorporates the perspectives of SSA, ED, and other federal agencies that might experience benefits or costs because of PROMISE.

^b Calculated for all key stakeholders as the sum of all quantitative measures in Panel 1, which include benefits and indirect costs, divided by the program costs.

ED = U.S. Department of Education; SNAP = Supplemental Nutrition Assistance Program; SSA = Social Security Administration; SSDI = Social Security Disability Insurance; SSI = Supplemental Security Income; TANF = Temporary Assistance for Needy Families.

2. Sensitivity analyses

We conducted three analyses to assess the sensitivity of the benefit-cost estimates to changes in the underlying assumptions and methodological choices (see Appendix B for a description of our methods). First, we sampled with replacement from the study population 1,000 times to create 1,000 random samples with an equal size as the true sample. For each sample, we calculated the net benefit for each accounting perspective. In Appendix Table D.29, we show the sampling distribution of our net benefit estimates for ASPIRE. The estimated net benefits for all key stakeholders were negative across the entire sampling distribution, suggesting that our main conclusion (that ASPIRE did not generate net benefit estimate (-\$26,839) is robust to sampling variability. The confidence interval of the net benefit estimate (-\$26,839) is wide, ranging from -\$35,544 (the 2.5th percentile) to -\$18,941 (the 97.5th percentile), reflecting that many of the impact estimates incorporated into the benefit-cost analyses have wide confidence intervals.

Second, we recalculated the net benefits using only the impact estimates that were significant at the 10 percent level (Appendix Table D.30). From the perspective of all stakeholders, the net benefit was within 5 percent of the estimate from the main analysis and continued to be negative and sizeable.

Third, we considered whether the benefit-cost results were sensitive to the assumptions we used to estimate some of the individual components. In Appendix Table D.30, we show the estimates of net benefits when we applied the alternative assumptions. From the perspective of all key stakeholders, net benefits under the alternative assumptions were always within 5 percent of the net benefits estimated under the main analysis, and net benefits were sizeable and negative under each scenario. However, net benefits for ASPIRE youth and families and for state and local governments were sensitive to the alternative assumptions.

| Estimate of net benefit | PROMISE youth and families | | Federal governm | State and local | | |
|----------------------------|-------------------------------|--------|-----------------|--------------------------------------|---|-------------------------|
| | | SSA | ED | Federal government as a wholeª | government, including PROMISE partners | All key stakeholders |
| Original estimate | -1,490 | -1,017 | -22,665 | -25,403 | 54 | -26,839 |
| Min | -17,060 | -5,797 | -22,793 | -37,905 | -5,574 | -43,063 |
| 2.5th percentile | -11,378 | -3,716 | -22,750 | -32,481 | -3,028 | -35,544 |
| 25th percentile | -4,834 | -1,843 | -22,693 | -27,799 | -1,068 | -29,727 |
| 50th percentile | -1,482 | -1,029 | -22,665 | -25,430 | 25 | -26,821 |
| 75th percentile | 1,878 | -95 | -22,636 | -22,849 | 1,058 | -24,175 |
| 97.5th percentile | 7,906 | 1,479 | -22,577 | -18,650 | 2,906 | -18,941 |
| Max | 16,453 | 3,250 | -22,491 | -15,103 | 4,419 | -12,829 |

Appendix Table D.29. ASPIRE: Sensitivity of net benefits to sampling variability

Source: See Appendix Table B.4 for details on the sources and methods for the net-benefit calculation.

Note: We quantified uncertainty in the estimated net benefits by constructing non-parametric bootstrap confidence intervals. We sampled with replacement from the study population 1,000 times and then re-estimated all cost and benefit parameters for these 1,000 random samples. We then calculated the net benefits for each bootstrap sample. The 2.5th percentile and 97.5th percentile of the resulting values represent the 95 percent confidence interval of the net benefit estimate.

| | | F | ederal governr | State and local | All key stakeholders (F = A + D + E) | |
|---|--------------------------------------|-------------------|----------------|---|--|--|
| Assumption | PROMISE youth and families (A) | SSA ED (B) (C) | | Federal government as a whole ^a (D) | | government, including PROMISE partners (E) |
| Main benefit-cost analysis model | -1,490 | -1,017 | -22,665 | -25,403 | 54 | -26,839 |
| Excluded fringe benefits | -593 | -1,017 | -22,665 | -25,403 | 54 | -25,942 |
| Excluded education tuition costs | -1,368 | -1,017 | -22,665 | -25,403 | 54 | -26,717 |
| Used higher incarceration costs ^b | -1,490 | -1,017 | -22,665 | -25,403 | 203 | -26,690 |
| Used a fixed work-related cost measure (non-child care) ^c | -1,964 | -1,017 | -22,665 | -25,403 | 54 | -27,313 |
| Used a low discount rate ^d | -1,486 | -969 | -22,665 | -25,232 | 57 | -26,662 |
| Used a high discount rate ^d | -1,493 | -1,060 | -22,665 | -25,556 | 52 | -26,997 |
| Used only statistically significant estimates in the calculation ^e | 1,906 | 0 | -22,665 | -24,693 | -275 | -23,062 |

Appendix Table D.30. ASPIRE: Sensitivity of net benefits to different assumptions in the benefit cost analysis

Source: See Appendix Table B.4 for details on the sources and methods for the net-benefit calculation.

Note: The inputs for the benefit-cost analysis are based on (1) program costs drawn from program administrative records, financial documents, staff activity logs and staff interviews (2) the estimated impacts on key outcomes (regardless of whether they were statistically significant), or (3) imputation methods that combined the impact estimates with data from external sources. All benefits and costs are dollars per treatment group family over five years and are inflation-adjusted to 2020 dollars and discounted to 2020 present value.

^a The perspective of the federal government as a whole incorporates the perspectives of SSA, ED, and other federal agencies that might experience benefits or costs because of PROMISE.

^b We changed incarceration costs from the national average (\$97/day) to the highest state-specific cost (California, \$228/day).

^c We changed work-related costs from a multiplier of 10.6% to a fixed cost of \$51 dollars per week.

^d The low discount rate is 1 percent, and the high discount rate is 5 percent.

^e This sensitivity analysis assigns a value of zero to impact estimates to impacts estimates that were not were significant at the .10 level. (The main analysis and all other sensitivity tests include impact estimates regardless of whether they were statistically significant).

ED = U.S. Department of Education; SSA = Social Security Administration.

3. Long-term forecast

We projected the accrual of net benefits over 10 and 20 years after RA to assess how costs and benefits may change after the five-year evaluation period. We projected the net benefits under three scenarios that varied in their potential returns to youth's education: high returns, diminishing returns, and no returns (Appendix Table D.31). Because ASPIRE caused a small and non-significant decrease in youth's years of education (-0.01 years), the scenario assuming "no returns" to education generates the highest net benefit estimate and the scenario assuming "high returns" to education generates the lowest estimate. Across all scenarios, the forecasted net benefits 10 and 20 years after RA are lower than the net benefits estimated at five years after RA. This is largely because treatment group youth had lower earnings than control group youth in the fourth and fifth years after RA, a disadvantage that gets compounded in the forecast as earnings grow by an annual percentage over time.

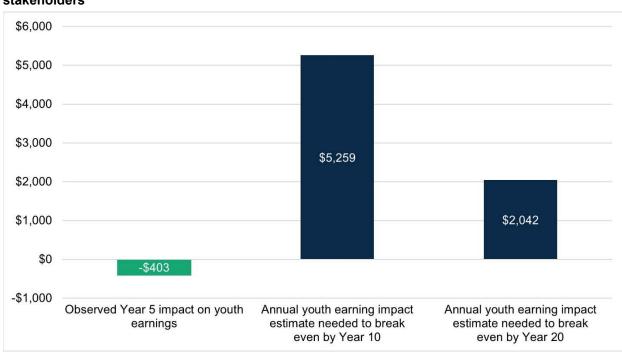
We also calculated how large the impact on youth earnings would have to be, assuming all other impacts were the same as in the five-year analysis, for ASPIRE's benefits to equal the costs in 10 and 20 years after RA (Appendix Figure D.1). The program would need to generate an average annual impact on youth earnings of \$5,259 per year to be cost neutral 10 years after RA and \$2,042 per year to be cost neutral 20 years after RA. Generating impacts of these sizes seems implausible because the point estimate of the program's impact on youth earnings in the fifth year after RA was -\$403.

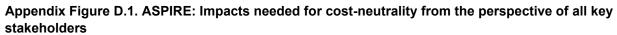
| | | F | ederal governn | State and local | 1 | |
|--------------------------------------|----------------------------------|--------|----------------|--------------------------------------|--|---|
| | PROMISE youth and families | SSA | ED | Federal government as a wholeª | government, including PROMISE partners | All key stakeholders (F = A + D + |
| Assumption | (A) | (B) | (C) | (D) | (E) | E) |
| 10-year forecast | | | | | | |
| Returns to education | | | | | | |
| Persistent high return to education | -5,421 | -1,789 | -22,665 | -26,487 | 155 | -31,753 |
| Diminishing return to education | -5,410 | -1,781 | -22,665 | -26,478 | 156 | -31,733 |
| No return to education | -5,402 | -1,777 | -22,665 | -26,474 | 156 | -31,720 |
| Confidence interval bounds | | | | | | |
| Using upper bound of earnings impact | -2,050 | -1,175 | -22,665 | -25,743 | 261 | -27,532 |
| Using lower bound of earnings impact | -10,413 | -2,907 | -22,665 | -27,803 | -6 | -38,223 |
| 20-year forecast | | | | | | |
| Returns to education | | | | | | |
| Persistent high return to education | -12,729 | -3,043 | -22,665 | -28,285 | 293 | -40,721 |
| Diminishing return to education | -12,659 | -3,022 | -22,665 | -28,262 | 296 | -40,625 |
| No return to education | -12,651 | -3,018 | -22,665 | -28,257 | 296 | -40,612 |
| Confidence interval bounds | | | | | | |
| Using upper bound of earnings impact | -1,652 | -1,082 | -22,665 | -25,900 | 639 | -26,913 |
| Using lower bound of earnings impact | -29,260 | -6,483 | -22,665 | -32,375 | -235 | -61,870 |

Appendix Table D.31. ASPIRE: Net benefits (\$) to all stakeholders forecast over 10 and 20 years after RA, under different assumptions about the returns to education and using the upper and lower bound of the earnings impact

Source: See Appendix Table B.4 for details on the sources and methods for the net-benefit calculation.

Note: To construct each component of the benefit-cost analysis, we used either (1) the impact estimates themselves (regardless of whether they were statistically significant), or (2) imputation methods to combine the impact estimates with data from external sources. To construct program costs, we used data from program administrative records, financial documents, staff activity logs, and staff interviews. All benefits and costs are dollars per treatment group family and are inflation-adjusted to 2020 dollars and discounted to 2020 present value. The 10-year and 20-year projections are based on costs observed from the five-year evaluation period and a forecasting scenario for the five and fifteen following years, respectively, assuming that earnings grow over time. Additionally, the persistent high return to education forecasting scenario assumes a return to education of 10 percent per additional year of schooling; the diminishing returns to education scenario assumes the returns to education are 10 percent in Year 6 and then diminish over time to zero percent in Year 10; and the no return to education scenario assumes no increase over time in the return to education.





ASPIRE = Achieving Success by Promoting Readiness for Education and Employment; RA = random assignment.

Note: The first bar shows the estimated impact on youth earnings in Year 5 after RA. The second bar shows the impact on youth earnings needed every year between Years 6 and 10 after RA for the program to be cost neutral 10 years after RA, assuming other benefits and costs are held constant between Years 6 and 10 after RA. The third bar shows the impact on youth earnings needed every year between Years 6 and 20 after RA for the program to be cost neutral 20 years after RA, assuming other benefits and costs are held constant between Years 6 and 20 after RA for the program to be cost neutral 20 years after RA, assuming other benefits and costs are held constant between Years 6 and 20 after RA for the program to be cost neutral 20 years after RA, assuming other benefits and costs are held constant between Years 6 and 20 after RA. All values are per treatment group family, inflation-adjusted to 2020 dollars, and discounted to 2020 present value.

Appendix E. CaPROMISE Impacts, Benefits, and Costs

A. Enrollees and analysis samples

The full research sample for the evaluation of CaPROMISE consists of the 3,097 youth who enrolled in the evaluation and were randomly assigned, as well as their families. To assess the extent to which the findings might reflect the baseline characteristics of various samples, we compared differences between (1) the treatment and control groups, (2) survey respondents and nonrespondents, and (3) self-reporting and proxy youth respondents.

1. Differences between the treatment and control groups

We compared 25 baseline characteristics of the treatment and control groups for four samples: all youth survey respondents, all parent survey respondents, all enrollees, and all proxy youth respondents (Appendix Tables E.1–E.4). The similarity of samples across the characteristics examined suggest that RA created treatment and control groups that were equivalent in their baseline characteristics. Although we found statistically significant differences for a few characteristics, they are not concerning for two reasons. First, with a significance level of 10 percent, we expect to reject the null hypothesis that the groups were equivalent for 1 out of every 10 characteristics by chance alone, even when the two groups in fact had no underlying differences. Second, we included characteristics that were significantly different at baseline as covariates in our regression-adjusted impact analyses, allowing us to control for the observed differences.

Appendix Table E.1. CaPROMISE: Baseline characteristics of youth survey respondents (percentages, unless otherwise noted)

| | All | Treatment | Control | Difference | |
|--|------|-----------|---------|------------|-----------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | <i>p-</i> value |
| Demographic characteristics | | | | | |
| Youth is female | 33.0 | 31.9 | 34.1 | -2.1 | 0.36 |
| Youth age at RA | | | | | 0.59 |
| 14 | 34.9 | 36.0 | 33.9 | 2.1 | |
| 15 | 31.1 | 31.1 | 31.1 | 0.1 | |
| 16 | 34.0 | 32.9 | 35.1 | -2.2 | |
| Average age at RA | 15.4 | 15.4 | 15.5 | -0.0 | 0.32 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 64.5 | 64.1 | 64.9 | -0.8 | 0.73 |
| Prefers English for spoken language | 64.5 | 64.0 | 65.1 | -1.1 | 0.65 |
| Youth living arrangement at SSI application | | | | | 0.58 |
| In parents' household | 76.5 | 75.8 | 77.1 | -1.3 | |
| Own household or alone | 20.9 | 21.9 | 20.0 | 1.8 | |
| Another household and receiving support | 2.6 | 2.3 | 2.8 | -0.5 | |
| Youth race and ethnicity | | | | † | 0.10 |
| Non-Hispanic White | 5.4 | 6.5 | 4.3 | 2.2 | |
| Non-Hispanic Black | 14.5 | 14.0 | 14.9 | -0.9 | |
| Hispanic | 54.1 | 55.3 | 53.0 | 2.3 | |
| Non-Hispanic American Indian | 0.5 | 0.5 | 0.4 | 0.1 | |
| Non-Hispanic other or mixed race | 6.5 | 7.1 | 6.0 | 1.1 | |
| Missing | 19.1 | 16.7 | 21.5 | -4.8 | |
| Enrolling parent age at RA | 44.1 | 44.2 | 44.1 | 0.1 | 0.87 |
| Parent race and ethnicity | | | | | 0.17 |
| Non-Hispanic White | 7.6 | 8.7 | 6.5 | 2.2 | |
| Non-Hispanic Black | 16.3 | 16.6 | 16.0 | 0.6 | |
| Hispanic | 53.6 | 54.4 | 52.7 | 1.7 | |
| Non-Hispanic American Indian | 0.3 | 0.2 | 0.4 | -0.2 | |
| Non-Hispanic other or mixed race | 6.0 | 6.0 | 6.0 | -0.0 | |
| Missing | 16.2 | 14.0 | 18.4 | -4.3 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.32 |
| Intellectual or developmental disability | 48.5 | 47.0 | 50.0 | -3.1 | |
| Speech, hearing, or visual impairment | 3.0 | 3.0 | 3.0 | 0.0 | |
| Physical disability | 18.8 | 17.9 | 19.8 | -1.9 | |
| Other mental impairment | 22.7 | 24.6 | 20.8 | 3.9 | |
| Other or unknown disability | 7.0 | 7.5 | 6.5 | 1.0 | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 94.1 | 93.1 | 95.1 | -2.0* | 0.10 |
| Received OASDI | 6.9 | 8.3 | 5.6 | 2.7** | 0.04 |
| Years between youth's earliest SSI eligibility and RA | 9.0 | 8.7 | 9.3 | -0.6*** | 0.01 |
| Youth age at most recent SSI application | 6.8 | 7.1 | 6.6 | 0.5** | 0.03 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,384 | 7,270 | 7,499 | -229** | 0.03 |
| OASDI | 221 | 283 | 160 | 123** | 0.01 |
| Total SSI and OASDI | 7,606 | 7,552 | 7,659 | -107 | 0.29 |
| Household had multiple SSI-eligible children | 13.6 | 13.9 | 13.4 | 0.5 | 0.76 |
| Enrolling parent provided a valid SSN at RA | 61.6 | 61.9 | 61.4 | 0.5 | 0.85 |
| Parents included in the administrative data | | | | | 0.16 |
| None | 14.7 | 15.0 | 14.5 | 0.5 | |
| One parent | 50.7 | 52.7 | 48.7 | 4.0 | |
| Two parents | 34.6 | 32.3 | 36.8 | -4.5 | |
| Parent SSA payment status at RA | | | | | 0.65 |
| Any parent received SSI only | 6.3 | 6.0 | 6.5 | -0.5 | |
| Any parent received OASDI only | 6.2 | 7.0 | 5.3 | 1.6 | |
| Any parent received both SSI and OASDI | 2.6 | 2.9 | 2.4 | 0.5 | |
| No parent received any SSA payments | 70.3 | 69.2 | 71.3 | -2.1 | |
| No parent was included in the SSA data analyses | 14.7 | 15.0 | 14.5 | 0.5 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 2.7 | 3.3 | 2.1 | 1.2 | 0.14 |
| Youth earnings in the calendar year before RA (\$) | 40 | 69 | 12 | 57 | 0.11 |
| Parent had earnings in the calendar year before RA | 75.2 | 72.8 | 77.5 | -4.7* | 0.05 |
| Parent earnings in the calendar year before RA (\$) | 19,205 | 18,860 | 19,546 | -686 | 0.52 |
| Number of youth | 1,605 | 810 | 795 | | |

Note: The sample includes all youth who completed the PROMISE five-year youth survey. We weighted the statistics to adjust for survey nonresponse and sample design. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

Appendix Table E.2. CaPROMISE: Baseline characteristics of parent survey respondents (percentages, unless otherwise noted)

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p</i> -value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| | (A) | (В) | (0) | (B=C) | <i>p</i> -value |
| Demographic characteristics | 00.0 | 20.4 | 00.0 | 4.0 | 0.44 |
| Youth is female | 33.0 | 32.1 | 33.9 | -1.8 | 0.44 |
| Youth age at RA | | | | | 0.80 |
| 14 | 34.7 | 35.4 | 34.1 | 1.3 | |
| 15 | 30.8 | 30.9 | 30.8 | 0.1 | |
| 16 | 34.4 | 33.7 | 35.1 | -1.4 | |
| Average age at RA | 15.4 | 15.4 | 15.5 | -0.0 | 0.61 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 63.9 | 63.5 | 64.3 | -0.8 | 0.74 |
| Prefers English for spoken language | 63.9 | 63.4 | 64.4 | -1.0 | 0.67 |
| Youth living arrangement at SSI application | | | | | 0.27 |
| In parents' household | 76.3 | 75.2 | 77.3 | -2.1 | |
| Own household or alone | 20.9 | 22.4 | 19.5 | 2.9 | |
| Another household and receiving support | 2.8 | 2.4 | 3.2 | -0.7 | |
| Youth race and ethnicity | | | | † | 0.07 |
| Non-Hispanic White | 5.3 | 6.5 | 4.1 | 2.4 | |
| Non-Hispanic Black | 14.5 | 14.2 | 14.8 | -0.7 | |
| Hispanic | 55.5 | 56.3 | 54.8 | 1.5 | |
| Non-Hispanic American Indian | 0.5 | 0.5 | 0.4 | 0.0 | |
| Non-Hispanic other or mixed race | 6.4 | 7.0 | 5.7 | 1.4 | |
| Missing | 17.9 | 15.6 | 20.2 | -4.7 | |
| Enrolling parent age at RA | 44.2 | 44.3 | 44.1 | 0.2 | 0.60 |
| Parent race and ethnicity | | | | | 0.29 |
| Non-Hispanic White | 7.3 | 8.3 | 6.2 | 2.1 | |
| Non-Hispanic Black | 16.0 | 16.5 | 15.5 | 1.0 | |
| Hispanic | 54.4 | 54.9 | 53.9 | 1.0 | |
| Non-Hispanic American Indian | 0.3 | 0.2 | 0.4 | -0.2 | |
| Non-Hispanic other or mixed race | 5.8 | 5.6 | 5.9 | -0.3 | |
| Missing | 16.2 | 14.4 | 18.0 | -3.6 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.33 |
| Intellectual or developmental disability | 48.0 | 46.5 | 49.5 | -3.0 | |
| Speech, hearing, or visual impairment | 2.9 | 3.0 | 2.7 | 0.3 | |
| Physical disability | 18.5 | 17.6 | 19.3 | -1.7 | |
| Other mental impairment | 23.5 | 24.6 | 22.3 | 2.4 | |
| | | | | | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 94.3 | 93.4 | 95.1 | -1.8 | 0.13 |
| Received OASDI | 6.7 | 8.0 | 5.4 | 2.5** | 0.04 |
| Years between youth's earliest SSI eligibility and RA | 9.0 | 8.7 | 9.3 | -0.6*** | 0.00 |
| Youth age at most recent SSI application | 6.9 | 7.1 | 6.6 | 0.5** | 0.03 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,398 | 7,316 | 7,481 | -165 | 0.12 |
| OASDI | 215 | 274 | 158 | 116** | 0.01 |
| Total SSI and OASDI | 7,614 | 7,589 | 7,638 | -49 | 0.62 |
| Household had multiple SSI-eligible children | 13.7 | 13.8 | 13.6 | 0.2 | 0.92 |
| Enrolling parent provided a valid SSN at RA | 61.9 | 61.9 | 61.8 | 0.1 | 0.97 |
| Parents included in the administrative data | | | | | 0.11 |
| None | 14.6 | 15.2 | 14.1 | 1.1 | |
| One parent | 50.7 | 52.6 | 48.8 | 3.8 | |
| Two parents | 34.7 | 32.2 | 37.2 | -5.0 | |
| Parent SSA payment status at RA | | | | | 0.69 |
| Any parent received SSI only | 6.4 | 6.3 | 6.5 | -0.2 | |
| Any parent received OASDI only | 6.2 | 6.9 | 5.5 | 1.4 | |
| Any parent received both SSI and OASDI | 2.7 | 2.9 | 2.5 | 0.5 | |
| No parent received any SSA payments | 70.1 | 68.7 | 71.4 | -2.7 | |
| No parent was included in the SSA data analyses | 14.6 | 15.2 | 14.1 | 1.1 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 2.5 | 3.0 | 2.0 | 1.0 | 0.21 |
| Youth earnings in the calendar year before RA (\$) | 42 | 71 | 13 | 58 | 0.11 |
| Parent had earnings in the calendar year before RA | 75.3 | 72.8 | 77.7 | -4.9** | 0.04 |
| Parent earnings in the calendar year before RA (\$) | 19,145 | 18,805 | 19,478 | -673 | 0.52 |
| Number of youth | 1,605 | 813 | 792 | | |

Note: The sample includes all youth whose parent completed the PROMISE five-year youth survey. We weighted the statistics to adjust for survey nonresponse and sample design. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a chi-square test.

Appendix Table E.3. CaPROMISE: Baseline characteristics of all youth enrollees (percentages, unless otherwise noted)

| | All | Treatment | Control | Difference | |
|--|------|-----------|---------|------------|-----------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | <i>p-</i> value |
| Demographic characteristics | | | | | |
| Youth is female | 32.6 | 32.0 | 33.3 | -1.3 | 0.43 |
| Youth age at RA | | | | | 0.36 |
| 14 | 34.6 | 35.7 | 33.4 | 2.3 | |
| 15 | 30.7 | 30.5 | 30.9 | -0.4 | |
| 16 | 34.7 | 33.8 | 35.7 | -1.9 | |
| Average age at RA | 15.4 | 15.4 | 15.5 | -0.0 | 0.23 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 64.6 | 64.1 | 65.1 | -0.9 | 0.59 |
| Prefers English for spoken language | 64.7 | 64.0 | 65.3 | -1.3 | 0.44 |
| Youth living arrangement at SSI application | | | | | 0.70 |
| In parents' household | 76.0 | 75.6 | 76.4 | -0.9 | |
| Own household or alone | 21.5 | 22.0 | 20.9 | 1.1 | |
| Another household and receiving support | 2.5 | 2.4 | 2.6 | -0.3 | |
| Youth race and ethnicity | | | | | 0.51 |
| Non-Hispanic White | 3.5 | 4.0 | 3.0 | 1.0 | |
| Non-Hispanic Black | 9.3 | 9.2 | 9.4 | -0.1 | |
| Hispanic | 34.7 | 34.9 | 34.5 | 0.4 | |
| Non-Hispanic American Indian | 0.4 | 0.4 | 0.4 | 0.0 | |
| Non-Hispanic other or mixed race | 4.0 | 4.4 | 3.6 | 0.8 | |
| Missing | 48.1 | 47.1 | 49.2 | -2.1 | |
| Enrolling parent age at RA | 44.1 | 44.2 | 43.9 | 0.3 | 0.27 |
| Parent race and ethnicity | | | | | 0.77 |
| Non-Hispanic White | 4.6 | 5.0 | 4.3 | 0.7 | |
| Non-Hispanic Black | 10.3 | 10.7 | 10.0 | 0.7 | |
| Hispanic | 34.4 | 34.3 | 34.4 | -0.1 | |
| Non-Hispanic American Indian | 0.2 | 0.1 | 0.3 | -0.1 | |
| Non-Hispanic other or mixed race | 3.7 | 3.9 | 3.5 | 0.4 | |
| Missing | 46.8 | 46.1 | 47.6 | -1.5 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.83 |
| Intellectual or developmental disability | 47.8 | 47.7 | 47.8 | -0.2 | |
| Speech, hearing, or visual impairment | 2.8 | 3.0 | 2.6 | 0.4 | |
| Physical disability | 18.9 | 18.2 | 19.5 | -1.3 | |
| Other mental impairment | 23.7 | 24.2 | 23.1 | 1.1 | |
| Other or unknown disability | 6.9 | 6.8 | 6.9 | -0.1 | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 93.7 | 93.3 | 94.0 | -0.6 | 0.46 |
| Received OASDI | 7.0 | 7.4 | 6.6 | 0.8 | 0.39 |
| Years between youth's earliest SSI eligibility and RA | 9.0 | 8.9 | 9.2 | -0.4** | 0.02 |
| Youth age at most recent SSI application | 6.9 | 7.0 | 6.8 | 0.2 | 0.18 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,404 | 7,382 | 7,426 | -45 | 0.56 |
| OASDI | 218 | 234 | 201 | 33 | 0.33 |
| Total SSI and OASDI | 7,622 | 7,616 | 7,628 | -12 | 0.87 |
| Household had multiple SSI-eligible children | 14.3 | 13.9 | 14.6 | -0.7 | 0.58 |
| Enrolling parent provided a valid SSN at RA | 61.3 | 60.3 | 62.4 | -2.1 | 0.23 |
| Parents included in the administrative data | | | | | 0.47 |
| None | 15.1 | 15.3 | 14.9 | 0.4 | |
| One parent | 50.4 | 51.3 | 49.6 | 1.7 | |
| Two parents | 34.5 | 33.4 | 35.5 | -2.1 | |
| Parent SSA payment status at RA | | | | | 0.66 |
| Any parent received SSI only | 6.7 | 6.5 | 6.8 | -0.4 | |
| Any parent received OASDI only | 5.8 | 6.1 | 5.6 | 0.5 | |
| Any parent received both SSI and OASDI | 2.9 | 3.3 | 2.5 | 0.8 | |
| No parent received any SSA payments | 69.5 | 68.9 | 70.2 | -1.3 | |
| No parent was included in the SSA data analyses | 15.1 | 15.3 | 14.9 | 0.4 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 2.5 | 2.8 | 2.1 | 0.6 | 0.24 |
| Youth earnings in the calendar year before RA (\$) | 41 | 48 | 34 | 14 | 0.60 |
| Parent had earnings in the calendar year before RA | 74.4 | 73.2 | 75.7 | -2.6 | 0.13 |
| Parent earnings in the calendar year before RA (\$) | 19,442 | 18,995 | 19,887 | -892 | 0.25 |
| Number of youth | 3,097 | 1,548 | 1,549 | | |

Note: The sample includes all youth who enrolled in PROMISE. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

Appendix Table E.4. CaPROMISE: Baseline characteristics of proxy youth survey respondents (percentages, unless otherwise noted)

| | All | Treatment | Control | Difference | |
|--|------|-----------|---------|------------|-----------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | <i>p</i> -value |
| Demographic characteristics | | | | | |
| Youth is female | 33.6 | 31.4 | 35.8 | -4.4 | 0.26 |
| Youth age at RA | | | | | 0.41 |
| 14 | 38.0 | 40.5 | 35.5 | 5.0 | |
| 15 | 29.4 | 29.1 | 29.7 | -0.6 | |
| 16 | 32.5 | 30.4 | 34.7 | -4.4 | |
| Average age at RA | 15.4 | 15.3 | 15.4 | -0.1 | 0.15 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 61.1 | 61.5 | 60.7 | 0.8 | 0.85 |
| Prefers English for spoken language | 60.8 | 60.6 | 61.1 | -0.5 | 0.91 |
| Youth living arrangement at SSI application | | | | | 0.50 |
| In parents' household | 76.0 | 74.5 | 77.4 | -2.9 | |
| Own household or alone | 21.1 | 22.9 | 19.2 | 3.7 | |
| Another household and receiving support | 3.0 | 2.6 | 3.3 | -0.7 | |
| Youth race and ethnicity | | | | | 0.99 |
| Non-Hispanic White | 4.3 | 4.4 | 4.2 | 0.2 | |
| Non-Hispanic Black | 11.1 | 10.8 | 11.5 | -0.7 | |
| Hispanic | 56.9 | 57.8 | 56.0 | 1.8 | |
| Non-Hispanic American Indian | 0.4 | 0.3 | 0.4 | -0.0 | |
| Non-Hispanic other or mixed race | 6.4 | 5.8 | 6.9 | -1.1 | |
| Missing | 21.0 | 20.9 | 21.1 | -0.2 | |
| Enrolling parent age at RA | 44.7 | 44.3 | 45.1 | -0.8 | 0.24 |
| Parent race and ethnicity | | | | | 0.61 |
| Non-Hispanic White | 6.2 | 6.0 | 6.5 | -0.4 | |
| Non-Hispanic Black | 12.7 | 12.1 | 13.4 | -1.3 | |
| Hispanic | 55.8 | 57.9 | 53.7 | 4.2 | |
| Non-Hispanic American Indian | 0.3 | 0.6 | 0.0 | 0.6 | |
| Non-Hispanic other or mixed race | 7.2 | 6.0 | 8.3 | -2.3 | |
| Missing | 17.7 | 17.3 | 18.1 | -0.8 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.88 |
| Intellectual or developmental disability | 48.7 | 49.0 | 48.3 | 0.7 | |
| Speech, hearing, or visual impairment | 5.2 | 4.3 | 6.2 | -1.9 | |
| Physical disability | 21.4 | 21.1 | 21.7 | -0.5 | |
| Other mental impairment | 17.6 | 18.4 | 16.9 | 1.5 | |
| Other or unknown disability | 7.1 | 7.2 | 7.0 | 0.3 | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 95.8 | 96.1 | 95.5 | 0.6 | 0.72 |
| Received OASDI | 7.5 | 9.4 | 5.5 | 3.8* | 0.08 |
| Years between youth's earliest SSI eligibility and RA | 9.8 | 9.4 | 10.2 | -0.8** | 0.02 |
| Youth age at most recent SSI application | 6.2 | 6.5 | 5.9 | 0.6* | 0.09 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,401 | 7,337 | 7,465 | -128 | 0.46 |
| OASDI | 246 | 331 | 160 | 171** | 0.04 |
| Total SSI and OASDI | 7,647 | 7,669 | 7,625 | 43 | 0.79 |
| Household had multiple SSI-eligible children | 12.6 | 14.1 | 11.1 | 3.0 | 0.27 |
| Enrolling parent provided a valid SSN at RA | 60.9 | 59.4 | 62.4 | -3.0 | 0.46 |
| Parents included in the administrative data | | | | | 0.47 |
| None | 12.5 | 14.1 | 10.9 | 3.3 | |
| One parent | 49.2 | 48.9 | 49.5 | -0.6 | |
| Two parents | 38.3 | 36.9 | 39.6 | -2.7 | |
| Parent SSA payment status at RA | | | | | 0.54 |
| Any parent received SSI only | 5.7 | 5.2 | 6.3 | -1.1 | |
| Any parent received OASDI only | 6.9 | 7.3 | 6.5 | 0.8 | |
| Any parent received both SSI and OASDI | 3.0 | 3.7 | 2.3 | 1.5 | |
| No parent received any SSA payments | 71.9 | 69.7 | 74.1 | -4.4 | |
| No parent was included in the SSA data analyses | 12.5 | 14.1 | 10.9 | 3.3 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 2.0 | 2.7 | 1.3 | 1.4 | 0.23 |
| Youth earnings in the calendar year before RA (\$) | 64 | 124 | 3 | 122 | 0.19 |
| Parent had earnings in the calendar year before RA | 77.0 | 75.2 | 78.7 | -3.5 | 0.36 |
| Parent earnings in the calendar year before RA (\$) | 20,572 | 19,890 | 21,230 | -1,341 | 0.45 |
| Number of youth | 596 | 299 | 297 | | |

Note: The sample includes all youth who completed the PROMISE five-year youth survey by proxy. We weighted the statistics to adjust for survey nonresponse and sample design. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a chi-square test.

2. Differences between survey respondents and nonrespondents

We compared youth and parent survey respondents with nonrespondents across 25 baseline characteristics to assess the extent to which survey nonresponse might limit generalizability of the impact findings to all evaluation enrollees (Appendix Tables E.5 and E.6). Youth survey respondents differed from nonrespondents with respect to youth's written and spoken language preferences and the share of households with multiple SSI-eligible children. Parent survey respondents different from nonrespondents with respect to the same characteristics. Overall, even when the differences were statistically significant, they generally were small. The extent and magnitude of the differences suggested that the respondents were not markedly different from the nonrespondents. To account for survey nonresponse, we calculated and used survey weights in all regression models to estimate impacts on the survey-based outcome measures.

Appendix Table E.5. CaPROMISE: Baseline characteristics of youth survey respondents and nonrespondents (percentages, unless otherwise noted)

| | All | | Nonrespondents | | p - |
|--|------|------|----------------|-------------|------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | value |
| Demographic characteristics | | | | | |
| Youth is female | 32.6 | 33.8 | 31.4 | 2.3 | 0.17 |
| Youth age at RA | | | | | 0.26 |
| 14 | 34.6 | 35.4 | 33.7 | 1.7 | |
| 15 | 30.7 | 31.2 | 30.1 | 1.1 | |
| 16 | 34.7 | 33.4 | 36.2 | -2.8 | |
| Average age at RA | 15.4 | 15.4 | 15.5 | -0.0 | 0.21 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 64.6 | 62.6 | 66.8 | -4.3** | 0.01 |
| Prefers English for spoken language | 64.7 | 62.6 | 67.0 | -4.4** | 0.01 |
| Youth living arrangement at SSI application | | | | | 0.93 |
| In parents' household | 76.0 | 75.8 | 76.2 | -0.4 | |
| Own household or alone | 21.5 | 21.6 | 21.4 | 0.2 | |
| Another household and receiving support | 2.5 | 2.6 | 2.4 | 0.2 | |
| Youth race and ethnicity | | | | <u>†††</u> | 0.00 |
| Non-Hispanic White | 3.5 | 5.4 | 1.4 | 4.0 | |
| Non-Hispanic Black | 9.3 | 14.1 | 4.1 | 10.1 | |
| Hispanic | 34.7 | 57.9 | 9.7 | 48.2 | |
| Non-Hispanic American Indian | 0.4 | 0.4 | 0.3 | 0.1 | |
| Non-Hispanic other or mixed race | 4.0 | 6.5 | 1.3 | 5.3 | |
| Missing | 48.1 | 15.6 | 83.2 | -67.6 | |
| Enrolling parent age at RA | 44.1 | 44.2 | 43.9 | 0.2 | 0.43 |
| Parent race and ethnicity | | | | <u>+</u> ++ | 0.00 |
| Non-Hispanic White | 4.6 | 7.5 | 1.5 | 6.1 | |
| Non-Hispanic Black | 10.3 | 15.9 | 4.4 | 11.5 | |
| Hispanic | 34.4 | 56.9 | 10.1 | 46.8 | |
| Non-Hispanic American Indian | 0.2 | 0.3 | 0.1 | 0.2 | |
| Non-Hispanic other or mixed race | 3.7 | 6.0 | 1.2 | 4.8 | |
| Missing | 46.8 | 13.4 | 82.8 | -69.4 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.39 |
| Intellectual or developmental disability | 47.8 | 48.5 | 46.9 | 1.6 | |
| Speech, hearing, or visual impairment | 2.8 | 3.1 | 2.6 | 0.4 | |
| Physical disability | 18.9 | 19.3 | 18.4 | 0.8 | |
| Other mental impairment | 23.7 | 22.2 | 25.2 | -3.0 | |
| Other or unknown disability | 6.9 | 6.9 | 6.8 | 0.1 | |

| Baseline characteristic | All (A) | Respondents (B) | Nonrespondents (C) | Difference (B – C) | <i>p-</i> value |
|---|------------|--------------------|-----------------------|-----------------------|--------------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 93.7 | 94.3 | 93.0 | 1.2 | 0.16 |
| Received OASDI | 7.0 | 6.9 | 7.0 | -0.1 | 0.89 |
| Years between youth's earliest SSI eligibility and RA | 9.0 | 9.1 | 9.0 | 0.0 | 0.78 |
| Youth age at most recent SSI application | 6.9 | 6.8 | 6.9 | -0.1 | 0.42 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,404 | 7,381 | 7,428 | -47 | 0.55 |
| OASDI | 218 | 219 | 217 | 2 | 0.96 |
| Total SSI and OASDI | 7,622 | 7,600 | 7,645 | -45 | 0.52 |
| Household had multiple SSI-eligible children | 14.3 | 13.2 | 15.4 | -2.3* | 0.07 |
| Enrolling parent provided a valid SSN at RA | 61.3 | 61.1 | 61.5 | -0.4 | 0.82 |
| Parents included in the administrative data | | | | | 0.23 |
| None | 15.1 | 15.4 | 14.8 | 0.6 | |
| One parent | 50.4 | 49.0 | 52.0 | -3.0 | |
| Two parents | 34.5 | 35.6 | 33.2 | 2.5 | |
| Parent SSA payment status at RA | | | | | 0.40 |
| Any parent received SSI only | 6.7 | 6.0 | 7.4 | -1.4 | |
| Any parent received OASDI only | 5.8 | 6.2 | 5.4 | 0.9 | |
| Any parent received both SSI and OASDI | 2.9 | 2.7 | 3.2 | -0.5 | |
| No parent received any SSA payments | 69.5 | 69.7 | 69.3 | 0.4 | |
| No parent was included in the SSA data analyses | 15.1 | 15.4 | 14.8 | 0.6 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 2.5 | 2.6 | 2.3 | 0.3 | 0.54 |
| Youth earnings in the calendar year before RA (\$) | 41 | 43 | 38 | 5 | 0.85 |
| Parent had earnings in the calendar year before RA | 74.4 | 75.5 | 73.3 | 2.2 | 0.21 |
| Parent earnings in the calendar year before RA (\$) | 19,442 | 19,448 | 19,436 | 11 | 0.99 |
| | | | | | |

Note: The sample includes all youth who enrolled in PROMISE. Nonrespondents include youth ineligible for the survey because they died or withdrew from the study or were not sampled for the survey. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

Appendix Table E.6. CaPROMISE: Baseline characteristics of parent survey respondents and nonrespondents (percentages, unless otherwise noted)

| | All | Respondents | | Difference | p- |
|--|------|-------------|------|-------------|-------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | value |
| Demographic characteristics | | | | | |
| Youth is female | 32.6 | 33.3 | 32.0 | 1.3 | 0.44 |
| Youth age at RA | | | | † | 0.10 |
| 14 | 34.6 | 35.6 | 33.4 | 2.2 | |
| 15 | 30.7 | 31.4 | 29.9 | 1.5 | |
| 16 | 34.7 | 33.0 | 36.7 | -3.7 | |
| Average age at RA | 15.4 | 15.4 | 15.5 | -0.1 | 0.10 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 64.6 | 62.2 | 67.2 | -5.0*** | 0.00 |
| Prefers English for spoken language | 64.7 | 62.2 | 67.4 | -5.2*** | 0.00 |
| Youth living arrangement at SSI application | | | | | 0.52 |
| In parents' household | 76.0 | 75.5 | 76.6 | -1.2 | |
| Own household or alone | 21.5 | 21.7 | 21.2 | 0.6 | |
| Another household and receiving support | 2.5 | 2.8 | 2.2 | 0.6 | |
| Youth race and ethnicity | | | | <u>+</u> ++ | 0.00 |
| Non-Hispanic White | 3.5 | 5.3 | 1.5 | 3.8 | |
| Non-Hispanic Black | 9.3 | 14.6 | 3.6 | 11.0 | |
| Hispanic | 34.7 | 58.6 | 9.0 | 49.6 | |
| Non-Hispanic American Indian | 0.4 | 0.4 | 0.3 | 0.1 | |
| Non-Hispanic other or mixed race | 4.0 | 6.4 | 1.5 | 4.9 | |
| Missing | 48.1 | 14.8 | 84.0 | -69.3 | |
| Enrolling parent age at RA | 44.1 | 44.2 | 43.9 | 0.3 | 0.26 |
| Parent race and ethnicity | | | | <u>+</u> ++ | 0.00 |
| Non-Hispanic White | 4.6 | 7.2 | 1.8 | 5.4 | |
| Non-Hispanic Black | 10.3 | 16.4 | 3.8 | 12.6 | |
| Hispanic | 34.4 | 57.8 | 9.2 | 48.6 | |
| Non-Hispanic American Indian | 0.2 | 0.3 | 0.1 | 0.2 | |
| Non-Hispanic other or mixed race | 3.7 | 5.8 | 1.4 | 4.4 | |
| Missing | 46.8 | 12.5 | 83.7 | -71.2 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.96 |
| Intellectual or developmental disability | 47.8 | 47.8 | 47.7 | 0.1 | |
| Speech, hearing, or visual impairment | 2.8 | 2.9 | 2.7 | 0.2 | |
| Physical disability | 18.9 | 18.9 | 18.8 | 0.2 | |
| Other mental impairment | 23.7 | 23.2 | 24.1 | -0.9 | |
| | 1 | | | | |

| Baseline characteristic | All (A) | Respondents (B) | Nonrespondents (C) | Difference (B – C) | <i>p-</i> value |
|---|------------|--------------------|-----------------------|-----------------------|--------------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 93.7 | 94.3 | 93.0 | 1.2 | 0.16 |
| Received OASDI | 7.0 | 6.7 | 7.2 | -0.5 | 0.58 |
| Years between youth's earliest SSI eligibility and RA | 9.0 | 9.1 | 9.0 | 0.0 | 0.93 |
| Youth age at most recent SSI application | 6.9 | 6.8 | 6.9 | -0.1 | 0.55 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,404 | 7,381 | 7,429 | -47 | 0.54 |
| OASDI | 218 | 214 | 222 | -8 | 0.82 |
| Total SSI and OASDI | 7,622 | 7,595 | 7,650 | -55 | 0.43 |
| Household had multiple SSI-eligible children | 14.3 | 13.2 | 15.4 | -2.1* | 0.09 |
| Enrolling parent provided a valid SSN at RA | 61.3 | 61.5 | 61.1 | 0.4 | 0.83 |
| Parents included in the administrative data | | | | | 0.44 |
| None | 15.1 | 15.3 | 14.9 | 0.4 | |
| One parent | 50.4 | 49.3 | 51.6 | -2.3 | |
| Two parents | 34.5 | 35.3 | 33.5 | 1.8 | |
| Parent SSA payment status at RA | | | | | 0.48 |
| Any parent received SSI only | 6.7 | 6.1 | 7.2 | -1.1 | |
| Any parent received OASDI only | 5.8 | 6.3 | 5.3 | 1.0 | |
| Any parent received both SSI and OASDI | 2.9 | 2.7 | 3.2 | -0.5 | |
| No parent received any SSA payments | 69.5 | 69.6 | 69.4 | 0.2 | |
| No parent was included in the SSA data analyses | 15.1 | 15.3 | 14.9 | 0.4 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 2.5 | 2.4 | 2.5 | -0.2 | 0.75 |
| Youth earnings in the calendar year before RA (\$) | 41 | 43 | 39 | 4 | 0.88 |
| Parent had earnings in the calendar year before RA | 74.4 | 75.7 | 73.1 | 2.6 | 0.12 |
| Parent earnings in the calendar year before RA (\$) | 19,442 | 19,374 | 19,515 | -140 | 0.86 |
| Number of youth | 3,097 | 1,605 | 1,492 | | |

Note: The sample includes the parents who were eligible for the survey. Nonrespondents include parents ineligible for the survey because they died or withdrew from the study or were not sampled for the survey. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

3. Differences between self-reporting and proxy youth respondents

We compared the baseline characteristics of youth who self-responded to the survey to those who responded via proxies to assess whether systematically missing data from different survey modes might affect the estimated impacts on survey-based outcomes (Appendix Table E.7). We found differences in 8 of 25 baseline characteristics by survey response type. Compared with self-respondents, youth who responded by proxy were less likely to prefer English as a spoken or written language and more likely to have received SSI at RA; they were younger at RA and at the time of their most recent SSI application, had older enrolling parents, more years between earliest SSI eligibility and RA, and higher average parent earnings in the year before RA. Because of these differences, findings on survey-based outcomes that are available only for self-respondents might not generalize to all survey respondents.

Appendix Table E.7. CaPROMISE: Baseline characteristics of proxy and self-reporting youth survey respondents (percentages, unless otherwise noted)

| Baseline characteristic | All (A) | Proxy respondent (B) | Self- reporting respondent (C) | Difference (B – C) | <i>p</i> -value |
|--|------------|----------------------------|---|-----------------------|-----------------|
| Demographic characteristics | | | | | |
| Youth is female | 33.0 | 33.6 | 32.7 | 1.0 | 0.69 |
| Youth age at RA | | | | | 0.14 |
| 14 | 34.9 | 38.0 | 33.1 | 5.0 | |
| 15 | 31.1 | 29.4 | 32.1 | -2.6 | |
| 16 | 34.0 | 32.5 | 34.9 | -2.3 | |
| Average age at RA | 15.4 | 15.4 | 15.5 | -0.1** | 0.04 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 64.5 | 61.1 | 66.5 | -5.4** | 0.03 |
| Prefers English for spoken language | 64.5 | 60.8 | 66.7 | -5.9** | 0.02 |
| Youth living arrangement at SSI application | | | | | 0.78 |
| In parents' household | 76.5 | 76.0 | 76.8 | -0.8 | |
| Own household or alone | 20.9 | 21.1 | 20.9 | 0.2 | |
| Another household and receiving support | 2.6 | 3.0 | 2.4 | 0.6 | |
| Youth race and ethnicity | | | | †† | 0.04 |
| Non-Hispanic White | 5.4 | 4.3 | 6.0 | -1.7 | |
| Non-Hispanic Black | 14.5 | 11.1 | 16.4 | -5.3 | |
| Hispanic | 54.1 | 56.9 | 52.5 | 4.3 | |
| Non-Hispanic American Indian | 0.5 | 0.4 | 0.5 | -0.2 | |
| Non-Hispanic other or mixed race | 6.5 | 6.4 | 6.6 | -0.2 | |
| Missing | 19.1 | 21.0 | 18.0 | 3.0 | |
| Enrolling parent age at RA | 44.1 | 44.7 | 43.8 | 0.9** | 0.04 |
| Parent race and ethnicity | | | | <u>††</u> | 0.02 |
| Non-Hispanic White | 7.6 | 6.2 | 8.4 | -2.2 | |
| Non-Hispanic Black | 16.3 | 12.7 | 18.5 | -5.7 | |
| Hispanic | 53.6 | 55.8 | 52.2 | 3.6 | |
| Non-Hispanic American Indian | 0.3 | 0.3 | 0.3 | -0.0 | |
| Non-Hispanic other or mixed race | 6.0 | 7.2 | 5.3 | 1.9 | |
| Missing | 16.2 | 17.7 | 15.3 | 2.4 | |
| Disability | | | | | |
| Youth primary impairment | | | | ††† | 0.00 |
| Intellectual or developmental disability | 48.5 | 48.7 | 48.4 | 0.3 | |
| Speech, hearing, or visual impairment | 3.0 | 5.2 | 1.7 | 3.6 | |
| Physical disability | 18.8 | 21.4 | 17.3 | 4.1 | |
| Other mental impairment | 22.7 | 17.6 | 25.7 | -8.1 | |
| Other or unknown disability | 7.0 | 7.1 | 6.9 | 0.2 | |

| Baseline characteristic | All (A) | Proxy respondent (B) | Self- reporting respondent (C) | Difference (B – C) | <i>p</i> -value |
|---|------------|----------------------------|---|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 94.1 | 95.8 | 93.1 | 2.7** | 0.02 |
| Received OASDI | 6.9 | 7.5 | 6.6 | 0.8 | 0.53 |
| Years between youth's earliest SSI eligibility and RA | 9.0 | 9.8 | 8.6 | 1.2*** | 0.00 |
| Youth age at most recent SSI application | 6.8 | 6.2 | 7.2 | -1.0*** | 0.00 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,384 | 7,401 | 7,375 | 26 | 0.81 |
| OASDI | 221 | 246 | 207 | 39 | 0.44 |
| Total SSI and OASDI | 7,606 | 7,647 | 7,582 | 65 | 0.52 |
| Household had multiple SSI-eligible children | 13.6 | 12.6 | 14.2 | -1.6 | 0.37 |
| Enrolling parent provided a valid SSN at RA | 61.6 | 60.9 | 62.0 | -1.2 | 0.65 |
| Parents included in the administrative data | | | | <u>††</u> | 0.03 |
| None | 14.7 | 12.5 | 16.0 | -3.5 | |
| One parent | 50.7 | 49.2 | 51.6 | -2.3 | |
| Two parents | 34.6 | 38.3 | 32.4 | 5.9 | |
| Parent SSA payment status at RA | | | | | 0.26 |
| Any parent received SSI only | 6.3 | 5.7 | 6.6 | -0.9 | |
| Any parent received OASDI only | 6.2 | 6.9 | 5.7 | 1.2 | |
| Any parent received both SSI and OASDI | 2.6 | 3.0 | 2.4 | 0.6 | |
| No parent received any SSA payments | 70.3 | 71.9 | 69.3 | 2.6 | |
| No parent was included in the SSA data analyses | 14.7 | 12.5 | 16.0 | -3.5 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 2.7 | 2.0 | 3.1 | -1.1 | 0.19 |
| Youth earnings in the calendar year before RA (\$) | 40 | 64 | 27 | 37 | 0.43 |
| Parent had earnings in the calendar year before RA | 75.2 | 77.0 | 74.0 | 3.0 | 0.22 |
| Parent earnings in the calendar year before RA (\$) | 19,205 | 20,572 | 18,371 | 2,201** | 0.05 |
| Number of youth | 1,605 | 596 | 1,009 | | |

Note: The sample includes all PROMISE five-year youth survey respondents. We weighted the statistics to adjust for survey nonresponse and sample design. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a chi-square test.

B. Findings from the impact analysis

In this section, we present findings from the impact analysis of CaPROMISE. First, we present impacts estimated through the main models. Second, we present the results of sensitivity analyses. Third, we present impacts for key subgroups of evaluation enrollees.

1. Impact estimates

Appendix Tables E.8–E.17 provide results and inference statistics for the regression-adjusted impacts estimated through the main models described in Appendix B. For each outcome measure, we report the estimated regression-adjusted impact; the control group mean (weighted, as applicable); and additional inference statistics, such as standard errors, effect sizes, and sample sizes by treatment status.

Appendix Table E.8. CaPROMISE: Impact on the youth's education and training (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group sample size | Control group sample size |
|--|-----------------|--------|-----------------|-------------------|-------------|--------------------------------------|------------------------------------|
| Primary outcomes | mean | impact | | | | 3120 | 3120 |
| Enrolled in an educational or training program | 58.1 | 2.4 | 0.34 | 2.5 | 0.059 | 798 | 769 |
| Has a GED, high school diploma, or certificate of completion | 80.6 | -1.6 | 0.44 | 2.1 | -0.059 | 805 | 788 |
| Supplementary outcomes | | | | | | | |
| Enrolled in postsecondary education | 25.9 | -0.3 | 0.89 | 2.2 | -0.010 | 793 | 776 |
| Type of school attending | | | | | | | |
| High school serving a variety of students | 6.2 | 1.4 | 0.28 | 1.3 | 0.135 | 793 | 776 |
| High school serving only students with disabilities | 11.3 | 0.2 | 0.89 | 1.6 | 0.013 | 793 | 776 |
| GED program or other adult education program | 4.1 | 0.9 | 0.40 | 1.1 | 0.124 | 793 | 776 |
| Postsecondary vocational, trade, or technical school | 4.6 | -0.2 | 0.88 | 1.0 | -0.022 | 793 | 776 |
| Postsecondary college or advanced degree program | 21.3 | -0.2 | 0.94 | 2.1 | -0.006 | 793 | 776 |
| Other type of school | 4.2 | 1.1 | 0.31 | 1.1 | 0.148 | 793 | 776 |
| Not attending school | 48.3 | -3.3 | 0.18 | 2.5 | -0.081 | 793 | 776 |
| Highest grade completed | | | | | | | |
| Lower than 12th grade | 12.6 | 1.7 | 0.32 | 1.8 | 0.091 | 810 | 795 |
| 12th grade or senior in high school | 70.9 | -2.8 | 0.23 | 2.4 | -0.081 | 810 | 795 |
| Some or all of college or university | 14.0 | 0.1 | 0.94 | 1.8 | 0.007 | 810 | 795 |
| Other or do not know | 2.6 | 0.9 | 0.28 | 0.9 | 0.194 | 810 | 795 |
| Enrolled in a training program | 12.1 | 1.4 | 0.40 | 1.7 | 0.078 | 780 | 752 |
| Received any training credential in the past year | 8.5 | 0.9 | 0.55 | 1.4 | 0.065 | 796 | 785 |
| Any school suspensions or expulsions in the past year | 0.8 | 0.7 | 0.19 | 0.6 | 0.387 | 782 | 753 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group sample size | Control group sample size |
|--|-----------------|--------|-----------------|-------------------|-------------|--------------------------------------|------------------------------------|
| Accommodations | | | | | | | |
| Receives educational accommodation | 35.7 | 3.3 | 0.17 | 2.4 | 0.086 | 791 | 771 |
| Receives training accommodation | 7.3 | 1.0 | 0.45 | 1.3 | 0.086 | 778 | 750 |
| Received supports or services for postsecondary education in the past year | 30.6 | 3.6 | 0.13 | 2.4 | 0.099 | 801 | 785 |

Source: PROMISE five-year surveys.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of CaPROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse and sample design.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

GED = General Educational Development.

Appendix Table E.9. CaPROMISE: Impact on the youth's employment and earnings (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|--------------|---------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Employed in a paid job in the past year ^a | 33.3 | 2.7 | 0.26 | 2.4 | 0.071 | 810 | 795 |
| Earnings in the past year (\$) | 3,648 | 403 | 0.36 | 445 | 0.047 | 810 | 795 |
| Earnings during the five calendar years after RA (\$) | 9,902 | 941 | 0.15 | 660 | 0.049 | 1,548 | 1,549 |
| Supplementary outcomes | 1 | | | | | | |
| Employment in the past year | | | | | | | |
| Any employment | 35.6 | 3.6 | 0.14 | 2.4 | 0.092 | 810 | 795 |
| Weekly hours worked | 5.2 | 0.5 | 0.41 | 0.6 | 0.043 | 810 | 795 |
| Employed in a paid job offering fringe benefits | 20.3 | 0.1 | 0.98 | 2.1 | 0.002 | 810 | 795 |
| Employment settings | | | | | | | |
| Integrated | 27.4 | 2.3 | 0.32 | 2.3 | 0.067 | 810 | 795 |
| Outside of school-sponsored activities | 28.1 | 0.6 | 0.80 | 2.3 | 0.017 | 810 | 795 |
| With coaching | 7.7 | 2.4 | 0.11 | 1.5 | 0.176 | 810 | 795 |
| Received supports or services in getting or keeping a job | 15.6 | 6.8*** | 0.00 | 2.0 | 0.270 | 808 | 788 |
| Employment at the time of the survey | | | | | | | |
| Any paid employment | 19.1 | 3.1 | 0.13 | 2.1 | 0.116 | 810 | 795 |
| Average weekly earnings (\$) | 69 | 11 | 0.23 | 10 | 0.062 | 810 | 795 |
| Weekly hours worked | 5.0 | 0.9 | 0.19 | 0.7 | 0.069 | 810 | 795 |
| Labor force participation | 38.8 | 3.1 | 0.22 | 2.5 | 0.077 | 810 | 795 |
| Employment and earnings in calendar years after RA | | | | | | | |
| Ever employed in Year 1 | 13.2 | 20.0*** | 0.00 | 1.4 | 0.717 | 1,548 | 1,549 |
| Ever employed in Year 2 | 23.5 | 24.4*** | 0.00 | 1.6 | 0.664 | 1,548 | 1,549 |
| Ever employed in Year 3 | 34.7 | 16.5*** | 0.00 | 1.7 | 0.411 | 1,548 | 1,549 |
| Ever employed in Year 4 | 44.3 | 6.3*** | 0.00 | 1.8 | 0.152 | 1,548 | 1,549 |
| Ever employed in Year 5 | 45.4 | 2.0 | 0.25 | 1.8 | 0.049 | 1,548 | 1,549 |
| Ever employed during Years 1-5 | 60.0 | 21.1*** | 0.00 | 1.5 | 0.639 | 1,548 | 1,549 |
| Earnings in Year 1 (\$) | 167 | 136*** | 0.00 | 25 | 0.187 | 1,548 | 1,549 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|---------|-----------------|-------------------|-------------|----------------------|--------------------|
| Earnings in Year 2 (\$) | 567 | 204*** | 0.00 | 65 | 0.109 | 1,548 | 1,549 |
| Earnings in Year 3 (\$) | 1,697 | 104 | 0.49 | 149 | 0.024 | 1,548 | 1,549 |
| Earnings in Year 4 (\$) | 3,164 | 105 | 0.65 | 235 | 0.016 | 1,548 | 1,549 |
| Earnings in Year 5 (\$) | 4,306 | 392 | 0.20 | 309 | 0.045 | 1,548 | 1,549 |
| VR services during the 5 years after RA ^a | | | | | | | |
| Applied for VR services | 13.1 | 57.0*** | 0.00 | 1.4 | 1.663 | 1,548 | 1,549 |
| Received VR services | 11.0 | 58.0*** | 0.00 | 1.4 | 1.754 | 1,548 | 1,549 |

Source: PROMISE five-year survey, RSA-911 data (VR service outcomes), and SSA administrative records (employment and earnings in years after RA).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of CaPROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse and sample design.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

^a RSA-911 data are available only through 2020. VR services outcomes used only four years of data for youth who enrolled in PROMISE in 2016.

N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration; VR = vocational rehabilitation.

Appendix Table E.10. CaPROMISE: Impact on the youth's self-determination and expectations (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Self-determination score (scale: 0 to 100) ^a | 77.9 | -1.2 | 0.21 | 0.9 | -0.081 | 497 | 470 |
| Youth expects to be financially independent at age 25 | 56.9 | 2.4 | 0.46 | 3.2 | 0.059 | 500 | 483 |
| Supplementary outcomes | | | | | | | |
| Scores on subdomains of self-determination ^a | | | | | | | |
| Autonomy (scale: 0 to 300) | 135.5 | -4.6 | 0.23 | 3.9 | -0.078 | 498 | 470 |
| Psychological empowerment (scale: 0 to 100) | 87.3 | -1.1 | 0.39 | 1.2 | -0.055 | 495 | 471 |
| Self-realization (scale: 0 to 100) | 90.4 | -0.9 | 0.42 | 1.1 | -0.052 | 496 | 470 |
| Agentic action (scale: 0 to 100) | 88.4 | -0.9 | 0.52 | 1.5 | -0.042 | 496 | 470 |
| Youth expects to: | | | | | | | |
| Get postsecondary education (beyond high school/GED) | 74.0 | -3.6 | 0.23 | 3.0 | -0.110 | 490 | 476 |
| Live independently at age 25 | 54.1 | -3.8 | 0.24 | 3.3 | -0.093 | 486 | 477 |
| Be employed in a paid job at age 25 | 86.6 | 1.5 | 0.49 | 2.2 | 0.083 | 503 | 492 |
| Parent expects youth to: | | | | | | | |
| Get postsecondary education (beyond high school/GED) | 53.2 | 4.2 | 0.11 | 2.6 | 0.103 | 749 | 734 |
| Live independently at age 25 | 27.7 | -3.4 | 0.13 | 2.2 | -0.108 | 759 | 741 |
| Be financially independent at age 25 | 41.5 | 0.5 | 0.83 | 2.5 | 0.013 | 779 | 756 |
| Be employed in a paid job at age 25 | 75.8 | 2.0 | 0.36 | 2.1 | 0.067 | 772 | 765 |
| Parent believes it important that youth be employed eventually | 89.4 | -0.1 | 0.93 | 1.5 | -0.008 | 764 | 736 |

Source: PROMISE five-year survey.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of CaPROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse and sample design.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

^a Higher scores on the scales indicate higher levels of self-determination.

GED = General Educational Development; N = sample size.

Appendix Table E.11. CaPROMISE: Impact on the youth's SSA payments and knowledge (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Received SSA payments in Year 5 after RA | 65.2 | 1.5 | 0.35 | 1.6 | 0.041 | 1,548 | 1,549 |
| Total SSA payments in Year 5 after RA (\$) | 6,196 | 257 | 0.14 | 174 | 0.051 | 1,548 | 1,549 |
| Total SSA payments during Years 1–5 after RA (\$) | 37,122 | 695 | 0.19 | 528 | 0.042 | 1,548 | 1,549 |
| Supplementary outcomes | | | | | | | |
| Aware of the following SSA policies | | | | | | | |
| Children receiving SSI are not automatically eligible for SSI as adults | 39.1 | 2.9 | 0.37 | 3.2 | 0.073 | 497 | 470 |
| People receiving SSI can work for pay | 69.1 | -0.1 | 0.98 | 3.1 | -0.002 | 497 | 470 |
| People receiving SSI must report earnings to SSA | 78.1 | 0.5 | 0.86 | 2.7 | 0.017 | 497 | 470 |
| Aware of the following work supports | | | | | | | |
| SSI Student Earned Income Exclusion | 6.5 | 3.2* | 0.06 | 1.7 | 0.263 | 497 | 470 |
| SSI earned income exclusion | 4.8 | 2.0 | 0.17 | 1.4 | 0.222 | 497 | 470 |
| SSI PASS plan | 7.1 | 0.5 | 0.75 | 1.7 | 0.048 | 497 | 470 |
| ABLE account | 6.3 | 0.8 | 0.61 | 1.6 | 0.079 | 496 | 470 |
| SSA payments in years after RA | | | | | | | |
| Received any in Year 1 | 97.2 | -0.5 | 0.30 | 0.4 | -0.093 | 1,548 | 1,549 |
| Received any in Year 2 | 91.5 | -0.7 | 0.42 | 0.9 | -0.056 | 1,548 | 1,549 |
| Received any in Year 3 | 84.1 | 0.4 | 0.75 | 1.2 | 0.018 | 1,548 | 1,549 |
| Received any in Year 4 | 72.8 | 2.4 | 0.11 | 1.5 | 0.076 | 1,548 | 1,549 |
| Received any in Years 1–5 | 98.0 | -0.4 | 0.37 | 0.4 | -0.109 | 1,548 | 1,549 |
| Amount in Year 1 (\$) | 8,820 | -42 | 0.57 | 74 | -0.015 | 1,548 | 1,549 |
| Amount in Year 2 (\$) | 8,113 | 55 | 0.61 | 108 | 0.016 | 1,548 | 1,549 |
| Amount in Year 3 (\$) | 7,359 | 152 | 0.27 | 139 | 0.037 | 1,548 | 1,549 |
| Amount in Year 4 (\$) | 6,635 | 273* | 0.09 | 163 | 0.058 | 1,548 | 1,549 |

| | Control | | | Standard | | Treatment | Control |
|------------------------------------|---------|--------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p</i> -value | error | Effect size | group N | group N |
| SSI payments in years after RA | | | | | | | |
| Received any in Year 1 | 96.7 | -0.6 | 0.15 | 0.4 | -0.110 | 1,548 | 1,549 |
| Received any in Year 2 | 90.6 | -0.9 | 0.35 | 1.0 | -0.061 | 1,548 | 1,549 |
| Received any in Year 3 | 82.6 | 1.0 | 0.42 | 1.3 | 0.044 | 1,548 | 1,549 |
| Received any in Year 4 | 71.7 | 2.5* | 0.10 | 1.5 | 0.077 | 1,548 | 1,549 |
| Received any in Year 5 | 64.1 | 2.0 | 0.21 | 1.6 | 0.054 | 1,548 | 1,549 |
| Received any in Years 1–5 | 97.7 | -0.5 | 0.25 | 0.4 | -0.125 | 1,548 | 1,549 |
| Amount in Year 1 (\$) | 8,510 | -9 | 0.90 | 71 | -0.003 | 1,548 | 1,549 |
| Amount in Year 2 (\$) | 7,800 | 69 | 0.52 | 108 | 0.019 | 1,548 | 1,549 |
| Amount in Year 3 (\$) | 7,089 | 159 | 0.25 | 139 | 0.038 | 1,548 | 1,549 |
| Amount in Year 4 (\$) | 6,350 | 323** | 0.05 | 161 | 0.068 | 1,548 | 1,549 |
| Amount in Year 5 (\$) | 5,891 | 327* | 0.06 | 171 | 0.065 | 1,548 | 1,549 |
| Total amount during Years 1–5 (\$) | 35,641 | 869* | 0.10 | 522 | 0.052 | 1,548 | 1,549 |
| OASDI benefits in years after RA | | | | | | | |
| Received any in Year 1 | 7.5 | -0.3 | 0.42 | 0.4 | -0.026 | 1,548 | 1,549 |
| Received any in Year 2 | 8.1 | -0.7 | 0.15 | 0.5 | -0.056 | 1,548 | 1,549 |
| Received any in Year 3 | 7.2 | -0.7 | 0.29 | 0.6 | -0.062 | 1,548 | 1,549 |
| Received any in Year 4 | 6.4 | -1.2* | 0.09 | 0.7 | -0.133 | 1,548 | 1,549 |
| Received any in Year 5 | 5.6 | -0.8 | 0.23 | 0.7 | -0.105 | 1,548 | 1,549 |
| Received any in Years 1–5 | 10.1 | -0.9 | 0.16 | 0.6 | -0.063 | 1,548 | 1,549 |
| Amount in Year 1 (\$) | 310 | -33 | 0.20 | 26 | -0.024 | 1,548 | 1,549 |
| Amount in Year 2 (\$) | 313 | -14 | 0.65 | 30 | -0.010 | 1,548 | 1,549 |
| Amount in Year 3 (\$) | 269 | -7 | 0.84 | 36 | -0.005 | 1,548 | 1,549 |
| Amount in Year 4 (\$) | 284 | -50 | 0.24 | 42 | -0.037 | 1,548 | 1,549 |
| Amount in Year 5 (\$) | 304 | -70 | 0.13 | 46 | -0.049 | 1,548 | 1,549 |
| Total amount during Years 1–5 (\$) | 1,481 | -174 | 0.22 | 143 | -0.029 | 1,548 | 1,549 |

| Outcome | Control mean | Impact | <i>p-</i> value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Age-18 redetermination status five years after RA | | | | | | | |
| Final decision: benefits ceased | 23.2 | -0.7 | 0.65 | 1.5 | -0.023 | 1,548 | 1,549 |
| Final decision: benefits continued | 46.9 | 1.0 | 0.54 | 1.7 | 0.025 | 1,548 | 1,549 |
| Final decision is pending | 6.6 | 0.5 | 0.59 | 0.9 | 0.046 | 1,548 | 1,549 |
| Did not have an age-18 redetermination | 23.2 | -0.9 | 0.54 | 1.4 | -0.030 | 1,548 | 1,549 |

Source: SSA administrative records and PROMISE five-year survey (awareness of work supports and SSA policies).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of CaPROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse and sample design.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

ABLE = Achieving a Better Life Experience; OASDI = Old-Age, Survivors, and Disability Insurance; PASS = Plan for Achieving Self Support; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income.

Appendix Table E.12. CaPROMISE: Impact on the youth's health insurance coverage and expenditures (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Control | | | Standard | | Treatment | Control |
|--|---------|--------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p</i> -value | error | Effect size | group N | group N |
| Primary outcomes | | | | | | | |
| Covered by any health insurance | 90.8 | 1.6 | 0.27 | 1.4 | 0.126 | 783 | 786 |
| Average monthly Medicaid and Medicare expenditures in the five years after RA (\$) | 1,630 | -6 | 0.85 | 30 | -0.004 | 1,548 | 1,549 |
| Supplementary outcomes | | | | | | | |
| Covered by private health insurance | 6.5 | 2.1 | 0.12 | 1.4 | 0.183 | 783 | 786 |
| Covered by private health insurance purchased through an ACA health exchange | 0.1 | 0.1 | 0.48 | 0.2 | 0.469 | 783 | 786 |
| Medicaid and Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 99.9 | 0.0 | 0.79 | 0.1 | 0.174 | 1,548 | 1,549 |
| Ever enrolled in Year 2 | 99.5 | 0.1 | 0.66 | 0.2 | 0.144 | 1,548 | 1,549 |
| Ever enrolled in Year 3 | 98.8 | -0.0 | 0.96 | 0.4 | -0.009 | 1,548 | 1,549 |
| Ever enrolled in Year 4 | 97.0 | 0.1 | 0.81 | 0.6 | 0.031 | 1,548 | 1,549 |
| Ever enrolled in Year 5 | 93.4 | 0.6 | 0.53 | 0.9 | 0.057 | 1,548 | 1,549 |
| Percentage of months enrolled in Years 1–5 | 95.8 | 0.3 | 0.50 | 0.4 | 0.024 | 1,548 | 1,549 |
| Average monthly Medicaid and Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 1,347 | 12 | 0.66 | 27 | 0.009 | 1,548 | 1,549 |
| Year 2 (\$) | 1,776 | -2 | 0.96 | 30 | -0.001 | 1,548 | 1,549 |
| Year 3 (\$) | 1,699 | 8 | 0.83 | 35 | 0.006 | 1,548 | 1,549 |
| Year 4 (\$) | 1,656 | -6 | 0.88 | 41 | -0.004 | 1,548 | 1,549 |
| Year 5 (\$) | 1,671 | -40 | 0.43 | 51 | -0.022 | 1,548 | 1,549 |
| Medicaid participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 99.9 | 0.0 | 0.79 | 0.1 | 0.174 | 1,548 | 1,549 |
| Ever enrolled in Year 2 | 99.5 | 0.1 | 0.66 | 0.2 | 0.144 | 1,548 | 1,549 |
| Ever enrolled in Year 3 | 98.8 | -0.0 | 0.96 | 0.4 | -0.009 | 1,548 | 1,549 |
| Ever enrolled in Year 4 | 97.0 | 0.1 | 0.89 | 0.6 | 0.017 | 1,548 | 1,549 |
| Ever enrolled in Year 5 | 93.4 | 0.6 | 0.48 | 0.9 | 0.063 | 1,548 | 1,549 |
| Percentage of months enrolled in Years 1–5 | 95.8 | 0.3 | 0.48 | 0.4 | 0.025 | 1,548 | 1,549 |

Appendix E CaPROMISE Impacts, Benefits, and Costs

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Average monthly Medicaid expenditures in years after RA | | • | | | • | | |
| Year 1 (\$) | 1,346 | 2 | 0.94 | 26 | 0.002 | 1,548 | 1,549 |
| Year 2 (\$) | 1,775 | -6 | 0.83 | 30 | -0.005 | 1,548 | 1,549 |
| Year 3 (\$) | 1,698 | 6 | 0.86 | 35 | 0.005 | 1,548 | 1,549 |
| Year 4 (\$) | 1,649 | -4 | 0.93 | 41 | -0.002 | 1,548 | 1,549 |
| Year 5 (\$) | 1,635 | -8 | 0.86 | 48 | -0.005 | 1,548 | 1,549 |
| Years 1–5 (\$) | 1,621 | -2 | 0.95 | 30 | -0.002 | 1,548 | 1,549 |
| Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 0.1 | -0.1 | 0.51 | 0.1 | -0.560 | 1,548 | 1,549 |
| Ever enrolled in Year 2 | 0.1 | -0.1 | 0.51 | 0.1 | -0.560 | 1,548 | 1,549 |
| Ever enrolled in Year 3 | 0.5 | -0.5** | 0.02 | 0.2 | -1.308 | 1,548 | 1,549 |
| Ever enrolled in Year 4 | 2.2 | -0.8* | 0.08 | 0.4 | -0.262 | 1,548 | 1,549 |
| Ever enrolled in Year 5 | 4.3 | -1.0 | 0.11 | 0.6 | -0.165 | 1,548 | 1,549 |
| Percentage of months enrolled in Years 1–5 | 1.0 | -0.4** | 0.05 | 0.2 | -0.065 | 1,548 | 1,549 |
| Average monthly Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 0 | 10 | 0.34 | 10 | 0.035 | 1,548 | 1,549 |
| Year 2 (\$) | 0 | 5 | 0.37 | 5 | 0.033 | 1,548 | 1,549 |
| Year 3 (\$) | 1 | 1 | 0.66 | 3 | 0.016 | 1,548 | 1,549 |
| Year 4 (\$) | 7 | -3 | 0.48 | 4 | -0.025 | 1,548 | 1,549 |
| Year 5 (\$) | 36 | -32* | 0.07 | 17 | -0.069 | 1,548 | 1,549 |
| Years 1–5 (\$) | 9 | -4 | 0.50 | 6 | -0.025 | 1,548 | 1,549 |

Source: CMS administrative records and PROMISE five-year survey (non-Medicare/Medicaid outcomes).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of CaPROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse and sample design.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

ACA = Affordable Care Act; CMS = Centers for Medicare & Medicaid Services; N = sample size; RA = random assignment.

Appendix Table E.13. CaPROMISE: Impact on the youth's economic and social well-being (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|---------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Total income in the past year (\$) | 10,093 | 701* | 0.09 | 414 | 0.088 | 810 | 795 |
| Total income during the five calendar years after RA (\$) | 48,967 | 1,703** | 0.01 | 689 | 0.083 | 1,548 | 1,549 |
| Supplementary outcomes | | | | | | | |
| Engaging in productive market activities ^a | 79.7 | 2.5 | 0.22 | 2.0 | 0.098 | 803 | 777 |
| Income in calendar years after RA | | | | | | | |
| Year 1 (\$) | 9,319 | 127 | 0.22 | 103 | 0.036 | 1,548 | 1,549 |
| Year 2 (\$) | 9,032 | 264* | 0.05 | 135 | 0.063 | 1,548 | 1,549 |
| Year 3 (\$) | 9,329 | 379** | 0.04 | 180 | 0.072 | 1,548 | 1,549 |
| Year 4 (\$) | 10,275 | 362 | 0.12 | 230 | 0.055 | 1,548 | 1,549 |
| Year 5 (\$) | 11,013 | 571** | 0.04 | 282 | 0.072 | 1,548 | 1,549 |
| Household income in the past year (\$) ^b | 35,350 | 1,721 | 0.13 | 1,132 | 0.080 | 730 | 710 |
| Household receives TANF, SNAP, or housing assistance ^b | 39.0 | -1.1 | 0.67 | 2.5 | -0.028 | 745 | 728 |
| Amount of public assistance in the past month | | | | | | | |
| TANF (\$) ^b | 53 | 8 | 0.45 | 10 | 0.041 | 747 | 731 |
| SNAP benefits (\$) ^b | 100 | -5 | 0.60 | 10 | -0.028 | 751 | 734 |
| Housing assistance (\$) ^b | 154 | 9 | 0.70 | 24 | 0.019 | 747 | 733 |
| Family structure and living arrangements | | | | | | | |
| Living independently | 7.8 | -1.6 | 0.22 | 1.3 | -0.149 | 809 | 794 |
| Married or in a marriage-like relationship | 3.5 | -1.3 | 0.15 | 0.9 | -0.276 | 781 | 754 |
| Responsible for a child or children | 5.0 | -0.2 | 0.87 | 1.1 | -0.023 | 781 | 754 |
| Engagement with the criminal justice system | | | | | | | |
| Ever arrested | 5.2 | 1.9 | 0.12 | 1.2 | 0.201 | 778 | 753 |
| Number of times arrested | 0.1 | 0.1* | 0.07 | 0.0 | 0.100 | 778 | 753 |
| Arrested in the past year | 1.6 | 0.6 | 0.39 | 0.7 | 0.200 | 777 | 753 |
| Ever incarcerated | 1.9 | 0.5 | 0.52 | 0.8 | 0.148 | 774 | 752 |
| Length of incarceration (days) | 6.4 | -1.6 | 0.68 | 3.8 | -0.025 | 774 | 752 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Self-reported health status | | | | | | | |
| Poor | 6.8 | -0.8 | 0.51 | 1.3 | -0.086 | 777 | 752 |
| Fair | 13.0 | 1.8 | 0.33 | 1.8 | 0.090 | 777 | 752 |
| Good | 40.3 | -1.3 | 0.61 | 2.6 | -0.033 | 777 | 752 |
| Very good or excellent | 40.0 | 0.4 | 0.89 | 2.6 | 0.009 | 777 | 752 |
| Received help in getting accommodations for school, work, or living independently in past year | 15.1 | 3.8** | 0.05 | 1.9 | 0.163 | 803 | 789 |

Source: PROMISE five-year surveys and SSA administrative records (SSA payments and income in calendar years after RA).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of CaPROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse and sample design.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

^a Productive market activities include engaging in any of the following at the time of the five-year survey: employment in paid or unpaid work, looking for work, or enrollment in school or a training program.

^b This outcome is based on data from the parent survey about the parent's household if the youth lived with the parent at interview.

N = sample size; RA = random assignment; SNAP = Supplemental Nutrition Assistance Program; SSA = Social Security Administration; TANF = Temporary Assistance for Needy Families.

Appendix Table E.14. CaPROMISE: Impact on the parents' employment and earnings (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Either parent worked for pay in the past year | 72.7 | 0.2 | 0.92 | 2.1 | 0.006 | 811 | 789 |
| Parents' earnings in the past year (\$) | 25,520 | 71 | 0.95 | 1,247 | 0.003 | 812 | 790 |
| Parents' earnings during the five calendar years after RA (\$) | 128,128 | 2,857 | 0.35 | 3,041 | 0.024 | 1,311 | 1,318 |
| Supplementary outcomes | | | | | | | |
| Highest educational attainment achieved by either parent | | | | | | | |
| Not a high school graduate | 34.6 | -0.2 | 0.92 | 2.2 | -0.006 | 811 | 792 |
| High school diploma or GED | 31.6 | -3.1 | 0.18 | 2.3 | -0.091 | 811 | 792 |
| Some postsecondary education or more | 32.5 | 2.3 | 0.32 | 2.3 | 0.062 | 811 | 792 |
| Other or do not know | 1.2 | 1.1* | 0.10 | 0.7 | 0.400 | 811 | 792 |
| Employment in the past year | | | | | | | |
| Number of parents that worked for pay | 0.9 | -0.0 | 0.67 | 0.0 | -0.020 | 808 | 788 |
| Number of weeks worked | 42.4 | -1.2 | 0.45 | 1.6 | -0.036 | 808 | 788 |
| Weekly hours worked | 32.3 | 0.8 | 0.51 | 1.3 | 0.031 | 812 | 790 |
| Either parent was offered fringe benefits through a job | 48.7 | 1.9 | 0.44 | 2.4 | 0.045 | 808 | 789 |
| Employment at the time of survey | | | | | | | |
| Either parent is in the labor force | 75.5 | -1.7 | 0.42 | 2.1 | -0.054 | 786 | 760 |
| Either parent is working for pay | 65.0 | -0.6 | 0.80 | 2.3 | -0.016 | 787 | 761 |
| Employment and earnings in calendar years after RA | | | | | | | |
| Ever employed in Year 1 | 78.3 | 0.5 | 0.67 | 1.1 | 0.018 | 1,311 | 1,318 |
| Ever employed in Year 2 | 79.5 | -0.9 | 0.47 | 1.2 | -0.032 | 1,311 | 1,318 |
| Ever employed in Year 3 | 79.1 | -1.8 | 0.17 | 1.3 | -0.064 | 1,311 | 1,318 |
| Ever employed in Year 4 | 79.1 | -2.1 | 0.13 | 1.4 | -0.073 | 1,311 | 1,318 |
| Ever employed in Year 5 | 76.9 | -1.7 | 0.24 | 1.5 | -0.057 | 1,311 | 1,318 |
| Ever employed in Years 1-5 | 88.2 | -1.4 | 0.19 | 1.1 | -0.077 | 1,311 | 1,318 |
| Earnings in Year 1 (\$) | 23,898 | 757 | 0.17 | 546 | 0.032 | 1,311 | 1,318 |
| Earnings in Year 2 (\$) | 24,572 | 507 | 0.42 | 635 | 0.021 | 1,311 | 1,318 |
| Earnings in Year 3 (\$) | 25,914 | 167 | 0.82 | 719 | 0.007 | 1,311 | 1,318 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|-------------------------|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Earnings in Year 4 (\$) | 27,222 | 263 | 0.74 | 803 | 0.010 | 1,311 | 1,318 |
| Earnings in Year 5 (\$) | 26,522 | 1,163 | 0.19 | 885 | 0.042 | 1,311 | 1,318 |

Source: PROMISE five-year survey and SSA administrative records (employment and earnings in years after RA).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of CaPROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse and sample design.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

GED = General Educational Development; N = sample size; RA = random assignment.

Appendix Table E.15. CaPROMISE: Impact on the parents' SSA payments (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Control | | | Standard | | Treatment | Control |
|--|---------|--------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p</i> -value | error | Effect size | group N | group N |
| Primary outcomes | | | | | | | |
| Either parent received SSA payments in Year 5 | 21.8 | -0.3 | 0.81 | 1.1 | -0.009 | 1,311 | 1,318 |
| Total SSA payments received in Year 5 (\$) | 2,688 | -105 | 0.50 | 158 | -0.019 | 1,311 | 1,318 |
| Total SSA payments during the five years after RA (\$) | 12,299 | -528 | 0.32 | 529 | -0.021 | 1,311 | 1,318 |
| Supplementary outcomes | | | | | | | |
| SSA payments in years after RA | | | | | | | |
| Received any in Year 1 | 18.2 | 0.1 | 0.75 | 0.4 | 0.006 | 1,311 | 1,318 |
| Received any in Year 2 | 19.5 | -0.5 | 0.44 | 0.7 | -0.020 | 1,311 | 1,318 |
| Received any in Year 3 | 20.5 | -1.0 | 0.21 | 0.8 | -0.039 | 1,311 | 1,318 |
| Received any in Year 4 | 21.2 | -1.0 | 0.31 | 0.9 | -0.036 | 1,311 | 1,318 |
| Received any in Years 1–5 | 24.0 | -0.1 | 0.93 | 1.0 | -0.003 | 1,311 | 1,318 |
| Amount in Year 1 (\$) | 2,291 | -23 | 0.81 | 98 | -0.004 | 1,311 | 1,318 |
| Amount in Year 2 (\$) | 2,302 | -37 | 0.73 | 106 | -0.007 | 1,311 | 1,318 |
| Amount in Year 3 (\$) | 2,462 | -173 | 0.17 | 126 | -0.032 | 1,311 | 1,318 |
| Amount in Year 4 (\$) | 2,556 | -190 | 0.17 | 140 | -0.035 | 1,311 | 1,318 |
| SSI payments in years after RA | | | | | | | |
| Received any in Year 1 | 12.1 | -0.2 | 0.69 | 0.5 | -0.011 | 1,311 | 1,318 |
| Received any in Year 2 | 12.4 | -0.6 | 0.33 | 0.6 | -0.034 | 1,311 | 1,318 |
| Received any in Year 3 | 12.7 | -0.9 | 0.22 | 0.7 | -0.048 | 1,311 | 1,318 |
| Received any in Year 4 | 12.8 | -0.9 | 0.26 | 0.8 | -0.049 | 1,311 | 1,318 |
| Received any in Year 5 | 12.7 | -0.8 | 0.35 | 0.8 | -0.044 | 1,311 | 1,318 |
| Received any in Years 1–5 | 14.9 | 0.2 | 0.79 | 0.8 | 0.010 | 1,311 | 1,318 |
| Amount in Year 1 (\$) | 1,097 | 31 | 0.60 | 58 | 0.009 | 1,311 | 1,318 |
| Amount in Year 2 (\$) | 1,116 | -67 | 0.33 | 68 | -0.020 | 1,311 | 1,318 |
| Amount in Year 3 (\$) | 1,105 | -80 | 0.28 | 74 | -0.024 | 1,311 | 1,318 |
| Amount in Year 4 (\$) | 1,137 | -158* | 0.06 | 83 | -0.048 | 1,311 | 1,318 |
| Amount in Year 5 (\$) | 1,160 | -131 | 0.16 | 94 | -0.039 | 1,311 | 1,318 |
| Total amount during Years 1–5 (\$) | 5,615 | -405 | 0.21 | 323 | -0.026 | 1,311 | 1,318 |

Appendix E CaPROMISE Impacts, Benefits, and Costs

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|------------------------------------|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| OASDI benefits in years after RA | | | | | | | |
| Received any in Year 1 | 10.3 | 0.3 | 0.59 | 0.5 | 0.016 | 1,311 | 1,318 |
| Received any in Year 2 | 11.5 | -0.3 | 0.57 | 0.6 | -0.021 | 1,311 | 1,318 |
| Received any in Year 3 | 12.0 | -0.0 | 0.95 | 0.7 | -0.002 | 1,311 | 1,318 |
| Received any in Year 4 | 12.7 | 0.0 | 0.98 | 0.9 | 0.001 | 1,311 | 1,318 |
| Received any in Year 5 | 13.4 | 0.2 | 0.81 | 1.0 | 0.012 | 1,311 | 1,318 |
| Received any in Years 1–5 | 15.1 | 0.1 | 0.90 | 0.9 | 0.005 | 1,311 | 1,318 |
| Amount in Year 1 (\$) | 1,194 | -54 | 0.50 | 80 | -0.013 | 1,311 | 1,318 |
| Amount in Year 2 (\$) | 1,186 | 30 | 0.73 | 85 | 0.007 | 1,311 | 1,318 |
| Amount in Year 3 (\$) | 1,358 | -93 | 0.36 | 103 | -0.022 | 1,311 | 1,318 |
| Amount in Year 4 (\$) | 1,419 | -32 | 0.79 | 118 | -0.007 | 1,311 | 1,318 |
| Amount in Year 5 (\$) | 1,528 | 26 | 0.84 | 127 | 0.006 | 1,311 | 1,318 |
| Total amount during Years 1–5 (\$) | 6,685 | -123 | 0.78 | 436 | -0.006 | 1,311 | 1,318 |

Source: SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of CaPROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse and sample design.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

N = sample size; OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income.

Appendix Table E.16. CaPROMISE: Impact on the parents' health insurance coverage and expenditures (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | inoun | inpaor | | | | 9.000 | 9.000 |
| Either parent is covered by health insurance | 85.8 | -0.2 | 0.91 | 1.7 | -0.009 | 801 | 790 |
| Average monthly Medicaid and Medicare expenditures in the five years after RA (\$) | 521 | 17 | 0.28 | 15 | 0.025 | 1,311 | 1,318 |
| Supplementary outcomes | | | | | | | |
| Covered by private health insurance | 23.0 | 0.5 | 0.82 | 2.1 | 0.016 | 803 | 790 |
| Medicaid and Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 83.8 | 0.2 | 0.89 | 1.4 | 0.009 | 1,311 | 1,318 |
| Ever enrolled in Year 2 | 83.5 | -0.0 | 1.00 | 1.4 | -0.000 | 1,311 | 1,318 |
| Ever enrolled in Year 3 | 81.6 | -0.6 | 0.70 | 1.4 | -0.022 | 1,311 | 1,318 |
| Ever enrolled in Year 4 | 78.8 | 0.7 | 0.62 | 1.5 | 0.027 | 1,311 | 1,318 |
| Ever enrolled in Year 5 | 77.9 | -0.2 | 0.91 | 1.5 | -0.006 | 1,311 | 1,318 |
| Percentage of months enrolled in Years 1–5 | 76.5 | -0.2 | 0.88 | 1.3 | -0.005 | 1,311 | 1,318 |
| Average monthly Medicaid and Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 388 | -3 | 0.79 | 13 | -0.006 | 1,311 | 1,318 |
| Year 2 (\$) | 542 | 23 | 0.23 | 19 | 0.028 | 1,311 | 1,318 |
| Year 3 (\$) | 571 | 21 | 0.33 | 21 | 0.027 | 1,311 | 1,318 |
| Year 4 (\$) | 551 | 26 | 0.23 | 21 | 0.035 | 1,311 | 1,318 |
| Year 5 (\$) | 555 | 17 | 0.45 | 22 | 0.023 | 1,311 | 1,318 |
| Medicaid participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 82.6 | -0.3 | 0.82 | 1.4 | -0.013 | 1,311 | 1,318 |
| Ever enrolled in Year 2 | 82.1 | -0.5 | 0.75 | 1.4 | -0.019 | 1,311 | 1,318 |
| Ever enrolled in Year 3 | 80.0 | -1.0 | 0.52 | 1.5 | -0.036 | 1,311 | 1,318 |
| Ever enrolled in Year 4 | 76.8 | 0.4 | 0.82 | 1.6 | 0.013 | 1,311 | 1,318 |
| Ever enrolled in Year 5 | 75.7 | -0.6 | 0.72 | 1.6 | -0.019 | 1,311 | 1,318 |
| Percentage of months enrolled in Years 1–5 | 74.7 | -0.6 | 0.65 | 1.3 | -0.017 | 1,311 | 1,318 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Average monthly Medicaid expenditures in years after | mean | impact | p-value | enor | Lifect Size | group N | groupin |
| RA | | | | | | | |
| Year 1 (\$) | 323 | -7 | 0.49 | 11 | -0.019 | 1,311 | 1,318 |
| Year 2 (\$) | 456 | 9 | 0.54 | 14 | 0.016 | 1,311 | 1,318 |
| Year 3 (\$) | 499 | 4 | 0.81 | 16 | 0.007 | 1,311 | 1,318 |
| Year 4 (\$) | 481 | 8 | 0.64 | 17 | 0.014 | 1,311 | 1,318 |
| Year 5 (\$) | 475 | 8 | 0.66 | 17 | 0.014 | 1,311 | 1,318 |
| Years 1–5 (\$) | 447 | 4 | 0.74 | 12 | 0.009 | 1,311 | 1,318 |
| Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 10.1 | 0.4 | 0.54 | 0.6 | 0.024 | 1,311 | 1,318 |
| Ever enrolled in Year 2 | 10.6 | 0.7 | 0.26 | 0.6 | 0.044 | 1,311 | 1,318 |
| Ever enrolled in Year 3 | 11.5 | 0.1 | 0.86 | 0.7 | 0.007 | 1,311 | 1,318 |
| Ever enrolled in Year 4 | 12.4 | 0.3 | 0.67 | 0.8 | 0.019 | 1,311 | 1,318 |
| Ever enrolled in Year 5 | 13.4 | -0.3 | 0.71 | 0.9 | -0.018 | 1,311 | 1,318 |
| Percentage of months enrolled in Years 1–5 | 11.0 | 0.2 | 0.77 | 0.6 | 0.005 | 1,311 | 1,318 |
| Average monthly Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 66 | 4 | 0.71 | 10 | 0.010 | 1,311 | 1,318 |
| Year 2 (\$) | 85 | 14 | 0.35 | 15 | 0.028 | 1,311 | 1,318 |
| Year 3 (\$) | 72 | 17 | 0.21 | 13 | 0.041 | 1,311 | 1,318 |
| Year 4 (\$) | 70 | 18 | 0.16 | 13 | 0.046 | 1,311 | 1,318 |
| Year 5 (\$) | 80 | 10 | 0.49 | 14 | 0.023 | 1,311 | 1,318 |
| Years 1–5 (\$) | 75 | 12 | 0.22 | 10 | 0.034 | 1,311 | 1,318 |

Source: CMS administrative records and PROMISE five-year survey (non-Medicare/Medicaid outcomes).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of CaPROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse and sample design.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

CMS = Centers for Medicare & Medicaid Services; N = sample size.

Appendix Table E.17. CaPROMISE: Impact on the parents' economic well-being (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|--------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Parents' total income in the past year (\$) | 29,231 | 149 | 0.92 | 1,396 | 0.006 | 682 | 675 |
| Parents' total income during the five calendar years after RA (\$) | 141,645 | 2,331 | 0.44 | 3,006 | 0.021 | 1,311 | 1,318 |
| Supplementary outcomes | | | | | | | |
| Parents' income in calendar years after RA | | | | | | | |
| Year 1 (\$) | 26,376 | 751 | 0.18 | 554 | 0.033 | 1,311 | 1,318 |
| Year 2 (\$) | 27,179 | 356 | 0.58 | 638 | 0.015 | 1,311 | 1,318 |
| Year 3 (\$) | 28,590 | 20 | 0.98 | 714 | 0.001 | 1,311 | 1,318 |
| Year 4 (\$) | 30,056 | 166 | 0.83 | 792 | 0.007 | 1,311 | 1,318 |
| Year 5 (\$) | 29,445 | 1,038 | 0.23 | 868 | 0.039 | 1,311 | 1,318 |
| Household receives TANF, SNAP, or housing assistance | 40.7 | -0.2 | 0.93 | 2.4 | -0.005 | 796 | 783 |
| Household income in the past year (\$) | 36,254 | 1,591 | 0.13 | 1,048 | 0.077 | 776 | 761 |

Source: PROMISE five-year survey and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of CaPROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse and sample design.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

N = sample size; RA = random assignment; SSA = Social Security Administration.

2. Sensitivity analyses

We assessed the sensitivity of the estimated impacts on primary outcomes to methodological choices we incorporated in the main impact estimates. In Appendix Table E.18, we show the impact estimated by the main regression model for each outcome, as well as by alternative models that do not (1) use weights to adjust for nonresponse (but use weights to adjust for survey sampling), (2) include covariate adjustment, and (3) use imputed data for outcomes that underwent multiple imputation. The alternative models produced broadly similar results, suggesting that the main model's estimates of program impacts were not sensitive to the choice of estimation method.

We also assessed the extent to which the lack of survey data for some enrollees would influence the estimates of program impacts. For CaPROMISE, survey data may be missing not only due to nonresponse but also due to survey sampling; we sampled only 2,000 of the approximately 3,000 enrollees for the follow-up surveys. In Appendix Table E.19, we compare how the estimated impacts on primary outcomes varied when nonrespondents were included and excluded from analyses of outcomes measured using administrative data. For all outcomes, the impact estimated using the weighted survey respondent sample did not significantly differ from the impact estimated using the administrative analysis sample. The findings suggest that use of the analysis weights minimized the potential for nonresponse bias because the estimated impacts for the survey respondent sample were comparable to those for the full research sample.

Appendix Table E.18. CaPROMISE: Impact on primary outcomes, by estimation approach (values measured at the time of the survey and shown in in percentages, unless otherwise noted)

| Outcome | Main model | No weighting for non- response | No covariate adjustment | No imputation |
|--|------------|--------------------------------------|----------------------------|------------------|
| Enrolled in an educational or training program | 2.4 | 1.7 | 0.9 | n.a. |
| Has a GED, high school diploma, or certificate of completion | -1.6 | -1.5 | -1.7 | n.a. |
| Youth employed in a paid job in the past year | 2.7 | 2.8 | 3.4 | 2.9 |
| Youth earnings in the past year (\$) | 403 | 452 | 510 | 396 |
| Youth earnings during the five calendar years after RA (\$) | 941 | n.a. | 913 | n.a. |
| Youth self-determination score (scale: 0 to 100) ^a | -1.2 | -1.3 | -1.0 | n.a. |
| Youth expects to be financially independent at age 25 | 2.4 | 2.4 | 3.1 | n.a. |
| Youth received SSA payments in Year 5 after RA | 1.5 | n.a. | 1.3 | n.a. |
| Youth total SSA payments in Year 5 after RA (\$) | 257 | n.a. | 215 | n.a. |
| Youth total SSA payments during Years 1–5 after RA (\$) | 695 | n.a. | 575 | n.a. |
| Youth covered by any health insurance | 1.6 | 1.8 | 1.7 | n.a. |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | -6 | n.a. | -6 | n.a. |
| Youth total income in the past year (\$) | 701* | 773* | 683* | 542 |
| Youth total income during the five calendar years after RA (\$) | 1,703** | n.a. | 1,524** | n.a. |
| Either parent worked for pay in the past year | 0.2 | 0.2 | -1.7 | n.a. |
| Parents' earnings in the past year (\$) | 71 | 58 | -570 | -37 |
| Parents' earnings during the five calendar years after RA (\$) | 2,857 | n.a. | -1,763 | n.a. |
| Either parent received SSA payments in Year 5 after RA | -0.3 | n.a. | 0.9 | n.a. |
| Parents' total SSA payments received in Year 5 after RA (\$) | -105 | n.a. | 58 | n.a. |
| Parents' total SSA payments during the five years after RA (\$) | -528 | n.a. | 318 | n.a. |
| Parents' total income in the past year (\$) | 149 | 86 | -182 | -65 |
| Parents' income during the five calendar years after RA (\$) | 2,331 | n.a. | -1,385 | n.a. |
| Either parent is covered by health insurance | -0.2 | -0.2 | 0.1 | n.a. |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 17 | n.a. | 17 | n.a. |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the impact estimates of CaPROMISE, using different modeling approaches. In the main model, we used covariate adjustment and, for outcomes derived from survey data, we weighted statistics to adjust for survey nonresponse and sample design and used multiple imputation when an

outcome had a missing value conditional on the value of another variable. In the model with "No weighting for non-response", we followed the main model but did not apply weights to adjust for non-response (we applied weights to adjust for sample design). In the model with "No covariate adjustment", we followed the main model but did not include covariates except for region fixed effects. For the model with "No multiple imputation", we followed the main model except that we excluded cases with outcomes that had a missing value conditional on the value of another variable.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

CMS = Centers for Medicare & Medicaid Services; GED = General Educational Development; N = sample size; n.a.= not applicable; RA = random assignment; SSA = Social Security Administration.

Appendix Table E.19. CaPROMISE: Impact on primary outcomes measured using administrative data, including and excluding five-year survey nonrespondents (percentage, unless otherwise noted)

| | Admin | istrative an samples | alysis | Five-year | pondents | | |
|--|-----------------|----------------------|-----------------|-----------------|----------|-----------------|-----------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | <i>p</i> -value for difference |
| Youth earnings during the five calendar years after RA (\$) | 9,902 | 941 | 0.15 | 8,354 | 1,705* | 0.06 | 0.31 |
| Youth received SSA payments in Year 5 after RA | 65.2 | 1.5 | 0.35 | 67.9 | 2.6 | 0.24 | 0.55 |
| Youth total SSA payments in Year 5 after RA (\$) | 6,196 | 257 | 0.14 | 6,517 | 307 | 0.21 | 0.80 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 37,122 | 695 | 0.19 | 38,290 | 529 | 0.47 | 0.78 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,630 | -6 | 0.85 | 1,666 | -15 | 0.73 | 0.79 |
| Youth total income during the five calendar years after RA (\$) | 48,967 | 1,703** | 0.01 | 48,740 | 2,247** | 0.02 | 0.49 |
| Parents' earnings during the five calendar years after RA (\$) | 128,128 | 2,857 | 0.35 | 127,556 | 4,987 | 0.25 | 0.55 |
| Either parent received SSA payments in Year 5 after RA | 21.8 | -0.3 | 0.81 | 21.8 | -0.8 | 0.62 | 0.69 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 2,688 | -105 | 0.50 | 2,679 | -230 | 0.28 | 0.49 |
| Parents' total SSA payments during the five years after RA (\$) | 12,299 | -528 | 0.32 | 12,465 | -1,445* | 0.05 | 0.13 |
| Parents' total income during the five calendar years after RA (\$) | 141,645 | 2,331 | 0.44 | 141,260 | 3,517 | 0.41 | 0.73 |
| Parents' average monthly Medicaid and Medicare expenditures in years after RA in Years 1-5 after RA (\$) | 521 | 17 | 0.28 | 499 | 6 | 0.79 | 0.52 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of CaPROMISE for administrative analysis samples and five-year survey respondents. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For the sample of five-year survey respondents, we weighted the statistics to adjust for survey nonresponse and sample design, applying youth weights for youths' outcomes and parent weights for parents' outcomes.

*/**/*** Impact estimate is significantly different from zero (p-value is less than .10/.05/.01) using a two-tailed t-test.

+/++/+++ Impact estimates for the two samples are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

CMS = Centers for Medicare & Medicaid Services; N = sample size; RA = random assignment. SSA = Social Security Administration.

3. Subgroup impact estimates

We estimated the five-year impacts for key subgroups of evaluation enrollees to understand whether the impacts of CaPROMISE differed by enrollee characteristics. We focused on subgroups defined by the following baseline characteristics of youth: age (ages 14 and 15, and age 16); sex (females and males); whether a youth's parent received SSA payments at the time of RA (yes or no); primary impairment (intellectual or developmental disabilities, other mental impairments, and other disabilities); and whether the survey respondent completed the five-year survey before or after the onset of the COVID-19 pandemic (yes or no). Appendix Tables E.20–E.25 present the subgroup impact estimates.

Appendix Table E.20. CaPROMISE: Impacts on primary outcomes, by youth's age (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Age 14 and 15 Age 16 | | | | | | | <i>p</i> -value | | | |
|---|----------------------|--------|-----------------|----------------------|--------------------|-----------------|---------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Youth enrolled in an educational or training program | 63.7 | -1.3 | 0.66 | 539 | 508 | 47.6 | 9.6** | 0.03 | 259 | 261 | 0.03†† |
| Youth has a GED, high school diploma, or certificate of completion | 81.4 | -3.3 | 0.19 | 544 | 519 | 79.0 | 1.8 | 0.62 | 261 | 269 | 0.24 |
| Youth employed in a paid job in the past year | 31.5 | 3.5 | 0.23 | 547 | 522 | 36.6 | 0.9 | 0.83 | 263 | 273 | 0.61 |
| Youth earnings in the past year (\$) | 3,311 | 369 | 0.45 | 547 | 522 | 4,272 | 432 | 0.62 | 263 | 273 | 0.95 |
| Youth earnings during the five calendar years after RA (\$) | 7,895 | 867 | 0.22 | 1,025 | 996 | 13,516 | 936 | 0.50 | 523 | 553 | 0.96 |
| Youth self-determination score (scale: 0 to 100) | 78.7 | -2.0* | 0.08 | 329 | 307 | 76.4 | 0.2 | 0.88 | 168 | 163 | 0.26 |
| Youth expects to be financially independent at age 25 | 60.7 | -3.3 | 0.40 | 330 | 318 | 49.9 | 12.9** | 0.02 | 170 | 165 | 0.01†† |
| Youth received SSA payments in Year 5 after RA | 68.4 | -0.2 | 0.90 | 1,025 | 996 | 59.5 | 5.1* | 0.07 | 523 | 553 | 0.12 |
| Youth total SSA payments in Year 5 after RA (\$) | 6,272 | 184 | 0.38 | 1,025 | 996 | 6,058 | 409 | 0.19 | 523 | 553 | 0.55 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 37,121 | 4 | 0.99 | 1,025 | 996 | 37,124 | 1,989** | 0.03 | 523 | 553 | 0.08† |
| Youth covered by any health insurance | 92.1 | 1.5 | 0.37 | 528 | 516 | 88.3 | 1.9 | 0.50 | 255 | 270 | 0.89 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,652 | -22 | 0.54 | 1,025 | 996 | 1,589 | 26 | 0.63 | 523 | 553 | 0.45 |
| Youth total income in the past year (\$) | 9,755 | 652 | 0.16 | 547 | 522 | 10,718 | 758 | 0.36 | 263 | 273 | 0.91 |
| Youth total income during the five calendar years after RA (\$) | 46,817 | 913 | 0.27 | 1,025 | 996 | 52,841 | 3,045** | 0.01 | 523 | 553 | 0.15 |

| | | Age 14 and 15 | | | | | | Age 16 | - | | <i>p</i> -value |
|--|-----------------|---------------|-----------------|----------------------|--------------------|-----------------|---------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p-</i> value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Either parent worked for pay in the past year | 75.0 | -0.2 | 0.93 | 549 | 522 | 68.4 | 1.0 | 0.78 | 262 | 267 | 0.78 |
| Parents' earnings in the past year (\$) | 26,990 | -1,111 | 0.46 | 550 | 523 | 22,817 | 2,310 | 0.29 | 262 | 267 | 0.19 |
| Parents' earnings during the five calendar years after RA (\$) | 131,228 | 1,519 | 0.70 | 855 | 839 | 122,699 | 5,350 | 0.25 | 456 | 479 | 0.53 |
| Either parent received SSA payments in Year 5 after RA | 19.8 | 0.7 | 0.57 | 855 | 839 | 25.3 | -2.1 | 0.25 | 456 | 479 | 0.21 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 2,403 | 8 | 0.96 | 855 | 839 | 3,187 | -314 | 0.28 | 456 | 479 | 0.35 |
| Parents' total SSA payments during the five years after RA (\$) | 10,867 | 137 | 0.83 | 855 | 839 | 14,808 | -1,742* | 0.07 | 456 | 479 | 0.10 |
| Parents' total income in the past year (\$) | 30,613 | -1,458 | 0.39 | 453 | 442 | 26,774 | 3,058 | 0.19 | 229 | 233 | 0.11 |
| Parents' total income during the five calendar years after RA (\$) | 143,177 | 1,737 | 0.66 | 855 | 839 | 138,961 | 3,465 | 0.45 | 456 | 479 | 0.77 |
| Either parent is covered by health insurance | 85.3 | -0.0 | 1.00 | 540 | 524 | 86.6 | -0.5 | 0.86 | 261 | 266 | 0.88 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 504 | 24 | 0.21 | 855 | 839 | 552 | 3 | 0.90 | 456 | 479 | 0.52 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of CaPROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse and sample design.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

CMS = Centers for Medicare & Medicaid Services; GED = General Educational Development; N = sample size; RA = random assignment; SSA = Social Security Administration.

Appendix Table E.21. CaPROMISE: Impacts on primary outcomes, by youth's sex (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Male | | | | | | <i>p</i> -value | | | | |
|---|-----------------|--------|-----------------|----------------------|--------------------|-----------------|-----------------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p-</i> value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Youth enrolled in an educational or training program | 53.4 | 5.1* | 0.09 | 537 | 496 | 67.0 | -3.1 | 0.45 | 261 | 273 | 0.10 |
| Youth has a GED, high school diploma, or certificate of completion | 79.6 | -1.7 | 0.51 | 543 | 513 | 82.5 | -1.3 | 0.70 | 262 | 275 | 0.93 |
| Youth employed in a paid job in the past year | 35.4 | 3.7 | 0.22 | 547 | 516 | 29.3 | 0.6 | 0.88 | 263 | 279 | 0.53 |
| Youth earnings in the past year (\$) | 4,161 | 306 | 0.59 | 547 | 516 | 2,655 | 600 | 0.40 | 263 | 279 | 0.74 |
| Youth earnings during the five calendar years after RA (\$) | 11,325 | 127 | 0.88 | 1,053 | 1,033 | 7,053 | 2,616** | 0.01 | 495 | 516 | 0.06† |
| Youth self-determination score (scale: 0 to 100) | 77.0 | -0.2 | 0.90 | 334 | 308 | 79.6 | -3.3** | 0.03 | 163 | 162 | 0.10 |
| Youth expects to be financially independent at age 25 | 57.9 | 0.3 | 0.93 | 337 | 319 | 54.8 | 6.5 | 0.24 | 163 | 164 | 0.35 |
| Youth received SSA payments in Year 5 after RA | 63.5 | -0.9 | 0.65 | 1,053 | 1,033 | 68.6 | 6.5** | 0.02 | 495 | 516 | 0.03†† |
| Youth total SSA payments in Year 5 after RA (\$) | 5,959 | 85 | 0.69 | 1,053 | 1,033 | 6,669 | 609** | 0.04 | 495 | 516 | 0.15 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 36,336 | 481 | 0.46 | 1,053 | 1,033 | 38,695 | 1,135 | 0.21 | 495 | 516 | 0.55 |
| Youth covered by any health insurance | 88.6 | 2.3 | 0.23 | 526 | 509 | 94.9 | 0.3 | 0.90 | 257 | 277 | 0.45 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,548 | -21 | 0.57 | 1,053 | 1,033 | 1,793 | 25 | 0.65 | 495 | 516 | 0.48 |
| Youth income in the past year (\$) | 10,545 | 255 | 0.62 | 547 | 516 | 9,217 | 1,602** | 0.02 | 263 | 279 | 0.11 |
| Youth total income during the five calendar years after RA (\$) | 49,433 | 697 | 0.43 | 1,053 | 1,033 | 48,036 | 3,775*** | 0.00 | 495 | 516 | 0.03†† |
| Either parent worked for pay in the past year | 72.0 | 1.8 | 0.48 | 551 | 516 | 74.0 | -3.1 | 0.40 | 260 | 273 | 0.27 |

| | Male | | | | | | | Female | | | <i>p</i> -value |
|---|-----------------|---------|-----------------|----------------------|--------------------|-----------------|--------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p-</i> value | Treatment group N | Control group N | for subgroup difference |
| Parents' earnings in the past year (\$) | 25,455 | 56 | 0.97 | 552 | 517 | 25,647 | 102 | 0.96 | 260 | 273 | 0.99 |
| Parents' earnings during the five calendar years after RA (\$) | 129,477 | 719 | 0.85 | 894 | 881 | 125,409 | 7,290 | 0.16 | 417 | 437 | 0.30 |
| Either parent received SSA payments in Year 5 after RA | 23.5 | -1.5 | 0.26 | 894 | 881 | 18.3 | 2.3 | 0.18 | 417 | 437 | 0.08† |
| Parents' total SSA payments received in Year 5 after RA (\$) | 2,894 | -276 | 0.16 | 894 | 881 | 2,273 | 247 | 0.34 | 417 | 437 | 0.11 |
| Parents' total SSA payments during the five years after RA (\$) | 13,021 | -1,188* | 0.06 | 894 | 881 | 10,843 | 840 | 0.37 | 417 | 437 | 0.07† |
| Parents' income in the past year (\$) | 29,732 | -177 | 0.92 | 466 | 437 | 28,278 | 811 | 0.73 | 216 | 238 | 0.73 |
| Parents' income during the five calendar years after RA (\$) | 143,789 | -591 | 0.87 | 894 | 881 | 137,322 | 8,389 | 0.10 | 417 | 437 | 0.15 |
| Either parent is covered by health insurance | 84.9 | -0.0 | 0.99 | 544 | 516 | 87.4 | -0.5 | 0.86 | 257 | 274 | 0.89 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 548 | -2 | 0.92 | 894 | 881 | 468 | 55** | 0.04 | 417 | 437 | 0.08† |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of CaPROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse and sample design.

*/**/*** Impact estimate is significantly different from zero (p-value is less than .10/.05/.01) using a two-tailed t-test.

†/††/††† Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table E.22. CaPROMISE: Impacts on primary outcomes, by whether parent received SSA payments before RA (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | No parent received SSA payments | | | | | At least one parent received SSA payments | | | | | <i>p</i> -value |
|---|---------------------------------|---------|-----------------|----------------------|--------------------|---|--------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Youth enrolled in an educational or training program | 58.6 | 4.0 | 0.17 | 543 | 549 | 47.8 | 0.0 | 1.00 | 127 | 103 | 0.57 |
| Youth has a GED, high school diploma, or certificate of completion | 81.6 | -2.2 | 0.37 | 551 | 560 | 77.5 | 3.5 | 0.51 | 127 | 110 | 0.32 |
| Youth employed in a paid job in the past year | 35.1 | 0.2 | 0.95 | 555 | 564 | 32.6 | 12.0* | 0.06 | 127 | 112 | 0.09† |
| Youth earnings in the past year (\$) | 3,754 | -36 | 0.95 | 555 | 564 | 3,289 | 2,184* | 0.06 | 127 | 112 | 0.08† |
| Youth earnings during the five calendar years after RA (\$) | 9,225 | 737 | 0.33 | 1,066 | 1,087 | 11,816 | 2,653 | 0.14 | 245 | 231 | 0.32 |
| Youth self-determination score (scale: 0 to 100) | 79.0 | -0.9 | 0.39 | 334 | 328 | 77.6 | -1.1 | 0.65 | 80 | 61 | 0.93 |
| Youth expects to be financially independent at age 25 | 60.6 | -2.9 | 0.44 | 342 | 333 | 51.8 | 17.6** | 0.04 | 77 | 64 | 0.02†† |
| Youth received SSA payments in Year 5 after RA | 65.6 | 1.9 | 0.32 | 1,066 | 1,087 | 59.3 | 1.6 | 0.71 | 245 | 231 | 0.94 |
| Youth total SSA payments in Year 5 after RA (\$) | 6,183 | 302 | 0.14 | 1,066 | 1,087 | 5,666 | 155 | 0.74 | 245 | 231 | 0.77 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 35,925 | 1,137* | 0.07 | 1,066 | 1,087 | 38,102 | 592 | 0.66 | 245 | 231 | 0.71 |
| Youth covered by any health insurance | 90.8 | 1.7 | 0.32 | 533 | 560 | 91.8 | 0.5 | 0.88 | 124 | 108 | 0.76 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,663 | -7 | 0.84 | 1,066 | 1,087 | 1,531 | -27 | 0.71 | 245 | 231 | 0.80 |
| Youth income in the past year (\$) | 10,048 | 406 | 0.41 | 555 | 564 | 9,816 | 1,976* | 0.07 | 127 | 112 | 0.19 |
| Youth total income during the five calendar years after RA (\$) | 47,090 | 1,992** | 0.01 | 1,066 | 1,087 | 51,652 | 3,234* | 0.07 | 245 | 231 | 0.53 |

| | N | No parent received SSA payments | | | | | At least one parent received SSA payments | | | | |
|--|-----------------|---------------------------------|-----------------|----------------------|--------------------|-----------------|---|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Either parent worked for pay in the past year | 80.5 | 0.6 | 0.82 | 552 | 562 | 40.1 | -4.1 | 0.50 | 129 | 112 | 0.47 |
| Parents' earnings in the past year (\$) | 29,622 | 717 | 0.66 | 553 | 562 | 11,311 | -1,201 | 0.64 | 129 | 113 | 0.52 |
| Parents' earnings during the five calendar years after RA (\$) | 144,895 | 3,463 | 0.33 | 1,066 | 1,087 | 49,232 | 479 | 0.92 | 245 | 231 | 0.61 |
| Either parent received SSA payments in Year 5 after RA | 7.6 | -0.5 | 0.65 | 1,066 | 1,087 | 88.3 | 1.1 | 0.71 | 245 | 231 | 0.61 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 913 | -45 | 0.77 | 1,066 | 1,087 | 11,038 | -339 | 0.53 | 245 | 231 | 0.59 |
| Parents' total SSA payments during the five years after RA (\$) | 2,537 | -303 | 0.48 | 1,066 | 1,087 | 58,238 | -1,194 | 0.59 | 245 | 231 | 0.69 |
| Parents' income in the past year (\$) | 30,505 | 663 | 0.68 | 553 | 562 | 22,978 | -2,252 | 0.36 | 129 | 113 | 0.32 |
| Parents' income during the five calendar years after RA (\$) | 148,002 | 3,207 | 0.36 | 1,066 | 1,087 | 111,731 | -911 | 0.85 | 245 | 231 | 0.50 |
| Either parent is covered by health insurance | 87.7 | 2.0 | 0.29 | 546 | 562 | 94.2 | -1.2 | 0.73 | 127 | 112 | 0.40 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 339 | 17 | 0.21 | 1,066 | 1,087 | 1,378 | 22 | 0.71 | 245 | 231 | 0.94 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of CaPROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse and sample design.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table E.23. CaPROMISE: Impacts on primary outcomes, by youth's primary impairment (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | | tellectual mental dis | | Other m | ental impa | airments | Other impairments | | nents | <i>p</i> -value for |
|---|-----------------|--------------------------|-----------------|-----------------|------------|-----------------|-------------------|--------|-----------------|------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | subgroup difference |
| Youth enrolled in an educational or training program | 63.2 | 0.6 | 0.86 | 38.2 | 3.5 | 0.50 | 63.3 | 4.4 | 0.33 | 0.77 |
| Youth has a GED, high school diploma, or certificate of completion | 82.7 | -3.2 | 0.27 | 73.3 | 0.4 | 0.94 | 82.2 | -0.4 | 0.91 | 0.74 |
| Youth employed in a paid job in the past year | 30.4 | -1.1 | 0.74 | 46.3 | 5.9 | 0.26 | 29.1 | 6.6 | 0.12 | 0.28 |
| Youth earnings in the past year (\$) | 2,797 | 662 | 0.28 | 5,709 | 564 | 0.59 | 3,639 | -148 | 0.85 | 0.70 |
| Youth earnings during the five calendar years after RA (\$) | 8,825 | 547 | 0.56 | 13,953 | 1,680 | 0.26 | 8,452 | 921 | 0.42 | 0.81 |
| Youth self-determination score (scale: 0 to 100) | 76.4 | -1.3 | 0.34 | 78.1 | -1.4 | 0.46 | 80.4 | -0.8 | 0.64 | 0.96 |
| Youth expects to be financially independent at age 25 | 55.3 | 1.0 | 0.82 | 61.8 | 2.4 | 0.70 | 55.6 | 5.2 | 0.40 | 0.86 |
| Youth received SSA payments in Year 5 after RA | 70.0 | 2.8 | 0.23 | 46.9 | 0.6 | 0.87 | 71.8 | 0.5 | 0.87 | 0.78 |
| Youth total SSA payments in Year 5 after RA (\$) | 6,753 | 357 | 0.16 | 4,058 | 343 | 0.35 | 6,978 | 59 | 0.85 | 0.74 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 38,410 | 1,467* | 0.05 | 32,063 | 509 | 0.66 | 39,025 | -330 | 0.74 | 0.34 |
| Youth covered by any health insurance | 90.7 | 1.5 | 0.45 | 87.3 | 0.9 | 0.80 | 93.4 | 2.2 | 0.33 | 0.95 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,613 | 34 | 0.41 | 1,227 | -47 | 0.42 | 1,978 | -42 | 0.51 | 0.42 |
| Youth income in the past year (\$) | 9,594 | 1,225** | 0.03 | 10,283 | 625 | 0.53 | 10,812 | -111 | 0.87 | 0.33 |
| Youth total income during the five calendar years after RA (\$) | 49,450 | 2,198** | 0.02 | 46,801 | 2,394 | 0.14 | 49,897 | 361 | 0.76 | 0.42 |
| Either parent worked for pay in the past year | 73.3 | -2.8 | 0.35 | 64.3 | 8.4* | 0.08 | 78.1 | -1.7 | 0.65 | 0.12 |

| | | itellectual mental dis | | Other m | Other mental impairments Other impairments | | | Other impairments | | | pairments Other impairmen | | |
|--|--------------|---------------------------|-----------------|-----------------|--|-----------------|--------------|-------------------|-----------------|---|---------------------------|--|--|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | <i>p</i> -value for subgroup difference | | | |
| Parents' earnings in the past year (\$) | 25,209 | -2,495 | 0.16 | 25,174 | 3,857 | 0.18 | 26,343 | 1,360 | 0.55 | 0.12 | | | |
| Parents' earnings during the five calendar years after RA (\$) | 129,744 | -372 | 0.93 | 103,640 | 4,231 | 0.45 | 146,778 | 7,033 | 0.26 | 0.59 | | | |
| Either parent received SSA payments in Year 5 after RA | 21.3 | -0.5 | 0.76 | 28.8 | -0.8 | 0.74 | 16.5 | 0.6 | 0.74 | 0.87 | | | |
| Parents' total SSA payments received in Year 5 after RA (\$) | 2,664 | -112 | 0.63 | 3,491 | -235 | 0.50 | 2,028 | 28 | 0.91 | 0.82 | | | |
| Parents' total SSA payments during the five years after RA (\$) | 11,841 | -502 | 0.51 | 16,973 | -1,737 | 0.14 | 8,992 | 559 | 0.53 | 0.29 | | | |
| Parents' income in the past year (\$) | 28,949 | -2,022 | 0.31 | 29,346 | 2,993 | 0.32 | 29,641 | 1,494 | 0.57 | 0.30 | | | |
| Parents' income during the five calendar years after RA (\$) | 142,774 | -842 | 0.85 | 122,347 | 2,418 | 0.66 | 156,584 | 7,618 | 0.22 | 0.53 | | | |
| Either parent is covered by health insurance | 82.8 | 3.6 | 0.17 | 93.6 | -7.1** | 0.02 | 84.8 | -0.4 | 0.89 | 0.03†† | | | |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 517 | -8 | 0.68 | 620 | 1 | 0.97 | 442 | 74*** | 0.01 | 0.05† | | | |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of CaPROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse and sample design.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table E.24. CaPROMISE: Sample sizes for primary outcomes, by youth's primary impairment

| | | developmental bilities | Other menta | l impairments | Other impairments | | |
|--|----------------------|---------------------------|----------------------|--------------------|--------------------|----------------------|--|
| Outcome | Treatment group N | Control group N | Treatment group N | Control group N | Control group N | Treatment group N | |
| Youth enrolled in an educational or training program | 376 | 386 | 191 | 154 | 231 | 229 | |
| Youth has a GED, high school diploma, or certificate of completion | 377 | 393 | 196 | 160 | 232 | 235 | |
| Youth employed in a paid job in the past year | 380 | 399 | 197 | 160 | 233 | 236 | |
| Youth earnings in the past year (\$) | 380 | 399 | 197 | 160 | 233 | 236 | |
| Youth earnings during the five calendar years after RA (\$) | 738 | 741 | 375 | 358 | 435 | 450 | |
| Youth self-determination score (scale: 0 to 100) | 229 | 238 | 137 | 106 | 131 | 126 | |
| Youth expects to be financially independent at age 25 | 229 | 243 | 138 | 109 | 133 | 131 | |
| Youth received SSA payments in Year 5 after RA | 738 | 741 | 375 | 358 | 435 | 450 | |
| Youth total SSA payments in Year 5 after RA (\$) | 738 | 741 | 375 | 358 | 435 | 450 | |
| Youth total SSA payments during Years 1–5 after RA (\$) | 738 | 741 | 375 | 358 | 435 | 450 | |
| Youth covered by any health insurance | 369 | 395 | 184 | 156 | 230 | 235 | |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 738 | 741 | 375 | 358 | 435 | 450 | |
| Youth income in the past year (\$) | 380 | 399 | 197 | 160 | 233 | 236 | |
| Youth total income during the five calendar years after RA (\$) | 738 | 741 | 375 | 358 | 435 | 450 | |
| Either parent worked for pay in the past year | 374 | 390 | 200 | 172 | 237 | 227 | |
| Parents' earnings in the past year (\$) | 375 | 390 | 200 | 173 | 237 | 227 | |
| Parents' earnings during the five calendar years after RA (\$) | 615 | 625 | 345 | 323 | 351 | 370 | |
| Either parent received SSA payments in Year 5 after RA | 615 | 625 | 345 | 323 | 351 | 370 | |

| | | developmental pilities | Other menta | l impairments | Other impairments | | |
|---|----------------------|---------------------------|----------------------|--------------------|--------------------|----------------------|--|
| Outcome | Treatment group N | Control group N | Treatment group N | Control group N | Control group N | Treatment group N | |
| Parents' total SSA payments received in Year 5 after RA (\$) | 615 | 625 | 345 | 323 | 351 | 370 | |
| Parents' total SSA payments during the five years after RA (\$) | 615 | 625 | 345 | 323 | 351 | 370 | |
| Parents' income in the past year (\$) | 309 | 331 | 182 | 154 | 191 | 190 | |
| Parents' income during the five calendar years after RA (\$) | 615 | 625 | 345 | 323 | 351 | 370 | |
| Either parent is covered by health insurance | 370 | 390 | 197 | 172 | 234 | 228 | |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 615 | 625 | 345 | 323 | 351 | 370 | |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the sample size by subgroup for the estimates reported in Appendix Table E.23.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table E.25. CaPROMISE: Impacts on primary outcomes, by whether the survey respondent completed the five-year survey before or during the pandemic (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | | Be | fore pand | lemic | | | Dui | ring pande | mic | | <i>p</i> -value |
|--|-----------------|--------|-----------------|----------------------|--------------------|-----------------|--------|-----------------|----------------------|-----------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Youth enrolled in an educational or training program | 55.7 | 3.2 | 0.52 | 196 | 184 | 58.8 | 2.1 | 0.46 | 600 | 585 | 0.84 |
| Youth has a GED, high school diploma, or certificate of completion | 80.8 | -0.8 | 0.84 | 195 | 184 | 80.5 | -1.8 | 0.45 | 608 | 604 | 0.84 |
| Youth employed in a paid job in the past year | 38.2 | 8.0 | 0.11 | 196 | 185 | 31.8 | 1.0 | 0.71 | 612 | 610 | 0.21 |
| Youth earnings in the past year (\$) | 3,845 | 996 | 0.30 | 196 | 185 | 3,589 | 225 | 0.65 | 612 | 610 | 0.47 |
| Youth self-determination score (scale: 0 to 100) | 78.3 | -1.3 | 0.46 | 138 | 131 | 77.7 | -1.1 | 0.31 | 359 | 339 | 0.92 |
| Youth expects to be financially independent at age 25 | 56.7 | 3.2 | 0.60 | 136 | 130 | 56.9 | 2.0 | 0.59 | 364 | 353 | 0.86 |
| Youth covered by any health insurance | 94.6 | -1.7 | 0.51 | 189 | 181 | 89.6 | 2.6 | 0.13 | 594 | 605 | 0.16 |
| Youth income in the past year (\$) | 10,520 | 1,161 | 0.18 | 196 | 185 | 9,964 | 566 | 0.23 | 612 | 610 | 0.54 |
| Either parent worked for pay in the past year | 70.3 | -1.3 | 0.73 | 210 | 198 | 73.5 | 0.7 | 0.77 | 601 | 591 | 0.65 |
| Parents' earnings in the past year (\$) | 23,438 | 3,406 | 0.19 | 210 | 198 | 26,216 | -1,048 | 0.46 | 602 | 592 | 0.12 |
| Parents' income in the past year (\$) | 27,121 | 3,440 | 0.21 | 193 | 180 | 29,999 | -1,073 | 0.50 | 489 | 495 | 0.15 |
| Either parent is covered by health insurance | 87.7 | 1.5 | 0.62 | 205 | 198 | 85.1 | -0.7 | 0.72 | 596 | 592 | 0.54 |

Source: PROMISE five-year surveys.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of CaPROMISE on outcomes derived from survey data. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. We weighted statistics to adjust for survey nonresponse and sample design. We defined before the pandemic as before March 13, 2020.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Impact estimates for subgroups are significantly different from each other (p-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size.

C. Findings from the benefit-cost analysis

In this section, we present findings from the benefit-cost analysis of CaPROMISE. First, we present benefits and costs estimated through the main model. Second, we present the results of sensitivity analyses. Third, we present the projected accrual of net benefits beyond the five-year evaluation period.

1. Benefit-cost estimates

Appendix Table E.26 provides estimates of the program's benefits and indirect costs, the costs of program components, and benefit-cost statistics estimated using the main model as described in Appendix B.

| | | Fe | deral govern | iment | State and local | |
|---|---|------------|--------------|---|--|--|
| Benefit or cost measure | PROMISE youth and families (A) | SSA (B) | ED (C) | Federal government as a whole ^a (D) | government, including PROMISE partners (E) | All key stakeholders (F = A + D + E) |
| Panel 1: Quantitative outcome measures | | | | | | |
| Youth outcomes | | | | | | |
| Earnings | 982 | 0 | 0 | 0 | 0 | 982 |
| Fringe benefits | 249 | 0 | 0 | 0 | 0 | 249 |
| Income, payroll, and sales taxes | -189 | 122 | 0 | 156 | 33 | 0 |
| Work-related and child care costs | -116 | 0 | 0 | 0 | 0 | -116 |
| SSI benefits | 891 | -891 | 0 | -891 | 0 | 0 |
| OASDI benefits | -181 | 181 | 0 | 181 | 0 | 0 |
| SSI administrative costs | 0 | -70 | 0 | -70 | 0 | -70 |
| SSDI administrative costs | 0 | 3 | 0 | 3 | 0 | 3 |
| Medicaid and Medicare expenditures and administrative costs | -329 | 0 | 0 | 290 | 67 | 28 |
| Education-related costs | 4 | 0 | 0 | 0 | 0 | 4 |
| Incarceration | 0 | 0 | 0 | 0 | 152 | 152 |
| Parent outcomes | · · | | | | | |
| Earnings | 3,001 | 0 | 0 | 0 | 0 | 3,001 |
| Fringe benefits | 760 | 0 | 0 | 0 | 0 | 760 |
| Income, payroll, and sales taxes | -598 | 372 | 0 | 477 | 121 | 0 |
| Work-related and child care costs | -519 | 0 | 0 | 0 | 0 | -519 |
| SSI benefits | -416 | 416 | 0 | 416 | 0 | 0 |
| OASDI benefits | -133 | 133 | 0 | 133 | 0 | 0 |
| SSI administrative costs | 0 | 32 | 0 | 32 | 0 | 32 |
| SSDI administrative costs | 0 | 3 | 0 | 3 | 0 | 3 |
| Medicaid and Medicare expenditures and administrative costs | 1,034 | 0 | 0 | -984 | -137 | -88 |

Appendix Table E.26. CaPROMISE: Benefits and costs (\$) over the five-year evaluation time period, by accounting perspective

| | | Fe | ederal govern | ment | State and local | All key stakeholders (F = A + D + E) |
|--|---|------------|---------------|---|--|--|
| Benefit or cost measure | PROMISE youth and families (A) | SSA (B) | ED (C) | Federal government as a whole ^a (D) | government, including PROMISE partners (E) | |
| Household outcomes | | | | | | |
| TANF, SNAP, housing assistance, and related administrative costs | -255 | 0 | 0 | 496 | -202 | 38 |
| Total | 4,183 | 301 | 0 | 242 | 33 | 4,458 |
| Panel 2: Costs of program components | | | | | | |
| Program administration | 0 | 0 | -11,367 | -11,367 | 0 | -11,367 |
| Employment services | 0 | 0 | -5,633 | -5,633 | -461 | -6,093 |
| Education services | 0 | 0 | -1,928 | -1,928 | 0 | -1,928 |
| Case management services | 0 | 0 | -6,761 | -6,761 | 0 | -6,761 |
| Financial and benefits counseling | 0 | 0 | -1,133 | -1,133 | 0 | -1,133 |
| Parent training and information services | 0 | 0 | -2,275 | -2,275 | 0 | -2,275 |
| Youth self-determination services | 0 | 0 | -2,040 | -2,040 | 0 | -2,040 |
| Total | 0 | 0 | -31,138 | -31,138 | -461 | -31,598 |
| Panel 3: Benefit-cost statistics | | | | | | |
| Net benefits (benefits minus costs) | 4,183 | 301 | -31,138 | -30,896 | -427 | -27,140 |
| Net benefit ratio ^b | n.a. | n.a. | 0 | 0.01 | 0.07 | 0.14 |

Source: See Appendix Table B.4 for details on the sources and imputation methods for each benefit or cost component.

Note: To construct each component of the benefit-cost analysis, we used the estimated impacts on key outcomes (regardless of whether they were statistically significant), or imputation methods that combined the impact estimates with data from external sources. To construct program costs, we used data from program administrative records, financial documents, staff activity logs, and staff interviews. All benefits and costs are dollars per treatment group family over five years and are inflation-adjusted to 2020 dollars and discounted to 2020 present value.

^a The perspective of the federal government as a whole incorporates the perspectives of SSA, ED, and other federal agencies that might experience benefits or costs because of PROMISE.

^b Calculated for all key stakeholders as the sum of all quantitative measures in Panel 1, which include benefits and indirect costs, divided by the program costs.

ED = U.S. Department of Education; SNAP = Supplemental Nutrition Assistance Program; SSA = Social Security Administration; SSDI = Social Security Disability Insurance; SSI = Supplemental Security Income; TANF = Temporary Assistance for Needy Families.

2. Sensitivity analyses

As noted in Appendix B, we conducted three analyses to assess the sensitivity of the benefit-cost estimates to changes in the underlying assumptions and methodological choices. First, we sampled with replacement from the study population 1,000 times to create 1,000 random samples with an equal size as the true sample. For each sample, we calculated the net benefit for each accounting perspective. In Appendix Table E.27, we show the sampling distribution of the net benefit estimates from the perspective of the different stakeholders. The estimated net benefits for all key stakeholders were negative across the entire distribution, suggesting that the main conclusion (that CaPROMISE did not generate net benefit estimate from the perspective of all stakeholders (-\$27,140) ranged from -\$34,162 (the 2.5th percentile) to -\$19,509 (the 97.5th percentile).

Second, we recalculated the net benefits using only the impact estimates that were significant at the 10 percent level (Appendix Table E.28). From the perspective of all stakeholders, the net benefit was within 15 percent of the estimate from the main analysis and continued to be negative and sizeable.

Third, we considered whether the benefit-cost results were sensitive to the assumptions we used to estimate some of the individual components. In Appendix Table E.28, we show the estimates of net benefits when we applied the alternative assumptions. From the perspective of all key stakeholders, net benefits under the alternative assumptions were always within 5 percent of the net benefits estimated under the main analysis, and net benefits were sizeable and negative under each scenario. However, net benefits for CaPROMISE youth and families and for state and local governments were sensitive to the alternative assumptions. Notably, net benefits for CaPROMISE youth and families ranged from \$2,852 to \$4,366 across alternative assumption scenarios. Net benefits for state and local governments do not vary when using alternative assumptions except when assuming higher incarceration costs.

| | | | Federal governm | State and local | | |
|-------------------|-------------------------------|--------|-----------------|--------------------------------------|---|-------------------------|
| Estimate | PROMISE youth and families | SSA | ED | Federal government as a wholeª | government, including PROMISE partners | All key stakeholders |
| Original estimate | 4,183 | 301 | -31,138 | -30,896 | -427 | -27,140 |
| Min | -7,774 | -3,608 | -31,257 | -39,060 | -4,531 | -39,224 |
| 2.5th percentile | -3,845 | -1,614 | -31,218 | -36,012 | -2,771 | -34,162 |
| 25th percentile | 1,412 | -401 | -31,164 | -32,617 | -1,200 | -29,375 |
| 50th percentile | 4,045 | 330 | -31,136 | -30,803 | -337 | -27,190 |
| 75th percentile | 6,526 | 1,032 | -31,109 | -28,928 | 526 | -24,862 |
| 97.5th percentile | 11,258 | 2,335 | -31,053 | -25,122 | 1,960 | -19,509 |
| Max | 16,738 | 3,484 | -30,996 | -22,932 | 3,426 | -16,792 |

Appendix Table E.27. CaPROMISE: Sensitivity of net benefits to sampling variability

Source: See Appendix Table B.4 for details on the sources and methods for the net-benefit calculation.

Note: We quantified uncertainty in the estimated net benefits by constructing non-parametric bootstrap confidence intervals. We sampled with replacement from the study population 1,000 times and then re-estimated all cost and benefit parameters for these 1,000 random samples. We then calculated the net benefits for each bootstrap sample. The 2.5th percentile and 97.5th percentile of the resulting values represent the 95 percent confidence interval of the net benefit estimate.

| | | F | ederal governr | nent | State and local | |
|---|--------------------------------------|------------|----------------|---|--|--|
| Assumption | PROMISE youth and families (A) | SSA (B) | ED (C) | Federal government as a whole ^a (D) | government, including PROMISE partners (E) | All key stakeholders (F = A + D + E) |
| Main benefit-cost analysis model | 4,183 | 301 | -31,138 | -30,896 | -427 | -27,140 |
| Excluded fringe benefits | 3,175 | 301 | -31,138 | -30,896 | -427 | -28,148 |
| Excluded education tuition costs | 4,181 | 301 | -31,138 | -30,896 | -427 | -27,142 |
| Used higher incarceration costs ^b | 4,183 | 301 | -31,138 | -30,896 | -222 | -26,935 |
| Used a fixed work-related cost measure (non-child care) ^c | 2,852 | 301 | -31,138 | -30,896 | -427 | -28,471 |
| Used a low discount rate ^d | 3,980 | 274 | -31,138 | -30,895 | -422 | -27,338 |
| Used a high discount rate ^d | 4,366 | 326 | -31,138 | -30,896 | -432 | -26,961 |
| Used only statistically significant estimates in the calculation ^e | 103 | -489 | -31,138 | -30,799 | -448 | -31,144 |

Appendix Table E.28. CaPROMISE: Sensitivity of net benefits to different assumptions in the benefit cost analysis

Source: See Appendix Table B.4 for details on the sources and methods for the net-benefit calculation.

Note: The inputs for the benefit-cost analysis are based on (1) program costs drawn from program administrative records, financial documents, staff activity logs and staff interviews (2) the estimated impacts on key outcomes (regardless of whether they were statistically significant), or (3) imputation methods that combined the impact estimates with data from external sources. All benefits and costs are dollars per treatment group family over five years and are inflation-adjusted to 2020 dollars and discounted to 2020 present value.

^a The perspective of the federal government as a whole incorporates the perspectives of SSA, ED, and other federal agencies that might experience benefits or costs because of PROMISE.

^b We changed incarceration costs from the national average (\$97/day) to the highest state-specific cost (California, \$228/day).

^c We changed work-related costs from a multiplier of 10.6% to a fixed cost of \$51 dollars per week.

^d The low discount rate is 1 percent, and the high discount rate is 5 percent.

^e This sensitivity analysis assigns a value of zero to impact estimates to impacts estimates that were not were significant at the .10 level. (The main analysis and all other sensitivity tests include impact estimates regardless of whether they were statistically significant).

ED = U.S. Department of Education; SSA = Social Security Administration.

3. Long-term forecast

We projected the accrual of net benefits over 10 and 20 years after RA to assess how costs and benefits may change after the five-year evaluation period. We projected the net benefits under three scenarios that varied in their potential returns to youth's education: high returns, diminishing returns, and no returns (Appendix Table E.29). Because CaPROMISE caused a small and non-significant decrease in youth's years of education (-0.06 years), the scenario assuming "no returns" to education generates the highest net benefit estimate and the scenario assuming "high returns" to education generates the lowest estimate. Across all scenarios, the forecasted net benefits 10 and 20 years after RA are higher than the net benefits estimated at five years after RA. This is because treatment group youth had higher earnings than control group youth in the fourth and fifth years after RA, an advantage that gets compounded in the forecast as earnings grow by an annual percentage over time.

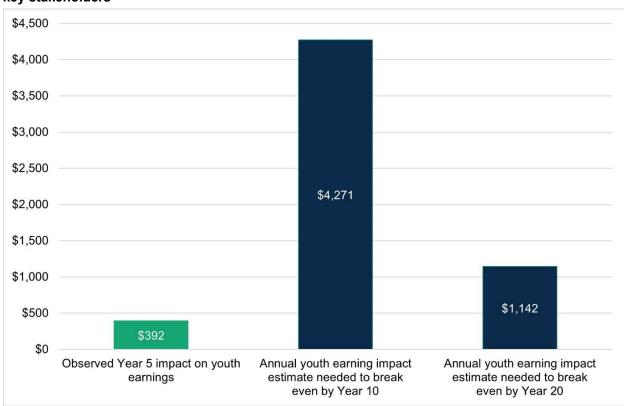
We also calculated how large the impact on youth earnings would have to be, assuming all other impacts were the same as in the five-year analysis, for CaPROMISE's benefits to equal the costs in 10 and 20 years after RA (Appendix Figure E.1). The program would need to generate an average annual impact on youth earnings of \$4,271 per year to be cost neutral 10 years after RA and \$1,140 per year to be cost neutral 20 years after RA. The point estimate of the program's impact on youth earnings in the fifth year after RA was \$392, so it would need to generate an annual impact about three times as large to achieve cost neutrality 20 years after RA.

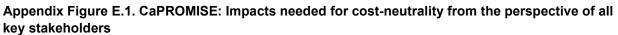
| Appendix Table E.29. CaPROMISE: Net benefits (\$) to all stakeholders forecast over 10 and 20 years after RA, under different |
|---|
| assumptions about the returns to education and using the upper and lower bound of the earnings impact |

| | | F | ederal governme | ent | State and local | |
|--------------------------------------|---|------------|-----------------|---|---|---|
| Assumption | PROMISE youth and families (A) | SSA (B) | ED (C) | Federal government as a whole ^a (D) | government, including PROMISE partners (E) | All key stakeholders (F = A + D + E) |
| 10-year forecast | | | | | | |
| Returns to education | | | | | | |
| Persistent high return to education | 8,492 | 434 | -31,138 | -30,003 | -475 | -21,985 |
| Diminishing return to education | 8,558 | 460 | -31,138 | -29,974 | -472 | -21,887 |
| No return to education | 8,600 | 476 | -31,138 | -29,956 | -470 | -21,826 |
| Confidence interval bounds | | | | | | |
| Using upper bound of earnings impact | 12,719 | 1,311 | -31,138 | -28,959 | -313 | -16,552 |
| Using lower bound of earnings impact | 6,098 | -87 | -31,138 | -30,619 | -567 | -25,087 |
| 20-year forecast | | | | | | |
| Returns to education | | | | | | |
| Persistent high return to education | 15,771 | 1,397 | -31,138 | -27,761 | -523 | -12,514 |
| Diminishing return to education | 16,108 | 1,490 | -31,138 | -27,654 | -509 | -12,056 |
| No return to education | 16,150 | 1,506 | -31,138 | -27,637 | -508 | -11,994 |
| Confidence interval bounds | | | | | | |
| Using upper bound of earnings impact | 29,885 | 3,963 | -31,138 | -24,649 | 6 | 5,241 |
| Using lower bound of earnings impact | 7,968 | -334 | -31,138 | -29,804 | -824 | -22,661 |

Source: See Appendix Table B.4 for details on the sources and methods for the net-benefit calculation.

Note: To construct each component of the benefit-cost analysis, we used either (1) the impact estimates themselves (regardless of whether they were statistically significant), or (2) imputation methods to combine the impact estimates with data from external sources. To construct program costs, we used data from program administrative records, financial documents, staff activity logs, and staff interviews. All benefits and costs are dollars per treatment group family and are inflation-adjusted to 2020 dollars and discounted to 2020 present value. The 10-year and 20-year projections are based on costs observed from the five-year evaluation period and a forecasting scenario for the five and fifteen following years, respectively, assuming that earnings grow over time. Additionally, the persistent high return to education forecasting scenario assumes a return to education of 10 percent per additional year of schooling; the diminishing returns to education scenario assumes the returns to education are 10 percent in Year 6 and then diminish over time to zero percent in Year 10; and the no return to education scenario assumes no increase over time in the return to education.





Note: The first bar shows the estimated impact on youth earnings in Year 5 after RA. The second bar shows the impact on youth earnings needed every year between Years 6 and 10 after RA for the program to be cost neutral 10 years after RA, assuming other benefits and costs are held constant between Years 6 and 10 after RA. The third bar shows the impact on youth earnings needed every year between Years 6 and 20 after RA for the program to be cost neutral 20 years after RA, assuming other benefits and costs are held constant between Years 6 and 20 after RA for the program to be cost neutral 20 years after RA, assuming other benefits and costs are held constant between Years 6 and 20 after RA for the program to be cost neutral 20 years after RA, assuming other benefits and costs are held constant between Years 6 and 20 after RA. All values are per treatment group family, inflation-adjusted to 2020 dollars, and discounted to 2020 present value.

CaPROMISE = California PROMISE; RA = random assignment.

Appendix F. MD PROMISE Impacts, Benefits, and Costs

A. Enrollees and analysis samples

The full research sample for the evaluation of MD PROMISE consists of the 1,866 youth who enrolled in the evaluation and were randomly assigned, as well as their families. To assess the extent to which the findings might reflect the baseline characteristics of various samples, we compared differences between (1) the treatment and control groups, (2) survey respondents and nonrespondents, and (3) self-reporting and proxy youth respondents.

1. Differences between the treatment and control groups

We compared 25 baseline characteristics of the treatment and control groups for four samples: all youth survey respondents, all parent survey respondents, all enrollees, and all proxy youth respondents (Appendix Tables F.1–F.4). The similarity of samples across the characteristics examined suggest that RA created treatment and control groups that were equivalent in their baseline characteristics. Although we found statistically significant differences for a few characteristics, they are not concerning for two reasons. First, with a significance level of 10 percent, we expect to reject the null hypothesis that the groups were equivalent for 1 out of every 10 characteristics by chance alone, even when the two groups in fact had no underlying differences. Second, we included characteristics that were significantly different at baseline as covariates in our regression-adjusted impact analyses, allowing us to control for the observed differences.

Appendix Table F.1. MD PROMISE: Baseline characteristics of youth survey respondents (percentages, unless otherwise noted)

| Deseline ob everte vietie | All | Treatment | Control | Difference | |
|--|------|-----------|---------|------------|-----------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | <i>p-</i> value |
| Demographic characteristics | | | | | |
| Youth is female | 35.0 | 33.2 | 36.8 | -3.5 | 0.16 |
| Youth age at RA | | | | | 0.52 |
| 14 | 26.1 | 24.8 | 27.4 | -2.6 | |
| 15 | 26.4 | 27.1 | 25.7 | 1.4 | |
| 16 | 47.5 | 48.1 | 46.9 | 1.3 | |
| Average age at RA | 15.8 | 15.8 | 15.7 | 0.0 | 0.38 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 97.1 | 97.1 | 97.0 | 0.1 | 0.88 |
| Prefers English for spoken language | 96.8 | 96.9 | 96.7 | 0.1 | 0.90 |
| Youth living arrangement at SSI application | | | | | 0.91 |
| In parents' household | 86.6 | 86.8 | 86.3 | 0.5 | |
| Own household or alone | 10.0 | 9.7 | 10.4 | -0.6 | |
| Another household and receiving support | 3.4 | 3.5 | 3.3 | 0.1 | |
| Youth race and ethnicity | | | | | 0.83 |
| Non-Hispanic White | 15.1 | 15.4 | 14.8 | 0.6 | |
| Non-Hispanic Black | 49.8 | 48.3 | 51.3 | -3.0 | |
| Hispanic | 6.7 | 7.3 | 6.1 | 1.2 | |
| Non-Hispanic American Indian | 1.5 | 1.6 | 1.5 | 0.1 | |
| Non-Hispanic other or mixed race | 6.3 | 6.8 | 5.8 | 1.0 | |
| Missing | 20.6 | 20.7 | 20.5 | 0.2 | |
| Enrolling parent age at RA | 43.3 | 43.2 | 43.4 | -0.2 | 0.66 |
| Parent race and ethnicity | | | | | 0.58 |
| Non-Hispanic White | 19.6 | 19.5 | 19.8 | -0.3 | |
| Non-Hispanic Black | 52.6 | 51.0 | 54.2 | -3.2 | |
| Hispanic | 5.8 | 6.2 | 5.3 | 0.9 | |
| Non-Hispanic American Indian | 1.0 | 1.0 | 0.9 | 0.1 | |
| Non-Hispanic other or mixed race | 5.0 | 5.9 | 4.1 | 1.8 | |
| Missing | 16.1 | 16.4 | 15.8 | 0.6 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.90 |
| Intellectual or developmental disability | 37.3 | 37.8 | 36.7 | 1.1 | |
| Speech, hearing, or visual impairment | 1.7 | 1.8 | 1.6 | 0.2 | |
| Physical disability | 11.1 | 11.2 | 11.0 | 0.1 | |
| Other mental impairment | 47.1 | 46.8 | 47.5 | -0.7 | |
| Other or unknown disability | 2.8 | 2.4 | 3.2 | -0.8 | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 94.6 | 94.9 | 94.3 | 0.6 | 0.60 |
| Received OASDI | 11.1 | 11.8 | 10.5 | 1.4 | 0.41 |
| Years between youth's earliest SSI eligibility and RA | 8.3 | 8.3 | 8.4 | -0.1 | 0.81 |
| Youth age at most recent SSI application | 7.9 | 8.0 | 7.8 | 0.2 | 0.28 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,238 | 7,359 | 7,116 | 243* | 0.05 |
| OASDI | 336 | 324 | 348 | -24 | 0.70 |
| Total SSI and OASDI | 7,573 | 7,683 | 7,464 | 219* | 0.05 |
| Household had multiple SSI-eligible children | 17.7 | 16.9 | 18.4 | -1.5 | 0.46 |
| Enrolling parent provided a valid SSN at RA | 58.8 | 60.1 | 57.4 | 2.7 | 0.30 |
| Parents included in the administrative data | | | | † | 0.07 |
| None | 6.0 | 5.1 | 6.9 | -1.8 | |
| One parent | 69.0 | 67.7 | 70.3 | -2.6 | |
| Two parents | 25.0 | 27.3 | 22.8 | 4.5 | |
| Parent SSA payment status at RA | | | | | 0.11 |
| Any parent received SSI only | 7.4 | 8.0 | 6.7 | 1.3 | |
| Any parent received OASDI only | 8.2 | 9.6 | 6.8 | 2.8 | |
| Any parent received both SSI and OASDI | 4.7 | 5.1 | 4.3 | 0.8 | |
| No parent received any SSA payments | 73.7 | 72.1 | 75.2 | -3.1 | |
| No parent was included in the SSA data analyses | 6.0 | 5.1 | 6.9 | -1.8 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 4.3 | 4.4 | 4.1 | 0.3 | 0.81 |
| Youth earnings in the calendar year before RA (\$) | 38 | 46 | 31 | 15 | 0.20 |
| Parent had earnings in the calendar year before RA | 68.1 | 69.1 | 67.0 | 2.2 | 0.39 |
| Parent earnings in the calendar year before RA (\$) | 16,265 | 15,686 | 16,852 | -1,165 | 0.25 |
| Number of youth | 1,486 | 738 | 748 | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes all youth who completed the PROMISE five-year youth survey. We weighted the statistics to adjust for survey nonresponse. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

Appendix Table F.2. MD PROMISE: Baseline characteristics of parent survey respondents (percentages, unless otherwise noted)

| | All | Treatment | Control | Difference | |
|--|------|-----------|---------|------------|-----------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | <i>p</i> -value |
| Demographic characteristics | | | | | |
| Youth is female | 35.1 | 33.2 | 37.1 | -3.9 | 0.13 |
| Youth age at RA | | | | | 0.45 |
| 14 | 26.2 | 24.7 | 27.7 | -3.0 | |
| 15 | 26.6 | 27.0 | 26.2 | 0.9 | |
| 16 | 47.2 | 48.2 | 46.2 | 2.1 | |
| Average age at RA | 15.8 | 15.8 | 15.7 | 0.1 | 0.25 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 96.7 | 97.0 | 96.4 | 0.6 | 0.54 |
| Prefers English for spoken language | 96.4 | 96.7 | 96.0 | 0.7 | 0.45 |
| Youth living arrangement at SSI application | | | | | 0.79 |
| In parents' household | 86.8 | 87.4 | 86.2 | 1.2 | |
| Own household or alone | 9.8 | 9.4 | 10.2 | -0.7 | |
| Another household and receiving support | 3.4 | 3.2 | 3.6 | -0.5 | |
| Youth race and ethnicity | | | | | 0.83 |
| Non-Hispanic White | 14.6 | 14.4 | 14.7 | -0.3 | |
| Non-Hispanic Black | 51.1 | 49.5 | 52.6 | -3.1 | |
| Hispanic | 7.1 | 7.4 | 6.8 | 0.5 | |
| Non-Hispanic American Indian | 1.5 | 1.5 | 1.6 | -0.1 | |
| Non-Hispanic other or mixed race | 6.2 | 6.6 | 5.8 | 0.8 | |
| Missing | 19.6 | 20.7 | 18.5 | 2.2 | |
| Enrolling parent age at RA | 43.2 | 43.0 | 43.4 | -0.4 | 0.43 |
| Parent race and ethnicity | | | | | 0.55 |
| Non-Hispanic White | 19.3 | 18.6 | 19.9 | -1.3 | |
| Non-Hispanic Black | 52.2 | 51.0 | 53.5 | -2.5 | |
| Hispanic | 6.0 | 6.1 | 5.8 | 0.2 | |
| Non-Hispanic American Indian | 0.8 | 0.8 | 0.9 | -0.2 | |
| Non-Hispanic other or mixed race | 4.8 | 5.7 | 3.9 | 1.8 | |
| Missing | 16.9 | 17.8 | 15.9 | 1.9 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.83 |
| Intellectual or developmental disability | 36.7 | 37.2 | 36.3 | 0.9 | |
| Speech, hearing, or visual impairment | 1.6 | 1.6 | 1.6 | 0.0 | |
| Physical disability | 11.6 | 11.4 | 11.7 | -0.4 | |
| Other mental impairment | 47.3 | 47.6 | 47.1 | 0.5 | |
| Other or unknown disability | 2.8 | 2.2 | 3.3 | -1.0 | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 94.5 | 94.9 | 94.1 | 0.7 | 0.56 |
| Received OASDI | 10.7 | 11.0 | 10.3 | 0.7 | 0.66 |
| Years between youth's earliest SSI eligibility and RA | 8.4 | 8.3 | 8.4 | -0.1 | 0.61 |
| Youth age at most recent SSI application | 7.9 | 8.0 | 7.8 | 0.2 | 0.35 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,217 | 7,349 | 7,086 | 263** | 0.04 |
| OASDI | 315 | 297 | 333 | -35 | 0.56 |
| Total SSI and OASDI | 7,532 | 7,646 | 7,419 | 227* | 0.05 |
| Household had multiple SSI-eligible children | 17.4 | 16.9 | 18.0 | -1.1 | 0.61 |
| Enrolling parent provided a valid SSN at RA | 58.2 | 59.8 | 56.7 | 3.1 | 0.24 |
| Parents included in the administrative data | | | | † | 0.07 |
| None | 6.1 | 4.8 | 7.4 | -2.6 | |
| One parent | 68.6 | 68.1 | 69.0 | -0.9 | |
| Two parents | 25.3 | 27.0 | 23.6 | 3.5 | |
| Parent SSA payment status at RA | | | | † | 0.06 |
| Any parent received SSI only | 6.8 | 7.5 | 6.1 | 1.5 | |
| Any parent received OASDI only | 8.0 | 9.5 | 6.6 | 2.9 | |
| Any parent received both SSI and OASDI | 4.7 | 5.0 | 4.5 | 0.5 | |
| No parent received any SSA payments | 74.3 | 73.1 | 75.4 | -2.3 | |
| No parent was included in the SSA data analyses | 6.1 | 4.8 | 7.4 | -2.6 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 4.5 | 4.7 | 4.3 | 0.4 | 0.72 |
| Youth earnings in the calendar year before RA (\$) | 41 | 46 | 35 | 11 | 0.38 |
| Parent had earnings in the calendar year before RA | 69.7 | 70.6 | 68.7 | 1.9 | 0.44 |
| Parent earnings in the calendar year before RA (\$) | 16,771 | 16,298 | 17,255 | -957 | 0.36 |
| Number of youth | 1,452 | 730 | 722 | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes all youth whose parent completed the PROMISE five-year youth survey. We weighted the statistics to adjust for survey nonresponse. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

Appendix Table F.3. MD PROMISE: Baseline characteristics of all youth enrollees (percentages, unless otherwise noted)

| | All | Treatment | Control | Difference | |
|--|------|-----------|---------|------------|-----------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | <i>p-</i> value |
| Demographic characteristics | | | | | |
| Youth is female | 34.7 | 32.8 | 36.6 | -3.8* | 0.09 |
| Youth age at RA | | | | | 0.44 |
| 14 | 26.0 | 24.8 | 27.2 | -2.4 | |
| 15 | 25.9 | 25.9 | 25.9 | -0.1 | |
| 16 | 48.1 | 49.4 | 46.9 | 2.5 | |
| Average age at RA | 15.8 | 15.8 | 15.7 | 0.1 | 0.19 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 96.8 | 96.8 | 96.9 | -0.1 | 0.91 |
| Prefers English for spoken language | 96.6 | 96.6 | 96.6 | 0.0 | 0.98 |
| Youth living arrangement at SSI application | | | | | 0.96 |
| In parents' household | 86.7 | 86.4 | 86.9 | -0.5 | |
| Own household or alone | 10.2 | 10.4 | 10.0 | 0.4 | |
| Another household and receiving support | 3.2 | 3.2 | 3.1 | 0.1 | |
| Youth race and ethnicity | | | | | 0.56 |
| Non-Hispanic White | 15.1 | 15.2 | 14.9 | 0.2 | |
| Non-Hispanic Black | 49.0 | 48.3 | 49.8 | -1.5 | |
| Hispanic | 6.9 | 7.9 | 5.9 | 2.0 | |
| Non-Hispanic American Indian | 1.4 | 1.3 | 1.6 | -0.3 | |
| Non-Hispanic other or mixed race | 6.2 | 6.5 | 5.8 | 0.7 | |
| Missing | 21.4 | 20.8 | 21.9 | -1.1 | |
| Enrolling parent age at RA | 43.0 | 43.0 | 43.1 | -0.1 | 0.78 |
| Parent race and ethnicity | | | | | 0.79 |
| Non-Hispanic White | 19.6 | 19.0 | 20.1 | -1.1 | |
| Non-Hispanic Black | 51.2 | 50.7 | 51.6 | -0.9 | |
| Hispanic | 5.8 | 6.4 | 5.3 | 1.1 | |
| Non-Hispanic American Indian | 1.0 | 1.1 | 1.0 | 0.1 | |
| Non-Hispanic other or mixed race | 4.3 | 4.8 | 3.9 | 0.9 | |
| Missing | 18.1 | 17.9 | 18.2 | -0.2 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.90 |
| Intellectual or developmental disability | 36.5 | 36.5 | 36.6 | -0.0 | |
| Speech, hearing, or visual impairment | 1.4 | 1.5 | 1.4 | 0.1 | |
| Physical disability | 11.3 | 11.3 | 11.3 | 0.0 | |
| Other mental impairment | 48.0 | 48.3 | 47.6 | 0.7 | |
| Other or unknown disability | 2.7 | 2.4 | 3.1 | -0.8 | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 94.6 | 95.0 | 94.3 | 0.7 | 0.52 |
| Received OASDI | 11.0 | 11.8 | 10.2 | 1.5 | 0.29 |
| Years between youth's earliest SSI eligibility and RA | 8.3 | 8.2 | 8.4 | -0.1 | 0.56 |
| Youth age at most recent SSI application | 8.0 | 8.1 | 7.8 | 0.3 | 0.17 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,248 | 7,316 | 7,178 | 138 | 0.20 |
| OASDI | 339 | 347 | 330 | 18 | 0.75 |
| Total SSI and OASDI | 7,586 | 7,664 | 7,508 | 156 | 0.11 |
| Household had multiple SSI-eligible children | 17.3 | 17.2 | 17.4 | -0.2 | 0.92 |
| Enrolling parent provided a valid SSN at RA | 58.5 | 59.2 | 57.8 | 1.3 | 0.56 |
| Parents included in the administrative data | | | | | 0.25 |
| None | 6.1 | 5.7 | 6.5 | -0.8 | |
| One parent | 69.2 | 68.1 | 70.4 | -2.4 | |
| Two parents | 24.7 | 26.3 | 23.1 | 3.2 | |
| Parent SSA payment status at RA | | | | † | 0.09 |
| Any parent received SSI only | 7.6 | 8.4 | 6.7 | 1.8 | |
| Any parent received OASDI only | 8.0 | 9.2 | 6.9 | 2.3 | |
| Any parent received both SSI and OASDI | 4.4 | 5.0 | 3.9 | 1.2 | |
| No parent received any SSA payments | 73.9 | 71.7 | 76.1 | -4.4 | |
| No parent was included in the SSA data analyses | 6.1 | 5.7 | 6.5 | -0.8 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 4.4 | 4.5 | 4.3 | 0.2 | 0.84 |
| Youth earnings in the calendar year before RA (\$) | 41 | 44 | 37 | 7 | 0.50 |
| Parent had earnings in the calendar year before RA | 68.0 | 69.0 | 67.0 | 2.0 | 0.38 |
| Parent earnings in the calendar year before RA (\$) | 16,222 | 15,797 | 16,653 | -856 | 0.34 |
| Number of youth | 1,866 | 936 | 930 | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes all youth who enrolled in PROMISE. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

Appendix Table F.4. MD PROMISE: Baseline characteristics of proxy youth survey respondents (percentages, unless otherwise noted)

| | All | Treatment | Control | Difference | | |
|--|------|-----------|---------|------------|-----------------|--|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | <i>p</i> -value | |
| Demographic characteristics | | | | | | |
| Youth is female | 26.9 | 26.7 | 27.2 | -0.5 | 0.90 | |
| Youth age at RA | | | | | 0.83 | |
| 14 | 29.0 | 28.7 | 29.2 | -0.5 | | |
| 15 | 28.3 | 29.5 | 27.1 | 2.4 | | |
| 16 | 42.7 | 41.7 | 43.7 | -1.9 | | |
| Average age at RA | 15.7 | 15.7 | 15.7 | -0.0 | 0.64 | |
| Youth language preference at SSI application | | | | | | |
| Prefers English for written language | 95.8 | 96.7 | 94.9 | 1.9 | 0.28 | |
| Prefers English for spoken language | 95.6 | 96.7 | 94.5 | 2.2 | 0.20 | |
| Youth living arrangement at SSI application | | | | | 0.18 | |
| In parents' household | 88.4 | 91.0 | 85.9 | 5.1 | | |
| Own household or alone | 9.2 | 7.6 | 10.9 | -3.3 | | |
| Another household and receiving support | 2.4 | 1.4 | 3.2 | -1.8 | | |
| Youth race and ethnicity | | | | | 0.49 | |
| Non-Hispanic White | 17.5 | 17.6 | 17.3 | 0.3 | | |
| Non-Hispanic Black | 43.7 | 41.3 | 45.9 | -4.6 | | |
| Hispanic | 6.4 | 8.1 | 4.8 | 3.2 | | |
| Non-Hispanic American Indian | 1.8 | 1.1 | 2.5 | -1.3 | | |
| Non-Hispanic other or mixed race | 5.5 | 6.1 | 4.9 | 1.2 | | |
| Missing | 25.2 | 25.8 | 24.6 | 1.2 | | |
| Enrolling parent age at RA | 43.1 | 42.9 | 43.3 | -0.4 | 0.58 | |
| Parent race and ethnicity | | | | | 0.21 | |
| Non-Hispanic White | 21.3 | 21.6 | 21.1 | 0.5 | | |
| Non-Hispanic Black | 47.2 | 43.6 | 50.7 | -7.1 | | |
| Hispanic | 5.8 | 7.1 | 4.5 | 2.6 | | |
| Non-Hispanic American Indian | 0.7 | 0.4 | 1.0 | -0.7 | | |
| Non-Hispanic other or mixed race | 5.4 | 7.4 | 3.6 | 3.8 | | |
| Missing | 19.5 | 19.9 | 19.1 | 0.9 | | |
| Disability | | | | | | |
| Youth primary impairment | | | | | 0.90 | |
| Intellectual or developmental disability | 39.3 | 41.2 | 37.5 | 3.8 | | |
| Speech, hearing, or visual impairment | 1.0 | 0.7 | 1.2 | -0.5 | | |
| Physical disability | 10.2 | 9.7 | 10.6 | -1.0 | | |
| Other mental impairment | 46.3 | 45.3 | 47.3 | -2.0 | | |
| Other or unknown disability | 3.2 | 3.1 | 3.4 | -0.3 | | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|---|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 94.8 | 95.9 | 93.8 | 2.1 | 0.29 |
| Received OASDI | 9.5 | 9.5 | 9.4 | 0.1 | 0.97 |
| Years between youth's earliest SSI eligibility and RA | 8.3 | 8.0 | 8.6 | -0.6 | 0.13 |
| Youth age at most recent SSI application | 7.7 | 8.0 | 7.4 | 0.5 | 0.16 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,162 | 7,313 | 7,016 | 297 | 0.16 |
| OASDI | 254 | 213 | 294 | -81 | 0.37 |
| Total SSI and OASDI | 7,416 | 7,526 | 7,310 | 216 | 0.28 |
| Household had multiple SSI-eligible children | 16.3 | 16.9 | 15.7 | 1.2 | 0.73 |
| Enrolling parent provided a valid SSN at RA | 54.6 | 59.1 | 50.2 | 8.9** | 0.05 |
| Parents included in the administrative data | | | | † | 0.08 |
| None | 7.0 | 4.5 | 9.4 | -4.9 | |
| One parent | 63.1 | 63.2 | 63.1 | 0.1 | |
| Two parents | 29.8 | 32.2 | 27.5 | 4.7 | |
| Parent SSA payment status at RA | | | | | 0.11 |
| Any parent received SSI only | 6.1 | 6.8 | 5.5 | 1.4 | |
| Any parent received OASDI only | 7.8 | 9.7 | 6.0 | 3.7 | |
| Any parent received both SSI and OASDI | 3.6 | 4.4 | 2.9 | 1.5 | |
| No parent received any SSA payments | 75.4 | 74.5 | 76.3 | -1.7 | |
| No parent was included in the SSA data analyses | 7.0 | 4.5 | 9.4 | -4.9 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 3.8 | 3.3 | 4.2 | -0.9 | 0.60 |
| Youth earnings in the calendar year before RA (\$) | 32 | 36 | 27 | 9 | 0.62 |
| Parent had earnings in the calendar year before RA | 70.9 | 69.3 | 72.6 | -3.3 | 0.43 |
| Parent earnings in the calendar year before RA (\$) | 18,386 | 17,257 | 19,529 | -2,272 | 0.24 |
| Number of youth | 513 | 250 | 263 | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes all youth who completed the PROMISE five-year youth survey by proxy. We weighted the statistics to adjust for survey nonresponse. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

2. Differences between survey respondents and nonrespondents

We compared youth and parent survey respondents with nonrespondents across 25 baseline characteristics to assess the extent to which survey nonresponse might limit generalizability of the impact findings to all evaluation enrollees (Appendix Tables F.5 and F.6). Youth survey respondents differed from nonrespondents with respect to parent race and ethnicity, the years between youth's earliest SSI eligibility and RA, youth age at most recent SSI application, and the share of enrolling parents who provided a valid SSN at RA. Parent survey respondents different from nonrespondents with respect to youth's spoken language preference, enrolling parent age at RA, youth age at most recent SSI application, the share of enrolling parents who provided a valid SSN at RA, the share of parents who had earnings in the year before RA, and parents' earnings in the year before RA. Overall, even when the differences were statistically significant, they generally were small. The extent and magnitude of the differences suggested that the respondents were not markedly different from the nonrespondents. To account for survey nonresponse, we calculated and used survey weights in all regression models to estimate impacts on the survey-based outcome measures.

Appendix Table F.5. MD PROMISE: Baseline characteristics of youth survey respondents and nonrespondents (percentages, unless otherwise noted)

| | All | | Nonrespondents | | <i>p</i> - |
|--|------|------|----------------|-------------|------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | value |
| Demographic characteristics | | | | | |
| Youth is female | 34.7 | 35.3 | 32.1 | 3.2 | 0.23 |
| Youth age at RA | | | | | 0.17 |
| 14 | 26.0 | 26.6 | 23.4 | 3.2 | |
| 15 | 25.9 | 26.3 | 24.2 | 2.1 | |
| 16 | 48.1 | 47.0 | 52.4 | -5.3 | |
| Average age at RA | 15.8 | 15.8 | 15.8 | -0.1 | 0.20 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 96.8 | 96.9 | 96.6 | 0.3 | 0.75 |
| Prefers English for spoken language | 96.6 | 96.6 | 96.3 | 0.3 | 0.77 |
| Youth living arrangement at SSI application | | | | | 0.24 |
| In parents' household | 86.7 | 86.2 | 88.4 | -2.2 | |
| Own household or alone | 10.2 | 10.3 | 9.7 | 0.6 | |
| Another household and receiving support | 3.2 | 3.5 | 1.8 | 1.7 | |
| Youth race and ethnicity | | | | <u>+</u> ++ | 0.00 |
| Non-Hispanic White | 15.1 | 15.5 | 13.4 | 2.1 | |
| Non-Hispanic Black | 49.0 | 53.2 | 32.6 | 20.6 | |
| Hispanic | 6.9 | 7.2 | 5.8 | 1.4 | |
| Non-Hispanic American Indian | 1.4 | 1.6 | 0.8 | 0.8 | |
| Non-Hispanic other or mixed race | 6.2 | 6.4 | 5.3 | 1.1 | |
| Missing | 21.4 | 16.1 | 42.1 | -26.0 | |
| Enrolling parent age at RA | 43.0 | 43.4 | 41.8 | 1.6*** | 0.00 |
| Parent race and ethnicity | | | | ††† | 0.00 |
| Non-Hispanic White | 19.6 | 19.9 | 18.2 | 1.8 | |
| Non-Hispanic Black | 51.2 | 55.1 | 35.8 | 19.3 | |
| Hispanic | 5.8 | 6.0 | 5.3 | 0.7 | |
| Non-Hispanic American Indian | 1.0 | 1.0 | 1.1 | -0.0 | |
| Non-Hispanic other or mixed race | 4.3 | 5.1 | 1.3 | 3.8 | |
| Missing | 18.1 | 12.9 | 38.4 | -25.6 | |
| Disability | | | | | |
| Youth primary impairment | | | | †† | 0.04 |
| Intellectual or developmental disability | 36.5 | 37.6 | 32.4 | 5.2 | |
| Speech, hearing, or visual impairment | 1.4 | 1.7 | 0.3 | 1.5 | |
| Physical disability | 11.3 | 11.0 | 12.6 | -1.7 | |
| Other mental impairment | 48.0 | 46.8 | 52.4 | -5.5 | |
| Other or unknown disability | 2.7 | 2.8 | 2.4 | 0.5 | |

| Baseline characteristic | All (A) | Respondents (B) | Nonrespondents (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|--------------------|-----------------------|-----------------------|--------------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 94.6 | 94.6 | 94.7 | -0.1 | 0.93 |
| Received OASDI | 11.0 | 11.2 | 10.3 | 0.9 | 0.61 |
| Years between youth's earliest SSI eligibility and RA | 8.3 | 8.4 | 7.9 | 0.5* | 0.06 |
| Youth age at most recent SSI application | 8.0 | 7.8 | 8.6 | -0.8*** | 0.00 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,248 | 7,236 | 7,294 | -58 | 0.66 |
| OASDI | 339 | 339 | 336 | 3 | 0.96 |
| Total SSI and OASDI | 7,586 | 7,575 | 7,630 | -54 | 0.65 |
| Household had multiple SSI-eligible shildren | 17.3 | 17.1 | 17.9 | -0.8 | 0.73 |
| Enrolling parent provided a valid SSN at RA | 58.5 | 59.8 | 53.7 | 6.1** | 0.03 |
| Parents included in the administrative data | | | | | 0.62 |
| None | 6.1 | 5.9 | 6.6 | -0.7 | |
| One parent | 69.2 | 68.9 | 70.5 | -1.6 | |
| Two parents | 24.7 | 25.2 | 22.9 | 2.3 | |
| Parent SSA payment status at RA | | | | | 0.67 |
| Any parent received SSI only | 7.6 | 7.5 | 7.6 | -0.1 | |
| Any parent received OASDI only | 8.0 | 8.3 | 6.8 | 1.5 | |
| Any parent received both SSI and OASD | 4.4 | 4.7 | 3.4 | 1.3 | |
| No parent received any SSA payments | 73.9 | 73.5 | 75.5 | -2.0 | |
| No parent was included in the SSA data analyses | 6.1 | 5.9 | 6.6 | -0.7 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 4.4 | 4.2 | 5.0 | -0.8 | 0.54 |
| Youth earnings in the calendar year before RA (\$) | 41 | 38 | 51 | -13 | 0.39 |
| Parent had earnings in the calendar year before RA | 68.0 | 68.2 | 67.0 | 1.2 | 0.67 |
| Parent earnings in the calendar year before | 16,222 | 16,321 | 15,832 | 489 | 0.66 |
| RA (\$) | | | | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes all youth who enrolled in PROMISE. Nonrespondents include youth ineligible for the survey because they died or withdrew from the study. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (p-value is less than .10/.05/.01) using a two-tailed t-test.

+/++/+++ Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

Appendix Table F.6. MD PROMISE: Baseline characteristics of parent survey respondents and nonrespondents (percentages, unless otherwise noted)

| | All | | Nonrespondents | | p- |
|--|------|------|----------------|-------------|-------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | value |
| Demographic characteristics | | | | | |
| Youth is female | 34.7 | 34.4 | 35.5 | -1.1 | 0.69 |
| Youth age at RA | | | | | 0.26 |
| 14 | 26.0 | 26.5 | 24.2 | 2.4 | |
| 15 | 25.9 | 26.4 | 24.2 | 2.2 | |
| 16 | 48.1 | 47.1 | 51.7 | -4.6 | |
| Average age at RA | 15.8 | 15.8 | 15.8 | -0.1 | 0.23 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 96.8 | 96.6 | 97.8 | -1.3 | 0.14 |
| Prefers English for spoken language | 96.6 | 96.2 | 97.8 | -1.6* | 0.07 |
| Youth living arrangement at SSI application | | | | | 0.50 |
| In parents' household | 86.7 | 86.7 | 86.5 | 0.2 | |
| Own household or alone | 10.2 | 9.9 | 11.1 | -1.2 | |
| Another household and receiving support | 3.2 | 3.4 | 2.4 | 1.0 | |
| Youth race and ethnicity | | | | <u>+</u> ++ | 0.00 |
| Non-Hispanic White | 15.1 | 14.8 | 15.9 | -1.1 | |
| Non-Hispanic Black | 49.0 | 54.5 | 29.7 | 24.8 | |
| Hispanic | 6.9 | 7.6 | 4.6 | 3.0 | |
| Non-Hispanic American Indian | 1.4 | 1.6 | 1.0 | 0.6 | |
| Non-Hispanic other or mixed race | 6.2 | 6.4 | 5.3 | 1.1 | |
| Missing | 21.4 | 15.1 | 43.5 | -28.4 | |
| Enrolling parent age at RA | 43.0 | 43.3 | 42.2 | 1.1** | 0.03 |
| Parent race and ethnicity | | | | <u>+</u> ++ | 0.00 |
| Non-Hispanic White | 19.6 | 19.6 | 19.3 | 0.3 | |
| Non-Hispanic Black | 51.2 | 56.3 | 33.1 | 23.2 | |
| Hispanic | 5.8 | 6.4 | 3.9 | 2.5 | |
| Non-Hispanic American Indian | 1.0 | 0.9 | 1.4 | -0.6 | |
| Non-Hispanic other or mixed race | 4.3 | 5.0 | 2.2 | 2.8 | |
| Missing | 18.1 | 11.8 | 40.1 | -28.3 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.50 |
| Intellectual or developmental disability | 36.5 | 37.3 | 33.8 | 3.5 | |
| Speech, hearing, or visual impairment | 1.4 | 1.6 | 1.0 | 0.6 | |
| Physical disability | 11.3 | 11.2 | 11.6 | -0.4 | |
| Other mental impairment | 48.0 | 47.0 | 51.2 | -4.2 | |
| Other or unknown disability | 2.7 | 2.8 | 2.4 | 0.4 | |

| Baseline characteristic | All (A) | Respondents (B) | Nonrespondents (C) | Difference (B – C) | <i>p-</i> value |
|---|------------|--------------------|-----------------------|-----------------------|--------------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 94.6 | 94.6 | 94.7 | -0.1 | 0.96 |
| Received OASDI | 11.0 | 10.6 | 12.3 | -1.7 | 0.34 |
| Years between youth's earliest SSI eligibility and RA | 8.3 | 8.4 | 8.0 | 0.3 | 0.17 |
| Youth age at most recent SSI application | 8.0 | 7.9 | 8.4 | -0.6** | 0.02 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,248 | 7,240 | 7,275 | -35 | 0.78 |
| OASDI | 339 | 318 | 411 | -93 | 0.20 |
| Total SSI and OASDI | 7,586 | 7,558 | 7,686 | -128 | 0.25 |
| Household had multiple SSI-eligible children | 17.3 | 16.8 | 18.8 | -2.0 | 0.35 |
| Enrolling parent provided a valid SSN at RA | 58.5 | 59.8 | 53.9 | 6.0** | 0.03 |
| Parents included in the administrative data | | | | | 0.75 |
| None | 6.1 | 5.9 | 6.8 | -0.9 | |
| One parent | 69.2 | 69.2 | 69.3 | -0.1 | |
| Two parents | 24.7 | 24.9 | 23.9 | 1.0 | |
| Parent SSA payment status at RA | | | | | 0.27 |
| Any parent received SSI only | 7.6 | 7.0 | 9.7 | -2.7 | |
| Any parent received OASDI only | 8.0 | 8.1 | 7.7 | 0.4 | |
| Any parent received both SSI and OASDI | 4.4 | 4.8 | 3.4 | 1.4 | |
| No parent received any SSA payments | 73.9 | 74.3 | 72.5 | 1.8 | |
| No parent was included in the SSA data analyses | 6.1 | 5.9 | 6.8 | -0.9 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 4.4 | 4.5 | 3.9 | 0.7 | 0.53 |
| Youth earnings in the calendar year before RA (\$) | 41 | 42 | 37 | 5 | 0.67 |
| Parent had earnings in the calendar year before RA | 68.0 | 69.3 | 63.5 | 5.8** | 0.04 |
| Parent earnings in the calendar year before RA (\$) | 16,222 | 16,610 | 14,849 | 1,761* | 0.10 |
| Number of youth | 1,866 | 1,452 | 414 | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes the parents who were eligible for the survey. Nonrespondents include parents ineligible for the survey because they died or withdrew from the study. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

3. Differences between self-reporting and proxy youth respondents

We compared the baseline characteristics of youth who self-responded to the survey to those who responded via proxies to assess whether systematically missing data from different survey modes might affect the estimated impacts on survey-based outcomes (Appendix Table F.7). We found differences in 9 of 25 baseline characteristics by survey response type. Compared with self-respondents, youth who responded by proxy were less likely to be female, prefer English as a spoken or written language; they were younger at RA and had lower average OASDI and SSA payments in the year before RA; their enrolling parent was less likely to have provided a valid SSN at RA, but the employment rates and earnings were higher for those that did. Because of these differences, findings on survey-based outcomes that are available only for self-respondents might not generalize to all survey respondents.

Appendix Table F.7. MD PROMISE: Baseline characteristics of proxy and self-reporting youth survey respondents (percentages, unless otherwise noted)

| Baseline characteristic | All (A) | Proxy respondent (B) | Self- reporting respondent (C) | Difference (B – C) | <i>p</i> -value |
|--|------------|----------------------------|---|-----------------------|-----------------|
| Demographic characteristics | | | | | |
| Youth is female | 35.0 | 26.9 | 39.4 | -12.4*** | 0.00 |
| Youth age at RA | | | | t† | 0.03 |
| 14 | 26.1 | 29.0 | 24.6 | 4.4 | |
| 15 | 26.4 | 28.3 | 25.4 | 2.9 | |
| 16 | 47.5 | 42.7 | 50.1 | -7.3 | |
| Average age at RA | 15.8 | 15.7 | 15.8 | -0.1** | 0.03 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 97.1 | 95.8 | 97.7 | -1.9* | 0.05 |
| Prefers English for spoken language | 96.8 | 95.6 | 97.4 | -1.8* | 0.07 |
| Youth living arrangement at SSI application | | | | | 0.20 |
| In parents' household | 86.6 | 88.4 | 85.6 | 2.8 | |
| Own household or alone | 10.0 | 9.2 | 10.5 | -1.2 | |
| Another household and receiving support | 3.4 | 2.4 | 3.9 | -1.6 | |
| Youth race and ethnicity | | | | <u>†</u> †† | 0.00 |
| Non-Hispanic White | 15.1 | 17.5 | 13.8 | 3.6 | |
| Non-Hispanic Black | 49.8 | 43.7 | 53.1 | -9.4 | |
| Hispanic | 6.7 | 6.4 | 6.9 | -0.5 | |
| Non-Hispanic American Indian | 1.5 | 1.8 | 1.4 | 0.4 | |
| Non-Hispanic other or mixed race | 6.3 | 5.5 | 6.7 | -1.2 | |
| Missing | 20.6 | 25.2 | 18.1 | 7.0 | |
| Enrolling parent age at RA | 43.3 | 43.1 | 43.4 | -0.3 | 0.57 |
| Parent race and ethnicity | | | | <u>††</u> | 0.04 |
| Non-Hispanic White | 19.6 | 21.3 | 18.7 | 2.6 | |
| Non-Hispanic Black | 52.6 | 47.2 | 55.5 | -8.2 | |
| Hispanic | 5.8 | 5.8 | 5.7 | 0.0 | |
| Non-Hispanic American Indian | 1.0 | 0.7 | 1.1 | -0.4 | |
| Non-Hispanic other or mixed race | 5.0 | 5.4 | 4.7 | 0.7 | |
| Missing | 16.1 | 19.5 | 14.3 | 5.2 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.31 |
| Intellectual or developmental disability | 37.3 | 39.3 | 36.1 | 3.2 | |
| Speech, hearing, or visual impairment | 1.7 | 1.0 | 2.1 | -1.2 | |
| Physical disability | 11.1 | 10.2 | 11.6 | -1.5 | |
| Other mental impairment | 47.1 | 46.3 | 47.6 | -1.3 | |
| Other or unknown disability | 2.8 | 3.2 | 2.5 | 0.7 | |

| Baseline characteristic | All (A) | Proxy respondent (B) | Self- reporting respondent (C) | Difference (B – C) | <i>p</i> -value |
|---|------------|----------------------------|---|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 94.6 | 94.8 | 94.4 | 0.4 | 0.74 |
| Received OASDI | 11.1 | 9.5 | 12.0 | -2.6 | 0.13 |
| Years between youth's earliest SSI eligibility and RA | 8.3 | 8.3 | 8.3 | 0.0 | 0.98 |
| Youth age at most recent SSI application | 7.9 | 7.7 | 8.0 | -0.3 | 0.16 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,238 | 7,162 | 7,278 | -116 | 0.38 |
| OASDI | 336 | 254 | 380 | -126** | 0.04 |
| Total SSI and OASDI | 7,573 | 7,416 | 7,658 | -242** | 0.05 |
| Household had multiple SSI-eligible children | 17.7 | 16.3 | 18.4 | -2.1 | 0.32 |
| Enrolling parent provided a valid SSN at RA | 58.8 | 54.6 | 61.0 | -6.4** | 0.02 |
| Parents included in the administrative data | | | | <u>+++</u> | 0.00 |
| None | 6.0 | 7.0 | 5.4 | 1.6 | |
| One parent | 69.0 | 63.1 | 72.2 | -9.0 | |
| Two parents | 25.0 | 29.8 | 22.4 | 7.4 | |
| Parent SSA payment status at RA | | | | | 0.24 |
| Any parent received SSI only | 7.4 | 6.1 | 8.0 | -1.9 | |
| Any parent received OASDI only | 8.2 | 7.8 | 8.4 | -0.6 | |
| Any parent received both SSI and OASDI | 4.7 | 3.6 | 5.3 | -1.7 | |
| No parent received any SSA payments | 73.7 | 75.4 | 72.8 | 2.6 | |
| No parent was included in the SSA data analyses | 6.0 | 7.0 | 5.4 | 1.6 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 4.3 | 3.8 | 4.5 | -0.8 | 0.48 |
| Youth earnings in the calendar year before RA (\$) | 38 | 32 | 41 | -10 | 0.41 |
| Parent had earnings in the calendar year before RA | 68.1 | 70.9 | 66.6 | 4.4* | 0.10 |
| Parent earnings in the calendar year before RA (\$) | 16,265 | 18,386 | 15,145 | 3,242*** | 0.00 |
| Number of youth | 1,486 | 513 | 973 | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes all PROMISE five-year youth survey respondents. We weighted the statistics to adjust for survey nonresponse. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

B. Findings from the impact analysis

In this section, we present findings from the impact analysis of MD PROMISE. First, we present impacts estimated through the main models. Second, we present the results of sensitivity analyses. Third, we present impacts for key subgroups of evaluation enrollees.

1. Impact estimates

Appendix Tables F.8–F.17 provide results and inference statistics for the regression-adjusted impacts estimated through the main models described in Appendix B. For each outcome measure, we report the estimated regression-adjusted impact; the control group mean (weighted, as applicable); and additional inference statistics, such as standard errors, effect sizes, and sample sizes by treatment status.

Appendix Table F.8. MD PROMISE: Impact on the youth's education and training (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group sample size | Control group sample size |
|--|-----------------|--------|-----------------|-------------------|-------------|--------------------------------------|------------------------------------|
| Primary outcomes | | | | | | | |
| Enrolled in an educational or training program | 38.8 | -2.4 | 0.33 | 2.5 | -0.062 | 710 | 721 |
| Has a GED, high school diploma, or certificate of completion | 71.8 | -3.8 | 0.11 | 2.4 | -0.110 | 734 | 744 |
| Supplementary outcomes | | | | | | | |
| Enrolled in postsecondary education | 12.8 | -0.2 | 0.89 | 1.7 | -0.013 | 723 | 739 |
| Type of school attending | | | | | | | |
| High school serving a variety of students | 10.8 | -2.2 | 0.13 | 1.5 | -0.155 | 723 | 739 |
| High school serving only students with disabilities | 4.9 | 0.4 | 0.71 | 1.1 | 0.052 | 723 | 739 |
| GED program or other adult education program | 2.4 | -0.2 | 0.79 | 0.8 | -0.060 | 723 | 739 |
| Postsecondary vocational, trade, or technical school | 1.7 | 1.4* | 0.07 | 0.8 | 0.374 | 723 | 739 |
| Postsecondary college or advanced degree program | 11.0 | -1.7 | 0.29 | 1.6 | -0.111 | 723 | 739 |
| Other type of school | 1.2 | -0.3 | 0.57 | 0.5 | -0.177 | 723 | 739 |
| Not attending school | 67.9 | 2.6 | 0.26 | 2.3 | 0.073 | 723 | 739 |
| Highest grade completed | | | | | | | |
| Lower than 12th grade | 24.3 | 3.5 | 0.12 | 2.3 | 0.110 | 738 | 748 |
| 12th grade or senior in high school | 64.4 | -4.1 | 0.11 | 2.5 | -0.105 | 738 | 748 |
| Some or all of college or university | 8.7 | 0.9 | 0.55 | 1.5 | 0.068 | 738 | 748 |
| Other or do not know | 2.7 | -0.4 | 0.65 | 0.8 | -0.089 | 738 | 748 |
| Enrolled in a training program | 9.8 | 0.4 | 0.83 | 1.6 | 0.024 | 698 | 717 |
| Received any training credential in the past year | 9.4 | -0.9 | 0.55 | 1.5 | -0.067 | 734 | 744 |
| Any school suspensions or expulsions in the past year | 2.0 | 0.7 | 0.35 | 0.8 | 0.194 | 698 | 717 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group sample size | Control group sample size |
|--|-----------------|--------|-----------------|-------------------|-------------|--------------------------------------|------------------------------------|
| Accommodations | | | | | | | |
| Receives educational accommodation | 22.5 | -1.1 | 0.57 | 2.0 | -0.040 | 721 | 738 |
| Receives training accommodation | 5.9 | -0.2 | 0.88 | 1.3 | -0.021 | 698 | 716 |
| Received supports or services for postsecondary education in the past year | 20.9 | 2.4 | 0.26 | 2.2 | 0.086 | 730 | 743 |

Source: PROMISE five-year surveys.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of MD PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

GED = General Educational Development.

Appendix Table F.9. MD PROMISE: Impact on the youth's employment and earnings (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p-</i> value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|---------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Employed in a paid job in the past year ^a | 44.9 | 1.5 | 0.57 | 2.6 | 0.036 | 738 | 748 |
| Earnings in the past year (\$) | 4,987 | 326 | 0.52 | 503 | 0.035 | 738 | 748 |
| Earnings during the five calendar years after RA (\$) | 12,458 | 1,393 | 0.14 | 943 | 0.066 | 936 | 930 |
| Supplementary outcomes | | | | | | | |
| Employment in the past year | | | | | | | |
| Any employment | 51.1 | -0.0 | 0.99 | 2.6 | -0.001 | 738 | 748 |
| Weekly hours worked | 7.5 | 0.7 | 0.30 | 0.7 | 0.055 | 738 | 748 |
| Employed in a paid job offering fringe benefits | 25.5 | 1.8 | 0.44 | 2.4 | 0.057 | 738 | 748 |
| Employment settings | | | | | | | |
| Integrated | 37.3 | 1.4 | 0.59 | 2.7 | 0.037 | 738 | 748 |
| Outside of school-sponsored activities | 40.4 | 1.5 | 0.56 | 2.6 | 0.039 | 738 | 748 |
| With coaching | 6.2 | 2.4* | 0.09 | 1.4 | 0.213 | 738 | 748 |
| Received supports or services in getting or keeping a job | 20.0 | 0.5 | 0.82 | 2.1 | 0.018 | 730 | 743 |
| Employment at the time of the survey | | | | | | | |
| Any paid employment | 26.1 | 1.7 | 0.47 | 2.3 | 0.052 | 738 | 748 |
| Average weekly earnings (\$) | 92 | 15 | 0.15 | 11 | 0.077 | 738 | 748 |
| Weekly hours worked | 7.4 | 1.3 | 0.12 | 0.8 | 0.083 | 738 | 748 |
| Labor force participation | 53.4 | 5.6** | 0.03 | 2.6 | 0.138 | 738 | 748 |
| Employment and earnings in calendar years after RA | | | | | | | |
| Ever employed in Year 1 | 21.3 | 12.4*** | 0.00 | 2.0 | 0.382 | 936 | 930 |
| Ever employed in Year 2 | 33.3 | 10.3*** | 0.00 | 2.2 | 0.265 | 936 | 930 |
| Ever employed in Year 3 | 43.7 | 4.5** | 0.05 | 2.2 | 0.109 | 936 | 930 |
| Ever employed in Year 4 | 49.2 | 2.1 | 0.36 | 2.3 | 0.050 | 936 | 930 |
| Ever employed in Year 5 | 51.0 | 0.2 | 0.93 | 2.3 | 0.005 | 936 | 930 |
| Ever employed during Years 1-5 | 65.3 | 12.7*** | 0.00 | 2.0 | 0.383 | 936 | 930 |
| Earnings in Year 1 (\$) | 426 | 238*** | 0.00 | 66 | 0.163 | 936 | 930 |

| Outcome | Control mean | Impact | <i>p-</i> value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Earnings in Year 2 (\$) | 1,174 | 193 | 0.16 | 136 | 0.064 | 936 | 930 |
| Earnings in Year 3 (\$) | 2,454 | 230 | 0.31 | 226 | 0.045 | 936 | 930 |
| Earnings in Year 4 (\$) | 3,742 | 300 | 0.34 | 315 | 0.043 | 936 | 930 |
| Earnings in Year 5 (\$) | 4,662 | 431 | 0.26 | 380 | 0.052 | 936 | 930 |
| VR services during the 5 years after RA ^a | | | | | | | |
| Applied for VR services | 21.0 | 2.9 | 0.13 | 1.9 | 0.101 | 936 | 930 |
| Received VR services | 17.4 | -0.2 | 0.90 | 1.7 | -0.009 | 936 | 930 |

Source: PROMISE five-year survey, RSA-911 data (VR service outcomes), and SSA administrative records (employment and earnings in years after RA).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of MD PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

^a RSA-911 data are available only through 2020. VR services outcomes used only four years of data for youth who enrolled in PROMISE in 2016.

N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration; VR = vocational rehabilitation.

Appendix Table F.10. MD PROMISE: Impact on the youth's self-determination and expectations (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | 1 | | - | | | | |
| Self-determination score (scale: 0 to 100) ^a | 78.5 | 0.5 | 0.58 | 0.9 | 0.037 | 460 | 457 |
| Youth expects to be financially independent at age 25 | 64.2 | 2.9 | 0.35 | 3.1 | 0.078 | 475 | 468 |
| Supplementary outcomes | | | | | | | |
| Scores on subdomains of self-determination ^a | | | | | | | |
| Autonomy (scale: 0 to 300) | 136.3 | 1.9 | 0.60 | 3.7 | 0.035 | 461 | 460 |
| Psychological empowerment (scale: 0 to 100) | 86.8 | 2.0 | 0.11 | 1.3 | 0.108 | 458 | 457 |
| Self-realization (scale: 0 to 100) | 92.2 | -0.5 | 0.63 | 1.0 | -0.032 | 460 | 456 |
| Agentic action (scale: 0 to 100) | 89.7 | -0.3 | 0.84 | 1.4 | -0.013 | 460 | 455 |
| Youth expects to: | | | | | | | |
| Get postsecondary education (beyond high school/GED) | 59.3 | 0.8 | 0.79 | 3.2 | 0.021 | 470 | 459 |
| Live independently at age 25 | 66.1 | -0.2 | 0.94 | 3.1 | -0.007 | 476 | 464 |
| Be employed in a paid job at age 25 | 89.0 | 3.2* | 0.10 | 2.0 | 0.233 | 479 | 470 |
| Parent expects youth to: | | | | | | | |
| Get postsecondary education (beyond high school/GED) | 40.2 | 0.9 | 0.72 | 2.6 | 0.024 | 693 | 688 |
| Live independently at age 25 | 41.4 | -3.0 | 0.26 | 2.6 | -0.075 | 679 | 678 |
| Be financially independent at age 25 | 46.4 | -3.4 | 0.20 | 2.7 | -0.084 | 700 | 692 |
| Be employed in a paid job at age 25 | 82.8 | 0.8 | 0.67 | 2.0 | 0.037 | 697 | 693 |
| Parent believes it important that youth be employed eventually | 91.7 | 1.4 | 0.32 | 1.4 | 0.123 | 680 | 679 |

Source: PROMISE five-year survey.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of MD PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

^a Higher scores on the scales indicate higher levels of self-determination.

GED = General Educational Development; N = sample size.

Appendix Table F.11. MD PROMISE: Impact on the youth's SSA payments and knowledge (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p-</i> value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|----------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Received SSA payments in Year 5 after RA | 60.5 | 7.2*** | 0.00 | 2.1 | 0.190 | 936 | 930 |
| Total SSA payments in Year 5 after RA (\$) | 4,857 | 330* | 0.09 | 195 | 0.076 | 936 | 930 |
| Total SSA payments during Years 1–5 after RA (\$) | 31,768 | 1,598*** | 0.01 | 576 | 0.115 | 936 | 930 |
| Supplementary outcomes | | | | | | | |
| Aware of the following SSA policies | | | | | | | |
| Children receiving SSI are not automatically eligible for SSI as adults | 39.5 | 4.8 | 0.15 | 3.3 | 0.120 | 459 | 454 |
| People receiving SSI can work for pay | 72.8 | -1.2 | 0.69 | 3.0 | -0.036 | 459 | 454 |
| People receiving SSI must report earnings to SSA | 81.8 | -5.2* | 0.06 | 2.7 | -0.193 | 459 | 454 |
| Aware of the following work supports | | | | | | | |
| SSI Student Earned Income Exclusion | 7.6 | 3.5* | 0.08 | 2.0 | 0.250 | 460 | 454 |
| SSI earned income exclusion | 5.7 | 3.0* | 0.09 | 1.8 | 0.274 | 459 | 454 |
| SSI PASS plan | 6.3 | 3.4* | 0.07 | 1.8 | 0.282 | 460 | 454 |
| ABLE account | 6.4 | 5.3*** | 0.01 | 1.9 | 0.400 | 459 | 454 |
| SSA payments in years after RA | | | | | | | |
| Received any in Year 1 | 96.6 | 1.3* | 0.06 | 0.7 | 0.297 | 936 | 930 |
| Received any in Year 2 | 91.7 | 1.8 | 0.11 | 1.1 | 0.164 | 936 | 930 |
| Received any in Year 3 | 84.5 | 3.5** | 0.02 | 1.5 | 0.182 | 936 | 930 |
| Received any in Year 4 | 69.1 | 9.2*** | 0.00 | 1.9 | 0.289 | 936 | 930 |
| Received any in Years 1–5 | 97.4 | 0.7 | 0.30 | 0.6 | 0.181 | 936 | 930 |
| Amount in Year 1 (\$) | 7,830 | 80 | 0.37 | 90 | 0.030 | 936 | 930 |
| Amount in Year 2 (\$) | 7,398 | 107 | 0.38 | 120 | 0.036 | 936 | 930 |
| Amount in Year 3 (\$) | 6,299 | 518*** | 0.00 | 157 | 0.144 | 936 | 930 |
| Amount in Year 4 (\$) | 5,383 | 562*** | 0.00 | 180 | 0.138 | 936 | 930 |

| | Control | | | Standard | | Treatment | Control |
|------------------------------------|---------|---------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p</i> -value | error | Effect size | group N | group N |
| SSI payments in years after RA | | | | | | | |
| Received any in Year 1 | 95.5 | 0.8 | 0.36 | 0.9 | 0.120 | 936 | 930 |
| Received any in Year 2 | 89.8 | 1.7 | 0.19 | 1.3 | 0.121 | 936 | 930 |
| Received any in Year 3 | 82.4 | 3.1* | 0.06 | 1.6 | 0.138 | 936 | 930 |
| Received any in Year 4 | 67.3 | 8.6*** | 0.00 | 2.0 | 0.256 | 936 | 930 |
| Received any in Year 5 | 58.9 | 6.7*** | 0.00 | 2.2 | 0.173 | 936 | 930 |
| Received any in Years 1–5 | 96.5 | 0.7 | 0.37 | 0.8 | 0.134 | 936 | 930 |
| Amount in Year 1 (\$) | 7,384 | -2 | 0.98 | 91 | -0.001 | 936 | 930 |
| Amount in Year 2 (\$) | 6,926 | 69 | 0.57 | 121 | 0.022 | 936 | 930 |
| Amount in Year 3 (\$) | 5,906 | 415*** | 0.01 | 155 | 0.115 | 936 | 930 |
| Amount in Year 4 (\$) | 4,995 | 533*** | 0.00 | 173 | 0.134 | 936 | 930 |
| Amount in Year 5 (\$) | 4,477 | 305* | 0.10 | 185 | 0.073 | 936 | 930 |
| Total amount during Years 1–5 (\$) | 29,687 | 1,320** | 0.02 | 567 | 0.093 | 936 | 930 |
| OASDI benefits in years after RA | | | | | | | |
| Received any in Year 1 | 11.2 | 0.8 | 0.38 | 0.9 | 0.048 | 936 | 930 |
| Received any in Year 2 | 12.0 | 0.8 | 0.41 | 1.0 | 0.047 | 936 | 930 |
| Received any in Year 3 | 9.6 | 1.1 | 0.33 | 1.1 | 0.071 | 936 | 930 |
| Received any in Year 4 | 7.5 | 1.7 | 0.12 | 1.1 | 0.135 | 936 | 930 |
| Received any in Year 5 | 6.6 | 1.2 | 0.29 | 1.1 | 0.107 | 936 | 930 |
| Received any in Years 1–5 | 14.2 | 1.7 | 0.16 | 1.2 | 0.080 | 936 | 930 |
| Amount in Year 1 (\$) | 446 | 82** | 0.04 | 40 | 0.047 | 936 | 930 |
| Amount in Year 2 (\$) | 472 | 38 | 0.50 | 55 | 0.021 | 936 | 930 |
| Amount in Year 3 (\$) | 393 | 103 | 0.15 | 72 | 0.055 | 936 | 930 |
| Amount in Year 4 (\$) | 388 | 30 | 0.70 | 77 | 0.016 | 936 | 930 |
| Amount in Year 5 (\$) | 381 | 25 | 0.76 | 84 | 0.013 | 936 | 930 |
| Total amount during Years 1–5 (\$) | 2,080 | 277 | 0.30 | 270 | 0.035 | 936 | 930 |

| Outcome | Control mean | Impact | <i>p-</i> value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Age-18 redetermination status five years after RA | | | | | | | |
| Final decision: benefits ceased | 26.1 | -0.6 | 0.78 | 2.0 | -0.018 | 936 | 930 |
| Final decision: benefits continued | 45.5 | -1.5 | 0.50 | 2.2 | -0.036 | 936 | 930 |
| Final decision is pending | 4.3 | 1.1 | 0.26 | 1.0 | 0.144 | 936 | 930 |
| Did not have an age-18 redetermination | 24.1 | 0.9 | 0.62 | 1.9 | 0.031 | 936 | 930 |

Source: SSA administrative records and PROMISE five-year survey (awareness of work supports and SSA policies).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of MD PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

ABLE = Achieving a Better Life Experience; OASDI = Old-Age, Survivors, and Disability Insurance; PASS = Plan for Achieving Self Support; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income.

Appendix Table F.12. MD PROMISE: Impact on the youth's health insurance coverage and expenditures (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Control | | | Standard | | Treatment | Control |
|--|---------|--------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p</i> -value | error | Effect size | group N | group N |
| Primary outcomes | | | | | | | |
| Covered by any health insurance | 91.4 | -1.0 | 0.51 | 1.5 | -0.073 | 712 | 719 |
| Average monthly Medicaid and Medicare expenditures in the five years after RA (\$) | 1,066 | -18 | 0.53 | 28 | -0.021 | 936 | 930 |
| Supplementary outcomes | | | | | | | |
| Covered by private health insurance | 9.9 | 0.5 | 0.75 | 1.6 | 0.034 | 712 | 719 |
| Covered by private health insurance purchased through an ACA health exchange | 0.4 | 0.2 | 0.52 | 0.4 | 0.265 | 712 | 719 |
| Medicaid and Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 99.7 | 0.1 | 0.63 | 0.3 | 0.284 | 936 | 930 |
| Ever enrolled in Year 2 | 98.6 | 0.3 | 0.55 | 0.5 | 0.150 | 936 | 930 |
| Ever enrolled in Year 3 | 97.6 | 0.0 | 0.97 | 0.7 | 0.007 | 936 | 930 |
| Ever enrolled in Year 4 | 93.7 | 1.2 | 0.27 | 1.1 | 0.132 | 936 | 930 |
| Ever enrolled in Year 5 | 89.8 | 0.8 | 0.56 | 1.4 | 0.055 | 936 | 930 |
| Percentage of months enrolled in Years 1–5 | 92.3 | 0.8 | 0.27 | 0.7 | 0.050 | 936 | 930 |
| Average monthly Medicaid and Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 1,182 | 47 | 0.11 | 30 | 0.044 | 936 | 930 |
| Year 2 (\$) | 1,167 | -18 | 0.60 | 34 | -0.018 | 936 | 930 |
| Year 3 (\$) | 1,088 | -36 | 0.34 | 37 | -0.035 | 936 | 930 |
| Year 4 (\$) | 954 | -25 | 0.50 | 37 | -0.026 | 936 | 930 |
| Year 5 (\$) | 937 | -58 | 0.19 | 45 | -0.053 | 936 | 930 |
| Medicaid participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 99.7 | 0.1 | 0.63 | 0.3 | 0.284 | 936 | 930 |
| Ever enrolled in Year 2 | 98.6 | 0.3 | 0.55 | 0.5 | 0.150 | 936 | 930 |
| Ever enrolled in Year 3 | 97.6 | 0.0 | 0.97 | 0.7 | 0.007 | 936 | 930 |
| Ever enrolled in Year 4 | 93.7 | 1.1 | 0.32 | 1.1 | 0.119 | 936 | 930 |
| Ever enrolled in Year 5 | 89.7 | 0.6 | 0.68 | 1.4 | 0.039 | 936 | 930 |
| Percentage of months enrolled in Years 1–5 | 92.2 | 0.7 | 0.32 | 0.7 | 0.045 | 936 | 930 |

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Appendix F MD PROMISE Impacts, Benefits, and Costs

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Average monthly Medicaid expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 1,182 | 46 | 0.12 | 30 | 0.044 | 936 | 930 |
| Year 2 (\$) | 1,167 | -18 | 0.60 | 34 | -0.018 | 936 | 930 |
| Year 3 (\$) | 1,088 | -36 | 0.34 | 37 | -0.035 | 936 | 930 |
| Year 4 (\$) | 945 | -21 | 0.57 | 37 | -0.022 | 936 | 930 |
| Year 5 (\$) | 902 | -31 | 0.44 | 40 | -0.031 | 936 | 930 |
| Years 1–5 (\$) | 1,057 | -12 | 0.67 | 28 | -0.014 | 936 | 930 |
| Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 0.0 | 0.1 | 0.32 | 0.1 | n.a. | 936 | 930 |
| Ever enrolled in Year 2 | 0.0 | 0.0 | n.a. | 0.0 | n.a. | 936 | 930 |
| Ever enrolled in Year 3 | 0.2 | 0.0 | 0.87 | 0.2 | 0.098 | 936 | 930 |
| Ever enrolled in Year 4 | 2.2 | 0.4 | 0.55 | 0.7 | 0.109 | 936 | 930 |
| Ever enrolled in Year 5 | 4.0 | 0.1 | 0.89 | 0.9 | 0.020 | 936 | 930 |
| Percentage of months enrolled in Years 1–5 | 1.0 | 0.1 | 0.79 | 0.2 | 0.012 | 936 | 930 |
| Average monthly Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 0 | 1 | 0.32 | 1 | 0.046 | 936 | 930 |
| Year 2 (\$) | 0 | 0 | n.a. | 0 | n.a. | 936 | 930 |
| Year 3 (\$) | 0 | 0 | 0.32 | 0 | 0.043 | 936 | 930 |
| Year 4 (\$) | 9 | -4 | 0.48 | 6 | -0.033 | 936 | 930 |
| Year 5 (\$) | 35 | -27 | 0.18 | 20 | -0.063 | 936 | 930 |
| Years 1–5 (\$) | 9 | -6 | 0.23 | 5 | -0.056 | 936 | 930 |

Source: CMS administrative records and PROMISE five-year survey (non-Medicare/Medicaid outcomes).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of MD PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

ACA = Affordable Care Act; CMS = Centers for Medicare & Medicaid Services; N = sample size; RA = random assignment.

Appendix Table F.13. MD PROMISE: Impact on the youth's economic and social well-being (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|----------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Total income in the past year (\$) | 10,096 | 633 | 0.19 | 478 | 0.072 | 738 | 748 |
| Total income during the five calendar years after RA (\$) | 45,632 | 3,083*** | 0.00 | 955 | 0.143 | 936 | 930 |
| Supplementary outcomes | | | | | | | |
| Engaging in productive market activities ^a | 76.9 | 2.3 | 0.31 | 2.2 | 0.080 | 722 | 732 |
| Income in calendar years after RA | | | | | | | |
| Year 1 (\$) | 8,680 | 335*** | 0.01 | 129 | 0.100 | 936 | 930 |
| Year 2 (\$) | 8,651 | 472*** | 0.01 | 177 | 0.116 | 936 | 930 |
| Year 3 (\$) | 8,887 | 837*** | 0.00 | 242 | 0.156 | 936 | 930 |
| Year 4 (\$) | 9,506 | 706** | 0.02 | 310 | 0.104 | 936 | 930 |
| Year 5 (\$) | 9,909 | 733** | 0.05 | 369 | 0.092 | 936 | 930 |
| Household income in the past year (\$) ^b | 30,880 | 1,538 | 0.16 | 1,101 | 0.078 | 623 | 651 |
| Household receives TANF, SNAP, or housing assistance ^b | 57.0 | 3.6 | 0.17 | 2.6 | 0.091 | 649 | 676 |
| Amount of public assistance in the past month | | | | | | | |
| TANF (\$) ^b | 26 | -5 | 0.45 | 6 | -0.040 | 650 | 681 |
| SNAP benefits (\$) ^b | 179 | 15 | 0.26 | 14 | 0.062 | 652 | 680 |
| Housing assistance (\$) ^b | 249 | 18 | 0.50 | 27 | 0.037 | 653 | 679 |
| Family structure and living arrangements | | | | | | | |
| Living independently | 11.3 | -0.1 | 0.94 | 1.6 | -0.007 | 736 | 746 |
| Married or in a marriage-like relationship | 4.8 | -0.7 | 0.52 | 1.1 | -0.103 | 697 | 717 |
| Responsible for a child or children | 11.6 | 1.0 | 0.58 | 1.7 | 0.055 | 693 | 709 |
| Engagement with the criminal justice system | | | | | | | |
| Ever arrested | 13.4 | 3.0 | 0.11 | 1.9 | 0.144 | 691 | 707 |
| Number of times arrested | 0.3 | 0.0 | 0.58 | 0.1 | 0.029 | 691 | 707 |
| Arrested in the past year | 4.8 | 1.1 | 0.35 | 1.2 | 0.134 | 689 | 704 |
| Ever incarcerated | 4.1 | -0.1 | 0.96 | 1.1 | -0.009 | 685 | 705 |
| Length of incarceration (days) | 22.9 | -0.4 | 0.96 | 9.0 | -0.003 | 685 | 705 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Self-reported health status | | | | | | | |
| Poor | 2.0 | 1.8** | 0.04 | 0.9 | 0.410 | 691 | 708 |
| Fair | 15.3 | -0.6 | 0.75 | 1.9 | -0.028 | 691 | 708 |
| Good | 37.3 | -0.9 | 0.74 | 2.6 | -0.023 | 691 | 708 |
| Very good or excellent | 45.5 | -0.4 | 0.89 | 2.7 | -0.009 | 691 | 708 |
| Received help in getting accommodations for school, work, or living independently in past year | 16.5 | 2.1 | 0.28 | 2.0 | 0.090 | 729 | 740 |

Source: PROMISE five-year surveys and SSA administrative records (SSA payments and income in calendar years after RA).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of MD PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

^a Productive market activities include engaging in any of the following at the time of the five-year survey: employment in paid or unpaid work, looking for work, or enrollment in school or a training program.

^b This outcome is based on data from the parent survey about the parent's household if the youth lived with the parent at interview.

N = sample size; RA = random assignment; SNAP = Supplemental Nutrition Assistance Program; SSA = Social Security Administration; TANF = Temporary Assistance for Needy Families.

Appendix Table F.14. MD PROMISE: Impact on the parents' employment and earnings (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Either parent worked for pay in the past year | 66.9 | 0.3 | 0.89 | 2.3 | 0.009 | 730 | 721 |
| Parents' earnings in the past year (\$) | 23,028 | 1,247 | 0.39 | 1,461 | 0.046 | 730 | 722 |
| Parents' earnings during the five calendar years after RA (\$) | 106,730 | -1,847 | 0.54 | 3,039 | -0.016 | 883 | 870 |
| Supplementary outcomes | | | | | | | |
| Highest educational attainment achieved by either parent | | | | | | | |
| Not a high school graduate | 18.9 | -2.0 | 0.32 | 2.0 | -0.082 | 730 | 722 |
| High school diploma or GED | 44.8 | 1.7 | 0.52 | 2.7 | 0.042 | 730 | 722 |
| Some postsecondary education or more | 35.5 | -0.2 | 0.94 | 2.5 | -0.005 | 730 | 722 |
| Other or do not know | 0.8 | 0.5 | 0.44 | 0.6 | 0.276 | 730 | 722 |
| Employment in the past year | | | | | | | |
| Number of parents that worked for pay | 0.8 | 0.0 | 0.66 | 0.0 | 0.022 | 729 | 720 |
| Number of weeks worked | 35.5 | 0.6 | 0.70 | 1.5 | 0.019 | 729 | 720 |
| Weekly hours worked | 28.0 | 0.9 | 0.45 | 1.3 | 0.037 | 730 | 722 |
| Either parent was offered fringe benefits through a job | 53.3 | -1.1 | 0.67 | 2.6 | -0.026 | 730 | 720 |
| Employment at the time of survey | | | | | | | |
| Either parent is in the labor force | 65.6 | 4.2* | 0.08 | 2.4 | 0.118 | 693 | 695 |
| Either parent is working for pay | 53.9 | 0.9 | 0.74 | 2.6 | 0.021 | 695 | 698 |
| Employment and earnings in calendar years after RA | | | | | | | |
| Ever employed in Year 1 | 70.0 | 2.3 | 0.20 | 1.8 | 0.067 | 883 | 870 |
| Ever employed in Year 2 | 69.4 | 4.6** | 0.01 | 1.8 | 0.137 | 883 | 870 |
| Ever employed in Year 3 | 70.5 | 3.0 | 0.10 | 1.8 | 0.090 | 883 | 870 |
| Ever employed in Year 4 | 71.5 | 2.7 | 0.14 | 1.8 | 0.082 | 883 | 870 |
| Ever employed in Year 5 | 69.8 | 3.1 | 0.10 | 1.9 | 0.091 | 883 | 870 |
| Ever employed in Years 1-5 | 80.9 | 2.8* | 0.08 | 1.6 | 0.115 | 883 | 870 |
| Earnings in Year 1 (\$) | 19,659 | -903* | 0.09 | 531 | -0.041 | 883 | 870 |
| Earnings in Year 2 (\$) | 20,198 | -162 | 0.80 | 627 | -0.007 | 883 | 870 |
| Earnings in Year 3 (\$) | 21,333 | 71 | 0.92 | 709 | 0.003 | 883 | 870 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|-------------------------|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Earnings in Year 4 (\$) | 22,616 | -251 | 0.74 | 765 | -0.010 | 883 | 870 |
| Earnings in Year 5 (\$) | 22,924 | -601 | 0.49 | 875 | -0.023 | 883 | 870 |

Source: PROMISE five-year survey and SSA administrative records (employment and earnings in years after RA).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of MD PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

GED = General Educational Development; N = sample size; RA = random assignment.

Appendix Table F.15. MD PROMISE: Impact on the parents' SSA payments (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Control | | | Standard | | Treatment | Control |
|--|---------|--------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p</i> -value | error | Effect size | group N | group N |
| Primary outcomes | | | | | | | |
| Either parent received SSA payments in Year 5 | 24.6 | -0.4 | 0.77 | 1.4 | -0.014 | 883 | 870 |
| Total SSA payments received in Year 5 (\$) | 2,689 | 83 | 0.69 | 207 | 0.015 | 883 | 870 |
| Total SSA payments during the five years after RA (\$) | 12,500 | -193 | 0.78 | 684 | -0.008 | 883 | 870 |
| Supplementary outcomes | | | | | | | |
| SSA payments in years after RA | | | | | | | |
| Received any in Year 1 | 20.3 | -0.9 | 0.13 | 0.6 | -0.034 | 883 | 870 |
| Received any in Year 2 | 22.1 | -1.0 | 0.29 | 0.9 | -0.035 | 883 | 870 |
| Received any in Year 3 | 22.8 | -0.8 | 0.47 | 1.0 | -0.027 | 883 | 870 |
| Received any in Year 4 | 23.8 | -1.2 | 0.34 | 1.2 | -0.040 | 883 | 870 |
| Received any in Years 1–5 | 26.2 | 0.3 | 0.79 | 1.3 | 0.011 | 883 | 870 |
| Amount in Year 1 (\$) | 2,293 | -117 | 0.35 | 124 | -0.023 | 883 | 870 |
| Amount in Year 2 (\$) | 2,503 | -92 | 0.60 | 176 | -0.017 | 883 | 870 |
| Amount in Year 3 (\$) | 2,527 | -121 | 0.45 | 161 | -0.023 | 883 | 870 |
| Amount in Year 4 (\$) | 2,488 | 54 | 0.76 | 174 | 0.010 | 883 | 870 |
| SSI payments in years after RA | | | | | | | |
| Received any in Year 1 | 12.0 | -1.4** | 0.02 | 0.6 | -0.088 | 883 | 870 |
| Received any in Year 2 | 12.6 | -1.5* | 0.09 | 0.9 | -0.084 | 883 | 870 |
| Received any in Year 3 | 13.1 | -1.7* | 0.09 | 1.0 | -0.095 | 883 | 870 |
| Received any in Year 4 | 13.3 | -1.9* | 0.07 | 1.0 | -0.107 | 883 | 870 |
| Received any in Year 5 | 13.6 | -1.7 | 0.15 | 1.2 | -0.094 | 883 | 870 |
| Received any in Years 1–5 | 16.7 | -0.8 | 0.50 | 1.2 | -0.036 | 883 | 870 |
| Amount in Year 1 (\$) | 933 | -170** | 0.03 | 76 | -0.057 | 883 | 870 |
| Amount in Year 2 (\$) | 960 | -128 | 0.20 | 99 | -0.042 | 883 | 870 |
| Amount in Year 3 (\$) | 933 | -143 | 0.12 | 91 | -0.050 | 883 | 870 |
| Amount in Year 4 (\$) | 897 | -80 | 0.36 | 87 | -0.029 | 883 | 870 |
| Amount in Year 5 (\$) | 965 | -26 | 0.81 | 108 | -0.009 | 883 | 870 |
| Total amount during Years 1–5 (\$) | 4,689 | -547 | 0.13 | 360 | -0.041 | 883 | 870 |

Appendix F MD PROMISE Impacts, Benefits, and Costs

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|------------------------------------|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| OASDI benefits in years after RA | | | | | | | |
| Received any in Year 1 | 13.1 | -0.4 | 0.46 | 0.6 | -0.024 | 883 | 870 |
| Received any in Year 2 | 14.3 | -0.4 | 0.63 | 0.8 | -0.020 | 883 | 870 |
| Received any in Year 3 | 14.7 | -0.6 | 0.52 | 0.9 | -0.028 | 883 | 870 |
| Received any in Year 4 | 15.3 | -0.3 | 0.77 | 1.0 | -0.014 | 883 | 870 |
| Received any in Year 5 | 15.7 | 0.4 | 0.72 | 1.2 | 0.019 | 883 | 870 |
| Received any in Years 1–5 | 16.8 | 0.6 | 0.62 | 1.1 | 0.024 | 883 | 870 |
| Amount in Year 1 (\$) | 1,360 | 53 | 0.59 | 97 | 0.013 | 883 | 870 |
| Amount in Year 2 (\$) | 1,543 | 36 | 0.78 | 132 | 0.008 | 883 | 870 |
| Amount in Year 3 (\$) | 1,593 | 22 | 0.87 | 138 | 0.005 | 883 | 870 |
| Amount in Year 4 (\$) | 1,591 | 134 | 0.38 | 152 | 0.029 | 883 | 870 |
| Amount in Year 5 (\$) | 1,724 | 109 | 0.52 | 170 | 0.023 | 883 | 870 |
| Total amount during Years 1–5 (\$) | 7,811 | 354 | 0.55 | 589 | 0.017 | 883 | 870 |

Source: SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of MD PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

N = sample size; OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income.

Appendix Table F.16. MD PROMISE: Impact on the parents' health insurance coverage and expenditures (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Either parent is covered by health insurance | 94.4 | 0.3 | 0.81 | 1.2 | 0.033 | 725 | 719 |
| Average monthly Medicaid and Medicare expenditures in the five years after RA (\$) | 778 | 17 | 0.57 | 30 | 0.018 | 883 | 870 |
| Supplementary outcomes | | | | | | | |
| Covered by private health insurance | 24.9 | -0.1 | 0.96 | 2.2 | -0.003 | 725 | 719 |
| Medicaid and Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 83.7 | 3.4** | 0.03 | 1.5 | 0.164 | 883 | 870 |
| Ever enrolled in Year 2 | 83.6 | 2.5 | 0.11 | 1.6 | 0.117 | 883 | 870 |
| Ever enrolled in Year 3 | 82.8 | 2.4 | 0.14 | 1.6 | 0.109 | 883 | 870 |
| Ever enrolled in Year 4 | 81.6 | 0.7 | 0.67 | 1.7 | 0.030 | 883 | 870 |
| Ever enrolled in Year 5 | 80.1 | 1.2 | 0.50 | 1.8 | 0.047 | 883 | 870 |
| Percentage of months enrolled in Years 1–5 | 78.4 | 2.0 | 0.17 | 1.5 | 0.060 | 883 | 870 |
| Average monthly Medicaid and Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 704 | -5 | 0.86 | 30 | -0.005 | 883 | 870 |
| Year 2 (\$) | 726 | 25 | 0.46 | 34 | 0.025 | 883 | 870 |
| Year 3 (\$) | 784 | 22 | 0.57 | 39 | 0.021 | 883 | 870 |
| Year 4 (\$) | 814 | 24 | 0.56 | 42 | 0.022 | 883 | 870 |
| Year 5 (\$) | 864 | 20 | 0.68 | 49 | 0.016 | 883 | 870 |
| Medicaid participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 82.0 | 4.0** | 0.02 | 1.6 | 0.179 | 883 | 870 |
| Ever enrolled in Year 2 | 81.5 | 3.1* | 0.07 | 1.7 | 0.132 | 883 | 870 |
| Ever enrolled in Year 3 | 80.9 | 2.4 | 0.16 | 1.7 | 0.101 | 883 | 870 |
| Ever enrolled in Year 4 | 79.7 | 0.4 | 0.83 | 1.8 | 0.015 | 883 | 870 |
| Ever enrolled in Year 5 | 77.8 | 0.4 | 0.84 | 1.9 | 0.014 | 883 | 870 |
| Percentage of months enrolled in Years 1–5 | 76.0 | 1.8 | 0.25 | 1.6 | 0.051 | 883 | 870 |

| | Control | | | Standard | | Treatment | Control |
|---|---------|--------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p</i> -value | error | Effect size | group N | group N |
| Average monthly Medicaid expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 535 | -2 | 0.90 | 20 | -0.004 | 883 | 870 |
| Year 2 (\$) | 563 | -3 | 0.89 | 22 | -0.005 | 883 | 870 |
| Year 3 (\$) | 603 | 3 | 0.92 | 26 | 0.004 | 883 | 870 |
| Year 4 (\$) | 625 | -1 | 0.97 | 28 | -0.001 | 883 | 870 |
| Year 5 (\$) | 670 | 11 | 0.76 | 34 | 0.013 | 883 | 870 |
| Years 1–5 (\$) | 599 | 1 | 0.95 | 22 | 0.002 | 883 | 870 |
| Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 12.1 | 0.3 | 0.71 | 0.8 | 0.017 | 883 | 870 |
| Ever enrolled in Year 2 | 13.7 | 0.1 | 0.89 | 0.9 | 0.006 | 883 | 870 |
| Ever enrolled in Year 3 | 14.4 | 0.2 | 0.82 | 0.9 | 0.011 | 883 | 870 |
| Ever enrolled in Year 4 | 14.6 | 0.4 | 0.65 | 1.0 | 0.021 | 883 | 870 |
| Ever enrolled in Year 5 | 15.3 | 0.2 | 0.87 | 1.1 | 0.008 | 883 | 870 |
| Percentage of months enrolled in Years 1–5 | 13.4 | 0.1 | 0.89 | 0.8 | 0.003 | 883 | 870 |
| Average monthly Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 169 | -3 | 0.91 | 27 | -0.004 | 883 | 870 |
| Year 2 (\$) | 163 | 28 | 0.33 | 29 | 0.035 | 883 | 870 |
| Year 3 (\$) | 181 | 19 | 0.51 | 30 | 0.024 | 883 | 870 |
| Year 4 (\$) | 189 | 25 | 0.41 | 31 | 0.031 | 883 | 870 |
| Year 5 (\$) | 194 | 10 | 0.78 | 34 | 0.011 | 883 | 870 |
| Years 1–5 (\$) | 179 | 16 | 0.50 | 24 | 0.022 | 883 | 870 |

Source: CMS administrative records and PROMISE five-year survey (non-Medicare/Medicaid outcomes).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of MD PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

CMS = Centers for Medicare & Medicaid Services; N = sample size.

Appendix Table F.17. MD PROMISE: Impact on the parents' economic well-being (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|---------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Parents' total income in the past year (\$) | 26,271 | 1,154 | 0.43 | 1,469 | 0.044 | 695 | 672 |
| Parents' total income during the five calendar years after RA (\$) | 120,597 | -2,056 | 0.49 | 2,980 | -0.019 | 883 | 870 |
| Supplementary outcomes | | | | | | | |
| Parents' income in calendar years after RA | | | | | | | |
| Year 1 (\$) | 22,257 | -1,013* | 0.06 | 542 | -0.049 | 883 | 870 |
| Year 2 (\$) | 22,986 | -346 | 0.58 | 632 | -0.016 | 883 | 870 |
| Year 3 (\$) | 24,019 | 84 | 0.91 | 703 | 0.004 | 883 | 870 |
| Year 4 (\$) | 25,372 | -169 | 0.82 | 747 | -0.007 | 883 | 870 |
| Year 5 (\$) | 25,963 | -613 | 0.47 | 849 | -0.024 | 883 | 870 |
| Household receives TANF, SNAP, or housing assistance | 58.4 | 1.8 | 0.47 | 2.5 | 0.046 | 715 | 712 |
| Household income in the past year (\$) | 32,425 | 763 | 0.48 | 1,069 | 0.039 | 697 | 693 |

Source: PROMISE five-year survey and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of MD PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

N = sample size; RA = random assignment; SSA = Social Security Administration.

2. Sensitivity analyses

We assessed the sensitivity of the estimated impacts on primary outcomes to methodological choices we incorporated in the main impact estimates. In Appendix Table F.18, we show the impact estimated by the main regression model for each outcome, as well as by alternative models that do not (1) use the survey weights, (2) include covariate adjustment, and (3) use imputed data for outcomes that underwent multiple imputation. The alternative models produced broadly similar results, suggesting that the main model's estimates of program impacts were not sensitive to the choice of estimation method.

We also assessed the extent to which the lack of survey data for some enrollees would influence the estimates of program impacts. In Appendix Table F.19, we compare how the estimated impacts on primary outcomes varied when nonrespondents were included and excluded from analyses of outcomes measured using administrative data. For all outcomes, the impact estimated using the weighted survey respondent sample did not significantly differ from the impact estimated using the administrative analysis sample. The findings suggest that use of the analysis weights minimized the potential for nonresponse bias because the estimated impacts for the survey respondent sample were comparable to those for the full research sample.

Appendix Table F.18. MD PROMISE: Impact on primary outcomes, by estimation approach (values measured at the time of the survey and shown in in percentages, unless otherwise noted)

| Outcome | Main model | No weighting for non- response | No covariate adjustment | No imputation |
|--|------------|--------------------------------------|----------------------------|------------------|
| Enrolled in an educational or training program | -2.4 | -2.3 | -3.6 | n.a. |
| Has a GED, high school diploma, or certificate of completion | -3.8 | -4.1* | -3.8 | n.a. |
| Youth employed in a paid job in the past year | 1.5 | 1.6 | 1.3 | 2.6 |
| Youth earnings in the past year (\$) | 326 | 431 | 307 | 380 |
| Youth earnings during the five calendar years after RA (\$) | 1,393 | n.a. | 1,768* | n.a. |
| Youth self-determination score (scale: 0 to 100) ^a | 0.5 | 0.4 | 0.5 | n.a. |
| Youth expects to be financially independent at age 25 | 2.9 | 2.6 | 2.5 | n.a. |
| Youth received SSA payments in Year 5 after RA | 7.2*** | n.a. | 6.9*** | n.a. |
| Youth total SSA payments in Year 5 after RA (\$) | 330* | n.a. | 329 | n.a. |
| Youth total SSA payments during Years 1–5 after RA (\$) | 1,598*** | n.a. | 1,970*** | n.a. |
| Youth covered by any health insurance | -1.0 | -0.7 | -1.2 | n.a. |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | -18 | n.a. | -18 | n.a. |
| Youth total income in the past year (\$) | 633 | 745 | 649 | 540 |
| Youth total income during the five calendar years after RA (\$) | 3,083*** | n.a. | 3,802*** | n.a. |
| Either parent worked for pay in the past year | 0.3 | 0.3 | -1.8 | n.a. |
| Parents' earnings in the past year (\$) | 1,247 | 1,446 | 188 | 1,332 |
| Parents' earnings during the five calendar years after RA (\$) | -1,847 | n.a. | -6,362 | n.a. |
| Either parent received SSA payments in Year 5 after RA | -0.4 | n.a. | 4.4** | n.a. |
| Parents' total SSA payments received in Year 5 after RA (\$) | 83 | n.a. | 603** | n.a. |
| Parents' total SSA payments during the five years after RA (\$) | -193 | n.a. | 2,615** | n.a. |
| Parents' total income in the past year (\$) | 1,154 | 1,296 | 363 | 1,104 |
| Parents' income during the five calendar years after RA (\$) | -2,056 | n.a. | -3,570 | n.a. |
| Either parent is covered by health insurance | 0.3 | 0.3 | 0.2 | n.a. |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 17 | n.a. | 17 | n.a. |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the impact estimates of MD PROMISE, using different modeling approaches. In the main model, we used covariate adjustment and, for outcomes derived from survey data, we weighted statistics to adjust for survey nonresponse and used multiple imputation when an outcome had a

missing value conditional on the value of another variable. In the model with "No weighting for non-response", we followed the main model but did not apply weights to adjust for non-response. In the model with "No covariate adjustment", we followed the main model but did not include covariates. For the model with "No multiple imputation", we followed the main model except that we excluded cases with outcomes that had a missing value conditional on the value of another variable.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

CMS = Centers for Medicare & Medicaid Services; GED = General Educational Development; N = sample size; n.a.= not applicable; RA = random assignment; SSA = Social Security Administration.

Appendix Table F.19. MD PROMISE: Impact on primary outcomes measured using administrative data, including and excluding five-year survey nonrespondents (percentage, unless otherwise noted)

| | Admin | istrative an samples | alysis | Five-year | | | |
|--|-----------------|----------------------|-----------------|-----------------|----------|-----------------|-----------------------------------|
| Outcome | Control mean | Impact | <i>p-</i> value | Control mean | Impact | <i>p</i> -value | <i>p</i> -value for difference |
| Youth earnings during the five calendar years after RA (\$) | 12,458 | 1,393 | 0.14 | 12,151 | 1,572 | 0.15 | 0.86 |
| Youth received SSA payments in Year 5 after RA | 60.5 | 7.2*** | 0.00 | 64.4 | 7.3*** | 0.00 | 0.96 |
| Youth total SSA payments in Year 5 after RA (\$) | 4,857 | 330* | 0.09 | 5,210 | 301 | 0.17 | 0.89 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 31,768 | 1,598*** | 0.01 | 32,571 | 1,359** | 0.04 | 0.69 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,066 | -18 | 0.53 | 1,096 | -16 | 0.62 | 0.95 |
| Youth total income during the five calendar years after RA (\$) | 45,632 | 3,083*** | 0.00 | 46,243 | 3,099*** | 0.01 | 0.99 |
| Parents' earnings during the five calendar years after RA (\$) | 106,730 | -1,847 | 0.54 | 110,971 | -3,467 | 0.34 | 0.63 |
| Either parent received SSA payments in Year 5 after RA | 24.6 | -0.4 | 0.77 | 24.8 | 0.9 | 0.56 | 0.37 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 2,689 | 83 | 0.69 | 2,762 | 173 | 0.46 | 0.68 |
| Parents' total SSA payments during the five years after RA (\$) | 12,500 | -193 | 0.78 | 12,370 | 401 | 0.58 | 0.40 |
| Parents' total income during the five calendar years after RA (\$) | 120,597 | -2,056 | 0.49 | 124,738 | -3,023 | 0.40 | 0.77 |
| Parents' average monthly Medicaid and Medicare expenditures in years after RA in Years 1-5 after RA (\$) | 778 | 17 | 0.57 | 771 | 22 | 0.52 | 0.88 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of MD PROMISE for administrative analysis samples and five-year survey respondents. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For the sample of five-year survey respondents, we weighted the statistics to adjust for survey nonresponse, applying youth weights for youths' outcomes and parent weights for parents' outcomes.

*/**/*** Impact estimate is significantly different from zero (p-value is less than .10/.05/.01) using a two-tailed t-test.

+/++/+++ Impact estimates for the two samples are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

CMS = Centers for Medicare & Medicaid Services; N = sample size; RA = random assignment. SSA = Social Security Administration.

3. Subgroup impact estimates

We estimated the five-year impacts for key subgroups of evaluation enrollees to understand whether the impacts of MD PROMISE differed by enrollee characteristics. We focused on subgroups defined by the following baseline characteristics of youth: age (ages 14 and 15, and age 16); sex (females and males); whether a youth's parent received SSA payments at the time of RA (yes or no); primary impairment (intellectual or developmental disabilities, other mental impairments, and other disabilities); and whether the survey respondent completed the five-year survey before or after the onset of the COVID-19 pandemic (yes or no). Appendix Tables F.20–F.25 present the subgroup impact estimates.

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Appendix Table F.20. MD PROMISE: Impacts on primary outcomes, by youth's age (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | | | Age 14 and | d 15 | | | <i>p</i> -value | | | | |
|---|-----------------|--------|-----------------|----------------------|--------------------|-----------------|-----------------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p-</i> value | Treatment group N | Control group N | for subgroup difference |
| Youth enrolled in an educational or training program | 49.6 | -1.5 | 0.68 | 374 | 391 | 26.2 | -3.5 | 0.31 | 336 | 330 | 0.68 |
| Youth has a GED, high school diploma, or certificate of completion | 62.7 | -2.1 | 0.55 | 383 | 398 | 82.1 | -5.6* | 0.07 | 351 | 346 | 0.45 |
| Youth employed in a paid job in the past year | 42.6 | 2.6 | 0.46 | 386 | 401 | 47.5 | 0.2 | 0.96 | 352 | 347 | 0.64 |
| Youth earnings in the past year (\$) | 4,583 | -478 | 0.44 | 386 | 401 | 5,445 | 1,204 | 0.13 | 352 | 347 | 0.09† |
| Youth earnings during the five calendar years after RA (\$) | 8,980 | 390 | 0.69 | 474 | 494 | 16,399 | 2,587 | 0.12 | 462 | 436 | 0.25 |
| Youth self-determination score (scale: 0 to 100) | 78.3 | 0.2 | 0.85 | 225 | 244 | 78.7 | 0.8 | 0.56 | 235 | 213 | 0.77 |
| Youth expects to be financially independent at age 25 | 62.6 | 3.5 | 0.43 | 237 | 245 | 65.9 | 2.4 | 0.59 | 238 | 223 | 0.86 |
| Youth received SSA payments in Year 5 after RA | 67.0 | 4.5 | 0.11 | 474 | 494 | 53.2 | 10.1*** | 0.00 | 462 | 436 | 0.19 |
| Youth total SSA payments in Year 5 after RA (\$) | 5,148 | 237 | 0.37 | 474 | 494 | 4,528 | 430 | 0.13 | 462 | 436 | 0.62 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 32,958 | 1,180 | 0.12 | 474 | 494 | 30,419 | 2,045** | 0.02 | 462 | 436 | 0.45 |
| Youth covered by any health insurance | 91.7 | 0.6 | 0.75 | 376 | 386 | 91.0 | -2.8 | 0.24 | 336 | 333 | 0.26 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,184 | -17 | 0.68 | 474 | 494 | 932 | -19 | 0.62 | 462 | 436 | 0.96 |
| Youth total income in the past year (\$) | 9,966 | -234 | 0.69 | 386 | 401 | 10,244 | 1,579** | 0.04 | 352 | 347 | 0.06† |
| Youth total income during the five calendar years after RA (\$) | 43,518 | 1,550 | 0.15 | 474 | 494 | 48,029 | 4,826*** | 0.00 | 462 | 436 | 0.08† |

| | Age 14 and 15 | | | | | | | Age 16 | | | <i>p</i> -value |
|--|-----------------|--------|-----------------|----------------------|--------------------|-----------------|--------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Either parent worked for pay in the past year | 68.4 | -1.8 | 0.57 | 378 | 390 | 65.2 | 2.7 | 0.42 | 352 | 331 | 0.32 |
| Parents' earnings in the past year (\$) | 23,433 | 532 | 0.79 | 378 | 390 | 22,556 | 2,043 | 0.34 | 352 | 332 | 0.60 |
| Parents' earnings during the five calendar years after RA (\$) | 111,122 | 871 | 0.84 | 449 | 466 | 101,664 | -4,673 | 0.29 | 434 | 404 | 0.36 |
| Either parent received SSA payments in Year 5 after RA | 23.0 | -1.6 | 0.39 | 449 | 466 | 26.5 | 0.9 | 0.67 | 434 | 404 | 0.37 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 2,606 | -242 | 0.40 | 449 | 466 | 2,785 | 437 | 0.15 | 434 | 404 | 0.10 |
| Parents' total SSA payments during the five years after RA (\$) | 11,666 | -710 | 0.46 | 449 | 466 | 13,461 | 369 | 0.71 | 434 | 404 | 0.43 |
| Parents' total income in the past year (\$) | 26,485 | 505 | 0.80 | 360 | 369 | 26,012 | 1,888 | 0.38 | 335 | 303 | 0.63 |
| Parents' total income during the five calendar years after RA (\$) | 124,123 | -10 | 1.00 | 449 | 466 | 116,529 | -4,149 | 0.33 | 434 | 404 | 0.48 |
| Either parent is covered by health insurance | 93.6 | 1.9 | 0.24 | 373 | 388 | 95.3 | -1.5 | 0.38 | 352 | 331 | 0.14 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 771 | 0 | 0.99 | 449 | 466 | 786 | 36 | 0.44 | 434 | 404 | 0.56 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of MD PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

CMS = Centers for Medicare & Medicaid Services; GED = General Educational Development; N = sample size; RA = random assignment; SSA = Social Security Administration.

Appendix Table F.21. MD PROMISE: Impacts on primary outcomes, by youth's sex (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | | | Male | | | | <i>p</i> -value | | | | |
|---|-----------------|----------|-----------------|----------------------|--------------------|-----------------|-----------------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Youth enrolled in an educational or training program | 36.6 | -1.9 | 0.52 | 474 | 453 | 42.6 | -3.3 | 0.43 | 236 | 268 | 0.79 |
| Youth has a GED, high school diploma, or certificate of completion | 70.6 | -4.1 | 0.16 | 488 | 469 | 74.0 | -3.2 | 0.41 | 246 | 275 | 0.85 |
| Youth employed in a paid job in the past year | 44.1 | 2.6 | 0.44 | 490 | 471 | 46.4 | -0.5 | 0.90 | 248 | 277 | 0.57 |
| Youth earnings in the past year (\$) | 5,253 | 279 | 0.66 | 490 | 471 | 4,530 | 414 | 0.62 | 248 | 277 | 0.90 |
| Youth earnings during the five calendar years after RA (\$) | 12,601 | 1,534 | 0.21 | 629 | 590 | 12,211 | 1,127 | 0.45 | 307 | 340 | 0.83 |
| Youth self-determination score (scale: 0 to 100) | 78.7 | 0.3 | 0.76 | 295 | 263 | 78.3 | 0.8 | 0.63 | 165 | 194 | 0.81 |
| Youth expects to be financially independent at age 25 | 62.1 | 5.4 | 0.18 | 302 | 268 | 67.1 | -1.0 | 0.84 | 173 | 200 | 0.31 |
| Youth received SSA payments in Year 5 after RA | 58.6 | 7.9*** | 0.00 | 629 | 590 | 63.8 | 5.9 | 0.10 | 307 | 340 | 0.65 |
| Youth total SSA payments in Year 5 after RA (\$) | 4,714 | 381 | 0.11 | 629 | 590 | 5,106 | 234 | 0.48 | 307 | 340 | 0.72 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 31,642 | 1,571** | 0.03 | 629 | 590 | 31,986 | 1,649* | 0.09 | 307 | 340 | 0.95 |
| Youth covered by any health insurance | 89.3 | -0.6 | 0.76 | 469 | 454 | 95.0 | -1.7 | 0.45 | 243 | 265 | 0.73 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,023 | -26 | 0.45 | 629 | 590 | 1,140 | -3 | 0.95 | 307 | 340 | 0.71 |
| Youth income in the past year (\$) | 10,239 | 645 | 0.28 | 490 | 471 | 9,850 | 610 | 0.43 | 248 | 277 | 0.97 |
| Youth total income during the five calendar years after RA (\$) | 45,497 | 3,295*** | 0.01 | 629 | 590 | 45,868 | 2,680* | 0.08 | 307 | 340 | 0.75 |
| Either parent worked for pay in the past year | 65.9 | -1.3 | 0.67 | 490 | 461 | 68.7 | 3.3 | 0.37 | 240 | 260 | 0.33 |

| | | | | <i>p</i> -value | | | | | | | |
|---|-----------------|--------|-----------------|----------------------|--------------------|-----------------|--------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Parents' earnings in the past year (\$) | 22,603 | 599 | 0.74 | 490 | 462 | 23,750 | 2,457 | 0.31 | 240 | 260 | 0.54 |
| Parents' earnings during the five calendar years after RA (\$) | 105,549 | -579 | 0.87 | 594 | 551 | 108,770 | -4,244 | 0.44 | 289 | 319 | 0.58 |
| Either parent received SSA payments in Year 5 after RA | 24.9 | 0.1 | 0.96 | 594 | 551 | 24.1 | -1.4 | 0.56 | 289 | 319 | 0.61 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 2,506 | 357 | 0.14 | 594 | 551 | 3,005 | -436 | 0.25 | 289 | 319 | 0.07† |
| Parents' total SSA payments during the five years after RA (\$) | 12,091 | 438 | 0.59 | 594 | 551 | 13,205 | -1,387 | 0.26 | 289 | 319 | 0.21 |
| Parents' income in the past year (\$) | 25,420 | 790 | 0.66 | 466 | 430 | 27,725 | 1,833 | 0.46 | 229 | 242 | 0.73 |
| Parents' income during the five calendar years after RA (\$) | 119,071 | -333 | 0.93 | 594 | 551 | 123,233 | -5,314 | 0.33 | 289 | 319 | 0.44 |
| Either parent is covered by health insurance | 93.9 | 0.1 | 0.97 | 487 | 461 | 95.2 | 0.7 | 0.71 | 238 | 258 | 0.80 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 784 | 37 | 0.33 | 594 | 551 | 768 | -20 | 0.70 | 289 | 319 | 0.37 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of MD PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (p-value is less than .10/.05/.01) using a two-tailed t-test.

†/††/††† Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table F.22. MD PROMISE: Impacts on primary outcomes, by whether parent received SSA payments before RA (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | No parent received SSA payments | | | | | | At least one parent received SSA payments | | | | | |
|---|---------------------------------|----------|-----------------|----------------------|--------------------|-----------------|---|-----------------|----------------------|--------------------|-------------------------------|--|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference | |
| Youth enrolled in an educational or training program | 41.1 | -3.2 | 0.27 | 509 | 541 | 33.3 | -1.5 | 0.78 | 164 | 132 | 0.78 | |
| Youth has a GED, high school diploma, or certificate of completion | 71.6 | -1.9 | 0.49 | 529 | 559 | 73.3 | -8.9* | 0.08 | 168 | 136 | 0.23 | |
| Youth employed in a paid job in the past year | 44.3 | 1.2 | 0.70 | 531 | 561 | 47.1 | 2.4 | 0.68 | 170 | 136 | 0.85 | |
| Youth earnings in the past year (\$) | 4,904 | 258 | 0.65 | 531 | 561 | 5,291 | 554 | 0.65 | 170 | 136 | 0.83 | |
| Youth earnings during the five calendar years after RA (\$) | 12,393 | 1,066 | 0.33 | 671 | 708 | 13,182 | 2,295 | 0.29 | 212 | 162 | 0.61 | |
| Youth self-determination score (scale: 0 to 100) | 78.7 | 1.0 | 0.33 | 323 | 337 | 80.1 | -3.1* | 0.08 | 111 | 95 | 0.04†† | |
| Youth expects to be financially independent at age 25 | 63.9 | 4.0 | 0.27 | 337 | 350 | 61.6 | 0.1 | 0.99 | 113 | 93 | 0.61 | |
| Youth received SSA payments in Year 5 after RA | 59.9 | 7.4*** | 0.00 | 671 | 708 | 61.7 | 8.4* | 0.08 | 212 | 162 | 0.86 | |
| Youth total SSA payments in Year 5 after RA (\$) | 4,700 | 452** | 0.04 | 671 | 708 | 5,293 | 152 | 0.73 | 212 | 162 | 0.54 | |
| Youth total SSA payments during Years 1–5 after RA (\$) | 30,556 | 2,114*** | 0.00 | 671 | 708 | 35,868 | 150 | 0.91 | 212 | 162 | 0.17 | |
| Youth covered by any health insurance | 91.3 | -0.2 | 0.93 | 510 | 537 | 93.2 | -4.5 | 0.18 | 166 | 132 | 0.24 | |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,053 | -17 | 0.60 | 671 | 708 | 1,058 | 35 | 0.57 | 212 | 162 | 0.45 | |
| Youth income in the past year (\$) | 9,924 | 608 | 0.27 | 531 | 561 | 10,758 | 702 | 0.55 | 170 | 136 | 0.94 | |
| Youth total income during the five calendar years after RA (\$) | 44,325 | 3,255*** | 0.00 | 671 | 708 | 50,427 | 2,898 | 0.19 | 212 | 162 | 0.88 | |
| Either parent worked for pay in the past year | 77.8 | -2.1 | 0.42 | 532 | 547 | 25.7 | 11.2** | 0.05 | 163 | 124 | 0.03†† | |

| | N | lo parent r | eceived S | SA payment | s | At leas | <i>p-</i> value | | | | |
|--|-----------------|-------------|-----------------|----------------------|--------------------|-----------------|-----------------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Parents' earnings in the past year (\$) | 27,395 | 338 | 0.85 | 532 | 547 | 6,298 | 3,580 | 0.10 | 163 | 125 | 0.24 |
| Parents' earnings during the five calendar years after RA (\$) | 124,613 | -2,402 | 0.51 | 671 | 708 | 28,573 | 93 | 0.98 | 212 | 162 | 0.68 |
| Either parent received SSA payments in Year 5 after RA | 9.0 | 0.5 | 0.74 | 671 | 708 | 92.6 | -3.9 | 0.19 | 212 | 162 | 0.19 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 1,089 | 118 | 0.60 | 671 | 708 | 9,683 | -7 | 0.99 | 212 | 162 | 0.83 |
| Parents' total SSA payments during the five years after RA (\$) | 3,581 | -104 | 0.88 | 671 | 708 | 51,478 | -365 | 0.85 | 212 | 162 | 0.90 |
| Parents' income in the past year (\$) | 28,510 | 558 | 0.75 | 532 | 547 | 16,423 | 3,437 | 0.10 | 163 | 125 | 0.28 |
| Parents' income during the five calendar years after RA (\$) | 129,048 | -2,530 | 0.48 | 671 | 708 | 83,661 | -227 | 0.96 | 212 | 162 | 0.69 |
| Either parent is covered by health insurance | 93.4 | 1.9 | 0.19 | 528 | 544 | 98.6 | -5.4** | 0.02 | 162 | 125 | 0.01††† |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 596 | -6 | 0.82 | 671 | 708 | 1,574 | 100 | 0.35 | 212 | 162 | 0.34 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of MD PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Impact estimates for subgroups are significantly different from each other (p-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table F.23. MD PROMISE: Impacts on primary outcomes, by youth's primary impairment (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | | tellectual mental dis | | Other m | ental impa | airments | Oth | er impairn | nents | <i>p</i> -value for |
|---|--------------|--------------------------|-----------------|-----------------|------------|-----------------|--------------|------------|-----------------|------------------------|
| Outcome | Control mean | Impact | <i>p-</i> value | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | subgroup difference |
| Youth enrolled in an educational or training program | 43.6 | 0.3 | 0.93 | 30.6 | -2.5 | 0.48 | 51.9 | -9.2 | 0.15 | 0.45 |
| Youth has a GED, high school diploma, or certificate of completion | 71.5 | -0.6 | 0.87 | 68.2 | -2.8 | 0.43 | 83.2 | -14.4*** | 0.01 | 0.10† |
| Youth employed in a paid job in the past year | 33.3 | 8.6** | 0.04 | 53.5 | -1.9 | 0.63 | 46.2 | -5.3 | 0.43 | 0.10† |
| Youth earnings in the past year (\$) | 3,155 | 704 | 0.28 | 6,395 | 425 | 0.61 | 5,009 | -942 | 0.40 | 0.43 |
| Youth earnings during the five calendar years after RA (\$) | 8,749 | 2,895** | 0.03 | 16,141 | 296 | 0.85 | 9,942 | 1,371 | 0.52 | 0.43 |
| Youth self-determination score (scale: 0 to 100) | 79.7 | -1.4 | 0.31 | 76.0 | 2.3 | 0.13 | 82.8 | -0.7 | 0.67 | 0.17 |
| Youth expects to be financially independent at age 25 | 61.7 | 3.8 | 0.48 | 65.3 | 4.0 | 0.37 | 66.9 | -2.6 | 0.73 | 0.73 |
| Youth received SSA payments in Year 5 after RA | 70.9 | 8.9*** | 0.01 | 50.3 | 7.9** | 0.01 | 67.3 | 1.4 | 0.80 | 0.48 |
| Youth total SSA payments in Year 5 after RA (\$) | 5,890 | 571* | 0.07 | 3,849 | 356 | 0.21 | 5,507 | -297 | 0.55 | 0.33 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 34,315 | 1,803** | 0.04 | 30,238 | 1,275 | 0.14 | 30,486 | 2,218 | 0.13 | 0.83 |
| Youth covered by any health insurance | 93.7 | -1.1 | 0.62 | 88.2 | -0.8 | 0.77 | 95.7 | -1.8 | 0.57 | 0.97 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 992 | -7 | 0.87 | 1,021 | -38 | 0.29 | 1,368 | 23 | 0.82 | 0.77 |
| Youth income in the past year (\$) | 9,372 | 1,104* | 0.07 | 10,499 | 693 | 0.39 | 10,566 | -698 | 0.49 | 0.30 |
| Youth total income during the five calendar years after RA (\$) | 45,278 | 4,770*** | 0.00 | 47,114 | 1,727 | 0.26 | 41,986 | 3,549 | 0.10 | 0.33 |
| Either parent worked for pay in the past year | 67.6 | -0.1 | 0.98 | 62.7 | 3.9 | 0.28 | 77.3 | -9.8* | 0.08 | 0.12 |

| | | tellectual mental dis | | Other m | ental impa | airments | | | nents | <i>p</i> -value for |
|--|-----------------|--------------------------|-----------------|-----------------|------------|-----------------|-----------------|-----------|-----------------|------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | subgroup difference |
| Parents' earnings in the past year (\$) | 22,146 | 4,197* | 0.10 | 20,670 | 1,712 | 0.37 | 31,653 | -7,189* | 0.06 | 0.04†† |
| Parents' earnings during the five calendar years after RA (\$) | 114,294 | -5,570 | 0.26 | 92,166 | 5,897 | 0.16 | 133,793 | -17,536** | 0.04 | 0.02†† |
| Either parent received SSA payments in Year 5 after RA | 23.6 | -0.8 | 0.74 | 29.6 | -2.8 | 0.17 | 11.6 | 8.1** | 0.01 | 0.02†† |
| Parents' total SSA payments received in Year 5 after RA (\$) | 2,452 | 93 | 0.77 | 3,285 | -311 | 0.30 | 1,418 | 1,304** | 0.03 | 0.05† |
| Parents' total SSA payments during the five years after RA (\$) | 11,197 | 542 | 0.62 | 15,297 | -1,579 | 0.12 | 6,961 | 2,637 | 0.15 | 0.09† |
| Parents' income in the past year (\$) | 26,221 | 3,326 | 0.20 | 23,930 | 1,635 | 0.39 | 32,934 | -5,406 | 0.15 | 0.14 |
| Parents' income during the five calendar years after RA (\$) | 126,662 | -4,757 | 0.33 | 109,212 | 3,911 | 0.34 | 141,408 | -14,376* | 0.09 | 0.10† |
| Either parent is covered by health insurance | 92.1 | 1.2 | 0.58 | 95.8 | 1.0 | 0.52 | 95.4 | -3.9 | 0.23 | 0.37 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 776 | 27 | 0.63 | 860 | -7 | 0.88 | 538 | 70 | 0.18 | 0.54 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of MD PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table F.24. MD PROMISE: Sample sizes for primary outcomes, by youth's primary impairment

| | | developmental bilities | Other menta | l impairments | Other impairments | | |
|---|----------------------|---------------------------|----------------------|--------------------|--------------------|----------------------|--|
| Outcome | Treatment group N | Control group N | Treatment group N | Control group N | Control group N | Treatment group N | |
| Youth enrolled in an educational or training program | 269 | 271 | 334 | 335 | 107 | 115 | |
| Youth has a GED, high school diploma, or certificate of completion | 277 | 276 | 345 | 349 | 112 | 119 | |
| Youth employed in a paid job in the past year | 281 | 278 | 345 | 351 | 112 | 119 | |
| Youth earnings in the past year (\$) | 281 | 278 | 345 | 351 | 112 | 119 | |
| Youth earnings during the five calendar years after RA (\$) | 342 | 340 | 452 | 443 | 142 | 147 | |
| Youth self-determination score (scale: 0 to 100) | 168 | 172 | 218 | 211 | 74 | 74 | |
| Youth expects to be financially independent at age 25 | 172 | 171 | 224 | 222 | 79 | 75 | |
| Youth received SSA payments in Year 5 after RA | 342 | 340 | 452 | 443 | 142 | 147 | |
| Youth total SSA payments in Year 5 after RA (\$) | 342 | 340 | 452 | 443 | 142 | 147 | |
| Youth total SSA payments during Years 1–5 after RA (\$) | 342 | 340 | 452 | 443 | 142 | 147 | |
| Youth covered by any health insurance | 275 | 270 | 330 | 336 | 107 | 113 | |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 342 | 340 | 452 | 443 | 142 | 147 | |
| Youth income in the past year (\$) | 281 | 278 | 345 | 351 | 112 | 119 | |
| Youth total income during the five calendar years after RA (\$) | 342 | 340 | 452 | 443 | 142 | 147 | |
| Either parent worked for pay in the past year | 276 | 265 | 346 | 337 | 108 | 119 | |
| Parents' earnings in the past year (\$) | 276 | 266 | 346 | 337 | 108 | 119 | |
| Parents' earnings during the five calendar years after RA (\$) | 323 | 313 | 424 | 419 | 136 | 138 | |
| Either parent received SSA payments in Year 5 after RA | 323 | 313 | 424 | 419 | 136 | 138 | |

| | | developmental pilities | Other menta | l impairments | Other impairments | | |
|---|----------------------|---------------------------|----------------------|--------------------|--------------------|----------------------|--|
| Outcome | Treatment group N | Control group N | Treatment group N | Control group N | Control group N | Treatment group N | |
| Parents' total SSA payments received in Year 5 after RA (\$) | 323 | 313 | 424 | 419 | 136 | 138 | |
| Parents' total SSA payments during the five years after RA (\$) | 323 | 313 | 424 | 419 | 136 | 138 | |
| Parents' income in the past year (\$) | 261 | 243 | 329 | 316 | 105 | 113 | |
| Parents' income during the five calendar years after RA (\$) | 323 | 313 | 424 | 419 | 136 | 138 | |
| Either parent is covered by health insurance | 273 | 266 | 345 | 336 | 107 | 117 | |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 323 | 313 | 424 | 419 | 136 | 138 | |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the sample size by subgroup for the estimates reported in Appendix Table F.23.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table F.25. MD PROMISE: Impacts on primary outcomes, by whether the survey respondent completed the five-year survey before or during the pandemic (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | | Ве | fore pand | lemic | | | Du | ring pande | mic | | <i>p</i> -value |
|--|-----------------|--------|-----------------|----------------------|--------------------|-----------------|--------|-----------------|----------------------|-----------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Youth enrolled in an educational or training program | 34.7 | -9.5** | 0.03 | 207 | 230 | 40.7 | 0.7 | 0.82 | 498 | 484 | 0.05† |
| Youth has a GED, high school diploma, or certificate of completion | 74.8 | -4.4 | 0.29 | 212 | 235 | 70.5 | -3.6 | 0.21 | 517 | 502 | 0.88 |
| Youth employed in a paid job in the past year | 51.0 | 3.8 | 0.43 | 215 | 236 | 42.5 | 0.1 | 0.97 | 518 | 505 | 0.52 |
| Youth earnings in the past year (\$) | 5,368 | 993 | 0.30 | 215 | 236 | 4,869 | -33 | 0.96 | 518 | 505 | 0.36 |
| Youth self-determination score (scale: 0 to 100) | 77.6 | 2.0 | 0.19 | 164 | 182 | 79.1 | -0.4 | 0.73 | 296 | 275 | 0.21 |
| Youth expects to be financially independent at age 25 | 65.1 | 6.2 | 0.21 | 165 | 183 | 63.7 | 1.3 | 0.74 | 310 | 285 | 0.44 |
| Youth covered by any health insurance | 89.3 | -0.3 | 0.93 | 208 | 223 | 92.3 | -1.4 | 0.44 | 504 | 496 | 0.76 |
| Youth income in the past year (\$) | 10,740 | 1,530* | 0.09 | 215 | 236 | 9,849 | 229 | 0.68 | 518 | 505 | 0.22 |
| Either parent worked for pay in the past year | 66.8 | 0.7 | 0.87 | 228 | 246 | 67.0 | 0.2 | 0.93 | 502 | 475 | 0.93 |
| Parents' earnings in the past year (\$) | 21,081 | 1,672 | 0.50 | 228 | 246 | 24,019 | 981 | 0.59 | 502 | 476 | 0.82 |
| Parents' income in the past year (\$) | 24,234 | 2,266 | 0.36 | 218 | 228 | 27,297 | 571 | 0.76 | 477 | 444 | 0.58 |
| Either parent is covered by health insurance | 93.2 | 2.1 | 0.33 | 227 | 246 | 94.9 | -0.6 | 0.68 | 498 | 473 | 0.30 |

Source: PROMISE five-year surveys.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of MD PROMISE on outcomes derived from survey data. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. We weighted statistics to adjust for survey nonresponse. We defined before the pandemic as before March 13, 2020.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size

C. Findings from the benefit-cost analysis

In this section, we present findings from the benefit-cost analysis of MD PROMISE. First, we present benefits and costs estimated through the main model. Second, we present the results of sensitivity analyses. Third, we present the projected accrual of net benefits beyond the five-year evaluation period.

1. Benefit-cost estimates

Appendix Table F.26 provides estimates of the program's benefits and indirect costs, the costs of program components, and benefit-cost statistics estimated using the main model as described in Appendix B.

| | | Fe | ederal govern | iment | State and local | |
|---|---|------------|---------------|---|--|--|
| Benefit or cost measure | PROMISE youth and families (A) | SSA (B) | ED (C) | Federal government as a whole ^a (D) | government, including PROMISE partners (E) | All key stakeholders (F = A + D + E) |
| Panel 1: Quantitative outcome measures | | | | | | |
| Youth outcomes | | | | | | |
| Earnings | 1,457 | 0 | 0 | 0 | 0 | 1,457 |
| Fringe benefits | 369 | 0 | 0 | 0 | 0 | 369 |
| Income, payroll, and sales taxes | -266 | 181 | 0 | 232 | 34 | 0 |
| Work-related and child care costs | -173 | 0 | 0 | 0 | 0 | -173 |
| SSI benefits | 1,363 | -1,363 | 0 | -1,363 | 0 | 0 |
| OASDI benefits | 296 | -296 | 0 | -296 | 0 | 0 |
| SSI administrative costs | 0 | -106 | 0 | -106 | 0 | -106 |
| SSDI administrative costs | 0 | -6 | 0 | -6 | 0 | -6 |
| Medicaid and Medicare expenditures and administrative costs | -1,067 | 0 | 0 | 779 | 379 | 91 |
| Education-related costs | -35 | 0 | 0 | 0 | 0 | -35 |
| Incarceration | 0 | 0 | 0 | 0 | 41 | 41 |
| Parent outcomes | | | | | | |
| Earnings | -1,964 | 0 | 0 | 0 | 0 | -1,964 |
| Fringe benefits | -497 | 0 | 0 | 0 | 0 | -497 |
| Income, payroll, and sales taxes | 434 | -244 | 0 | -312 | -122 | 0 |
| Work-related and child care costs | 340 | 0 | 0 | 0 | 0 | 340 |
| SSI benefits | -587 | 587 | 0 | 587 | 0 | 0 |
| OASDI benefits | 368 | -368 | 0 | -368 | 0 | 0 |
| SSI administrative costs | 0 | 46 | 0 | 46 | 0 | 46 |
| SSDI administrative costs | 0 | -7 | 0 | -7 | 0 | -7 |
| Medicaid and Medicare expenditures and administrative costs | 1,080 | 0 | 0 | -1,131 | -41 | -92 |

Appendix Table F.26. MD PROMISE: Benefits and costs (\$) over the five-year evaluation time period, by accounting perspective

| | | F | ederal govern | ment | State and local | |
|--|---|------------|---------------|---|-----------------|--|
| Benefit or cost measure | PROMISE youth and families (A) | SSA (B) | ED (C) | Federal government as a whole ^a (D) | | All key stakeholders (F = A + D + E) |
| Household outcomes | | | | | · | |
| TANF, SNAP, housing assistance, and related administrative costs | -282 | 0 | 0 | -73 | 344 | -12 |
| Total | 835 | -1,576 | 0 | -2,019 | 635 | -549 |
| Panel 2: Costs of program components | | | | | | |
| Program administration | 0 | 0 | -6,140 | -6,140 | 0 | -6,140 |
| Employment services | 0 | 0 | -3,250 | -3,250 | 2 | -3,249 |
| Education services | 0 | 0 | -1,021 | -1,021 | 0 | -1,021 |
| Case management services | 0 | 0 | -4,237 | -4,237 | 0 | -4,237 |
| Financial and benefits counseling | 0 | 0 | -2,194 | -2,194 | 0 | -2,194 |
| Parent training and information services | 0 | 0 | -312 | -312 | 0 | -312 |
| Youth self-determination services | 0 | 0 | -2,147 | -2,147 | 0 | -2,147 |
| Total | 0 | 0 | -19,302 | -19,302 | 2 | -19,300 |
| Panel 3: Benefit-cost statistics | | | | | | |
| Net benefits (benefits minus costs) | 835 | -1,576 | -19,302 | -21,321 | 636 | -19,850 |
| Net benefit ratio ^b | n.a. | n.a. | 0 | -0.10 | -401.40 | -0.03 |

Source: See Appendix Table B.4 for details on the sources and imputation methods for each benefit or cost component.

Note: To construct each component of the benefit-cost analysis, we used the estimated impacts on key outcomes (regardless of whether they were statistically significant), or imputation methods that combined the impact estimates with data from external sources. To construct program costs, we used data from program administrative records, financial documents, staff activity logs, and staff interviews. All benefits and costs are dollars per treatment group family over five years and are inflation-adjusted to 2020 dollars and discounted to 2020 present value.

^a The perspective of the federal government as a whole incorporates the perspectives of SSA, ED, and other federal agencies that might experience benefits or costs because of PROMISE.

^b Calculated for all key stakeholders as the sum of all quantitative measures in Panel 1, which include benefits and indirect costs, divided by the program costs.

ED = U.S. Department of Education; SNAP = Supplemental Nutrition Assistance Program; SSA = Social Security Administration; SSDI = Social Security Disability Insurance; SSI = Supplemental Security Income; TANF = Temporary Assistance for Needy Families.

2. Sensitivity analyses

As noted in Appendix B, we conducted three analyses to assess the sensitivity of the benefit-cost estimates to changes in the underlying assumptions and methodological choices. First, we sampled with replacement from the study population 1,000 times to create 1,000 random samples with an equal size as the true sample. For each sample, we calculated the net benefit for each accounting perspective. In Appendix Table F.27, we show the sampling distribution of the net benefit estimates from the perspective of the different stakeholders. The estimated net benefits for all key stakeholders were negative across the entire distribution, suggesting that the main conclusion (that MD PROMISE did not generate net benefit estimate for all key stakeholders) is robust to sampling variability. The confidence interval on the net benefit estimate for all key stakeholders (-\$19,850) ranged from -\$27,259 (the 2.5th percentile) to -\$12,352 (the 97.5th percentile).

Second, we recalculated the net benefits using only the impact estimates that were significant at the 10 percent level (Appendix Table F.28). From the perspective of all stakeholders, the net benefit was within 2 percent of the estimate from the main analysis and continued to be negative and sizeable.

Appendix Table F.28 shows whether the benefit-cost results were sensitive to the assumptions we used to estimate some of the individual components. From the perspective of all key stakeholders, net benefits under the alternative assumptions were always within 7 percent of the net benefits estimated under the main analysis, and net benefits were sizeable and negative under each scenario. However, net benefits for MD PROMISE youth and families were sensitive to the alternative assumptions. Specifically, while the net benefit for youth and families was \$835 based on the main model, the net benefit became -\$940 when only statistically significant estimates were used in the calculation. The reason the results were particularly sensitive to this assumption is that the impact estimates on earnings for both youth and parents were sizeable, but not statistically significant. Nonetheless, because the earnings estimates are small relative to the program costs, the main conclusion for all key stakeholders (that net benefits are negative and sizeable) is robust to alternative assumptions.

| | | | Federal governm | ent | State and local | | |
|-------------------|----------------------------|--------|-----------------|--------------------------------------|---|-------------------------|--|
| | PROMISE youth and families | SSA | ED | Federal government as a wholeª | government, including PROMISE partners | All key stakeholders | |
| Original estimate | 835 | -1,576 | -19,302 | -21,321 | 636 | -19,850 | |
| Min | -13,740 | -4,898 | -19,462 | -32,072 | -4,543 | -32,339 | |
| 2.5th percentile | -8,027 | -3,951 | -19,381 | -27,982 | -2,515 | -27,259 | |
| 25th percentile | -2,244 | -2,308 | -19,327 | -23,709 | -383 | -22,447 | |
| 50th percentile | 542 | -1,518 | -19,299 | -21,111 | 661 | -19,759 | |
| 75th percentile | 3,555 | -759 | -19,268 | -18,638 | 1,775 | -17,243 | |
| 97.5th percentile | 8,876 | 673 | -19,207 | -13,740 | 3,548 | -12,352 | |
| Max | 15,395 | 2,438 | -19,171 | -10,018 | 5,828 | -6,473 | |

Appendix Table F.27. MD PROMISE: Sensitivity of net benefits to sampling variability

Source: See Appendix Table B.4 for details on the sources and methods for the net-benefit calculation.

Note: We quantified uncertainty in the estimated net benefits by constructing non-parametric bootstrap confidence intervals. We sampled with replacement from the study population 1,000 times and then re-estimated all cost and benefit parameters for these 1,000 random samples. We then calculated the net benefits for each bootstrap sample. The 2.5th percentile and 97.5th percentile of the resulting values represent the 95 percent confidence interval of the net benefit estimate.

| | | F | ederal governr | nent | State and local | |
|---|--------------------------------------|------------|----------------|---|--|--|
| Assumption | PROMISE youth and families (A) | SSA (B) | ED (C) | Federal government as a whole ^a (D) | government, including PROMISE partners (E) | All key stakeholders (F = A + D + E) |
| Main benefit-cost analysis model | 835 | -1,576 | -19,302 | -21,321 | 636 | -19,850 |
| Excluded fringe benefits | 964 | -1,576 | -19,302 | -21,321 | 636 | -19,721 |
| Excluded education tuition costs | 861 | -1,576 | -19,302 | -21,321 | 636 | -19,824 |
| Used higher incarceration costs ^b | 835 | -1,576 | -19,302 | -21,321 | 691 | -19,795 |
| Used a fixed work-related cost measure (non-child care) ^c | -504 | -1,576 | -19,302 | -21,321 | 636 | -21,189 |
| Used a low discount rate ^d | 803 | -1,533 | -19,302 | -21,218 | 629 | -19,787 |
| Used a high discount rate ^d | 862 | -1,614 | -19,302 | -21,412 | 641 | -19,909 |
| Used only statistically significant estimates in the calculation ^e | -940 | -1,372 | -19,308 | -19,105 | -56 | -20,101 |

Appendix Table F.28. MD PROMISE: Sensitivity of net benefits to different assumptions in the benefit cost analysis

Source: See Appendix Table B.4 for details on the sources and methods for the net-benefit calculation.

Note: The inputs for the benefit-cost analysis are based on (1) program costs drawn from program administrative records, financial documents, staff activity logs and staff interviews (2) the estimated impacts on key outcomes (regardless of whether they were statistically significant), or (3) imputation methods that combined the impact estimates with data from external sources. All benefits and costs are dollars per treatment group family over five years and are inflation-adjusted to 2020 dollars and discounted to 2020 present value.

^a The perspective of the federal government as a whole incorporates the perspectives of SSA, ED, and other federal agencies that might experience benefits or costs because of PROMISE.

^b We changed incarceration costs from the national average (\$97/day) to the highest state-specific cost (California, \$228/day).

^c We changed work-related costs from a multiplier of 10.6% to a fixed cost of \$51 dollars per week.

^d The low discount rate is 1 percent, and the high discount rate is 5 percent.

^e This sensitivity analysis assigns a value of zero to impact estimates to impacts estimates that were not were significant at the .10 level. (The main analysis and all other sensitivity tests include impact estimates regardless of whether they were statistically significant).

ED = U.S. Department of Education; SSA = Social Security Administration.

3. Long-term forecast

We projected the accrual of net benefits over 10 and 20 years after RA to assess how costs and benefits may change after the five-year evaluation period. We projected the net benefits under three scenarios that varied in their potential returns to youth's education: high returns, diminishing returns, and no returns(Appendix Table F.29). Because MD PROMISE caused a small and nonsignificant decrease in youth's years of education (-0.04 years), the scenario assuming "no returns" to education generates the highest net benefit estimate and the scenario assuming "high returns" to education generates the lowest estimate. Across all scenarios, the forecasted net benefits 10 and 20 years after RA are higher than the net benefits estimated at five years after RA. This is because treatment group youth had higher earnings than control group youth in the fourth and fifth years after RA, an advantage that gets compounded in the forecast as earnings grow by an annual percentage over time.

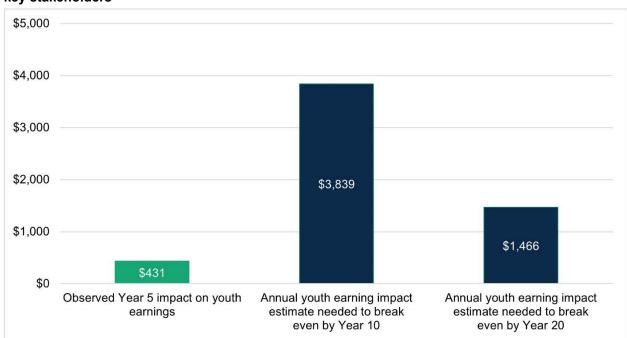
We also calculated how large the impact on youth earnings would have to be, assuming all other impacts were the same as in the five-year analysis, for MD PROMISE's benefits to equal the costs in 10 and 20 years after RA (Appendix Figure F.1). The program would need to generate an average annual impact on youth earnings of \$3,839 per year to be cost neutral 10 years after RA and \$1,466 per year to be cost neutral 20 years after RA. The point estimate of the program's impact on youth earnings in the fifth year after RA was \$431, so it seems unlikely that the program would generate impacts large enough to achieve cost neutrality 20 years after RA.

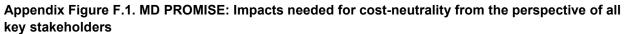
| Appendix Table F.29. MD PROMISE: Net benefits (\$) to all stakeholders forecast over 10 and 20 years after RA, under different |
|--|
| assumptions about the returns to education and using the upper and lower bound of the earnings impact |

| | | F | ederal governme | ent | State and local | | |
|--------------------------------------|---|------------|-----------------|---|---|---|--|
| Assumption | PROMISE youth and families (A) | SSA (B) | ED (C) | Federal government as a whole ^a (D) | government, including PROMISE partners (E) | All key stakeholders (F = A + D + E) | |
| 10-year forecast | | | | | | | |
| Returns to education | | | | | | | |
| Persistent high return to education | 1,357 | -3,108 | -19,302 | -22,383 | 1,504 | -19,523 | |
| Diminishing return to education | 1,420 | -3,091 | -19,302 | -22,364 | 1,505 | -19,439 | |
| No return to education | 1,458 | -3,079 | -19,302 | -22,350 | 1,506 | -19,386 | |
| Confidence interval bounds | | | | | | | |
| Using upper bound of earnings impact | 6,011 | -2,151 | -19,302 | -21,245 | 1,625 | -13,609 | |
| Using lower bound of earnings impact | -2,317 | -3,913 | -19,302 | -23,333 | 1,407 | -24,244 | |
| 20-year forecast | | | | | | | |
| Returns to education | | | | | | | |
| Persistent high return to education | 3,336 | -5,331 | -19,302 | -23,789 | 2,959 | -17,495 | |
| Diminishing return to education | 3,637 | -5,260 | -19,302 | -23,706 | 2,967 | -17,101 | |
| No return to education | 3,676 | -5,248 | -19,302 | -23,692 | 2,968 | -17,049 | |
| Confidence interval bounds | | | | | | | |
| Using upper bound of earnings impact | 18,934 | -2,600 | -19,302 | -20,464 | 3,357 | 1,827 | |
| Using lower bound of earnings impact | -8,479 | -8,181 | -19,302 | -27,113 | 2,642 | -32,951 | |

Source: See Appendix Table B.4 for details on the sources and methods for the net-benefit calculation.

Note: To construct each component of the benefit-cost analysis, we used either (1) the impact estimates themselves (regardless of whether they were statistically significant), or (2) imputation methods to combine the impact estimates with data from external sources. To construct program costs, we used data from program administrative records, financial documents, staff activity logs, and staff interviews. All benefits and costs are dollars per treatment group family and are inflation-adjusted to 2020 dollars and discounted to 2020 present value. The 10-year and 20-year projections are based on costs observed from the five-year evaluation period and a forecasting scenario for the five and fifteen following years, respectively, assuming that earnings grow over time. Additionally, the persistent high return to education forecasting scenario assumes a return to education of 10 percent per additional year of schooling; the diminishing returns to education scenario assumes the returns to education are 10 percent in Year 6 and then diminish over time to zero percent in Year 10; and the no return to education scenario assumes no increase over time in the return to education.





Note: The first bar shows the estimated impact on youth earnings in Year 5 after RA. The second bar shows the impact on youth earnings needed every year between Years 6 and 10 after RA for the program to be cost neutral 10 years after RA, assuming other benefits and costs are held constant between Years 6 and 10 after RA. The third bar shows the impact on youth earnings needed every year between Years 6 and 20 after RA for the program to be cost neutral 20 years after RA, assuming other benefits and costs are held constant between Years 6 and 20 after RA for the program to be cost neutral 20 years after RA, assuming other benefits and costs are held constant between Years 6 and 20 after RA for the program to be cost neutral 20 years after RA, assuming other benefits and costs are held constant between Years 6 and 20 after RA. All values are per treatment group family, inflation-adjusted to 2020 dollars, and discounted to 2020 present value.

MD = Maryland; RA = random assignment.

Appendix G. NYS PROMISE Impacts, Benefits, and Costs

A. Enrollees and analysis samples

The full research sample for the evaluation of NYS PROMISE consists of the 1,967 youth who enrolled in the evaluation and were randomly assigned, as well as their families. To assess the extent to which the findings might reflect the baseline characteristics of various samples, we compared differences between (1) the treatment and control groups, (2) survey respondents and nonrespondents, and (3) self-reporting and proxy youth respondents.

1. Differences between the treatment and control groups

We compared 25 baseline characteristics of the treatment and control groups for four samples: all youth survey respondents, all parent survey respondents, all enrollees, and all proxy youth respondents (Appendix Tables G.1–G.4). The similarity of samples across the characteristics examined suggest that RA created treatment and control groups that were equivalent in their baseline characteristics. Although we found statistically significant differences for a few characteristics, they are not concerning for two reasons. First, with a significance level of 10 percent, we expect to reject the null hypothesis that the groups were equivalent for 1 out of every 10 characteristics by chance alone, even when the two groups in fact had no underlying differences. Second, we included characteristics that were significantly different at baseline as covariates in our regression-adjusted impact analyses, allowing us to control for the observed differences.

Appendix Table G.1. NYS PROMISE: Baseline characteristics of youth survey respondents (percentages, unless otherwise noted)

| Descling characteristic | All | Treatment | Control | Difference | |
|--|------|-----------|---------|------------|-----------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | <i>p</i> -value |
| Demographic characteristics | | | | | |
| Youth is female | 32.7 | 31.1 | 34.4 | -3.4 | 0.15 |
| Youth age at RA | | | | | 0.77 |
| 14 | 38.2 | 38.4 | 37.9 | 0.6 | |
| 15 | 31.8 | 31.0 | 32.7 | -1.6 | |
| 16 | 30.0 | 30.5 | 29.5 | 1.1 | |
| Average age at RA | 15.4 | 15.4 | 15.4 | 0.0 | 0.82 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 85.1 | 84.2 | 86.1 | -1.9 | 0.28 |
| Prefers English for spoken language | 84.8 | 84.3 | 85.4 | -1.0 | 0.56 |
| Youth living arrangement at SSI application | | | | †† | 0.01 |
| In parents' household | 85.6 | 88.1 | 83.1 | 5.0 | |
| Own household or alone | 12.6 | 10.5 | 14.7 | -4.2 | |
| Another household and receiving support | 1.8 | 1.4 | 2.2 | -0.8 | |
| Youth race and ethnicity | | | | | 0.35 |
| Non-Hispanic White | 6.7 | 6.7 | 6.7 | 0.0 | |
| Non-Hispanic Black | 35.4 | 34.0 | 36.8 | -2.9 | |
| Hispanic | 34.1 | 36.7 | 31.6 | 5.1 | |
| Non-Hispanic American Indian | 0.6 | 0.6 | 0.7 | -0.1 | |
| Non-Hispanic other or mixed race | 7.9 | 7.2 | 8.7 | -1.5 | |
| Missing | 15.2 | 14.9 | 15.6 | -0.6 | |
| Enrolling parent age at RA | 44.2 | 44.2 | 44.2 | 0.1 | 0.89 |
| Parent race and ethnicity | | | | | 0.22 |
| Non-Hispanic White | 10.5 | 10.9 | 10.0 | 0.9 | |
| Non-Hispanic Black | 38.3 | 37.8 | 38.9 | -1.1 | |
| Hispanic | 32.8 | 33.5 | 32.1 | 1.4 | |
| Non-Hispanic American Indian | 0.8 | 0.3 | 1.3 | -1.0 | |
| Non-Hispanic other or mixed race | 7.2 | 7.7 | 6.6 | 1.2 | |
| Missing | 10.4 | 9.7 | 11.1 | -1.4 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.84 |
| Intellectual or developmental disability | 58.0 | 57.8 | 58.2 | -0.4 | |
| Speech, hearing, or visual impairment | 1.3 | 1.0 | 1.6 | -0.6 | |
| Physical disability | 11.8 | 12.1 | 11.6 | 0.4 | |
| Other mental impairment | 24.8 | 25.1 | 24.4 | 0.7 | |
| Other or unknown disability | 4.1 | 4.0 | 4.1 | -0.1 | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 96.0 | 95.6 | 96.4 | -0.8 | 0.38 |
| Received OASDI | 10.0 | 8.9 | 11.1 | -2.2 | 0.14 |
| Years between youth's earliest SSI eligibility and RA | 9.7 | 9.9 | 9.5 | 0.5** | 0.03 |
| Youth age at most recent SSI application | 6.1 | 5.8 | 6.3 | -0.5** | 0.01 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,568 | 7,618 | 7,517 | 101 | 0.34 |
| OASDI | 273 | 216 | 330 | -114** | 0.03 |
| Total SSI and OASDI | 7,840 | 7,834 | 7,847 | -13 | 0.89 |
| Household had multiple SSI-eligible children | 18.8 | 18.3 | 19.3 | -1.0 | 0.59 |
| Enrolling parent provided a valid SSN at RA | 85.3 | 86.4 | 84.2 | 2.2 | 0.21 |
| Parents included in the administrative data | | | | <u>+++</u> | 0.00 |
| None | 5.3 | 3.5 | 7.1 | -3.6 | |
| One parent | 67.7 | 68.3 | 67.0 | 1.3 | |
| Two parents | 27.1 | 28.2 | 25.9 | 2.3 | |
| Parent SSA payment status at RA | | | | <u>††</u> | 0.01 |
| Any parent received SSI only | 11.6 | 11.4 | 11.9 | -0.4 | |
| Any parent received OASDI only | 8.6 | 8.3 | 8.9 | -0.6 | |
| Any parent received both SSI and OASDI | 5.8 | 5.4 | 6.3 | -0.9 | |
| No parent received any SSA payments | 68.7 | 71.4 | 65.9 | 5.5 | |
| No parent was included in the SSA data analyses | 5.3 | 3.5 | 7.1 | -3.6 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 6.5 | 6.3 | 6.8 | -0.4 | 0.73 |
| Youth earnings in the calendar year before RA (\$) | 57 | 53 | 60 | -7 | 0.51 |
| Parent had earnings in the calendar year before RA | 63.0 | 62.4 | 63.6 | -1.2 | 0.64 |
| Parent earnings in the calendar year before RA (\$) | 14,437 | 14,774 | 14,085 | 689 | 0.44 |
| Number of youth | 1,662 | 847 | 815 | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes all youth who completed the PROMISE five-year youth survey. We weighted the statistics to adjust for survey nonresponse. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

Appendix Table G.2. NYS PROMISE: Baseline characteristics of parent survey respondents (percentages, unless otherwise noted)

| | All | Treatment | Control | Difference | |
|--|------|-----------|---------|-------------|-----------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | <i>p-</i> value |
| Demographic characteristics | | | | | |
| Youth is female | 32.5 | 31.1 | 33.8 | -2.7 | 0.24 |
| Youth age at RA | | | | | 0.87 |
| 14 | 37.7 | 38.0 | 37.5 | 0.5 | |
| 15 | 32.4 | 31.8 | 33.0 | -1.2 | |
| 16 | 29.8 | 30.2 | 29.5 | 0.7 | |
| Average age at RA | 15.4 | 15.4 | 15.4 | 0.0 | 0.93 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 84.6 | 83.8 | 85.5 | -1.7 | 0.35 |
| Prefers English for spoken language | 84.3 | 83.9 | 84.8 | -0.9 | 0.62 |
| Youth living arrangement at SSI application | | | | <u>+</u> ++ | 0.01 |
| In parents' household | 86.0 | 88.7 | 83.3 | 5.5 | |
| Own household or alone | 12.4 | 10.0 | 14.7 | -4.7 | |
| Another household and receiving support | 1.6 | 1.2 | 2.0 | -0.8 | |
| Youth race and ethnicity | | | | | 0.32 |
| Non-Hispanic White | 6.8 | 6.9 | 6.8 | 0.1 | |
| Non-Hispanic Black | 34.9 | 33.5 | 36.2 | -2.7 | |
| Hispanic | 34.8 | 37.4 | 32.1 | 5.3 | |
| Non-Hispanic American Indian | 0.7 | 0.6 | 0.7 | -0.1 | |
| Non-Hispanic other or mixed race | 8.4 | 7.6 | 9.2 | -1.7 | |
| Missing | 14.5 | 14.0 | 14.9 | -0.9 | |
| Enrolling parent age at RA | 44.0 | 44.0 | 44.1 | -0.1 | 0.78 |
| Parent race and ethnicity | | | | | 0.20 |
| Non-Hispanic White | 10.5 | 10.9 | 10.1 | 0.8 | |
| Non-Hispanic Black | 37.6 | 37.2 | 38.1 | -1.0 | |
| Hispanic | 33.1 | 33.7 | 32.5 | 1.2 | |
| Non-Hispanic American Indian | 0.9 | 0.3 | 1.4 | -1.1 | |
| Non-Hispanic other or mixed race | 7.1 | 7.7 | 6.5 | 1.2 | |
| Missing | 10.8 | 10.2 | 11.4 | -1.2 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.77 |
| Intellectual or developmental disability | 57.8 | 57.2 | 58.5 | -1.3 | |
| Speech, hearing, or visual impairment | 1.3 | 1.0 | 1.6 | -0.6 | |
| Physical disability | 12.2 | 12.5 | 11.9 | 0.5 | |
| Other mental impairment | 24.8 | 25.5 | 24.1 | 1.4 | |
| Other or unknown disability | 3.8 | 3.8 | 3.8 | 0.0 | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 96.1 | 95.6 | 96.5 | -0.9 | 0.37 |
| Received OASDI | 9.4 | 8.6 | 10.3 | -1.7 | 0.23 |
| Years between youth's earliest SSI eligibility and RA | 9.7 | 9.8 | 9.5 | 0.4* | 0.09 |
| Youth age at most recent SSI application | 6.1 | 5.9 | 6.3 | -0.5** | 0.03 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,590 | 7,650 | 7,529 | 121 | 0.25 |
| OASDI | 259 | 206 | 313 | -106** | 0.04 |
| Total SSI and OASDI | 7,849 | 7,857 | 7,842 | 15 | 0.87 |
| Household had multiple SSI-eligible children | 19.0 | 18.8 | 19.1 | -0.3 | 0.88 |
| Enrolling parent provided a valid SSN at RA | 84.9 | 86.0 | 83.7 | 2.3 | 0.20 |
| Parents included in the administrative data | | | | <u>+++</u> | 0.00 |
| None | 5.5 | 3.6 | 7.4 | -3.8 | |
| One parent | 67.2 | 67.8 | 66.5 | 1.3 | |
| Two parents | 27.4 | 28.6 | 26.1 | 2.6 | |
| Parent SSA payment status at RA | | | | <u>+</u> ++ | 0.01 |
| Any parent received SSI only | 11.6 | 11.2 | 11.9 | -0.6 | |
| Any parent received OASDI only | 7.9 | 7.6 | 8.2 | -0.6 | |
| Any parent received both SSI and OASDI | 5.9 | 5.6 | 6.2 | -0.6 | |
| No parent received any SSA payments | 69.1 | 71.9 | 66.3 | 5.7 | |
| No parent was included in the SSA data analyses | 5.5 | 3.6 | 7.4 | -3.8 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 6.5 | 6.2 | 6.7 | -0.5 | 0.67 |
| Youth earnings in the calendar year before RA (\$) | 56 | 52 | 60 | -8 | 0.47 |
| Parent had earnings in the calendar year before RA | 63.9 | 63.5 | 64.4 | -0.9 | 0.70 |
| Parent earnings in the calendar year before RA (\$) | 14,614 | 15,044 | 14,163 | 881 | 0.32 |
| Number of youth | 1,644 | 837 | 807 | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes all youth whose parent completed the PROMISE five-year youth survey. We weighted the statistics to adjust for survey nonresponse. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

Appendix Table G.3. NYS PROMISE: Baseline characteristics of all youth enrollees (percentages, unless otherwise noted)

| | All | Treatment | Control | Difference | |
|--|------|-----------|---------|------------|-----------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | <i>p-</i> value |
| Demographic characteristics | | | | | |
| Youth is female | 32.2 | 31.6 | 32.7 | -1.1 | 0.61 |
| Youth age at RA | | | | | 0.67 |
| 14 | 37.6 | 38.5 | 36.7 | 1.8 | |
| 15 | 31.7 | 31.5 | 31.9 | -0.4 | |
| 16 | 30.7 | 29.9 | 31.4 | -1.5 | |
| Average age at RA | 15.4 | 15.4 | 15.4 | -0.0 | 0.41 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 85.2 | 84.7 | 85.7 | -1.0 | 0.51 |
| Prefers English for spoken language | 85.0 | 84.9 | 85.0 | -0.1 | 0.94 |
| Youth living arrangement at SSI application | | | | <u>†††</u> | 0.00 |
| In parents' household | 85.6 | 88.1 | 83.0 | 5.2 | |
| Own household or alone | 12.7 | 10.5 | 14.8 | -4.2 | |
| Another household and receiving support | 1.8 | 1.3 | 2.2 | -0.9 | |
| Youth race and ethnicity | | | | | 0.25 |
| Non-Hispanic White | 6.5 | 6.5 | 6.5 | -0.0 | |
| Non-Hispanic Black | 34.7 | 33.3 | 36.2 | -2.9 | |
| Hispanic | 33.9 | 36.4 | 31.3 | 5.1 | |
| Non-Hispanic American Indian | 0.7 | 0.6 | 0.8 | -0.2 | |
| Non-Hispanic other or mixed race | 7.8 | 7.1 | 8.5 | -1.4 | |
| Missing | 16.4 | 16.1 | 16.7 | -0.6 | |
| Enrolling parent age at RA | 44.1 | 44.1 | 44.1 | -0.0 | 0.95 |
| Parent race and ethnicity | | | | | 0.13 |
| Non-Hispanic White | 10.0 | 10.6 | 9.4 | 1.3 | |
| Non-Hispanic Black | 37.6 | 37.4 | 37.7 | -0.3 | |
| Hispanic | 32.0 | 32.3 | 31.7 | 0.5 | |
| Non-Hispanic American Indian | 0.8 | 0.3 | 1.3 | -1.0 | |
| Non-Hispanic other or mixed race | 7.0 | 7.4 | 6.5 | 0.9 | |
| Missing | 12.7 | 12.0 | 13.4 | -1.4 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.64 |
| Intellectual or developmental disability | 57.6 | 57.4 | 57.8 | -0.4 | |
| Speech, hearing, or visual impairment | 1.3 | 0.9 | 1.6 | -0.7 | |
| Physical disability | 11.6 | 11.9 | 11.4 | 0.4 | |
| Other mental impairment | 25.6 | 26.2 | 25.1 | 1.1 | |
| Other or unknown disability | 3.9 | 3.7 | 4.1 | -0.4 | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 96.1 | 95.7 | 96.4 | -0.7 | 0.43 |
| Received OASDI | 9.7 | 8.9 | 10.4 | -1.5 | 0.27 |
| Years between youth's earliest SSI eligibility and RA | 9.7 | 9.8 | 9.5 | 0.3 | 0.11 |
| Youth age at most recent SSI application | 6.1 | 5.9 | 6.3 | -0.4** | 0.04 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,570 | 7,589 | 7,550 | 39 | 0.69 |
| OASDI | 277 | 239 | 314 | -76 | 0.13 |
| Total SSI and OASDI | 7,846 | 7,828 | 7,864 | -36 | 0.68 |
| Household had multiple SSI-eligible children | 18.8 | 18.6 | 19.1 | -0.5 | 0.76 |
| Enrolling parent provided a valid SSN at RA | 85.2 | 86.4 | 83.9 | 2.5 | 0.12 |
| Parents included in the administrative data | | | | <u>+++</u> | 0.00 |
| None | 5.4 | 3.5 | 7.2 | -3.7 | |
| One parent | 67.6 | 68.8 | 66.5 | 2.3 | |
| Two parents | 27.0 | 27.7 | 26.3 | 1.4 | |
| Parent SSA payment status at RA | | | | <u>+++</u> | 0.01 |
| Any parent received SSI only | 11.8 | 11.7 | 11.9 | -0.3 | |
| Any parent received OASDI only | 8.6 | 8.2 | 9.1 | -0.9 | |
| Any parent received both SSI and OASDI | 5.8 | 5.8 | 5.9 | -0.1 | |
| No parent received any SSA payments | 68.3 | 70.8 | 65.9 | 4.9 | |
| No parent was included in the SSA data analyses | 5.4 | 3.5 | 7.2 | -3.7 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 6.6 | 6.5 | 6.6 | -0.1 | 0.90 |
| Youth earnings in the calendar year before RA (\$) | 56 | 54 | 58 | -4 | 0.70 |
| Parent had earnings in the calendar year before RA | 63.2 | 62.6 | 64.0 | -1.4 | 0.53 |
| Parent earnings in the calendar year before RA (\$) | 14,452 | 14,856 | 14,030 | 826 | 0.31 |
| Number of youth | 1,967 | 986 | 981 | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes all youth who enrolled in PROMISE. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

Appendix Table G.4. NYS PROMISE: Baseline characteristics of proxy youth survey respondents (percentages, unless otherwise noted)

| | All | Treatment | Control | Difference | |
|--|------|-----------|---------|------------|-----------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | <i>p</i> -value |
| Demographic characteristics | | | | | |
| Youth is female | 30.9 | 29.2 | 32.8 | -3.5 | 0.33 |
| Youth age at RA | | | | | 0.48 |
| 14 | 36.4 | 36.3 | 36.5 | -0.2 | |
| 15 | 32.9 | 31.1 | 34.8 | -3.7 | |
| 16 | 30.7 | 32.6 | 28.7 | 3.9 | |
| Average age at RA | 15.4 | 15.4 | 15.4 | 0.0 | 0.58 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 81.7 | 81.3 | 82.1 | -0.8 | 0.79 |
| Prefers English for spoken language | 81.1 | 81.6 | 80.7 | 0.9 | 0.77 |
| Youth living arrangement at SSI application | | | | <u>††</u> | 0.03 |
| In parents' household | 86.2 | 89.0 | 83.2 | 5.8 | |
| Own household or alone | 11.8 | 10.1 | 13.6 | -3.5 | |
| Another household and receiving support | 2.0 | 0.9 | 3.2 | -2.3 | |
| Youth race and ethnicity | | | | | 0.92 |
| Non-Hispanic White | 6.7 | 5.9 | 7.4 | -1.5 | |
| Non-Hispanic Black | 27.8 | 27.0 | 28.6 | -1.6 | |
| Hispanic | 38.6 | 40.4 | 36.7 | 3.7 | |
| Non-Hispanic American Indian | 0.3 | 0.3 | 0.3 | -0.0 | |
| Non-Hispanic other or mixed race | 9.3 | 8.9 | 9.7 | -0.8 | |
| Missing | 17.4 | 17.5 | 17.3 | 0.3 | |
| Enrolling parent age at RA | 44.9 | 45.1 | 44.7 | 0.3 | 0.62 |
| Parent race and ethnicity | | | | | 0.51 |
| Non-Hispanic White | 9.1 | 9.7 | 8.6 | 1.1 | |
| Non-Hispanic Black | 31.4 | 31.8 | 31.0 | 0.8 | |
| Hispanic | 37.9 | 39.9 | 35.9 | 4.0 | |
| Non-Hispanic American Indian | 0.7 | 0.5 | 0.9 | -0.4 | |
| Non-Hispanic other or mixed race | 9.3 | 8.8 | 9.8 | -1.0 | |
| Missing | 11.5 | 9.3 | 13.8 | -4.5 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.77 |
| Intellectual or developmental disability | 62.2 | 60.5 | 63.9 | -3.4 | |
| Speech, hearing, or visual impairment | 1.6 | 1.3 | 2.0 | -0.7 | |
| Physical disability | 15.1 | 15.8 | 14.3 | 1.5 | |
| Other mental impairment | 16.3 | 17.6 | 14.8 | 2.8 | |
| Other or unknown disability | 4.9 | 4.8 | 4.9 | -0.1 | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 96.5 | 95.0 | 98.1 | -3.1** | 0.03 |
| Received OASDI | 9.7 | 8.8 | 10.5 | -1.7 | 0.47 |
| Years between youth's earliest SSI eligibility and RA | 10.4 | 10.7 | 10.0 | 0.7** | 0.02 |
| Youth age at most recent SSI application | 5.5 | 5.2 | 5.8 | -0.6* | 0.08 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,474 | 7,582 | 7,360 | 222 | 0.19 |
| OASDI | 270 | 196 | 348 | -152* | 0.07 |
| Total SSI and OASDI | 7,744 | 7,778 | 7,708 | 70 | 0.64 |
| Household had multiple SSI-eligible children | 19.0 | 19.9 | 18.1 | 1.8 | 0.57 |
| Enrolling parent provided a valid SSN at RA | 85.6 | 87.3 | 83.8 | 3.5 | 0.21 |
| Parents included in the administrative data | | | | <u>††</u> | 0.02 |
| None | 4.9 | 2.9 | 7.1 | -4.2 | |
| One parent | 64.9 | 64.4 | 65.3 | -1.0 | |
| Two parents | 30.2 | 32.7 | 27.5 | 5.2 | |
| Parent SSA payment status at RA | | | | | 0.12 |
| Any parent received SSI only | 9.7 | 10.5 | 8.9 | 1.6 | |
| Any parent received OASDI only | 7.8 | 8.5 | 7.0 | 1.5 | |
| Any parent received both SSI and OASDI | 4.0 | 4.6 | 3.3 | 1.3 | |
| No parent received any SSA payments | 73.6 | 73.5 | 73.7 | -0.1 | |
| No parent was included in the SSA data analyses | 4.9 | 2.9 | 7.1 | -4.2 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 4.1 | 4.2 | 4.0 | 0.1 | 0.93 |
| Youth earnings in the calendar year before RA (\$) | 39 | 39 | 38 | 1 | 0.93 |
| Parent had earnings in the calendar year before RA | 64.3 | 64.0 | 64.6 | -0.6 | 0.89 |
| Parent earnings in the calendar year before RA (\$) | 15,628 | 15,797 | 15,440 | 357 | 0.81 |
| Number of youth | 649 | 339 | 310 | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes all youth who completed the PROMISE five-year youth survey by proxy. We weighted the statistics to adjust for survey nonresponse. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

2. Differences between survey respondents and nonrespondents

We compared youth and parent survey respondents with nonrespondents across 25 baseline characteristics to assess the extent to which survey nonresponse might limit generalizability of the impact findings to all evaluation enrollees (Appendix Tables G.5 and G.6). Youth survey respondents differed from nonrespondents with respect to enrolling parent age at RA, the years between youth's earliest SSI eligibility and RA, and youth age at the most recent SSI application. Parent survey respondents differed from nonrespondents with respect to youth age at most recent SSI application and parents' earnings in the year before RA. Overall, even when the differences were statistically significant, they generally were small. The extent and magnitude of the differences suggested that the respondents were not markedly different from the nonrespondents. To account for survey nonresponse, we calculated and used survey weights in all regression models to estimate impacts on the survey-based outcome measures.

Appendix Table G.5. NYS PROMISE: Baseline characteristics of youth survey respondents and nonrespondents (percentages, unless otherwise noted)

| | All | | Nonrespondents | | <i>p</i> - |
|--|------|------|----------------|------------|------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | value |
| Demographic characteristics | | | | | |
| Youth is female | 32.2 | 32.6 | 29.8 | 2.8 | 0.33 |
| Youth age at RA | | | | | 0.11 |
| 14 | 37.6 | 38.1 | 34.8 | 3.4 | |
| 15 | 31.7 | 32.1 | 29.5 | 2.6 | |
| 16 | 30.7 | 29.7 | 35.7 | -6.0 | |
| Average age at RA | 15.4 | 15.4 | 15.4 | -0.1 | 0.25 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 85.2 | 85.2 | 85.2 | -0.0 | 0.98 |
| Prefers English for spoken language | 85.0 | 84.8 | 85.6 | -0.7 | 0.74 |
| Youth living arrangement at SSI application | | | | | 0.93 |
| In parents' household | 85.6 | 85.4 | 86.2 | -0.8 | |
| Own household or alone | 12.7 | 12.8 | 12.1 | 0.6 | |
| Another household and receiving support | 1.8 | 1.8 | 1.6 | 0.2 | |
| Youth race and ethnicity | | | | <u>†††</u> | 0.00 |
| Non-Hispanic White | 6.5 | 7.0 | 3.9 | 3.0 | |
| Non-Hispanic Black | 34.7 | 36.1 | 27.2 | 8.9 | |
| Hispanic | 33.9 | 35.0 | 27.9 | 7.1 | |
| Non-Hispanic American Indian | 0.7 | 0.7 | 1.0 | -0.3 | |
| Non-Hispanic other or mixed race | 7.8 | 8.3 | 4.9 | 3.4 | |
| Missing | 16.4 | 13.0 | 35.1 | -22.1 | |
| Enrolling parent age at RA | 44.1 | 44.3 | 42.9 | 1.4** | 0.01 |
| Parent race and ethnicity | | | | ††† | 0.00 |
| Non-Hispanic White | 10.0 | 10.6 | 6.9 | 3.7 | |
| Non-Hispanic Black | 37.6 | 38.9 | 30.5 | 8.4 | |
| Hispanic | 32.0 | 33.2 | 25.2 | 8.0 | |
| Non-Hispanic American Indian | 0.8 | 0.8 | 0.7 | 0.2 | |
| Non-Hispanic other or mixed race | 7.0 | 7.4 | 4.6 | 2.8 | |
| Missing | 12.7 | 9.1 | 32.1 | -23.0 | |
| Disability | | | | | |
| Youth primary impairment | | | | †† | 0.01 |
| Intellectual or developmental disability | 57.6 | 58.1 | 54.8 | 3.4 | |
| Speech, hearing, or visual impairment | 1.3 | 1.3 | 1.3 | -0.0 | |
| Physical disability | 11.6 | 12.2 | 8.9 | 3.3 | |
| Other mental impairment | 25.6 | 24.3 | 32.8 | -8.5 | |
| Other or unknown disability | 3.9 | 4.2 | 2.3 | 1.9 | |

| Received OASDI 9.7 10.0 7.5 2.5 0.1 Years between youth's earliest SSI eligibility and RA 9.7 9.8 9.2 0.6** 0.0 Youth age at most recent SSI application 6.1 6.0 6.8 -0.8*** 0.0 Youth age at most recent SSI application 6.1 6.0 6.8 -0.8*** 0.0 Youth payments in the year before RA (\$) 7,570 7,539 7,739 -200 0.1 OASDI 277 279 261 18 0.8 0.1 Household had multiple SSI-eligible children 18.8 18.8 19.3 -0.6 0.6 Parents included in the administrative data 0.2 0.2 0.2 0.2 0.2 None 5.4 5.4 5.2 0.2 0.2 0.2 None 5.4 5.4 5.2 0.2 0.2 0.2 Any parents 27.0 27.7 23.0 4.8 0.2 Any parent received SSI only 11.8 11.6 <th>Baseline characteristic</th> <th>All (A)</th> <th>Respondents (B)</th> <th>Nonrespondents (C)</th> <th>Difference (B – C)</th> <th><i>p-</i> value</th> | Baseline characteristic | All (A) | Respondents (B) | Nonrespondents (C) | Difference (B – C) | <i>p-</i> value |
|--|---|------------|--------------------|-----------------------|-----------------------|--------------------|
| Received SSI 96.1 95.9 97.0 -1.1 0.2 Received OASDI 9.7 10.0 7.5 2.5 0.1 Years between youth's earliest SSI eligibility and RA 9.7 10.0 7.5 2.5 0.1 Youth age at most recent SSI application 6.1 6.0 6.8 -0.8*** 0.0 Youth age at most recent SSI application 6.1 6.0 6.8 -0.8*** 0.0 Youth age at most recent SSI application 6.1 6.0 6.8 -0.8*** 0.0 Youth age at most recent SSI application 6.1 6.0 6.8 -0.8*** 0.0 Youth age at most recent SSI application 6.1 7.539 7.739 -200 0.1 OASDI 27.7 279 261 18 0.8 0.6 For all SSI and OASDI 7.846 7.818 8.000 -1.82 0.1 Household had multiple SSI-eligible 18.8 18.8 19.3 -0.6 0.8 Parent Incoluded in the administrative data | SSA program participation | | | | | |
| Received OASDI 9.7 10.0 7.5 2.5 0.1 Years between youth's earliest SSI eligibility and RA 9.7 9.8 9.2 0.6** 0.0 Youth age at most recent SSI application 6.1 6.0 6.8 -0.8*** 0.0 Youth age at most recent SSI application 6.1 6.0 6.8 -0.8*** 0.0 Youth age at most recent SSI application 6.1 6.0 6.8 -0.8*** 0.0 Youth age at most recent SSI application 6.1 6.0 6.8 -0.8*** 0.0 Youth age at most recent SSI application 7,570 7,539 7,739 -200 0.1 OASDI 277 279 261 18 0.8 0.1 Household had multiple SSI-eligible children 18.8 18.8 19.3 -0.6 0.6 Enrolling parent provided a valid SSN at RA 85.2 85.1 85.6 -0.5 0.8 None 5.4 5.4 5.2 0.2 0.2 - Two parent provided a val | Youth SSA payment status at RA | | | | | |
| Years between youth's earliest SSI eligibility and RA 9.7 9.8 9.2 0.6** 0.0 Youth age at most recent SSI application 6.1 6.0 6.8 -0.8*** 0.0 Youth payments in the year before RA (\$) 7,570 7,539 7,739 -200 0.1 SSI 7,570 7,539 7,739 -200 0.1 OASDI 277 279 261 18 0.6 Total SSI and OASDI 7,846 7,818 8,000 -182 0.1 Household had multiple SSI-eligible 18.8 18.8 19.3 -0.6 0.6 children 18.8 18.8 19.3 -0.6 0.6 Parents included in the administrative data 0.2 0.2 0.2 0.2 One parent 67.6 66.8 71.8 -5.0 0.2 Two parents 27.0 27.7 23.0 4.8 0.2 None 5.4 5.4 5.2 0.2 0.1 Any parent received SSI only 11.8 11.6 12.8 -1.2 Any parent received | Received SSI | 96.1 | 95.9 | 97.0 | -1.1 | 0.29 |
| and RA Youth age at most recent SSI application 6.1 6.0 6.8 -0.8*** 0.0 Youth payments in the year before RA (\$) 7,570 7,539 7,739 -200 0.1 OASDI 277 279 261 18 0.6 Total SSI and OASDI 7,846 7,818 8,000 -182 0.1 Household had multiple SSI-eligible 18.8 18.8 19.3 -0.6 0.8 children 18.8 18.8 19.3 -0.6 0.8 children 18.8 18.8 19.3 -0.6 0.8 Parents included in the administrative data 0.2 0.2 0.2 None 5.4 5.4 5.2 0.2 One parent 67.6 66.8 71.8 -5.0 Two parents 27.0 27.7 23.0 4.8 Parent SA payment status at RA 5.4 5.2 0.1 Any parent received SSI only 11.8 11.6 12.8 -1.2 Any parent received SASI and OASDI 5.8 5.8 6.2 -0.5 <tr< td=""><td>Received OASDI</td><td>9.7</td><td>10.0</td><td>7.5</td><td>2.5</td><td>0.14</td></tr<> | Received OASDI | 9.7 | 10.0 | 7.5 | 2.5 | 0.14 |
| Youth payments in the year before RA (\$) SSI 7,570 7,539 7,739 -200 0.1 OASDI 277 279 261 18 0.6 Total SSI and OASDI 7,846 7,818 8,000 -182 0.1 Household had multiple SSI-eligible children 18.8 18.8 19.3 -0.6 0.6 Enrolling parent provided a valid SSN at RA 85.2 85.1 85.6 -0.5 0.6 Parents included in the administrative data | | 9.7 | 9.8 | 9.2 | 0.6** | 0.02 |
| SSI 7,570 7,539 7,739 -200 0.1 OASDI 277 279 261 18 0.6 Total SSI and OASDI 7,846 7,818 8,000 -182 0.1 Household had multiple SSI-eligible children 18.8 18.8 19.3 -0.6 0.6 Enrolling parent provided a valid SSN at RA None 5.4 5.4 5.2 0.2 0.2 One parents 67.6 66.8 71.8 -5.0 0.2 One parents 27.0 27.7 23.0 4.8 Parent SSA payment status at RA 0.5 0.5 0.5 Any parent received SSI only 11.8 11.6 12.8 -1.2 Any parent received SI only 8.6 8.7 8.5 0.1 Any parent received SI only 5.8 5.8 6.2 -0.5 No parent received any SSA payments 68.3 68.5 67.2 1.3 No parent received any SSA payments 68.3 68.5 67.2 1.3 <tr< td=""><td>Youth age at most recent SSI application</td><td>6.1</td><td>6.0</td><td>6.8</td><td>-0.8***</td><td>0.00</td></tr<> | Youth age at most recent SSI application | 6.1 | 6.0 | 6.8 | -0.8*** | 0.00 |
| OASDI 277 279 261 18 0.6 Total SSI and OASDI 7,846 7,818 8,000 -182 0.1 Household had multiple SSI-eligible children 18.8 18.8 19.3 -0.6 0.6 Enrolling parent provided a valid SSN at RA 85.2 85.1 85.6 -0.5 0.6 Parents included in the administrative data 0.2 None 5.4 5.4 5.2 0.2 One parent 67.6 66.8 71.8 -5.0 Two parents 27.0 27.7 23.0 4.8 Parent SSA payment status at RA 0.5 0.5 0.5 Any parent received SSI only 11.8 11.6 12.8 -1.2 Any parent received SSI only 8.6 8.7 8.5 0.1 Any parent received SSI and OASDI 5.8 5.8 6.2 -0.5 No parent received any SSA payments 68.3 68.5 67.2 1.3 No parent received any SSA payments 5.4 5 | Youth payments in the year before RA (\$) | | | | | |
| Total SSI and OASDI 7,846 7,818 8,000 -182 0.1 Household had multiple SSI-eligible children 18.8 18.8 19.3 -0.6 0.6 Enrolling parent provided a valid SSN at RA 85.2 85.1 85.6 -0.5 0.6 Parents included in the administrative data 0.2 0.2 0.2 0.2 0.2 One parent 67.6 66.8 71.8 -5.0 0.2 Two parents 27.0 27.7 23.0 4.8 0.5 Parent SSA payment status at RA 0.5 0.1 0.5 0.5 0.5 Any parent received OASDI only 8.6 8.7 8.5 0.1 0.5 Any parent received only SSA payments 68.3 68.5 67.2 1.3 0.2 No parent received any SSA payments 68.3 68.5 67.2 1.3 0.2 No parent was included in the SSA data analyses 5.4 5.4 5.2 0.2 0.2 Earnings 114.6 2.6 6.6 | SSI | 7,570 | 7,539 | 7,739 | -200 | 0.13 |
| Household had multiple SSI-eligible children18.818.819.3-0.60.6Enrolling parent provided a valid SSN at RA Parents included in the administrative data85.285.185.6-0.50.6None 5.4 5.4 5.2 0.20.20.2One parent67.666.871.8-5.00.5Two parents27.027.723.04.80.5Parent SSA payment status at RA0.50.10.50.5Any parent received SSI only11.811.612.8-1.2Any parent received OASDI only8.68.78.50.1Any parent received JSSI and OASDI5.85.86.2-0.5No parent received any SSA payments68.368.567.21.3No parent was included in the SSA data analyses5.45.45.20.2ErringsYouth had earnings in the calendar year before RA66.66.66.60.01.0Youth earnings in the calendar year before RA63.263.164.0-0.90.7Parent earnings in the calendar year before RA (\$)14.45214.63513.4591,1760.2 | OASDI | 277 | 279 | 261 | 18 | 0.80 |
| children Enrolling parent provided a valid SSN at RA 85.2 85.1 85.6 -0.5 0.6 Parents included in the administrative data 0.2< | Total SSI and OASDI | 7,846 | 7,818 | 8,000 | -182 | 0.11 |
| Parents included in the administrative data 0.2 None 5.4 5.4 5.2 0.2 One parent 67.6 66.8 71.8 -5.0 Two parents 27.0 27.7 23.0 4.8 Parent SSA payment status at RA 0.5 0.5 Any parent received SSI only 11.8 11.6 12.8 -1.2 Any parent received OASDI only 8.6 8.7 8.5 0.1 Any parent received OASDI only 8.6 8.7 8.5 0.1 Any parent received both SSI and OASDI 5.8 5.8 6.2 -0.5 No parent received any SSA payments 68.3 68.5 67.2 1.3 No parent was included in the SSA data analyses 5.4 5.4 5.2 0.2 Earnings 56 57 49 8 0.5 Youth had earnings in the calendar year before RA 63.2 63.1 64.0 -0.9 0.7 Parent tad earnings in the calendar year before RA 14,452 14,635 13,459 1,176 0.2 | | 18.8 | 18.8 | 19.3 | -0.6 | 0.81 |
| None 5.4 5.4 5.2 0.2 One parent 67.6 66.8 71.8 -5.0 Two parents 27.0 27.7 23.0 4.8 Parent SSA payment status at RA 0.5 0.5 Any parent received SSI only 11.8 11.6 12.8 -1.2 Any parent received OASDI only 8.6 8.7 8.5 0.1 Any parent received OASDI only 8.6 8.7 8.5 0.1 Any parent received any SSA payments 68.3 68.5 67.2 1.3 No parent received any SSA payments 68.3 68.5 67.2 1.3 No parent was included in the SSA data analyses 5.4 5.4 5.2 0.2 Vouth had earnings in the calendar year before RAYouth earnings in the calendar year before RA 63.2 63.1 64.0 -0.9 0.7 Parent had earnings in the calendar year before RA 63.2 63.1 64.0 -0.9 0.7 Parent earnings in the calendar year before RA (\$) $14,452$ $14,635$ $13,459$ $1,176$ 0.2 | Enrolling parent provided a valid SSN at RA | 85.2 | 85.1 | 85.6 | -0.5 | 0.82 |
| One parent 67.6 66.8 71.8 -5.0 Two parents 27.0 27.7 23.0 4.8 Parent SSA payment status at RA 0.9 Any parent received SSI only 11.8 11.6 12.8 -1.2 Any parent received OASDI only 8.6 8.7 8.5 0.1 Any parent received both SSI and OASDI 5.8 5.8 6.2 -0.5 No parent received any SSA payments 68.3 68.5 67.2 1.3 No parent was included in the SSA data analyses 5.4 5.4 5.2 0.2 EarningsYouth had earnings in the calendar year before RA 6.6 6.6 6.6 0.0 1.0 Youth earnings in the calendar year before RA 63.2 63.1 64.0 -0.9 0.7 Parent had earnings in the calendar year before RA 63.2 63.1 64.0 -0.9 0.7 Parent earnings in the calendar year before RA (\$) $14,452$ $14,635$ $13,459$ $1,176$ 0.2 | Parents included in the administrative data | | | | | 0.21 |
| Two parents 27.0 27.7 23.0 4.8 Parent SSA payment status at RA 0.9 Any parent received SSI only 11.8 11.6 12.8 -1.2 Any parent received OASDI only 8.6 8.7 8.5 0.1 Any parent received both SSI and OASDI 5.8 5.8 6.2 -0.5 No parent received any SSA payments 68.3 68.5 67.2 1.3 No parent was included in the SSA data analyses 5.4 5.4 5.2 0.2 Earnings Youth had earnings in the calendar year before RA 66.6 6.6 6.6 0.0 1.0 Parent had earnings in the calendar year before RA 5.2 0.2 0.5 | None | 5.4 | 5.4 | 5.2 | 0.2 | |
| Parent SSA payment status at RA0.5Any parent received SSI only11.811.612.8-1.2Any parent received OASDI only8.68.78.50.1Any parent received both SSI and OASDI5.85.86.2-0.5No parent received any SSA payments68.368.567.21.3No parent was included in the SSA data analyses5.45.45.20.2EarningsYouth had earnings in the calendar year before RA6.66.66.60.01.0Youth earnings in the calendar year before RA (\$)56574980.5Parent had earnings in the calendar year before RA63.263.164.0-0.90.7Parent had earnings in the calendar year before RA63.211,63513,4591,1760.2Parent earnings in the calendar year before RA (\$)14,45214,63513,4591,1760.2 | One parent | 67.6 | 66.8 | 71.8 | -5.0 | |
| Any parent received SSI only11.811.612.8-1.2Any parent received OASDI only8.68.78.50.1Any parent received both SSI and OASDI5.85.86.2-0.5No parent received any SSA payments68.368.567.21.3No parent was included in the SSA data analyses5.45.45.20.2EarningsYouth had earnings in the calendar year before RA6.66.66.60.01.0Youth earnings in the calendar year before RA (\$)56574980.5Parent had earnings in the calendar year before RA63.263.164.0-0.90.7Parent had earnings in the calendar year before RA63.213,4591,1760.2 | Two parents | 27.0 | 27.7 | 23.0 | 4.8 | |
| Any parent received OASDI only 8.6 8.7 8.5 0.1 Any parent received both SSI and OASDI 5.8 5.8 6.2 -0.5 No parent received any SSA payments 68.3 68.5 67.2 1.3 No parent was included in the SSA data analyses 5.4 5.4 5.2 0.2 EarningsYouth had earnings in the calendar year before RA 6.6 6.6 6.6 0.0 1.0 Youth earnings in the calendar year before RA (\$) 56 57 49 8 0.5 Parent had earnings in the calendar year before RA 63.2 63.1 64.0 -0.9 0.7 Parent earnings in the calendar year before RA (\$) $14,452$ $14,635$ $13,459$ $1,176$ 0.2 | Parent SSA payment status at RA | | | | | 0.98 |
| Any parent received both SSI and OASDI 5.8 5.8 6.2 -0.5 No parent received any SSA payments 68.3 68.5 67.2 1.3 No parent was included in the SSA data analyses 5.4 5.4 5.2 0.2 EarningsEarningsYouth had earnings in the calendar year before RA 6.6 6.6 6.6 0.0 1.0 Youth earnings in the calendar year before RA (\$) 56 57 49 8 0.5 Parent had earnings in the calendar year before RA 63.2 63.1 64.0 -0.9 0.7 Parent earnings in the calendar year before RA (\$) $14,452$ $14,635$ $13,459$ $1,176$ 0.2 | Any parent received SSI only | 11.8 | 11.6 | 12.8 | -1.2 | |
| No parent received any SSA payments68.368.567.21.3No parent was included in the SSA data analyses5.45.45.20.2EarningsYouth had earnings in the calendar year before RA6.66.66.60.01.0Youth earnings in the calendar year before RA (\$)56574980.5Parent had earnings in the calendar year before RA63.263.164.0-0.90.7Parent earnings in the calendar year before RA (\$)14,45214,63513,4591,1760.2 | Any parent received OASDI only | 8.6 | 8.7 | 8.5 | 0.1 | |
| No parent was included in the SSA data analyses5.45.45.20.2EarningsYouth had earnings in the calendar year before RA6.66.66.60.01.0Youth earnings in the calendar year before RA (\$)56574980.5Parent had earnings in the calendar year before RA63.263.164.0-0.90.7Parent earnings in the calendar year before RA (\$)14,45214,63513,4591,1760.2 | Any parent received both SSI and OASDI | 5.8 | 5.8 | 6.2 | -0.5 | |
| analysesEarningsYouth had earnings in the calendar year before RA6.66.60.01.0Youth earnings in the calendar year before RA (\$)56574980.5Parent had earnings in the calendar year before RA63.263.164.0-0.90.7Parent earnings in the calendar year before RA (\$)14,45214,63513,4591,1760.2 | No parent received any SSA payments | 68.3 | 68.5 | 67.2 | 1.3 | |
| Youth had earnings in the calendar year before RA6.66.66.60.01.0Youth earnings in the calendar year before RA (\$)56574980.5Parent had earnings in the calendar year before RA63.263.164.0-0.90.7Parent earnings in the calendar year before RA (\$)14,45214,63513,4591,1760.2 | • | 5.4 | 5.4 | 5.2 | 0.2 | |
| before RAYouth earnings in the calendar year before RA (\$)56574980.5Parent had earnings in the calendar year before RA63.263.164.0-0.90.7Parent earnings in the calendar year before RA (\$)14,45214,63513,4591,1760.2 | Earnings | | | | | |
| RA (\$)Farent had earnings in the calendar year before RA63.263.164.0-0.90.7Parent earnings in the calendar year before RA (\$)14,45214,63513,4591,1760.2 | | 6.6 | 6.6 | 6.6 | 0.0 | 1.00 |
| before RA Parent earnings in the calendar year before 14,452 14,635 13,459 1,176 0.2 RA (\$) | | 56 | 57 | 49 | 8 | 0.52 |
| RA (\$) | o , | 63.2 | 63.1 | 64.0 | -0.9 | 0.77 |
| Number of youth 1,967 1,662 305 | | 14,452 | 14,635 | 13,459 | 1,176 | 0.26 |
| - | Number of youth | 1,967 | 1,662 | 305 | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes all youth who enrolled in PROMISE. Nonrespondents include youth ineligible for the survey because they died or withdrew from the study. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (p-value is less than .10/.05/.01) using a two-tailed t-test.

+/++/+++ Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

Appendix Table G.6. NYS PROMISE: Baseline characteristics of parent survey respondents and nonrespondents (percentages, unless otherwise noted)

| | All | | Nonrespondents | | p- |
|--|------|------|----------------|-------------|-------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | value |
| Demographic characteristics | | | | | |
| Youth is female | 32.2 | 32.4 | 31.0 | 1.5 | 0.60 |
| Youth age at RA | | | | | 0.10 |
| 14 | 37.6 | 37.8 | 36.8 | 0.9 | |
| 15 | 31.7 | 32.5 | 27.9 | 4.6 | |
| 16 | 30.7 | 29.7 | 35.3 | -5.5 | |
| Average age at RA | 15.4 | 15.4 | 15.4 | -0.0 | 0.50 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 85.2 | 85.2 | 85.1 | 0.1 | 0.97 |
| Prefers English for spoken language | 85.0 | 84.9 | 85.1 | -0.2 | 0.92 |
| Youth living arrangement at SSI application | | | | | 0.31 |
| In parents' household | 85.6 | 85.8 | 84.2 | 1.6 | |
| Own household or alone | 12.7 | 12.6 | 13.0 | -0.4 | |
| Another household and receiving support | 1.8 | 1.6 | 2.8 | -1.2 | |
| Youth race and ethnicity | | | | <u>+</u> ++ | 0.00 |
| Non-Hispanic White | 6.5 | 7.0 | 4.0 | 3.0 | |
| Non-Hispanic Black | 34.7 | 35.6 | 30.0 | 5.6 | |
| Hispanic | 33.9 | 34.9 | 28.5 | 6.4 | |
| Non-Hispanic American Indian | 0.7 | 0.7 | 0.9 | -0.3 | |
| Non-Hispanic other or mixed race | 7.8 | 8.6 | 3.7 | 4.9 | |
| Missing | 16.4 | 13.2 | 32.8 | -19.6 | |
| Enrolling parent age at RA | 44.1 | 44.1 | 43.9 | 0.2 | 0.72 |
| Parent race and ethnicity | | | | ††† | 0.00 |
| Non-Hispanic White | 10.0 | 10.6 | 6.8 | 3.8 | |
| Non-Hispanic Black | 37.6 | 38.6 | 32.2 | 6.4 | |
| Hispanic | 32.0 | 33.1 | 26.3 | 6.8 | |
| Non-Hispanic American Indian | 0.8 | 0.9 | 0.3 | 0.6 | |
| Non-Hispanic other or mixed race | 7.0 | 7.4 | 4.6 | 2.8 | |
| Missing | 12.7 | 9.3 | 29.7 | -20.4 | |
| Disability | | | | | |
| Youth primary impairment | | | | †† | 0.02 |
| Intellectual or developmental disability | 57.6 | 57.8 | 56.3 | 1.5 | |
| Speech, hearing, or visual impairment | 1.3 | 1.3 | 1.2 | 0.0 | |
| Physical disability | 11.6 | 12.5 | 7.4 | 5.0 | |
| Other mental impairment | 25.6 | 24.5 | 31.6 | -7.1 | |
| Other or unknown disability | 3.9 | 4.0 | 3.4 | 0.5 | |

| Baseline characteristic | All (A) | Respondents (B) | Nonrespondents (C) | Difference (B – C) | <i>p-</i> value |
|---|------------|--------------------|-----------------------|-----------------------|--------------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 96.1 | 96.0 | 96.6 | -0.6 | 0.59 |
| Received OASDI | 9.7 | 9.5 | 10.5 | -1.0 | 0.58 |
| Years between youth's earliest SSI eligibility and RA | 9.7 | 9.7 | 9.4 | 0.4 | 0.15 |
| Youth age at most recent SSI application | 6.1 | 6.0 | 6.5 | -0.4* | 0.08 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,570 | 7,563 | 7,602 | -38 | 0.77 |
| OASDI | 277 | 265 | 335 | -71 | 0.34 |
| Total SSI and OASDI | 7,846 | 7,828 | 7,937 | -109 | 0.35 |
| Household had multiple SSI-eligible children | 18.8 | 18.8 | 18.9 | -0.0 | 0.99 |
| Enrolling parent provided a valid SSN at RA | 85.2 | 84.9 | 86.7 | -1.8 | 0.38 |
| Parents included in the administrative data | | | | | 0.13 |
| None | 5.4 | 5.5 | 4.6 | 0.9 | |
| One parent | 67.6 | 66.7 | 72.4 | -5.8 | |
| Two parents | 27.0 | 27.8 | 22.9 | 4.9 | |
| Parent SSA payment status at RA | | | | | 0.15 |
| Any parent received SSI only | 11.8 | 11.6 | 12.7 | -1.1 | |
| Any parent received OASDI only | 8.6 | 8.0 | 12.1 | -4.1 | |
| Any parent received both SSI and OASDI | 5.8 | 5.8 | 5.9 | -0.0 | |
| No parent received any SSA payments | 68.3 | 69.0 | 64.7 | 4.3 | |
| No parent was included in the SSA data analyses | 5.4 | 5.5 | 4.6 | 0.9 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 6.6 | 6.5 | 6.8 | -0.3 | 0.84 |
| Youth earnings in the calendar year before RA (\$) | 56 | 57 | 51 | 6 | 0.65 |
| Parent had earnings in the calendar year before RA | 63.2 | 63.9 | 60.1 | 3.8 | 0.21 |
| Parent earnings in the calendar year before RA (\$) | 14,452 | 14,765 | 12,872 | 1,893* | 0.06 |
| Number of youth | 1,967 | 1,644 | 323 | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes the parents who were eligible for the survey. Nonrespondents include parents ineligible for the survey because they died or withdrew from the study. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

3. Differences between self-reporting and proxy youth respondents

We compared the baseline characteristics of youth who self-responded to the survey to those who responded via proxies to assess whether systematically missing data from different survey modes might affect the estimated impacts on survey-based outcomes (Appendix Table G.7). We found differences in 8 of 25 baseline characteristics by survey response type. Compared with self-respondents, youth who responded by proxy were less likely to prefer English as a spoken or written language; they had fewer years between earliest SSI eligibility and RA and were older at the time of their most recent SSI application; they were less likely to be employed in the year before RA and had lower average earnings in that year; their enrolling parents were older and had more earnings in the year before RA, on average. Because of these differences, findings on survey-based outcomes that are available only for self-respondents might not generalize to all survey respondents.

Appendix Table G.7. NYS PROMISE: Baseline characteristics of proxy and self-reporting youth survey respondents (percentages, unless otherwise noted)

| Baseline characteristic | All (A) | Proxy respondent (B) | Self- reporting respondent (C) | Difference (B – C) | <i>p</i> -value |
|--|------------|----------------------------|---|-----------------------|-----------------|
| Demographic characteristics | | | | | |
| Youth is female | 32.7 | 30.9 | 33.9 | -3.0 | 0.21 |
| Youth age at RA | | | | | 0.50 |
| 14 | 38.2 | 36.4 | 39.3 | -2.9 | |
| 15 | 31.8 | 32.9 | 31.2 | 1.7 | |
| 16 | 30.0 | 30.7 | 29.6 | 1.1 | |
| Average age at RA | 15.4 | 15.4 | 15.4 | 0.0 | 0.55 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 85.1 | 81.7 | 87.3 | -5.6*** | 0.00 |
| Prefers English for spoken language | 84.8 | 81.1 | 87.2 | -6.1*** | 0.00 |
| Youth living arrangement at SSI application | | | | | 0.66 |
| In parents' household | 85.6 | 86.2 | 85.2 | 1.0 | |
| Own household or alone | 12.6 | 11.8 | 13.1 | -1.3 | |
| Another household and receiving support | 1.8 | 2.0 | 1.7 | 0.3 | |
| Youth race and ethnicity | | | | ††† | 0.00 |
| Non-Hispanic White | 6.7 | 6.7 | 6.7 | -0.0 | |
| Non-Hispanic Black | 35.4 | 27.8 | 40.3 | -12.5 | |
| Hispanic | 34.1 | 38.6 | 31.3 | 7.3 | |
| Non-Hispanic American Indian | 0.6 | 0.3 | 0.9 | -0.6 | |
| Non-Hispanic other or mixed race | 7.9 | 9.3 | 7.0 | 2.2 | |
| Missing | 15.2 | 17.4 | 13.9 | 3.6 | |
| Enrolling parent age at RA | 44.2 | 44.9 | 43.8 | 1.1** | 0.01 |
| Parent race and ethnicity | | | | <u>+</u> ++ | 0.00 |
| Non-Hispanic White | 10.5 | 9.1 | 11.3 | -2.2 | |
| Non-Hispanic Black | 38.3 | 31.4 | 42.8 | -11.3 | |
| Hispanic | 32.8 | 37.9 | 29.5 | 8.5 | |
| Non-Hispanic American Indian | 0.8 | 0.7 | 0.9 | -0.2 | |
| Non-Hispanic other or mixed race | 7.2 | 9.3 | 5.8 | 3.4 | |
| Missing | 10.4 | 11.5 | 9.7 | 1.8 | |
| Disability | | | | | |
| Youth primary impairment | | | | <u>+</u> ++ | 0.00 |
| Intellectual or developmental disability | 58.0 | 62.2 | 55.4 | 6.8 | |
| Speech, hearing, or visual impairment | 1.3 | 1.6 | 1.1 | 0.5 | |
| Physical disability | 11.8 | 15.1 | 9.8 | 5.3 | |
| Other mental impairment | 24.8 | 16.3 | 30.2 | -13.9 | |
| Other or unknown disability | 4.1 | 4.9 | 3.6 | 1.3 | |

| Baseline characteristic | All (A) | Proxy respondent (B) | Self- reporting respondent (C) | Difference (B – C) | <i>p</i> -value |
|---|------------|----------------------------|---|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 96.0 | 96.5 | 95.6 | 0.9 | 0.37 |
| Received OASDI | 10.0 | 9.7 | 10.2 | -0.6 | 0.71 |
| Years between youth's earliest SSI eligibility and RA | 9.7 | 10.4 | 9.2 | 1.1*** | 0.00 |
| Youth age at most recent SSI application | 6.1 | 5.5 | 6.5 | -1.0*** | 0.00 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,568 | 7,474 | 7,627 | -153 | 0.16 |
| OASDI | 273 | 270 | 274 | -5 | 0.93 |
| Total SSI and OASDI | 7,840 | 7,744 | 7,901 | -157 | 0.10 |
| Household had multiple SSI-eligible children | 18.8 | 19.0 | 18.7 | 0.4 | 0.86 |
| Enrolling parent provided a valid SSN at RA | 85.3 | 85.6 | 85.1 | 0.5 | 0.76 |
| Parents included in the administrative data | | | | † | 0.07 |
| None | 5.3 | 4.9 | 5.5 | -0.5 | |
| One parent | 67.7 | 64.9 | 69.5 | -4.6 | |
| Two parents | 27.1 | 30.2 | 25.0 | 5.2 | |
| Parent SSA payment status at RA | | | | <u>†††</u> | 0.01 |
| Any parent received SSI only | 11.6 | 9.7 | 12.9 | -3.1 | |
| Any parent received OASDI only | 8.6 | 7.8 | 9.1 | -1.3 | |
| Any parent received both SSI and OASDI | 5.8 | 4.0 | 7.0 | -3.1 | |
| No parent received any SSA payments | 68.7 | 73.6 | 65.5 | 8.1 | |
| No parent was included in the SSA data analyses | 5.3 | 4.9 | 5.5 | -0.5 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 6.5 | 4.1 | 8.1 | -4.0*** | 0.00 |
| Youth earnings in the calendar year before RA (\$) | 57 | 39 | 68 | -29*** | 0.01 |
| Parent had earnings in the calendar year before RA | 63.0 | 64.3 | 62.1 | 2.2 | 0.39 |
| Parent earnings in the calendar year before RA (\$) | 14,437 | 15,628 | 13,674 | 1,954** | 0.03 |
| Number of youth | 1,662 | 649 | 1,013 | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes all PROMISE five-year youth survey respondents. We weighted the statistics to adjust for survey nonresponse. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

B. Findings from the impact analysis

In this section, we present findings from the impact analysis of NYS PROMISE. First, we present impacts estimated through the main models. Second, we present the results of sensitivity analyses. Third, we present impacts for key subgroups of evaluation enrollees.

1. Impact estimates

Appendix Tables G.8–G.17 provide results and inference statistics for the regression-adjusted impacts estimated through the main models described in Appendix B. For each outcome measure, we report the estimated regression-adjusted impact; the control group mean (weighted, as applicable); and additional inference statistics, such as standard errors, effect sizes, and sample sizes by treatment status.

Appendix Table G.8. NYS PROMISE: Impact on the youth's education and training (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group sample size | Control group sample size |
|--|-----------------|--------|-----------------|-------------------|-------------|--------------------------------------|------------------------------------|
| Primary outcomes | | | | | | 0.110 | |
| Enrolled in an educational or training program | 57.1 | -4.7** | 0.04 | 2.3 | -0.115 | 826 | 797 |
| Has a GED, high school diploma, or certificate of completion | 56.1 | -1.0 | 0.67 | 2.4 | -0.025 | 830 | 805 |
| Supplementary outcomes | | | | | | | |
| Enrolled in postsecondary education | 13.7 | -1.1 | 0.52 | 1.7 | -0.057 | 828 | 799 |
| Type of school attending | | | | | | | |
| High school serving a variety of students | 11.5 | -2.0 | 0.18 | 1.5 | -0.129 | 828 | 799 |
| High school serving only students with disabilities | 20.5 | -0.1 | 0.95 | 1.9 | -0.004 | 828 | 799 |
| GED program or other adult education program | 2.9 | -0.5 | 0.51 | 0.8 | -0.123 | 828 | 799 |
| Postsecondary vocational, trade, or technical school | 3.6 | -0.9 | 0.32 | 0.9 | -0.178 | 828 | 799 |
| Postsecondary college or advanced degree program | 10.1 | -0.2 | 0.90 | 1.5 | -0.013 | 828 | 799 |
| Other type of school | 2.0 | -0.5 | 0.46 | 0.7 | -0.173 | 828 | 799 |
| Not attending school | 49.4 | 4.2* | 0.07 | 2.3 | 0.102 | 828 | 799 |
| Highest grade completed | | | | | | | |
| Lower than 12th grade | 30.5 | -1.0 | 0.67 | 2.2 | -0.028 | 847 | 815 |
| 12th grade or senior in high school | 52.1 | -1.3 | 0.61 | 2.5 | -0.031 | 847 | 815 |
| Some or all of college or university | 8.1 | -0.2 | 0.88 | 1.3 | -0.017 | 847 | 815 |
| Other or do not know | 9.3 | 2.4 | 0.10 | 1.5 | 0.157 | 847 | 815 |
| Enrolled in a training program | 13.0 | -1.8 | 0.28 | 1.7 | -0.102 | 808 | 784 |
| Received any training credential in the past year | 10.3 | -1.2 | 0.41 | 1.5 | -0.085 | 838 | 810 |
| Any school suspensions or expulsions in the past year | 2.8 | 0.7 | 0.43 | 0.9 | 0.137 | 809 | 787 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group sample size | Control group sample size |
|--|-----------------|--------|-----------------|-------------------|-------------|--------------------------------------|------------------------------------|
| Accommodations | | | | | | | |
| Receives educational accommodation | 36.4 | -1.2 | 0.60 | 2.2 | -0.031 | 826 | 795 |
| Receives training accommodation | 8.6 | -1.9 | 0.15 | 1.4 | -0.168 | 806 | 784 |
| Received supports or services for postsecondary education in the past year | 27.1 | -1.4 | 0.54 | 2.2 | -0.043 | 839 | 805 |

Source: PROMISE five-year surveys.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of NYS PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

GED = General Educational Development.

Appendix Table G.9. NYS PROMISE: Impact on the youth's employment and earnings (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Employed in a paid job in the past year ^a | 32.8 | 4.3* | 0.06 | 2.3 | 0.116 | 847 | 815 |
| Earnings in the past year (\$) | 2,828 | 370 | 0.27 | 337 | 0.055 | 847 | 815 |
| Earnings during the five calendar years after RA (\$) | 7,846 | 385 | 0.55 | 639 | 0.027 | 986 | 981 |
| Supplementary outcomes | | | | | | | |
| Employment in the past year | | | | | | | |
| Any employment | 36.7 | 3.7 | 0.12 | 2.4 | 0.096 | 847 | 815 |
| Weekly hours worked | 4.1 | 0.4 | 0.39 | 0.5 | 0.043 | 847 | 815 |
| Employed in a paid job offering fringe benefits | 15.3 | -0.9 | 0.60 | 1.8 | -0.044 | 847 | 815 |
| Employment settings | | | | | | | |
| Integrated | 23.3 | 6.4*** | 0.00 | 2.2 | 0.200 | 847 | 815 |
| Outside of school-sponsored activities | 23.6 | 4.8** | 0.02 | 2.1 | 0.152 | 847 | 815 |
| With coaching | 9.5 | 0.1 | 0.92 | 1.5 | 0.010 | 847 | 815 |
| Received supports or services in getting or keeping a job | 16.0 | 3.7* | 0.05 | 1.9 | 0.152 | 841 | 810 |
| Employment at the time of the survey | | | | | | | |
| Any paid employment | 15.2 | 2.7 | 0.14 | 1.8 | 0.119 | 847 | 815 |
| Average weekly earnings (\$) | 51 | 12 | 0.12 | 8 | 0.078 | 847 | 815 |
| Weekly hours worked | 3.8 | 0.8 | 0.13 | 0.5 | 0.076 | 847 | 815 |
| Labor force participation | 39.2 | 4.5* | 0.05 | 2.4 | 0.113 | 847 | 815 |
| Employment and earnings in calendar years after RA | | | | | | | |
| Ever employed in Year 1 | 20.2 | 3.6** | 0.04 | 1.8 | 0.127 | 986 | 981 |
| Ever employed in Year 2 | 29.3 | 4.2** | 0.04 | 2.0 | 0.118 | 986 | 981 |
| Ever employed in Year 3 | 37.4 | 4.0* | 0.06 | 2.1 | 0.102 | 986 | 981 |
| Ever employed in Year 4 | 36.8 | 6.9*** | 0.00 | 2.1 | 0.175 | 986 | 981 |
| Ever employed in Year 5 | 35.3 | 3.2 | 0.12 | 2.1 | 0.085 | 986 | 981 |
| Ever employed during Years 1-5 | 56.7 | 8.9*** | 0.00 | 2.1 | 0.227 | 986 | 981 |
| Earnings in Year 1 (\$) | 301 | 56 | 0.11 | 35 | 0.071 | 986 | 981 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Earnings in Year 2 (\$) | 697 | 104 | 0.15 | 72 | 0.063 | 986 | 981 |
| Earnings in Year 3 (\$) | 1,562 | -30 | 0.84 | 146 | -0.009 | 986 | 981 |
| Earnings in Year 4 (\$) | 2,339 | -13 | 0.95 | 217 | -0.003 | 986 | 981 |
| Earnings in Year 5 (\$) | 2,947 | 268 | 0.38 | 305 | 0.040 | 986 | 981 |
| VR services during the 5 years after RA ^a | | | | | | | |
| Applied for VR services | 20.2 | 3.5* | 0.06 | 1.9 | 0.126 | 986 | 981 |
| Received VR services | 12.3 | 1.6 | 0.30 | 1.5 | 0.084 | 986 | 981 |

Source: PROMISE five-year survey, RSA-911 data (VR service outcomes), and SSA administrative records (employment and earnings in years after RA).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of NYS PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

^a RSA-911 data are available only through 2020. VR services outcomes used only four years of data for youth who enrolled in PROMISE in 2016.

N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration; VR = vocational rehabilitation.

Appendix Table G.10. NYS PROMISE: Impact on the youth's self-determination and expectations (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Self-determination score (scale: 0 to 100) ^a | 78.0 | -0.3 | 0.74 | 0.9 | -0.022 | 489 | 487 |
| Youth expects to be financially independent at age 25 | 65.5 | 5.5* | 0.07 | 3.0 | 0.154 | 494 | 490 |
| Supplementary outcomes | · | | | | | | |
| Scores on subdomains of self-determination ^a | | | | | | | |
| Autonomy (scale: 0 to 300) | 130.7 | -5.8 | 0.12 | 3.7 | -0.102 | 488 | 487 |
| Psychological empowerment (scale: 0 to 100) | 87.6 | 0.8 | 0.47 | 1.2 | 0.046 | 487 | 487 |
| Self-realization (scale: 0 to 100) | 91.4 | -0.6 | 0.59 | 1.0 | -0.035 | 489 | 487 |
| Agentic action (scale: 0 to 100) | 89.2 | 1.0 | 0.50 | 1.4 | 0.044 | 488 | 487 |
| Youth expects to: | | | | | | | |
| Get postsecondary education (beyond high school/GED) | 58.3 | -2.7 | 0.40 | 3.2 | -0.067 | 490 | 483 |
| Live independently at age 25 | 59.9 | 3.9 | 0.21 | 3.1 | 0.099 | 489 | 482 |
| Be employed in a paid job at age 25 | 89.5 | 3.0 | 0.10 | 1.9 | 0.226 | 497 | 493 |
| Parent expects youth to: | | | | | | | |
| Get postsecondary education (beyond high school/GED) | 44.2 | -0.6 | 0.82 | 2.6 | -0.015 | 774 | 744 |
| Live independently at age 25 | 33.5 | -1.0 | 0.67 | 2.3 | -0.027 | 772 | 760 |
| Be financially independent at age 25 | 46.1 | 3.6 | 0.15 | 2.5 | 0.086 | 794 | 776 |
| Be employed in a paid job at age 25 | 77.6 | 3.0 | 0.13 | 2.0 | 0.111 | 792 | 782 |
| Parent believes it important that youth be employed eventually | 87.8 | 3.7** | 0.02 | 1.5 | 0.244 | 775 | 769 |

Source: PROMISE five-year survey.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of NYS PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

^a Higher scores on the scales indicate higher levels of self-determination.

GED = General Educational Development; N = sample size.

Appendix Table G.11. NYS PROMISE: Impact on the youth's SSA payments and knowledge (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|---------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | incun | inipaot | praiac | | | group it | 9.000 |
| Received SSA payments in Year 5 after RA | 67.8 | 1.8 | 0.36 | 2.0 | 0.051 | 986 | 981 |
| Total SSA payments in Year 5 after RA (\$) | 5,426 | -10 | 0.96 | 182 | -0.002 | 986 | 981 |
| Total SSA payments during Years 1–5 after RA (\$) | 34,428 | -17 | 0.97 | 522 | -0.001 | 986 | 981 |
| Supplementary outcomes | | | | | | | |
| Aware of the following SSA policies | | | | | | | |
| Children receiving SSI are not automatically eligible for SSI as adults | 41.5 | 4.2 | 0.19 | 3.2 | 0.104 | 488 | 486 |
| People receiving SSI can work for pay | 68.4 | 3.1 | 0.30 | 3.0 | 0.089 | 488 | 486 |
| People receiving SSI must report earnings to SSA | 74.8 | 1.2 | 0.66 | 2.8 | 0.040 | 488 | 486 |
| Aware of the following work supports | | | | | | | |
| SSI Student Earned Income Exclusion | 6.5 | 3.6** | 0.05 | 1.8 | 0.292 | 488 | 486 |
| SSI earned income exclusion | 6.0 | 2.1 | 0.22 | 1.7 | 0.193 | 488 | 486 |
| SSI PASS plan | 6.5 | 1.8 | 0.29 | 1.7 | 0.160 | 488 | 486 |
| ABLE account | 6.2 | 0.8 | 0.63 | 1.6 | 0.076 | 488 | 486 |
| SSA payments in years after RA | | | | | | | |
| Received any in Year 1 | 97.9 | -1.0 | 0.13 | 0.7 | -0.239 | 986 | 981 |
| Received any in Year 2 | 93.8 | 0.1 | 0.91 | 1.1 | 0.012 | 986 | 981 |
| Received any in Year 3 | 87.7 | 1.1 | 0.43 | 1.4 | 0.064 | 986 | 981 |
| Received any in Year 4 | 78.6 | 1.1 | 0.54 | 1.8 | 0.040 | 986 | 981 |
| Received any in Years 1–5 | 98.2 | 0.1 | 0.91 | 0.6 | 0.023 | 986 | 981 |
| Amount in Year 1 (\$) | 8,310 | -74 | 0.34 | 77 | -0.031 | 986 | 981 |
| Amount in Year 2 (\$) | 7,695 | -32 | 0.77 | 106 | -0.011 | 986 | 981 |
| Amount in Year 3 (\$) | 6,960 | 14 | 0.92 | 136 | 0.004 | 986 | 981 |
| Amount in Year 4 (\$) | 6,037 | 85 | 0.60 | 162 | 0.022 | 986 | 981 |

| | Control | | | Standard | | Treatment | Control |
|------------------------------------|---------|--------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p</i> -value | error | Effect size | group N | group N |
| SSI payments in years after RA | | | | | | | |
| Received any in Year 1 | 97.2 | -0.9 | 0.20 | 0.7 | -0.185 | 986 | 981 |
| Received any in Year 2 | 92.7 | -0.0 | 0.98 | 1.1 | -0.002 | 986 | 981 |
| Received any in Year 3 | 85.5 | 1.1 | 0.44 | 1.5 | 0.058 | 986 | 981 |
| Received any in Year 4 | 76.4 | 1.0 | 0.57 | 1.8 | 0.035 | 986 | 981 |
| Received any in Year 5 | 66.4 | 1.6 | 0.44 | 2.0 | 0.043 | 986 | 981 |
| Received any in Years 1–5 | 97.8 | 0.2 | 0.72 | 0.6 | 0.066 | 986 | 981 |
| Amount in Year 1 (\$) | 7,890 | -35 | 0.65 | 76 | -0.013 | 986 | 981 |
| Amount in Year 2 (\$) | 7,242 | 9 | 0.93 | 107 | 0.003 | 986 | 981 |
| Amount in Year 3 (\$) | 6,502 | 59 | 0.66 | 137 | 0.017 | 986 | 981 |
| Amount in Year 4 (\$) | 5,622 | 118 | 0.46 | 161 | 0.031 | 986 | 981 |
| Amount in Year 5 (\$) | 5,060 | -15 | 0.93 | 177 | -0.004 | 986 | 981 |
| Total amount during Years 1–5 (\$) | 32,317 | 137 | 0.79 | 522 | 0.010 | 986 | 981 |
| OASDI benefits in years after RA | | | | | | | |
| Received any in Year 1 | 11.5 | -0.4 | 0.68 | 0.9 | -0.022 | 986 | 981 |
| Received any in Year 2 | 12.3 | -0.8 | 0.38 | 1.0 | -0.049 | 986 | 981 |
| Received any in Year 3 | 11.2 | -0.4 | 0.73 | 1.1 | -0.023 | 986 | 981 |
| Received any in Year 4 | 10.3 | -1.1 | 0.33 | 1.1 | -0.075 | 986 | 981 |
| Received any in Year 5 | 7.4 | 0.3 | 0.76 | 1.1 | 0.028 | 986 | 981 |
| Received any in Years 1–5 | 15.0 | -0.3 | 0.79 | 1.2 | -0.015 | 986 | 981 |
| Amount in Year 1 (\$) | 420 | -39 | 0.17 | 29 | -0.028 | 986 | 981 |
| Amount in Year 2 (\$) | 453 | -40 | 0.32 | 41 | -0.028 | 986 | 981 |
| Amount in Year 3 (\$) | 458 | -45 | 0.42 | 56 | -0.029 | 986 | 981 |
| Amount in Year 4 (\$) | 415 | -34 | 0.57 | 58 | -0.022 | 986 | 981 |
| Amount in Year 5 (\$) | 365 | 5 | 0.95 | 69 | 0.003 | 986 | 981 |
| Total amount during Years 1–5 (\$) | 2,111 | -154 | 0.45 | 205 | -0.023 | 986 | 981 |

| Outcome | Control mean | Impact | <i>p-</i> value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Age-18 redetermination status five years after RA | | | | | | | |
| Final decision: benefits ceased | 22.3 | 1.5 | 0.41 | 1.8 | 0.051 | 986 | 981 |
| Final decision: benefits continued | 46.2 | 0.6 | 0.77 | 2.1 | 0.015 | 986 | 981 |
| Final decision is pending | 7.7 | -0.5 | 0.67 | 1.2 | -0.044 | 986 | 981 |
| Did not have an age-18 redetermination | 23.8 | -1.6 | 0.37 | 1.8 | -0.055 | 986 | 981 |

Source: SSA administrative records and PROMISE five-year survey (awareness of work supports and SSA policies).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of NYS PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

ABLE = Achieving a Better Life Experience; OASDI = Old-Age, Survivors, and Disability Insurance; PASS = Plan for Achieving Self Support; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income.

Appendix Table G.12. NYS PROMISE: Impact on the youth's health insurance coverage and expenditures (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Control | | | Standard | | Treatment | Control |
|--|---------|--------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p-</i> value | error | Effect size | group N | group N |
| Primary outcomes | | | | | | | |
| Covered by any health insurance | 94.4 | 0.6 | 0.61 | 1.1 | 0.069 | 827 | 793 |
| Average monthly Medicaid and Medicare expenditures in the five years after RA (\$) | 1,346 | -65** | 0.04 | 32 | -0.075 | 986 | 981 |
| Supplementary outcomes | | | | | | | |
| Covered by private health insurance | 6.0 | 2.2 | 0.11 | 1.3 | 0.200 | 827 | 793 |
| Covered by private health insurance purchased through an ACA health exchange | 0.6 | 0.3 | 0.51 | 0.4 | 0.216 | 827 | 793 |
| Medicaid and Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 99.4 | -0.0 | 0.96 | 0.4 | -0.020 | 986 | 981 |
| Ever enrolled in Year 2 | 98.8 | -0.4 | 0.46 | 0.5 | -0.169 | 986 | 981 |
| Ever enrolled in Year 3 | 97.5 | -0.4 | 0.55 | 0.7 | -0.099 | 986 | 981 |
| Ever enrolled in Year 4 | 95.6 | 0.2 | 0.84 | 0.9 | 0.027 | 986 | 981 |
| Ever enrolled in Year 5 | 93.6 | -0.5 | 0.65 | 1.1 | -0.050 | 986 | 981 |
| Percentage of months enrolled in Years 1–5 | 94.5 | -0.0 | 1.00 | 0.7 | -0.000 | 986 | 981 |
| Average monthly Medicaid and Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 1,312 | -32* | 0.10 | 19 | -0.049 | 986 | 981 |
| Year 2 (\$) | 1,310 | -39 | 0.16 | 28 | -0.052 | 986 | 981 |
| Year 3 (\$) | 1,311 | -65* | 0.05 | 34 | -0.076 | 986 | 981 |
| Year 4 (\$) | 1,449 | -69 | 0.19 | 53 | -0.052 | 986 | 981 |
| Year 5 (\$) | 1,347 | -120** | 0.04 | 58 | -0.084 | 986 | 981 |
| Medicaid participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 99.4 | -0.0 | 0.96 | 0.4 | -0.020 | 986 | 981 |
| Ever enrolled in Year 2 | 98.8 | -0.4 | 0.46 | 0.5 | -0.169 | 986 | 981 |
| Ever enrolled in Year 3 | 97.5 | -0.4 | 0.55 | 0.7 | -0.099 | 986 | 981 |
| Ever enrolled in Year 4 | 95.6 | 0.2 | 0.84 | 0.9 | 0.027 | 986 | 981 |
| Ever enrolled in Year 5 | 93.6 | -0.5 | 0.65 | 1.1 | -0.050 | 986 | 981 |
| Percentage of months enrolled in Years 1–5 | 94.5 | 0.0 | 0.98 | 0.7 | 0.001 | 986 | 981 |

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Appendix G NYS PROMISE Impacts, Benefits, and Costs

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Average monthly Medicaid expenditures in years after RA | | | • | • | • | | |
| Year 1 (\$) | 1,308 | -27 | 0.14 | 18 | -0.042 | 986 | 981 |
| Year 2 (\$) | 1,303 | -30 | 0.25 | 26 | -0.041 | 986 | 981 |
| Year 3 (\$) | 1,302 | -55* | 0.08 | 32 | -0.067 | 986 | 981 |
| Year 4 (\$) | 1,436 | -57 | 0.27 | 52 | -0.044 | 986 | 981 |
| Year 5 (\$) | 1,311 | -94* | 0.08 | 54 | -0.070 | 986 | 981 |
| Years 1–5 (\$) | 1,332 | -53* | 0.08 | 30 | -0.063 | 986 | 981 |
| Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 0.1 | -0.1 | 0.32 | 0.1 | | 986 | 981 |
| Ever enrolled in Year 2 | 0.1 | -0.1 | 0.32 | 0.1 | | 986 | 981 |
| Ever enrolled in Year 3 | 0.2 | -0.1 | 0.56 | 0.2 | -0.445 | 986 | 981 |
| Ever enrolled in Year 4 | 2.4 | -0.3 | 0.58 | 0.6 | -0.092 | 986 | 981 |
| Ever enrolled in Year 5 | 5.1 | -1.0 | 0.26 | 0.8 | -0.133 | 986 | 981 |
| Percentage of months enrolled in Years 1–5 | 1.1 | -0.3 | 0.22 | 0.2 | -0.053 | 986 | 981 |
| Average monthly Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 4 | -5 | 0.32 | 5 | -0.053 | 986 | 981 |
| Year 2 (\$) | 7 | -8 | 0.32 | 8 | -0.053 | 986 | 981 |
| Year 3 (\$) | 8 | -10 | 0.32 | 9 | -0.053 | 986 | 981 |
| Year 4 (\$) | 13 | -12 | 0.17 | 9 | -0.065 | 986 | 981 |
| Year 5 (\$) | 36 | -26 | 0.14 | 18 | -0.065 | 986 | 981 |
| Years 1–5 (\$) | 14 | -12 | 0.13 | 8 | -0.076 | 986 | 981 |

Source: CMS administrative records and PROMISE five-year survey (non-Medicare/Medicaid outcomes).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of NYS PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

ACA = Affordable Care Act; CMS = Centers for Medicare & Medicaid Services; N = sample size; RA = random assignment.

Appendix Table G.13. NYS PROMISE: Impact on the youth's economic and social well-being (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Total income in the past year (\$) | 8,422 | 210 | 0.54 | 340 | 0.031 | 847 | 815 |
| Total income during the five calendar years after RA (\$) | 43,845 | 348 | 0.63 | 716 | 0.021 | 986 | 981 |
| Supplementary outcomes | | | | | | | |
| Engaging in productive market activities ^a | 80.4 | -0.4 | 0.83 | 2.0 | -0.016 | 837 | 803 |
| Income in calendar years after RA | | | | | | | |
| Year 1 (\$) | 8,937 | 63 | 0.56 | 108 | 0.021 | 986 | 981 |
| Year 2 (\$) | 8,667 | 60 | 0.65 | 132 | 0.018 | 986 | 981 |
| Year 3 (\$) | 8,671 | 71 | 0.70 | 186 | 0.017 | 986 | 981 |
| Year 4 (\$) | 8,693 | 63 | 0.79 | 233 | 0.012 | 986 | 981 |
| Year 5 (\$) | 8,877 | 90 | 0.76 | 297 | 0.014 | 986 | 981 |
| Household income in the past year (\$) ^b | 27,818 | -1,155 | 0.17 | 845 | -0.072 | 750 | 721 |
| Household receives TANF, SNAP, or housing assistance ^b | 63.6 | -0.7 | 0.77 | 2.4 | -0.019 | 779 | 751 |
| Amount of public assistance in the past month | | | | | | | |
| TANF (\$) ^b | 21 | 1 | 0.85 | 5 | 0.009 | 782 | 755 |
| SNAP benefits (\$) ^b | 191 | -9 | 0.42 | 11 | -0.041 | 788 | 765 |
| Housing assistance (\$) ^b | 216 | 13 | 0.57 | 23 | 0.028 | 783 | 762 |
| Family structure and living arrangements | | | | | | | |
| Living independently | 6.0 | 1.2 | 0.33 | 1.2 | 0.116 | 845 | 812 |
| Married or in a marriage-like relationship | 2.6 | 0.6 | 0.51 | 0.9 | 0.126 | 809 | 783 |
| Responsible for a child or children | 6.6 | 0.5 | 0.67 | 1.3 | 0.051 | 807 | 785 |
| Engagement with the criminal justice system | | | | | | | |
| Ever arrested | 7.3 | 3.1** | 0.03 | 1.4 | 0.232 | 804 | 784 |
| Number of times arrested | 0.2 | 0.0 | 0.39 | 0.0 | 0.045 | 804 | 784 |
| Arrested in the past year | 2.0 | 1.2 | 0.15 | 0.8 | 0.286 | 803 | 784 |
| Ever incarcerated | 1.2 | 1.0 | 0.15 | 0.7 | 0.366 | 799 | 778 |
| Length of incarceration (days) | 7.0 | 8.2 | 0.19 | 6.3 | 0.071 | 799 | 778 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Self-reported health status | | | | | | | |
| Poor | 5.7 | -0.6 | 0.59 | 1.1 | -0.070 | 803 | 782 |
| Fair | 12.0 | 3.0* | 0.08 | 1.7 | 0.156 | 803 | 782 |
| Good | 40.7 | -0.8 | 0.74 | 2.5 | -0.021 | 803 | 782 |
| Very good or excellent | 41.6 | -1.6 | 0.52 | 2.5 | -0.040 | 803 | 782 |
| Received help in getting accommodations for school, work, or living independently in past year | 16.8 | -0.1 | 0.97 | 1.9 | -0.003 | 842 | 813 |

Source: PROMISE five-year surveys and SSA administrative records (SSA payments and income in calendar years after RA).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of NYS PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

^a Productive market activities include engaging in any of the following at the time of the five-year survey: employment in paid or unpaid work, looking for work, or enrollment in school or a training program.

^b This outcome is based on data from the parent survey about the parent's household if the youth lived with the parent at interview.

N = sample size; RA = random assignment; SNAP = Supplemental Nutrition Assistance Program; SSA = Social Security Administration; TANF = Temporary Assistance for Needy Families.

Appendix Table G.14. NYS PROMISE: Impact on the parents' employment and earnings (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Either parent worked for pay in the past year | 56.5 | 2.4 | 0.30 | 2.3 | 0.059 | 836 | 805 |
| Parents' earnings in the past year (\$) | 16,130 | 402 | 0.69 | 1,005 | 0.019 | 837 | 805 |
| Parents' earnings during the five calendar years after RA (\$) | 90,576 | 2,041 | 0.48 | 2,886 | 0.019 | 951 | 910 |
| Supplementary outcomes | | | | | | | |
| Highest educational attainment achieved by either parent | | | | | | | |
| Not a high school graduate | 28.1 | 2.4 | 0.27 | 2.2 | 0.070 | 836 | 807 |
| High school diploma or GED | 33.6 | -0.5 | 0.82 | 2.4 | -0.015 | 836 | 807 |
| Some postsecondary education or more | 36.6 | -2.3 | 0.32 | 2.3 | -0.061 | 836 | 807 |
| Other or do not know | 1.7 | 0.4 | 0.53 | 0.7 | 0.142 | 836 | 807 |
| Employment in the past year | | | | | | | |
| Number of parents that worked for pay | 0.6 | 0.0 | 0.42 | 0.0 | 0.038 | 833 | 804 |
| Number of weeks worked | 29.0 | 0.8 | 0.55 | 1.4 | 0.028 | 833 | 804 |
| Weekly hours worked | 21.5 | 0.2 | 0.83 | 1.1 | 0.010 | 837 | 805 |
| Either parent was offered fringe benefits through a job | 37.6 | 2.8 | 0.23 | 2.3 | 0.071 | 835 | 805 |
| Employment at the time of survey | | | | | | | |
| Either parent is in the labor force | 56.9 | 2.9 | 0.22 | 2.4 | 0.073 | 802 | 785 |
| Either parent is working for pay | 44.2 | 1.7 | 0.47 | 2.4 | 0.043 | 802 | 789 |
| Employment and earnings in calendar years after RA | | | | | | | |
| Ever employed in Year 1 | 64.6 | -0.0 | 0.99 | 1.7 | -0.001 | 951 | 910 |
| Ever employed in Year 2 | 64.1 | 1.7 | 0.34 | 1.8 | 0.045 | 951 | 910 |
| Ever employed in Year 3 | 65.5 | 1.9 | 0.30 | 1.8 | 0.052 | 951 | 910 |
| Ever employed in Year 4 | 65.3 | 1.4 | 0.46 | 1.9 | 0.037 | 951 | 910 |
| Ever employed in Year 5 | 61.6 | 2.8 | 0.15 | 1.9 | 0.072 | 951 | 910 |
| Ever employed in Years 1-5 | 75.8 | 1.1 | 0.52 | 1.7 | 0.036 | 951 | 910 |
| Earnings in Year 1 (\$) | 16,097 | 507 | 0.30 | 490 | 0.025 | 951 | 910 |
| Earnings in Year 2 (\$) | 17,416 | 463 | 0.42 | 573 | 0.022 | 951 | 910 |
| Earnings in Year 3 (\$) | 18,986 | 195 | 0.76 | 644 | 0.009 | 951 | 910 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|-------------------------|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Earnings in Year 4 (\$) | 19,591 | 2 | 1.00 | 758 | 0.000 | 951 | 910 |
| Earnings in Year 5 (\$) | 18,486 | 874 | 0.31 | 867 | 0.034 | 951 | 910 |

Source: PROMISE five-year survey and SSA administrative records (employment and earnings in years after RA).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of NYS PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

GED = General Educational Development; N = sample size; RA = random assignment.

Appendix Table G.15. NYS PROMISE: Impact on the parents' SSA payments (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Control | | | Standard | | Treatment | Control |
|--|---------|--------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p</i> -value | error | Effect size | group N | group N |
| Primary outcomes | | | | | | | |
| Either parent received SSA payments in Year 5 | 33.0 | -1.3 | 0.36 | 1.4 | -0.035 | 951 | 910 |
| Total SSA payments received in Year 5 (\$) | 3,369 | -101 | 0.58 | 181 | -0.019 | 951 | 910 |
| Total SSA payments during the five years after RA (\$) | 16,194 | -346 | 0.60 | 654 | -0.014 | 951 | 910 |
| Supplementary outcomes | | | | | | | |
| SSA payments in years after RA | | | | | | | |
| Received any in Year 1 | 29.7 | 0.5 | 0.51 | 0.7 | 0.013 | 951 | 910 |
| Received any in Year 2 | 30.9 | -0.9 | 0.36 | 0.9 | -0.025 | 951 | 910 |
| Received any in Year 3 | 32.4 | -1.5 | 0.18 | 1.1 | -0.042 | 951 | 910 |
| Received any in Year 4 | 32.5 | -0.9 | 0.50 | 1.3 | -0.024 | 951 | 910 |
| Received any in Years 1–5 | 36.5 | -1.5 | 0.23 | 1.2 | -0.039 | 951 | 910 |
| Amount in Year 1 (\$) | 3,110 | -52 | 0.66 | 118 | -0.010 | 951 | 910 |
| Amount in Year 2 (\$) | 3,175 | -22 | 0.88 | 148 | -0.004 | 951 | 910 |
| Amount in Year 3 (\$) | 3,233 | -107 | 0.48 | 153 | -0.021 | 951 | 910 |
| Amount in Year 4 (\$) | 3,307 | -63 | 0.71 | 169 | -0.012 | 951 | 910 |
| SSI payments in years after RA | | | | | | | |
| Received any in Year 1 | 19.1 | 0.5 | 0.48 | 0.7 | 0.019 | 951 | 910 |
| Received any in Year 2 | 19.1 | -0.4 | 0.68 | 0.9 | -0.014 | 951 | 910 |
| Received any in Year 3 | 19.7 | -0.9 | 0.36 | 1.0 | -0.037 | 951 | 910 |
| Received any in Year 4 | 19.1 | -0.1 | 0.90 | 1.1 | -0.006 | 951 | 910 |
| Received any in Year 5 | 18.9 | 0.1 | 0.93 | 1.2 | 0.004 | 951 | 910 |
| Received any in Years 1–5 | 24.1 | -1.0 | 0.38 | 1.1 | -0.032 | 951 | 910 |
| Amount in Year 1 (\$) | 1,447 | -13 | 0.87 | 79 | -0.004 | 951 | 910 |
| Amount in Year 2 (\$) | 1,359 | 37 | 0.65 | 80 | 0.011 | 951 | 910 |
| Amount in Year 3 (\$) | 1,359 | -19 | 0.82 | 84 | -0.006 | 951 | 910 |
| Amount in Year 4 (\$) | 1,390 | -39 | 0.71 | 104 | -0.012 | 951 | 910 |
| Amount in Year 5 (\$) | 1,346 | -26 | 0.79 | 98 | -0.008 | 951 | 910 |
| Total amount during Years 1–5 (\$) | 6,900 | -60 | 0.87 | 372 | -0.004 | 951 | 910 |

Appendix G NYS PROMISE Impacts, Benefits, and Costs

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|------------------------------------|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| OASDI benefits in years after RA | | | | | | | |
| Received any in Year 1 | 17.0 | 0.1 | 0.87 | 0.7 | 0.005 | 951 | 910 |
| Received any in Year 2 | 18.4 | -0.6 | 0.43 | 0.8 | -0.026 | 951 | 910 |
| Received any in Year 3 | 19.9 | -1.5 | 0.14 | 1.0 | -0.059 | 951 | 910 |
| Received any in Year 4 | 20.1 | -0.5 | 0.69 | 1.1 | -0.017 | 951 | 910 |
| Received any in Year 5 | 20.3 | -0.5 | 0.67 | 1.2 | -0.020 | 951 | 910 |
| Received any in Years 1–5 | 22.9 | -1.2 | 0.29 | 1.2 | -0.043 | 951 | 910 |
| Amount in Year 1 (\$) | 1,663 | -39 | 0.67 | 92 | -0.010 | 951 | 910 |
| Amount in Year 2 (\$) | 1,816 | -58 | 0.63 | 121 | -0.014 | 951 | 910 |
| Amount in Year 3 (\$) | 1,874 | -88 | 0.50 | 130 | -0.021 | 951 | 910 |
| Amount in Year 4 (\$) | 1,917 | -24 | 0.86 | 135 | -0.006 | 951 | 910 |
| Amount in Year 5 (\$) | 2,024 | -75 | 0.63 | 156 | -0.017 | 951 | 910 |
| Total amount during Years 1–5 (\$) | 9,294 | -286 | 0.60 | 549 | -0.015 | 951 | 910 |

Source: SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of NYS PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

N = sample size; OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income.

Appendix Table G.16. NYS PROMISE: Impact on the parents' health insurance coverage and expenditures (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| er ine europ und enerni in percentagee, amooe | | | | | | | | |
|---|-----------------|---------|-----------------|-------------------|-------------|----------------------|--------------------|--|
| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N | |
| Primary outcomes | mean | inipact | | | | group in | group i | |
| Either parent is covered by health insurance | 92.6 | 0.9 | 0.41 | 1.1 | 0.087 | 828 | 802 | |
| Average monthly Medicaid and Medicare expenditures in the five years after RA (\$) | 858 | 0 | 0.99 | 27 | 0.000 | 951 | 910 | |
| Supplementary outcomes | | | | | | | | |
| Covered by private health insurance | 20.3 | -0.0 | 1.00 | 1.9 | -0.000 | 828 | 801 | |
| Medicaid and Medicare participation in years after RA | | | | | | | | |
| Ever enrolled in Year 1 | 89.2 | -0.9 | 0.49 | 1.4 | -0.058 | 951 | 910 | |
| Ever enrolled in Year 2 | 86.8 | -0.6 | 0.70 | 1.5 | -0.029 | 951 | 910 | |
| Ever enrolled in Year 3 | 85.8 | -1.6 | 0.30 | 1.6 | -0.078 | 951 | 910 | |
| Ever enrolled in Year 4 | 85.4 | -1.7 | 0.27 | 1.6 | -0.081 | 951 | 910 | |
| Ever enrolled in Year 5 | 82.3 | 1.3 | 0.43 | 1.7 | 0.056 | 951 | 910 | |
| Percentage of months enrolled in Years 1–5 | 82.0 | -1.0 | 0.45 | 1.4 | -0.032 | 951 | 910 | |
| Average monthly Medicaid and Medicare expenditures in years after RA | | | | | | | | |
| Year 1 (\$) | 740 | 1 | 0.94 | 20 | 0.002 | 951 | 910 | |
| Year 2 (\$) | 802 | -7 | 0.81 | 27 | -0.007 | 951 | 910 | |
| Year 3 (\$) | 869 | -10 | 0.78 | 34 | -0.009 | 951 | 910 | |
| Year 4 (\$) | 950 | 22 | 0.60 | 42 | 0.018 | 951 | 910 | |
| Year 5 (\$) | 929 | -6 | 0.89 | 43 | -0.005 | 951 | 910 | |
| Medicaid participation in years after RA | | | | | | | | |
| Ever enrolled in Year 1 | 88.0 | -1.6 | 0.26 | 1.4 | -0.089 | 951 | 910 | |
| Ever enrolled in Year 2 | 85.3 | -1.2 | 0.43 | 1.6 | -0.057 | 951 | 910 | |
| Ever enrolled in Year 3 | 83.7 | -1.5 | 0.37 | 1.6 | -0.064 | 951 | 910 | |
| Ever enrolled in Year 4 | 82.6 | -1.4 | 0.40 | 1.7 | -0.058 | 951 | 910 | |
| Ever enrolled in Year 5 | 79.9 | 1.6 | 0.35 | 1.7 | 0.063 | 951 | 910 | |
| Percentage of months enrolled in Years 1–5 | 79.6 | -1.1 | 0.44 | 1.4 | -0.033 | 951 | 910 | |
| | | | | | | | | |

| | Control | | | Standard | | Treatment | Control |
|---|---------|--------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p</i> -value | error | Effect size | group N | group N |
| Average monthly Medicaid expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 638 | -20 | 0.24 | 17 | -0.034 | 951 | 910 |
| Year 2 (\$) | 676 | -38* | 0.08 | 21 | -0.056 | 951 | 910 |
| Year 3 (\$) | 722 | -34 | 0.17 | 25 | -0.046 | 951 | 910 |
| Year 4 (\$) | 799 | -27 | 0.39 | 32 | -0.031 | 951 | 910 |
| Year 5 (\$) | 777 | -71** | 0.03 | 32 | -0.082 | 951 | 910 |
| Years 1–5 (\$) | 723 | -38* | 0.07 | 21 | -0.056 | 951 | 910 |
| Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 15.9 | 0.7 | 0.35 | 0.8 | 0.032 | 951 | 910 |
| Ever enrolled in Year 2 | 16.9 | 0.2 | 0.80 | 0.8 | 0.009 | 951 | 910 |
| Ever enrolled in Year 3 | 18.1 | -0.2 | 0.87 | 1.0 | -0.007 | 951 | 910 |
| Ever enrolled in Year 4 | 19.1 | -0.3 | 0.77 | 1.1 | -0.013 | 951 | 910 |
| Ever enrolled in Year 5 | 20.4 | -0.9 | 0.47 | 1.2 | -0.033 | 951 | 910 |
| Percentage of months enrolled in Years 1–5 | 17.3 | -0.0 | 1.00 | 0.8 | -0.000 | 951 | 910 |
| Average monthly Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 101 | 21 | 0.17 | 16 | 0.049 | 951 | 910 |
| Year 2 (\$) | 126 | 31 | 0.13 | 21 | 0.055 | 951 | 910 |
| Year 3 (\$) | 147 | 25 | 0.30 | 24 | 0.039 | 951 | 910 |
| Year 4 (\$) | 151 | 49* | 0.06 | 27 | 0.070 | 951 | 910 |
| Year 5 (\$) | 153 | 66** | 0.02 | 29 | 0.091 | 951 | 910 |
| Years 1–5 (\$) | 135 | 38** | 0.04 | 19 | 0.071 | 951 | 910 |

Source: CMS administrative records and PROMISE five-year survey (non-Medicare/Medicaid outcomes).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of NYS PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

CMS = Centers for Medicare & Medicaid Services; N = sample size.

Appendix Table G.17. NYS PROMISE: Impact on the parents' economic well-being (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|--------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Parents' total income in the past year (\$) | 19,802 | 296 | 0.77 | 1,009 | 0.015 | 807 | 744 |
| Parents' total income during the five calendar years after RA (\$) | 108,303 | 1,738 | 0.54 | 2,812 | 0.017 | 951 | 910 |
| Supplementary outcomes | | | | | | | |
| Parents' income in calendar years after RA | | | | | | | |
| Year 1 (\$) | 19,500 | 488 | 0.33 | 498 | 0.026 | 951 | 910 |
| Year 2 (\$) | 20,844 | 405 | 0.48 | 572 | 0.020 | 951 | 910 |
| Year 3 (\$) | 22,532 | 219 | 0.73 | 629 | 0.010 | 951 | 910 |
| Year 4 (\$) | 23,244 | -47 | 0.95 | 739 | -0.002 | 951 | 910 |
| Year 5 (\$) | 22,184 | 673 | 0.43 | 846 | 0.028 | 951 | 910 |
| Household receives TANF, SNAP, or housing assistance | 63.6 | 1.5 | 0.52 | 2.4 | 0.040 | 818 | 786 |
| Household income in the past year (\$) | 27,954 | -329 | 0.68 | 811 | -0.021 | 790 | 761 |

Source: PROMISE five-year survey and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of NYS PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

N = sample size; RA = random assignment; SSA = Social Security Administration.

2. Sensitivity analyses

We assessed the sensitivity of the estimated impacts on primary outcomes to methodological choices we incorporated in the main impact estimates. In Appendix Table G.18, we show the impact estimated by the main regression model for each outcome, as well as by alternative models that do not (1) use the survey weights, (2) include covariate adjustment, and (3) use imputed data for outcomes that underwent multiple imputation. The alternative models produced broadly similar results, suggesting that the main model's estimates of program impacts were not sensitive to the choice of estimation method.

We also assessed the extent to which the lack of survey data for some enrollees would influence the estimates of program impacts. In Appendix Table G.19, we compare how the estimated impacts on primary outcomes varied when nonrespondents were included and excluded from analyses of outcomes measured using administrative data. For all outcomes, the impact estimated using the weighted survey respondent sample did not significantly differ from the impact estimated using the administrative analysis sample. The findings suggest that use of the analysis weights minimized the potential for nonresponse bias because the estimated impacts for the survey respondent sample were comparable to those for the full research sample.

Appendix Table G.18. NYS PROMISE: Impact on primary outcomes, by estimation approach (values measured at the time of the survey and shown in in percentages, unless otherwise noted)

| Outcome | Main model | No weighting for non- response | No covariate adjustment | No imputation |
|--|------------|--------------------------------------|----------------------------|------------------|
| Enrolled in an educational or training program | -4.7** | -4.4* | -4.4* | n.a. |
| Has a GED, high school diploma, or certificate of completion | -1.0 | -1.0 | -1.6 | n.a. |
| Youth employed in a paid job in the past year | 4.3* | 4.5* | 3.3 | 4.2* |
| Youth earnings in the past year (\$) | 370 | 400 | 241 | 322 |
| Youth earnings during the five calendar years after RA (\$) | 385 | n.a. | 111 | n.a. |
| Youth self-determination score (scale: 0 to 100) ^a | -0.3 | -0.4 | -0.3 | n.a. |
| Youth expects to be financially independent at age 25 | 5.5* | 5.5* | 4.6 | n.a. |
| Youth received SSA payments in Year 5 after RA | 1.8 | n.a. | 2.4 | n.a. |
| Youth total SSA payments in Year 5 after RA (\$) | -10 | n.a. | 10 | n.a. |
| Youth total SSA payments during Years 1–5 after RA (\$) | -17 | n.a. | -110 | n.a. |
| Youth covered by any health insurance | 0.6 | 0.5 | 0.4 | n.a. |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | -65** | n.a. | -65** | n.a. |
| Youth total income in the past year (\$) | 210 | 231 | 122 | 142 |
| Youth total income during the five calendar years after RA (\$) | 348 | n.a. | -24 | n.a. |
| Either parent worked for pay in the past year | 2.4 | 2.0 | 3.4 | n.a. |
| Parents' earnings in the past year (\$) | 402 | 330 | 882 | 454 |
| Parents' earnings during the five calendar years after RA (\$) | 2,041 | n.a. | 6,730 | n.a. |
| Either parent received SSA payments in Year 5 after RA | -1.3 | n.a. | -3.2 | n.a. |
| Parents' total SSA payments received in Year 5 after RA (\$) | -101 | n.a. | -320 | n.a. |
| Parents' total SSA payments during the five years after RA (\$) | -346 | n.a. | -1,564 | n.a. |
| Parents' total income in the past year (\$) | 296 | 247 | 404 | 231 |
| Parents' income during the five calendar years after RA (\$) | 1,738 | n.a. | 5,073 | n.a. |
| Either parent is covered by health insurance | 0.9 | 0.9 | 2.6** | n.a. |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 0 | n.a. | 0 | n.a. |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the impact estimates of NYS PROMISE, using different modeling approaches. In the main model, we used covariate adjustment and, for outcomes derived from survey data, we weighted statistics to adjust for survey nonresponse and used multiple imputation when an outcome had a

missing value conditional on the value of another variable. In the model with "No weighting for non-response", we followed the main model but did not apply weights to adjust for non-response. In the model with "No covariate adjustment", we followed the main model but did not include covariates. For the model with "No multiple imputation", we followed the main model except that we excluded cases with outcomes that had a missing value conditional on the value of another variable.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

CMS = Centers for Medicare & Medicaid Services; GED = General Educational Development; N = sample size; n.a.= not applicable; RA = random assignment; SSA = Social Security Administration.

Appendix Table G.19. NYS PROMISE: Impact on primary outcomes measured using administrative data, including and excluding fiveyear survey nonrespondents (percentage, unless otherwise noted)

| | Admin | istrative ar samples | nalysis | Five-year | | | |
|--|-----------------|-------------------------|-----------------|-----------------|--------|-----------------|-----------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | <i>p</i> -value for difference |
| Youth earnings during the five calendar years after RA (\$) | 7,846 | 385 | 0.55 | 7,690 | 350 | 0.62 | 0.96 |
| Youth received SSA payments in Year 5 after RA | 67.8 | 1.8 | 0.36 | 70.1 | 0.3 | 0.90 | 0.46 |
| Youth total SSA payments in Year 5 after RA (\$) | 5,426 | -10 | 0.96 | 5,676 | -128 | 0.52 | 0.53 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 34,428 | -17 | 0.97 | 34,859 | -194 | 0.73 | 0.75 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,346 | -65** | 0.04 | 1,364 | -67* | 0.05 | 0.94 |
| Youth total income during the five calendar years after RA (\$) | 43,845 | 348 | 0.63 | 44,198 | 159 | 0.84 | 0.80 |
| Parents' earnings during the five calendar years after RA (\$) | 90,576 | 2,041 | 0.48 | 91,966 | 2,159 | 0.50 | 0.97 |
| Either parent received SSA payments in Year 5 after RA | 33.0 | -1.3 | 0.36 | 34.0 | -1.8 | 0.22 | 0.72 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,369 | -101 | 0.58 | 3,531 | -242 | 0.20 | 0.45 |
| Parents' total SSA payments during the five years after RA (\$) | 16,194 | -346 | 0.60 | 16,630 | -922 | 0.18 | 0.39 |
| Parents' total income during the five calendar years after RA (\$) | 108,303 | 1,738 | 0.54 | 110,281 | 1,221 | 0.69 | 0.86 |
| Parents' average monthly Medicaid and Medicare expenditures in years after RA in Years 1-5 after RA (\$) | 858 | 0 | 0.99 | 859 | 18 | 0.52 | 0.52 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of NYS PROMISE for administrative analysis samples and five-year survey respondents. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For the sample of five-year survey respondents, we weighted the statistics to adjust for survey nonresponse, applying youth weights for youths' outcomes and parent weights for parents' outcomes.

*/**/*** Impact estimate is significantly different from zero (p-value is less than .10/.05/.01) using a two-tailed t-test.

+/++/+++ Impact estimates for the two samples are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

CMS = Centers for Medicare & Medicaid Services; N = sample size; RA = random assignment. SSA = Social Security Administration.

3. Subgroup impact estimates

We estimated the five-year impacts for key subgroups of evaluation enrollees to understand whether the impacts of NYS PROMISE differed by enrollee characteristics. We focused on subgroups defined by the following baseline characteristics of youth: age (ages 14 and 15, and age 16); sex (females and males); whether a youth's parent received SSA payments at the time of RA (yes or no); primary impairment (intellectual or developmental disabilities, other mental impairments, and other disabilities); and whether the survey respondent completed the five-year survey before or after the onset of the COVID-19 pandemic (yes or no). Appendix Tables G.20–G.25 present the subgroup impact estimates.

Appendix Table G.20. NYS PROMISE: Impacts on primary outcomes, by youth's age (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | | | Age 14 and | d 15 | | | | Age 16 | | | <i>p</i> -value |
|---|-----------------|--------|-----------------|----------------------|--------------------|-----------------|--------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Youth enrolled in an educational or training program | 65.9 | -5.4** | 0.05 | 578 | 565 | 35.9 | -3.1 | 0.47 | 248 | 232 | 0.65 |
| Youth has a GED, high school diploma, or certificate of completion | 49.4 | -1.6 | 0.58 | 577 | 568 | 72.0 | 0.4 | 0.93 | 253 | 237 | 0.69 |
| Youth employed in a paid job in the past year | 31.2 | 3.7 | 0.18 | 592 | 576 | 36.5 | 5.8 | 0.19 | 255 | 239 | 0.68 |
| Youth earnings in the past year (\$) | 2,612 | 195 | 0.60 | 592 | 576 | 3,346 | 774 | 0.27 | 255 | 239 | 0.46 |
| Youth earnings during the five calendar years after RA (\$) | 6,370 | 326 | 0.62 | 691 | 673 | 11,072 | 445 | 0.76 | 295 | 308 | 0.94 |
| Youth self-determination score (scale: 0 to 100) | 77.8 | 0.3 | 0.73 | 346 | 344 | 78.3 | -1.8 | 0.29 | 143 | 143 | 0.27 |
| Youth expects to be financially independent at age 25 | 66.8 | 5.5 | 0.12 | 353 | 345 | 62.5 | 5.5 | 0.33 | 141 | 145 | 1.00 |
| Youth received SSA payments in Year 5 after RA | 71.3 | 0.4 | 0.87 | 691 | 673 | 60.1 | 5.0 | 0.18 | 295 | 308 | 0.28 |
| Youth total SSA payments in Year 5 after RA (\$) | 5,632 | -167 | 0.44 | 691 | 673 | 4,974 | 344 | 0.31 | 295 | 308 | 0.20 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 35,138 | -248 | 0.68 | 691 | 673 | 32,875 | 504 | 0.62 | 295 | 308 | 0.52 |
| Youth covered by any health insurance | 95.5 | -0.4 | 0.74 | 580 | 560 | 91.7 | 2.9 | 0.22 | 247 | 233 | 0.21 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,369 | -69* | 0.06 | 691 | 673 | 1,295 | -56 | 0.37 | 295 | 308 | 0.86 |
| Youth total income in the past year (\$) | 8,378 | -210 | 0.58 | 592 | 576 | 8,526 | 1,183* | 0.09 | 255 | 239 | 0.07† |
| Youth total income during the five calendar years after RA (\$) | 43,119 | -51 | 0.95 | 691 | 673 | 45,432 | 1,209 | 0.40 | 295 | 308 | 0.44 |

| | | | Age 14 and | d 15 | | | | Age 16 | | | <i>p</i> -value | |
|--|-----------------|--------|-----------------|----------------------|--------------------|-----------------|--------|-----------------|----------------------|--------------------|-------------------------------|--|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference | |
| Either parent worked for pay in the past year | 58.1 | 2.0 | 0.47 | 585 | 569 | 52.6 | 3.3 | 0.43 | 251 | 236 | 0.78 | |
| Parents' earnings in the past year (\$) | 16,144 | 515 | 0.66 | 585 | 569 | 16,096 | 137 | 0.94 | 252 | 236 | 0.86 | |
| Parents' earnings during the five calendar years after RA (\$) | 94,814 | 1,468 | 0.66 | 666 | 622 | 81,425 | 3,538 | 0.51 | 285 | 288 | 0.74 | |
| Either parent received SSA payments in Year 5 after RA | 31.8 | -1.6 | 0.30 | 666 | 622 | 35.4 | -0.4 | 0.87 | 285 | 288 | 0.69 | |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,338 | -223 | 0.31 | 666 | 622 | 3,437 | 173 | 0.58 | 285 | 288 | 0.29 | |
| Parents' total SSA payments during the five years after RA (\$) | 15,857 | -933 | 0.22 | 666 | 622 | 16,923 | 979 | 0.43 | 285 | 288 | 0.18 | |
| Parents' total income in the past year (\$) | 19,624 | 477 | 0.69 | 563 | 521 | 20,216 | -128 | 0.95 | 244 | 223 | 0.79 | |
| Parents' total income during the five calendar years after RA (\$) | 112,198 | 461 | 0.89 | 666 | 622 | 99,892 | 4,810 | 0.36 | 285 | 288 | 0.48 | |
| Either parent is covered by health insurance | 92.7 | 0.5 | 0.73 | 579 | 567 | 92.3 | 2.0 | 0.33 | 249 | 235 | 0.52 | |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 790 | 35 | 0.23 | 666 | 622 | 1,005 | -77 | 0.17 | 285 | 288 | 0.07† | |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of NYS PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

CMS = Centers for Medicare & Medicaid Services; GED = General Educational Development; N = sample size; RA = random assignment; SSA = Social Security Administration.

Appendix Table G.21. NYS PROMISE: Impacts on primary outcomes, by youth's sex (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | | | Male | | | | | | | | <i>p-</i> value |
|---|-----------------|--------|-----------------|----------------------|--------------------|-----------------|--------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p-</i> value | Treatment group N | Control group N | Control mean | Impact | <i>p-</i> value | Treatment group N | Control group N | for subgroup difference |
| Youth enrolled in an educational or training program | 57.1 | -4.7* | 0.09 | 569 | 524 | 57.0 | -4.7 | 0.23 | 257 | 273 | 0.99 |
| Youth has a GED, high school diploma, or certificate of completion | 53.1 | -1.0 | 0.74 | 574 | 530 | 61.8 | -1.1 | 0.79 | 256 | 275 | 0.97 |
| Youth employed in a paid job in the past year | 31.3 | 5.1* | 0.07 | 584 | 536 | 35.7 | 2.7 | 0.52 | 263 | 279 | 0.62 |
| Youth earnings in the past year (\$) | 2,673 | 406 | 0.32 | 584 | 536 | 3,125 | 294 | 0.62 | 263 | 279 | 0.87 |
| Youth earnings during the five calendar years after RA (\$) | 7,321 | 460 | 0.54 | 674 | 660 | 8,926 | 226 | 0.84 | 312 | 321 | 0.86 |
| Youth self-determination score (scale: 0 to 100) | 78.0 | -0.5 | 0.64 | 335 | 318 | 78.0 | 0.1 | 0.94 | 154 | 169 | 0.75 |
| Youth expects to be financially independent at age 25 | 67.6 | 3.5 | 0.35 | 337 | 318 | 61.7 | 9.5* | 0.07 | 157 | 172 | 0.34 |
| Youth received SSA payments in Year 5 after RA | 67.0 | 2.6 | 0.28 | 674 | 660 | 69.5 | 0.2 | 0.96 | 312 | 321 | 0.57 |
| Youth total SSA payments in Year 5 after RA (\$) | 5,370 | -12 | 0.96 | 674 | 660 | 5,539 | -6 | 0.98 | 312 | 321 | 0.99 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 33,955 | 210 | 0.74 | 674 | 660 | 35,400 | -500 | 0.58 | 312 | 321 | 0.52 |
| Youth covered by any health insurance | 93.2 | 0.3 | 0.84 | 566 | 522 | 96.7 | 1.1 | 0.43 | 261 | 271 | 0.71 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,315 | -64* | 0.08 | 674 | 660 | 1,410 | -67 | 0.27 | 312 | 321 | 0.97 |
| Youth income in the past year (\$) | 8,250 | 212 | 0.61 | 584 | 536 | 8,749 | 205 | 0.72 | 263 | 279 | 0.99 |
| Youth total income during the five calendar years after RA (\$) | 42,837 | 590 | 0.50 | 674 | 660 | 45,917 | -168 | 0.89 | 312 | 321 | 0.61 |
| Either parent worked for pay in the past year | 57.8 | 2.5 | 0.36 | 576 | 533 | 54.0 | 2.1 | 0.61 | 260 | 272 | 0.93 |

| | Male | | | | | | | Female | | | <i>p</i> -value |
|---|-----------------|--------|-----------------|----------------------|--------------------|-----------------|--------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Parents' earnings in the past year (\$) | 16,948 | 441 | 0.72 | 577 | 533 | 14,526 | 322 | 0.85 | 260 | 272 | 0.96 |
| Parents' earnings during the five calendar years after RA (\$) | 94,470 | 2,389 | 0.50 | 651 | 608 | 82,738 | 1,306 | 0.79 | 300 | 302 | 0.86 |
| Either parent received SSA payments in Year 5 after RA | 31.6 | -1.2 | 0.47 | 651 | 608 | 35.8 | -1.4 | 0.58 | 300 | 302 | 0.95 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,188 | -137 | 0.52 | 651 | 608 | 3,735 | -24 | 0.94 | 300 | 302 | 0.77 |
| Parents' total SSA payments during the five years after RA (\$) | 15,543 | -516 | 0.51 | 651 | 608 | 17,505 | 16 | 0.99 | 300 | 302 | 0.71 |
| Parents' income in the past year (\$) | 20,634 | 149 | 0.91 | 558 | 487 | 18,222 | 602 | 0.72 | 249 | 257 | 0.83 |
| Parents' income during the five calendar years after RA (\$) | 111,532 | 1,761 | 0.61 | 651 | 608 | 101,802 | 1,689 | 0.72 | 300 | 302 | 0.99 |
| Either parent is covered by health insurance | 92.9 | 0.4 | 0.76 | 569 | 532 | 92.0 | 2.0 | 0.29 | 259 | 270 | 0.49 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 855 | -20 | 0.53 | 651 | 608 | 864 | 42 | 0.39 | 300 | 302 | 0.28 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of NYS PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table G.22. NYS PROMISE: Impacts on primary outcomes, by whether parent received SSA payments before RA (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Ν | lo parent r | eceived S | SA payment | s | At leas | st one par | ent receiv | ed SSA pay | ments | <i>p</i> -value |
|---|-----------------|-------------|-----------------|----------------------|--------------------|-----------------|------------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p-</i> value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Youth enrolled in an educational or training program | 61.0 | -4.3 | 0.11 | 586 | 524 | 43.4 | -4.4 | 0.35 | 210 | 213 | 0.99 |
| Youth has a GED, high school diploma, or certificate of completion | 54.7 | -3.2 | 0.28 | 596 | 531 | 59.9 | 4.0 | 0.40 | 208 | 217 | 0.19 |
| Youth employed in a paid job in the past year | 32.0 | 4.6* | 0.10 | 604 | 535 | 34.9 | 4.6 | 0.32 | 213 | 220 | 1.00 |
| Youth earnings in the past year (\$) | 2,950 | -31 | 0.94 | 604 | 535 | 2,772 | 992 | 0.15 | 213 | 220 | 0.20 |
| Youth earnings during the five calendar years after RA (\$) | 7,675 | -143 | 0.84 | 698 | 646 | 8,714 | 595 | 0.66 | 253 | 264 | 0.63 |
| Youth self-determination score (scale: 0 to 100) | 78.4 | 0.2 | 0.81 | 338 | 297 | 77.6 | -0.5 | 0.76 | 132 | 153 | 0.69 |
| Youth expects to be financially independent at age 25 | 65.4 | 5.6 | 0.14 | 345 | 297 | 65.4 | 4.3 | 0.43 | 133 | 156 | 0.84 |
| Youth received SSA payments in Year 5 after RA | 66.3 | 3.3 | 0.17 | 698 | 646 | 70.8 | -2.7 | 0.50 | 253 | 264 | 0.20 |
| Youth total SSA payments in Year 5 after RA (\$) | 5,220 | 55 | 0.80 | 698 | 646 | 5,737 | -233 | 0.53 | 253 | 264 | 0.50 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 33,279 | 7 | 0.99 | 698 | 646 | 36,366 | -107 | 0.92 | 253 | 264 | 0.92 |
| Youth covered by any health insurance | 95.1 | 0.5 | 0.68 | 588 | 522 | 92.5 | 0.1 | 0.98 | 210 | 211 | 0.87 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,365 | -55 | 0.16 | 698 | 646 | 1,281 | -92 | 0.11 | 253 | 264 | 0.59 |
| Youth income in the past year (\$) | 8,357 | -116 | 0.77 | 604 | 535 | 8,613 | 607 | 0.39 | 213 | 220 | 0.37 |
| Youth total income during the five calendar years after RA (\$) | 42,552 | -186 | 0.83 | 698 | 646 | 46,343 | 621 | 0.66 | 253 | 264 | 0.62 |
| Either parent worked for pay in the past year | 68.2 | 1.5 | 0.58 | 601 | 531 | 23.6 | 7.5* | 0.09 | 205 | 213 | 0.25 |

| | N | lo parent r | eceived S | SA payment | s | At leas | st one par | ent receiv | ed SSA pay | ments | <i>p-</i> value |
|--|-----------------|-------------|-----------------|----------------------|--------------------|-----------------|------------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p-</i> value | Treatment group N | Control group N | Control mean | Impact | <i>p-</i> value | Treatment group N | Control group N | for subgroup difference |
| Parents' earnings in the past year (\$) | 20,543 | 147 | 0.91 | 602 | 531 | 5,382 | 1,902 | 0.20 | 205 | 213 | 0.37 |
| Parents' earnings during the five calendar years after RA (\$) | 113,654 | 1,627 | 0.66 | 698 | 646 | 34,106 | 3,118 | 0.41 | 253 | 264 | 0.78 |
| Either parent received SSA payments in Year 5 after RA | 10.4 | -2.4 | 0.12 | 698 | 646 | 88.3 | 1.8 | 0.52 | 253 | 264 | 0.18 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 1,072 | -144 | 0.46 | 698 | 646 | 8,990 | 11 | 0.98 | 253 | 264 | 0.73 |
| Parents' total SSA payments during the five years after RA (\$) | 3,524 | -563 | 0.38 | 698 | 646 | 47,197 | 229 | 0.89 | 253 | 264 | 0.65 |
| Parents' income in the past year (\$) | 21,694 | -10 | 0.99 | 602 | 531 | 15,059 | 1,228 | 0.38 | 205 | 213 | 0.52 |
| Parents' income during the five calendar years after RA (\$) | 117,986 | 1,146 | 0.75 | 698 | 646 | 84,610 | 3,287 | 0.39 | 253 | 264 | 0.68 |
| Either parent is covered by health insurance | 94.2 | 2.0 | 0.12 | 595 | 530 | 98.6 | -2.6 | 0.11 | 203 | 212 | 0.02†† |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 586 | -24 | 0.31 | 698 | 646 | 1,523 | 62 | 0.40 | 253 | 264 | 0.26 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of NYS PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table G.23. NYS PROMISE: Impacts on primary outcomes, by youth's primary impairment (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | | itellectual mental dis | | Other m | ental impa | airments | Othe | nents | <i>p</i> -value for | |
|---|--------------|---------------------------|-----------------|--------------|------------|-----------------|-----------------|--------|---------------------|------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | subgroup difference |
| Youth enrolled in an educational or training program | 62.5 | -6.4** | 0.03 | 37.7 | -3.1 | 0.52 | 66.2 | -1.5 | 0.78 | 0.68 |
| Youth has a GED, high school diploma, or certificate of completion | 53.4 | 2.3 | 0.47 | 60.4 | -4.8 | 0.33 | 59.1 | -7.1 | 0.21 | 0.24 |
| Youth employed in a paid job in the past year | 28.8 | 4.8 | 0.11 | 47.4 | 2.3 | 0.65 | 25.4 | 5.8 | 0.27 | 0.87 |
| Youth earnings in the past year (\$) | 2,075 | 803** | 0.04 | 5,058 | -907 | 0.27 | 2,225 | 755 | 0.33 | 0.16 |
| Youth earnings during the five calendar years after RA (\$) | 5,990 | 1,474* | 0.06 | 12,266 | -2,158 | 0.11 | 7,638 | 534 | 0.76 | 0.07† |
| Youth self-determination score (scale: 0 to 100) | 77.6 | -1.5 | 0.23 | 77.5 | 2.0 | 0.19 | 80.3 | -0.4 | 0.83 | 0.19 |
| Youth expects to be financially independent at age 25 | 61.9 | 5.5 | 0.19 | 70.9 | 7.3 | 0.16 | 68.3 | 0.9 | 0.90 | 0.79 |
| Youth received SSA payments in Year 5 after RA | 75.7 | -1.1 | 0.66 | 47.2 | 2.8 | 0.51 | 71.4 | 10.0** | 0.02 | 0.09† |
| Youth total SSA payments in Year 5 after RA (\$) | 6,175 | -379 | 0.11 | 3,396 | 272 | 0.46 | 5,867 | 797* | 0.06 | 0.04†† |
| Youth total SSA payments during Years 1–5 after RA (\$) | 36,333 | -887 | 0.19 | 29,786 | 846 | 0.45 | 34,795 | 1,578 | 0.17 | 0.12 |
| Youth covered by any health insurance | 94.3 | 1.9 | 0.17 | 91.9 | -1.2 | 0.67 | 97.9 | -1.7 | 0.42 | 0.28 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,398 | -92** | 0.03 | 1,037 | 23 | 0.64 | 1,623 | -97 | 0.29 | 0.17 |
| Youth income in the past year (\$) | 8,353 | 349 | 0.39 | 8,646 | -980 | 0.23 | 8,335 | 1,433* | 0.06 | 0.10 |
| Youth total income during the five calendar years after RA (\$) | 44,349 | 299 | 0.73 | 42,394 | -1,200 | 0.45 | 44,269 | 2,761 | 0.13 | 0.25 |
| Either parent worked for pay in the past year | 55.2 | 4.6 | 0.12 | 54.9 | 2.7 | 0.55 | 63.2 | -5.6 | 0.31 | 0.25 |

| | Intellectual or developmental disabilities | | | Other mental impairments | | | Other impairments | | | <i>p</i> -value for |
|--|--|--------|-----------------|--------------------------|--------|-----------------|-------------------|--------|-----------------|-----------------------------|
| Outcome | Control mean | Impact | <i>p-</i> value | Control mean | Impact | <i>p-</i> value | Control mean | Impact | <i>p</i> -value | , subgroup difference |
| Parents' earnings in the past year (\$) | 16,546 | 403 | 0.77 | 15,076 | 295 | 0.87 | 16,194 | 548 | 0.82 | 1.00 |
| Parents' earnings during the five calendar years after RA (\$) | 87,344 | 1,898 | 0.63 | 87,238 | 2,463 | 0.62 | 106,610 | 2,112 | 0.78 | 1.00 |
| Either parent received SSA payments in Year 5 after RA | 33.5 | -0.7 | 0.71 | 36.0 | -2.3 | 0.38 | 26.6 | -1.9 | 0.60 | 0.87 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,423 | -45 | 0.85 | 3,611 | -288 | 0.36 | 2,817 | -5 | 0.99 | 0.80 |
| Parents' total SSA payments during the five years after RA (\$) | 16,748 | -42 | 0.96 | 17,507 | -805 | 0.52 | 12,296 | -667 | 0.68 | 0.86 |
| Parents' income in the past year (\$) | 20,316 | 312 | 0.82 | 19,480 | -516 | 0.78 | 18,557 | 1,476 | 0.54 | 0.80 |
| Parents' income during the five calendar years after RA (\$) | 105,659 | 2,092 | 0.59 | 106,244 | 1,357 | 0.78 | 120,377 | 1,380 | 0.85 | 0.99 |
| Either parent is covered by health insurance | 92.2 | 2.8** | 0.04 | 95.8 | -3.3 | 0.14 | 89.1 | 0.7 | 0.84 | 0.06† |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 859 | -13 | 0.70 | 855 | 24 | 0.61 | 859 | -5 | 0.95 | 0.81 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of NYS PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table G.24. NYS PROMISE: Sample sizes for primary outcomes, by youth's primary impairment

| | • • | - | | • • | | | |
|---|--|--------------------|----------------------|--------------------|--------------------|----------------------|--|
| | Intellectual or developmental disabilities | | Other menta | l impairments | Other impairments | | |
| Outcome | Treatment group N | Control group N | Treatment group N | Control group N | Control group N | Treatment group N | |
| Youth enrolled in an educational or training program | 478 | 464 | 204 | 190 | 144 | 143 | |
| Youth has a GED, high school diploma, or certificate of completion | 477 | 470 | 210 | 193 | 143 | 142 | |
| Youth employed in a paid job in the past year | 490 | 476 | 210 | 194 | 147 | 145 | |
| Youth earnings in the past year (\$) | 490 | 476 | 210 | 194 | 147 | 145 | |
| Youth earnings during the five calendar years after RA (\$) | 566 | 567 | 258 | 246 | 162 | 168 | |
| Youth self-determination score (scale: 0 to 100) | 270 | 269 | 148 | 144 | 71 | 74 | |
| Youth expects to be financially independent at age 25 | 272 | 270 | 153 | 145 | 69 | 75 | |
| Youth received SSA payments in Year 5 after RA | 566 | 567 | 258 | 246 | 162 | 168 | |
| Youth total SSA payments in Year 5 after RA (\$) | 566 | 567 | 258 | 246 | 162 | 168 | |
| Youth total SSA payments during Years 1–5 after RA (\$) | 566 | 567 | 258 | 246 | 162 | 168 | |
| Youth covered by any health insurance | 482 | 466 | 199 | 184 | 146 | 143 | |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 566 | 567 | 258 | 246 | 162 | 168 | |
| Youth income in the past year (\$) | 490 | 476 | 210 | 194 | 147 | 145 | |
| Youth total income during the five calendar years after RA (\$) | 566 | 567 | 258 | 246 | 162 | 168 | |
| Either parent worked for pay in the past year | 478 | 471 | 211 | 191 | 147 | 143 | |
| Parents' earnings in the past year (\$) | 479 | 471 | 211 | 191 | 147 | 143 | |
| Parents' earnings during the five calendar years after RA (\$) | 540 | 517 | 257 | 239 | 154 | 154 | |
| Either parent received SSA payments in Year 5 after RA | 540 | 517 | 257 | 239 | 154 | 154 | |

| | | developmental bilities | Other menta | l impairments | Other impairments | | |
|---|----------------------|---------------------------|----------------------|--------------------|--------------------|----------------------|--|
| Outcome | Treatment group N | Control group N | Treatment group N | Control group N | Control group N | Treatment group N | |
| Parents' total SSA payments received in Year 5 after RA (\$) | 540 | 517 | 257 | 239 | 154 | 154 | |
| Parents' total SSA payments during the five years after RA (\$) | 540 | 517 | 257 | 239 | 154 | 154 | |
| Parents' income in the past year (\$) | 457 | 427 | 211 | 186 | 139 | 131 | |
| Parents' income during the five calendar years after RA (\$) | 540 | 517 | 257 | 239 | 154 | 154 | |
| Either parent is covered by health insurance | 477 | 468 | 206 | 191 | 145 | 143 | |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 540 | 517 | 257 | 239 | 154 | 154 | |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the sample size by subgroup for the estimates reported in Appendix Table G.23.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table G.25. NYS PROMISE: Impacts on primary outcomes, by whether the survey respondent completed the five-year survey before or during the pandemic (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Before pandemic | | | | | During pandemic | | | | | <i>p</i> -value |
|--|-----------------|--------|-----------------|----------------------|--------------------|-----------------|--------|-----------------|----------------------|-----------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Youth enrolled in an educational or training program | 85.5 | -15.2 | 0.18 | 26 | 27 | 56.1 | -4.1* | 0.08 | 798 | 767 | 0.33 |
| Youth has a GED, high school diploma, or certificate of completion | 30.1 | 4.8 | 0.71 | 25 | 27 | 56.9 | -1.3 | 0.60 | 803 | 775 | 0.64 |
| Youth employed in a paid job in the past year | 18.2 | 20.1* | 0.09 | 26 | 27 | 33.1 | 4.0* | 0.09 | 819 | 785 | 0.18 |
| Youth earnings in the past year (\$) | 1,375 | 126 | 0.90 | 26 | 27 | 2,865 | 392 | 0.26 | 819 | 785 | 0.81 |
| Youth self-determination score (scale: 0 to 100) | 78.3 | 1.6 | 0.72 | 14 | 10 | 78.0 | -0.4 | 0.69 | 475 | 477 | 0.66 |
| Youth expects to be financially independent at age 25 | 61.3 | 21.4 | 0.21 | 14 | 10 | 65.6 | 5.0 | 0.10 | 480 | 480 | 0.34 |
| Youth covered by any health insurance | 96.4 | 0.6 | 0.90 | 25 | 26 | 94.3 | 0.6 | 0.62 | 802 | 767 | 0.99 |
| Youth income in the past year (\$) | 9,088 | 784 | 0.52 | 26 | 27 | 8,405 | 197 | 0.57 | 819 | 785 | 0.64 |
| Either parent worked for pay in the past year | 51.5 | 21.2* | 0.06 | 28 | 33 | 56.7 | 1.7 | 0.48 | 808 | 772 | 0.09† |
| Parents' earnings in the past year (\$) | 13,267 | 4,912 | 0.22 | 28 | 33 | 16,247 | 225 | 0.83 | 809 | 772 | 0.25 |
| Parents' income in the past year (\$) | 14,965 | 5,757 | 0.15 | 27 | 31 | 20,004 | 79 | 0.94 | 780 | 713 | 0.17 |
| Either parent is covered by health insurance | 88.4 | 2.8 | 0.67 | 28 | 33 | 92.7 | 0.8 | 0.47 | 800 | 769 | 0.77 |

Source: PROMISE five-year surveys.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of NYS PROMISE on outcomes derived from survey data. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. We weighted statistics to adjust for survey nonresponse. We defined before the pandemic as before March 13, 2020.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Impact estimates for subgroups are significantly different from each other (p-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size.

C. Findings from the benefit-cost analysis

In this section, we present findings from the benefit-cost analysis of NYS PROMISE. First, we present benefits and costs estimated through the main model. Second, we present the results of sensitivity analyses. Third, we present the projected accrual of net benefits beyond the five-year evaluation period.

1. Benefit-cost estimates

Appendix Table G.26 provides estimates of the program's benefits and indirect costs, the costs of program components, and benefit-cost statistics estimated using the main model as described in Appendix B.

| | | Fe | ederal govern | ment | State and local | |
|---|---|------------|---------------|---|--|--|
| Benefit or cost measure | PROMISE youth and families (A) | SSA (B) | ED (C) | Federal government as a whole ^a (D) | government, including PROMISE partners (E) | All key stakeholders (F = A + D + E) |
| Panel 1: Quantitative outcome measures | | | | | | |
| Youth outcomes | | | | | | |
| Earnings | 398 | 0 | 0 | 0 | 0 | 398 |
| Fringe benefits | 101 | 0 | 0 | 0 | 0 | 101 |
| Income, payroll, and sales taxes | -77 | 49 | 0 | 63 | 13 | 0 |
| Work-related and child care costs | -47 | 0 | 0 | 0 | 0 | -47 |
| SSI benefits | 140 | -140 | 0 | -140 | 0 | 0 |
| OASDI benefits | -165 | 165 | 0 | 165 | 0 | 0 |
| SSI administrative costs | 0 | -11 | 0 | -11 | 0 | -11 |
| SSDI administrative costs | 0 | 3 | 0 | 3 | 0 | 3 |
| Medicaid and Medicare expenditures and administrative costs | -4,039 | 0 | 0 | 2,604 | 1,778 | 343 |
| Education-related costs | 52 | 0 | 0 | 0 | 0 | 52 |
| Incarceration | 0 | 0 | 0 | 0 | -804 | -804 |
| Parent outcomes | | | | | | |
| Earnings | 2,148 | 0 | 0 | 0 | 0 | 2,148 |
| Fringe benefits | 544 | 0 | 0 | 0 | 0 | 544 |
| Income, payroll, and sales taxes | -418 | 266 | 0 | 341 | 77 | 0 |
| Work-related and child care costs | -372 | 0 | 0 | 0 | 0 | -372 |
| SSI benefits | -61 | 61 | 0 | 61 | 0 | 0 |
| OASDI benefits | -300 | 300 | 0 | 300 | 0 | 0 |
| SSI administrative costs | 0 | 5 | 0 | 5 | 0 | 5 |
| SSDI administrative costs | 0 | 6 | 0 | 6 | 0 | 6 |
| Medicaid and Medicare expenditures and administrative costs | 12 | 0 | 0 | -1,305 | 1,291 | -1 |

Appendix Table G.26. NYS PROMISE: Benefits and costs (\$) over the five-year evaluation time period, by accounting perspective

| | | F | ederal govern | ment | State and local | |
|--|---|------------|---------------|---|--|--|
| Benefit or cost measure | PROMISE youth and families (A) | SSA (B) | ED (C) | Federal government as a whole ^a (D) | government, including PROMISE partners (E) | All key stakeholders (F = A + D + E) |
| Household outcomes | | | | | | |
| TANF, SNAP, housing assistance, and related administrative costs | 1,037 | 0 | 0 | -1,080 | 0 | -43 |
| Total | -1,047 | 704 | 0 | 1,013 | 2,356 | 2,322 |
| Panel 2: Costs of program components | | | | | | |
| Program administration | 0 | 0 | -11,775 | -11,775 | -153 | -11,928 |
| Employment services | 0 | 0 | -2,842 | -2,842 | -58 | -2,901 |
| Education services | 0 | 0 | -548 | -548 | -16 | -564 |
| Case management services | 0 | 0 | -8,478 | -8,478 | -425 | -8,903 |
| Financial and benefits counseling | 0 | 0 | -49 | -49 | -2 | -51 |
| Parent training and information services | 0 | 0 | -4,339 | -4,339 | -38 | -4,377 |
| Youth self-determination services | 0 | 0 | -249 | -249 | -17 | -266 |
| Total | 0 | 0 | -28,280 | -28,280 | -709 | -28,989 |
| Panel 3: Benefit-cost statistics | | | | | | |
| Net benefits (benefits minus costs) | -1,047 | 704 | -28,280 | -27,267 | 1,647 | -26,666 |
| Net benefit ratio ^b | n.a. | n.a. | 0 | 0.04 | 3.32 | 0.08 |

Source: See Appendix Table B.4 for details on the sources and imputation methods for each benefit or cost component.

Note: To construct each component of the benefit-cost analysis, we used the estimated impacts on key outcomes (regardless of whether they were statistically significant), or imputation methods that combined the impact estimates with data from external sources. To construct program costs, we used data from program administrative records, financial documents, staff activity logs, and staff interviews. All benefits and costs are dollars per treatment group family over five years and are inflation-adjusted to 2020 dollars and discounted to 2020 present value.

^a The perspective of the federal government as a whole incorporates the perspectives of SSA, ED, and other federal agencies that might experience benefits or costs because of PROMISE.

^b Calculated for all key stakeholders as the sum of all quantitative measures in Panel 1, which include benefits and indirect costs, divided by the program costs.

ED = U.S. Department of Education; SNAP = Supplemental Nutrition Assistance Program; SSA = Social Security Administration; SSDI = Social Security Disability Insurance; SSI = Supplemental Security Income; TANF = Temporary Assistance for Needy Families.

2. Sensitivity analyses

As noted in Appendix B, we conducted three analyses to assess the sensitivity of the benefit-cost estimates to changes in the underlying assumptions and methodological choices. First, we sampled with replacement from the study population 1,000 times to create 1,000 random samples with an equal size as the true sample. For each sample, we calculated the net benefit for each accounting perspective. In Appendix Table G.27, we show the sampling distribution of the net benefit estimates from the perspective of the different stakeholders. The estimated net benefits for all key stakeholders were negative across the entire distribution, suggesting that the main conclusion (that NYS PROMISE did not generate net benefit estimate for all key stakeholders) is robust to sampling variability. The confidence interval on the net benefit estimate for all key stakeholders (-\$26,666) ranged from -\$33,402 to -\$20,002.

Second, we recalculated the net benefits using only the impact estimates that were significant at the 10 percent level (Appendix Table G.28). From the perspective of all stakeholders, the net benefit was within 8 percent of the estimate from the main analysis and continued to be negative and sizeable.

Appendix Table G.28 shows whether the benefit-cost results were sensitive to the assumptions we used to estimate some of the individual components. From the perspective of all key stakeholders, net benefits under the alternative assumptions were always within 5 percent of the net benefits estimated under the main analysis, and net benefits were sizeable and negative under each scenario. For the most part, net benefits were not sensitive to alterative assumptions. There were exceptions for particular stakeholders, For example, the net benefits for NYS PROMISE youth and families fell from -\$1,047 in our main mode to -\$1,775 when we used only statistically significant estimates; these results were sensitive because both youth and families had earnings estimates that were not statistically significant. Also, the net benefits for state and local governments changed from \$1,647 in our main model to \$564 when assuming higher incarceration costs.

| | | | Federal governm | State and local | | |
|-------------------|-------------------------------|--------|-----------------|--------------------------------------|---|-------------------------|
| | PROMISE youth and families | SSA | ED | Federal government as a wholeª | government, including PROMISE partners | All key stakeholders |
| Original estimate | -1,047 | 704 | -28,280 | -27,267 | 1,647 | -26,666 |
| Min | -14,763 | -4,125 | -28,395 | -37,537 | -2,401 | -37,525 |
| 2.5th percentile | -8,309 | -1,506 | -28,365 | -33,525 | -1,092 | -33,402 |
| 25th percentile | -3,315 | -124 | -28,308 | -29,370 | 696 | -29,044 |
| 50th percentile | -1,008 | 582 | -28,278 | -27,441 | 1,614 | -26,763 |
| 75th percentile | 1,526 | 1,331 | -28,249 | -25,358 | 2,513 | -24,326 |
| 97.5th percentile | 6,397 | 2,817 | -28,196 | -21,453 | 4,472 | -20,002 |
| Max | 11,973 | 4,509 | -28,161 | -18,466 | 6,716 | -15,447 |

Appendix Table G.27. NYS PROMISE: Sensitivity of net benefits to sampling variability

Source: See Appendix Table B.4 for details on the sources and methods for the net-benefit calculation.

Note: We quantified uncertainty in the estimated net benefits by constructing non-parametric bootstrap confidence intervals. We sampled with replacement from the study population 1,000 times and then re-estimated all cost and benefit parameters for these 1,000 random samples. We then calculated the net benefits for each bootstrap sample. The 2.5th percentile and 97.5th percentile of the resulting values represent the 95 percent confidence interval of the net benefit estimate.

| Assumption | | F | ederal governr | State and local | | |
|---|--------------------------------------|------------|----------------|---|--|--|
| | PROMISE youth and families (A) | SSA (B) | ED (C) | Federal government as a whole ^a (D) | government, including PROMISE partners (E) | All key stakeholders (F = A + D + E) |
| Assumption change | | | | | | |
| Main benefit-cost analysis model | -1,047 | 704 | -28,280 | -27,267 | 1,647 | -26,666 |
| Excluded fringe benefits | -1,691 | 704 | -28,280 | -27,267 | 1,647 | -27,311 |
| Excluded education tuition costs | -1,083 | 704 | -28,280 | -27,267 | 1,647 | -26,703 |
| Used higher incarceration costs ^b | -1,047 | 704 | -28,280 | -27,267 | 564 | -27,750 |
| Used a fixed work-related cost measure (non-child care) ^c | -1,660 | 704 | -28,280 | -27,267 | 1,647 | -27,280 |
| Used a low discount rate ^d | -1,034 | 666 | -28,280 | -27,298 | 1,525 | -26,807 |
| Used a high discount rate ^d | -1,056 | 739 | -28,280 | -27,239 | 1,756 | -26,539 |
| Used only statistically significant estimates in the calculation ^e | -1,775 | 0 | -28,237 | -28,029 | 1,021 | -28,784 |

Appendix Table G.28. NYS PROMISE: Sensitivity of net benefits to different assumptions in the benefit cost analysis

Source: See Appendix Table B.4 for details on the sources and methods for the net-benefit calculation.

Note: The inputs for the benefit-cost analysis are based on (1) program costs drawn from program administrative records, financial documents, staff activity logs and staff interviews (2) the estimated impacts on key outcomes (regardless of whether they were statistically significant), or (3) imputation methods that combined the impact estimates with data from external sources. All benefits and costs are dollars per treatment group family over five years and are inflation-adjusted to 2020 dollars and discounted to 2020 present value.

^a The perspective of the federal government as a whole incorporates the perspectives of SSA, ED, and other federal agencies that might experience benefits or costs because of PROMISE.

^b We changed incarceration costs from the national average (\$97/day) to the highest state-specific cost (California, \$228/day).

[°] We changed work-related costs from a multiplier of 10.6% to a fixed cost of \$51 dollars per week.

^d The low discount rate is 1 percent, and the high discount rate is 5 percent.

^e This sensitivity analysis assigns a value of zero to impact estimates to impacts estimates that were not were significant at the .10 level. (The main analysis and all other sensitivity tests include impact estimates regardless of whether they were statistically significant).

ED = U.S. Department of Education; SSA = Social Security Administration.

3. Long-term forecast

As described in Appendix B, we projected the accrual of net benefits over 10 and 20 years after RA to assess how costs and benefits may change after the five-year evaluation period (Appendix Table G.29). Because NYS PROMISE caused a small and nonsignificant decrease in youth's years of education (-0.04 years), the scenario assuming "no returns" to education generates the highest net benefit estimate and the scenario assuming "high returns" to education generates the lowest estimate. Across all scenarios, the forecasted net benefits 10 and 20 years after RA are higher than the net benefits estimated at five years after RA. This is because treatment group youth had higher earnings that control group youth in the fourth and fifth years after RA, an advantage that gets compounded in the forecast as earnings grow by an annual percentage over time.

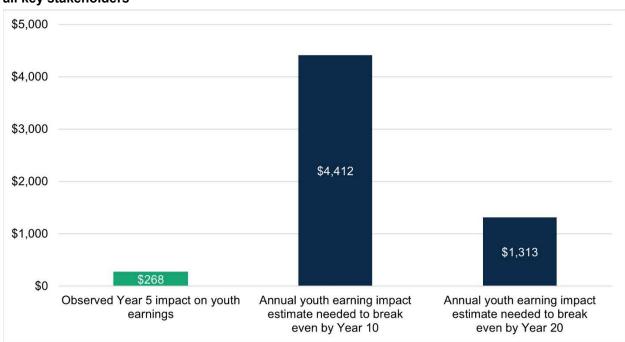
We also calculated how large the impact on youth earnings would have to be, assuming all other impacts were the same as in the five-year analysis, for NYS PROMISE's benefits to equal the costs in 10 and 20 years after RA (Appendix Figure G.1). The program would need to generate an average annual impact on youth earnings of \$4,412 per year to be cost neutral 10 years after RA and \$1,313 per year to be cost neutral by 20 years after RA. It is probably unlikely to generate impacts of these sizes because the point estimate of its impact on youth earnings in the fifth year after RA was \$268.

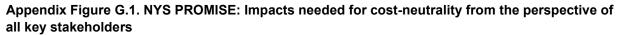
| Appendix Table G.29. NYS PROMISE: Net benefits (\$) to all stakeholders forecast over 10 and 20 years after RA, under different |
|---|
| assumptions about the returns to education and using the upper and lower bound of the earnings impact |

| | | F | ederal governme | ent | State and local | |
|--------------------------------------|---|------------|-----------------|---|---|---|
| Assumption | PROMISE youth and families (A) | SSA (B) | ED (C) | Federal government as a whole ^a (D) | government, including PROMISE partners (E) | All key stakeholders (F = A + D + E) |
| 10-year forecast | | | | | | |
| Returns to education | | | | | | |
| Persistent high return to education | -3,129 | 1,856 | -28,280 | -25,511 | 5,490 | -23,149 |
| Diminishing return to education | -3,096 | 1,867 | -28,280 | -25,498 | 5,492 | -23,102 |
| No return to education | -3,075 | 1,874 | -28,280 | -25,490 | 5,493 | -23,073 |
| Confidence interval bounds | | | • | | | |
| Using upper bound of earnings impact | 837 | 2,875 | -28,280 | -24,330 | 5,645 | -17,848 |
| Using lower bound of earnings impact | -5,622 | 1,375 | -28,280 | -26,089 | 5,398 | -26,313 |
| 20-year forecast | | | | | | |
| Returns to education | | | | | | |
| Persistent high return to education | -6,660 | 4,195 | -28,280 | -22,164 | 11,813 | -17,010 |
| Diminishing return to education | -6,502 | 4,246 | -28,280 | -22,106 | 11,820 | -16,788 |
| No return to education | -6,482 | 4,253 | -28,280 | -22,098 | 11,821 | -16,759 |
| Confidence interval bounds | | | | | | |
| Using upper bound of earnings impact | 6,206 | 7,647 | -28,280 | -18,180 | 12,318 | 344 |
| Using lower bound of earnings impact | -15,203 | 3,041 | -28,280 | -23,637 | 11,511 | -27,329 |

Source: See Appendix Table B.4 for details on the sources and methods for the net-benefit calculation.

Note: To construct each component of the benefit-cost analysis, we used either (1) the impact estimates themselves (regardless of whether they were statistically significant), or (2) imputation methods to combine the impact estimates with data from external sources. To construct program costs, we used data from program administrative records, financial documents, staff activity logs, and staff interviews. All benefits and costs are dollars per treatment group family and are inflation-adjusted to 2020 dollars and discounted to 2020 present value. The 10-year and 20-year projections are based on costs observed from the five-year evaluation period and a forecasting scenario for the five and fifteen following years, respectively, assuming that earnings grow over time. Additionally, the persistent high return to education forecasting scenario assumes a return to education of 10 percent per additional year of schooling; the diminishing returns to education scenario assumes the returns to education are 10 percent in Year 6 and then diminish over time to zero percent in Year 10; and the no return to education scenario assumes no increase over time in the return to education.





Note: The first bar shows the estimated impact on youth earnings in Year 5 after RA. The second bar shows the impact on youth earnings needed every year between Years 6 and 10 after RA for the program to be cost neutral 10 years after RA, assuming other benefits and costs are held constant between Years 6 and 10 after RA. The third bar shows the impact on youth earnings needed every year between Years 6 and 20 after RA for the program to be cost neutral 20 years after RA, assuming other benefits and costs are held constant between Years 6 and 20 after RA for the program to be cost neutral 20 years after RA, assuming other benefits and costs are held constant between Years 6 and 20 after RA for the program to be cost neutral 20 years after RA, assuming other benefits and costs are held constant between Years 6 and 20 after RA. All values are per treatment group family, inflation-adjusted to 2020 dollars, and discounted to 2020 present value.

NYS = New York State; RA = random assignment.

Appendix H. WI PROMISE Impacts, Benefits, and Costs

A. Enrollees and analysis samples

The full research sample for the evaluation of WI PROMISE consists of the 1,896 youth who enrolled in the evaluation and were randomly assigned, as well as their families. To assess the extent to which the findings might reflect the baseline characteristics of various samples, we compared differences between (1) the treatment and control groups, (2) survey respondents and nonrespondents, and (3) self-reporting and proxy youth respondents.

1. Differences between the treatment and control groups

We compared 25 baseline characteristics of the treatment and control groups for four samples: all youth survey respondents, all parent survey respondents, all enrollees, and all proxy youth respondents (Appendix Tables H.1–H.4). The similarity of samples across the characteristics examined suggest that RA created treatment and control groups that were equivalent in their baseline characteristics. Although we found statistically significant differences for a few characteristics, they are not concerning for two reasons. First, with a significance level of 10 percent, we expect to reject the null hypothesis that the groups were equivalent for 1 out of every 10 characteristics by chance alone, even when the two groups in fact had no underlying differences. Second, we included characteristics that were significantly different at baseline as covariates in our regression-adjusted impact analyses, allowing us to control for the observed differences.

Appendix Table H.1. WI PROMISE: Baseline characteristics of youth survey respondents (percentages, unless otherwise noted)

| | All | Treatment | Control | Difference | |
|--|------|-----------|---------|------------|-----------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | <i>p</i> -value |
| Demographic characteristics | | | | | |
| Youth is female | 33.3 | 32.4 | 34.2 | -1.8 | 0.46 |
| Youth age at RA | | | | | 0.81 |
| 14 | 40.0 | 40.0 | 39.9 | 0.0 | |
| 15 | 26.3 | 26.9 | 25.6 | 1.3 | |
| 16 | 33.8 | 33.1 | 34.4 | -1.3 | |
| Average age at RA | 15.4 | 15.4 | 15.4 | -0.0 | 0.72 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 95.4 | 94.7 | 96.0 | -1.3 | 0.24 |
| Prefers English for spoken language | 95.2 | 94.6 | 95.8 | -1.2 | 0.29 |
| Youth living arrangement at SSI application | | | | | 0.32 |
| In parents' household | 88.1 | 87.8 | 88.5 | -0.7 | |
| Own household or alone | 11.1 | 11.2 | 11.1 | 0.1 | |
| Another household and receiving support | 0.7 | 1.1 | 0.4 | 0.7 | |
| Youth race and ethnicity | | | | | 0.51 |
| Non-Hispanic White | 25.0 | 25.7 | 24.3 | 1.4 | |
| Non-Hispanic Black | 32.3 | 31.8 | 32.7 | -0.9 | |
| Hispanic | 11.1 | 12.1 | 10.1 | 2.0 | |
| Non-Hispanic American Indian | 1.8 | 1.6 | 2.0 | -0.3 | |
| Non-Hispanic other or mixed race | 6.7 | 5.8 | 7.7 | -1.9 | |
| Missing | 23.0 | 23.0 | 23.1 | -0.2 | |
| Enrolling parent age at RA | 41.4 | 41.4 | 41.4 | 0.0 | 0.95 |
| Parent race and ethnicity | | | | † | 0.05 |
| Non-Hispanic White | 34.0 | 34.8 | 33.1 | 1.7 | |
| Non-Hispanic Black | 33.6 | 34.3 | 32.9 | 1.4 | |
| Hispanic | 8.4 | 9.1 | 7.7 | 1.4 | |
| Non-Hispanic American Indian | 1.6 | 1.8 | 1.3 | 0.6 | |
| Non-Hispanic other or mixed race | 4.9 | 3.3 | 6.5 | -3.1 | |
| Missing | 17.6 | 16.7 | 18.6 | -1.9 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.71 |
| Intellectual or developmental disability | 38.4 | 39.3 | 37.6 | 1.7 | |
| Speech, hearing, or visual impairment | 1.3 | 1.4 | 1.2 | 0.3 | |
| Physical disability | 12.5 | 12.8 | 12.2 | 0.6 | |
| Other mental impairment | 43.8 | 42.1 | 45.4 | -3.3 | |
| Other or unknown disability | 4.0 | 4.4 | 3.7 | 0.7 | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 95.3 | 95.4 | 95.3 | 0.1 | 0.92 |
| Received OASDI | 12.5 | 11.6 | 13.3 | -1.6 | 0.33 |
| Years between youth's earliest SSI eligibility and RA | 8.4 | 8.5 | 8.4 | 0.1 | 0.74 |
| Youth age at most recent SSI application | 7.4 | 7.4 | 7.5 | -0.1 | 0.75 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,227 | 7,243 | 7,211 | 32 | 0.78 |
| OASDI | 316 | 302 | 330 | -28 | 0.60 |
| Total SSI and OASDI | 7,543 | 7,545 | 7,541 | 4 | 0.97 |
| Household had multiple SSI-eligible children | 21.6 | 20.6 | 22.6 | -2.0 | 0.34 |
| Enrolling parent provided a valid SSN at RA | 91.5 | 91.2 | 91.8 | -0.5 | 0.71 |
| Parents included in the administrative data | | | | | 0.63 |
| None | 3.7 | 3.9 | 3.5 | 0.4 | |
| One parent | 59.5 | 60.5 | 58.6 | 1.9 | |
| Two parents | 36.8 | 35.7 | 37.9 | -2.3 | |
| Parent SSA payment status at RA | | | | | 0.70 |
| Any parent received SSI only | 11.6 | 10.9 | 12.4 | -1.5 | |
| Any parent received OASDI only | 8.4 | 7.7 | 9.0 | -1.4 | |
| Any parent received both SSI and OASDI | 7.4 | 7.3 | 7.5 | -0.2 | |
| No parent received any SSA payments | 68.9 | 70.3 | 67.6 | 2.7 | |
| No parent was included in the SSA data analyses | 3.7 | 3.9 | 3.5 | 0.4 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 4.0 | 4.3 | 3.8 | 0.4 | 0.66 |
| Youth earnings in the calendar year before RA (\$) | 42 | 45 | 38 | 7 | 0.69 |
| Parent had earnings in the calendar year before RA | 72.2 | 72.4 | 72.1 | 0.4 | 0.88 |
| Parent earnings in the calendar year before RA (\$) | 15,505 | 15,648 | 15,363 | 285 | 0.75 |
| Number of youth | 1,591 | 798 | 793 | | |

Note: The sample includes all youth who completed the PROMISE five-year youth survey. We weighted the statistics to adjust for survey nonresponse. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

Appendix Table H.2. WI PROMISE: Baseline characteristics of parent survey respondents (percentages, unless otherwise noted)

| | All | Treatment | Control | Difference | |
|--|------|-----------|---------|------------|-----------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | <i>p</i> -value |
| Demographic characteristics | | | | | |
| Youth is female | 33.1 | 32.7 | 33.5 | -0.9 | 0.72 |
| Youth age at RA | | | | | 0.55 |
| 14 | 40.0 | 39.5 | 40.6 | -1.1 | |
| 15 | 26.1 | 27.4 | 24.9 | 2.4 | |
| 16 | 33.9 | 33.2 | 34.5 | -1.4 | |
| Average age at RA | 15.4 | 15.4 | 15.4 | -0.0 | 0.77 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 95.5 | 94.7 | 96.4 | -1.7 | 0.10 |
| Prefers English for spoken language | 95.3 | 94.5 | 96.1 | -1.6 | 0.13 |
| Youth living arrangement at SSI application | | | | | 0.44 |
| In parents' household | 88.8 | 88.0 | 89.5 | -1.5 | |
| Own household or alone | 10.5 | 11.1 | 10.0 | 1.1 | |
| Another household and receiving support | 0.7 | 0.9 | 0.4 | 0.5 | |
| Youth race and ethnicity | | | | | 0.46 |
| Non-Hispanic White | 25.6 | 26.7 | 24.6 | 2.1 | |
| Non-Hispanic Black | 32.6 | 31.6 | 33.6 | -2.0 | |
| Hispanic | 10.7 | 11.7 | 9.7 | 2.1 | |
| Non-Hispanic American Indian | 1.8 | 1.7 | 2.0 | -0.3 | |
| Non-Hispanic other or mixed race | 7.1 | 6.2 | 8.0 | -1.8 | |
| Missing | 22.2 | 22.2 | 22.3 | -0.1 | |
| Enrolling parent age at RA | 41.3 | 41.5 | 41.2 | 0.3 | 0.40 |
| Parent race and ethnicity | | | | † | 0.07 |
| Non-Hispanic White | 34.1 | 35.4 | 32.9 | 2.5 | |
| Non-Hispanic Black | 33.5 | 33.2 | 33.7 | -0.5 | |
| Hispanic | 7.8 | 8.6 | 6.9 | 1.7 | |
| Non-Hispanic American Indian | 1.5 | 1.6 | 1.3 | 0.3 | |
| Non-Hispanic other or mixed race | 4.8 | 3.3 | 6.4 | -3.1 | |
| Missing | 18.3 | 17.9 | 18.8 | -0.8 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.69 |
| Intellectual or developmental disability | 38.9 | 39.1 | 38.7 | 0.4 | |
| Speech, hearing, or visual impairment | 1.3 | 1.4 | 1.2 | 0.2 | |
| Physical disability | 12.4 | 13.0 | 11.7 | 1.3 | |
| Other mental impairment | 43.4 | 41.9 | 44.8 | -2.9 | |
| Other or unknown disability | 4.0 | 4.5 | 3.6 | 0.9 | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p</i> -value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 95.1 | 95.2 | 95.1 | 0.2 | 0.87 |
| Received OASDI | 12.7 | 12.3 | 13.1 | -0.8 | 0.64 |
| Years between youth's earliest SSI eligibility and RA | 8.4 | 8.4 | 8.4 | 0.0 | 0.94 |
| Youth age at most recent SSI application | 7.4 | 7.4 | 7.5 | -0.0 | 0.90 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,221 | 7,238 | 7,204 | 34 | 0.77 |
| OASDI | 315 | 304 | 327 | -23 | 0.68 |
| Total SSI and OASDI | 7,536 | 7,542 | 7,531 | 11 | 0.92 |
| Household had multiple SSI-eligible children | 21.6 | 20.2 | 23.0 | -2.7 | 0.19 |
| Enrolling parent provided a valid SSN at RA | 92.0 | 91.0 | 92.9 | -2.0 | 0.15 |
| Parents included in the administrative data | | | | | 0.36 |
| None | 3.1 | 3.6 | 2.7 | 0.9 | |
| One parent | 59.5 | 60.4 | 58.6 | 1.8 | |
| Two parents | 37.4 | 36.0 | 38.7 | -2.8 | |
| Parent SSA payment status at RA | | | | | 0.33 |
| Any parent received SSI only | 11.9 | 10.8 | 13.0 | -2.1 | |
| Any parent received OASDI only | 8.7 | 7.9 | 9.5 | -1.6 | |
| Any parent received both SSI and OASDI | 7.3 | 7.9 | 6.7 | 1.3 | |
| No parent received any SSA payments | 69.0 | 69.7 | 68.2 | 1.5 | |
| No parent was included in the SSA data analyses | 3.1 | 3.6 | 2.7 | 0.9 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 4.2 | 4.5 | 3.8 | 0.7 | 0.50 |
| Youth earnings in the calendar year before RA (\$) | 42 | 49 | 35 | 13 | 0.41 |
| Parent had earnings in the calendar year before RA | 71.9 | 71.6 | 72.2 | -0.6 | 0.80 |
| Parent earnings in the calendar year before RA (\$) | 15,451 | 15,291 | 15,609 | -318 | 0.73 |
| Number of youth | 1,561 | 786 | 775 | | |

Note: The sample includes all youth whose parent completed the PROMISE five-year youth survey. We weighted the statistics to adjust for survey nonresponse. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

Appendix Table H.3. WI PROMISE: Baseline characteristics of all youth enrollees (percentages, unless otherwise noted)

| | All | Treatment | Control | Difference | |
|--|------|-----------|---------|------------|-----------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | <i>p</i> -value |
| Demographic characteristics | | | | | |
| Youth is female | 33.2 | 33.1 | 33.3 | -0.2 | 0.91 |
| Youth age at RA | | | | | 0.80 |
| 14 | 39.6 | 39.9 | 39.3 | 0.6 | |
| 15 | 26.3 | 26.7 | 25.9 | 0.8 | |
| 16 | 34.1 | 33.4 | 34.8 | -1.4 | |
| Average age at RA | 15.4 | 15.4 | 15.4 | -0.0 | 0.57 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 95.4 | 94.8 | 95.9 | -1.0 | 0.28 |
| Prefers English for spoken language | 95.2 | 94.7 | 95.7 | -0.9 | 0.34 |
| Youth living arrangement at SSI application | | | | | 0.15 |
| In parents' household | 88.3 | 88.1 | 88.6 | -0.5 | |
| Own household or alone | 11.0 | 10.8 | 11.1 | -0.3 | |
| Another household and receiving support | 0.7 | 1.1 | 0.3 | 0.7 | |
| Youth race and ethnicity | | | | | 0.50 |
| Non-Hispanic White | 24.8 | 25.8 | 23.8 | 2.0 | |
| Non-Hispanic Black | 32.0 | 31.7 | 32.3 | -0.7 | |
| Hispanic | 11.1 | 12.0 | 10.1 | 1.9 | |
| Non-Hispanic American Indian | 2.0 | 2.0 | 1.9 | 0.1 | |
| Non-Hispanic other or mixed race | 6.6 | 6.0 | 7.3 | -1.3 | |
| Missing | 23.5 | 22.5 | 24.5 | -2.0 | |
| Enrolling parent age at RA | 41.2 | 41.2 | 41.2 | -0.0 | 0.98 |
| Parent race and ethnicity | | | | †† | 0.03 |
| Non-Hispanic White | 33.2 | 34.3 | 32.0 | 2.3 | |
| Non-Hispanic Black | 32.8 | 33.1 | 32.5 | 0.6 | |
| Hispanic | 8.1 | 8.8 | 7.4 | 1.4 | |
| Non-Hispanic American Indian | 1.6 | 2.0 | 1.3 | 0.7 | |
| Non-Hispanic other or mixed race | 5.0 | 3.6 | 6.4 | -2.9 | |
| Missing | 19.3 | 18.2 | 20.4 | -2.2 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.71 |
| Intellectual or developmental disability | 38.3 | 38.5 | 38.1 | 0.5 | |
| Speech, hearing, or visual impairment | 1.2 | 1.3 | 1.1 | 0.2 | |
| Physical disability | 12.6 | 13.2 | 11.9 | 1.2 | |
| Other mental impairment | 44.0 | 42.7 | 45.3 | -2.6 | |
| Other or unknown disability | 4.0 | 4.3 | 3.6 | 0.7 | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 95.5 | 95.6 | 95.3 | 0.2 | 0.81 |
| Received OASDI | 11.9 | 11.4 | 12.5 | -1.1 | 0.46 |
| Years between youth's earliest SSI eligibility and RA | 8.4 | 8.4 | 8.4 | 0.0 | 0.90 |
| Youth age at most recent SSI application | 7.4 | 7.4 | 7.4 | 0.0 | 0.95 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,238 | 7,246 | 7,229 | 16 | 0.87 |
| OASDI | 306 | 295 | 316 | -21 | 0.67 |
| Total SSI and OASDI | 7,543 | 7,541 | 7,546 | -5 | 0.96 |
| Household had multiple SSI-eligible children | 21.9 | 20.8 | 23.1 | -2.3 | 0.22 |
| Enrolling parent provided a valid SSN at RA | 91.3 | 90.8 | 91.8 | -0.9 | 0.48 |
| Parents included in the administrative data | | | | | 0.92 |
| None | 3.4 | 3.5 | 3.4 | 0.1 | |
| One parent | 59.7 | 60.1 | 59.3 | 0.8 | |
| Two parents | 36.9 | 36.4 | 37.3 | -0.9 | |
| Parent SSA payment status at RA | | | | | 0.62 |
| Any parent received SSI only | 11.9 | 11.2 | 12.6 | -1.4 | |
| Any parent received OASDI only | 8.1 | 7.4 | 8.9 | -1.5 | |
| Any parent received both SSI and OASDI | 7.6 | 7.7 | 7.5 | 0.2 | |
| No parent received any SSA payments | 69.0 | 70.3 | 67.7 | 2.7 | |
| No parent was included in the SSA data analyses | 3.4 | 3.5 | 3.4 | 0.1 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 3.9 | 4.0 | 3.8 | 0.2 | 0.83 |
| Youth earnings in the calendar year before RA (\$) | 39 | 40 | 37 | 3 | 0.84 |
| Parent had earnings in the calendar year before RA | 72.0 | 72.0 | 72.0 | -0.0 | 0.99 |
| Parent earnings in the calendar year before RA (\$) | 15,293 | 15,256 | 15,329 | -73 | 0.93 |
| Number of youth | 1,896 | 950 | 946 | | |

Note: The sample includes all youth who enrolled in PROMISE. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

Appendix Table H.4. WI PROMISE: Baseline characteristics of proxy youth survey respondents (percentages, unless otherwise noted)

| | All | Treatment | Control | Difference | |
|--|------|-----------|---------|------------|-----------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | <i>p</i> -value |
| Demographic characteristics | | | | | |
| Youth is female | 26.5 | 25.0 | 28.1 | -3.1 | 0.43 |
| Youth age at RA | | | | | 0.93 |
| 14 | 40.6 | 40.2 | 40.9 | -0.6 | |
| 15 | 27.5 | 28.2 | 26.8 | 1.5 | |
| 16 | 31.9 | 31.5 | 32.4 | -0.8 | |
| Average age at RA | 15.4 | 15.3 | 15.4 | -0.0 | 0.84 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 93.7 | 92.0 | 95.6 | -3.6* | 0.10 |
| Prefers English for spoken language | 93.1 | 91.5 | 94.8 | -3.3 | 0.15 |
| Youth living arrangement at SSI application | | | | | 0.17 |
| In parents' household | 86.9 | 86.2 | 87.5 | -1.3 | |
| Own household or alone | 12.4 | 12.4 | 12.5 | -0.1 | |
| Another household and receiving support | 0.7 | 1.4 | 0.0 | 1.4 | |
| Youth race and ethnicity | | | | | 0.40 |
| Non-Hispanic White | 21.5 | 21.3 | 21.6 | -0.3 | |
| Non-Hispanic Black | 28.2 | 27.0 | 29.5 | -2.6 | |
| Hispanic | 10.2 | 10.1 | 10.3 | -0.2 | |
| Non-Hispanic American Indian | 1.8 | 1.0 | 2.6 | -1.6 | |
| Non-Hispanic other or mixed race | 5.2 | 4.1 | 6.3 | -2.2 | |
| Missing | 33.2 | 36.4 | 29.6 | 6.8 | |
| Enrolling parent age at RA | 41.4 | 41.4 | 41.5 | -0.1 | 0.86 |
| Parent race and ethnicity | | | | | 0.78 |
| Non-Hispanic White | 27.7 | 26.4 | 29.0 | -2.6 | |
| Non-Hispanic Black | 31.1 | 32.1 | 30.1 | 1.9 | |
| Hispanic | 10.0 | 11.0 | 8.8 | 2.2 | |
| Non-Hispanic American Indian | 2.2 | 2.1 | 2.2 | -0.1 | |
| Non-Hispanic other or mixed race | 3.5 | 2.5 | 4.5 | -2.0 | |
| Missing | 25.6 | 25.9 | 25.3 | 0.6 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.76 |
| Intellectual or developmental disability | 37.5 | 39.1 | 35.8 | 3.3 | |
| Speech, hearing, or visual impairment | 1.3 | 1.4 | 1.2 | 0.3 | |
| Physical disability | 12.8 | 13.5 | 12.1 | 1.5 | |
| Other mental impairment | 42.3 | 39.5 | 45.4 | -6.0 | |
| Other or unknown disability | 6.0 | 6.4 | 5.6 | 0.9 | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|---|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 95.1 | 94.6 | 95.6 | -1.0 | 0.63 |
| Received OASDI | 11.5 | 10.1 | 13.1 | -3.0 | 0.30 |
| Years between youth's earliest SSI eligibility and RA | 8.8 | 8.9 | 8.7 | 0.1 | 0.73 |
| Youth age at most recent SSI application | 7.2 | 7.1 | 7.2 | -0.1 | 0.85 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,240 | 7,254 | 7,224 | 30 | 0.88 |
| OASDI | 288 | 253 | 327 | -74 | 0.42 |
| Total SSI and OASDI | 7,528 | 7,507 | 7,551 | -44 | 0.82 |
| Household had multiple SSI-eligible children | 21.7 | 18.3 | 25.3 | -7.0* | 0.06 |
| Enrolling parent provided a valid SSN at RA | 88.7 | 88.3 | 89.2 | -0.9 | 0.75 |
| Parents included in the administrative data | | | | | 0.45 |
| None | 4.6 | 5.7 | 3.4 | 2.3 | |
| One parent | 59.4 | 58.3 | 60.6 | -2.3 | |
| Two parents | 36.0 | 36.0 | 36.1 | -0.0 | |
| Parent SSA payment status at RA | | | | | 0.65 |
| Any parent received SSI only | 12.3 | 12.9 | 11.7 | 1.2 | |
| Any parent received OASDI only | 8.4 | 7.3 | 9.5 | -2.3 | |
| Any parent received both SSI and OASDI | 6.5 | 6.8 | 6.3 | 0.5 | |
| No parent received any SSA payments | 68.2 | 67.3 | 69.1 | -1.7 | |
| No parent was included in the SSA data analyses | 4.6 | 5.7 | 3.4 | 2.3 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year pefore RA | 4.1 | 4.4 | 3.8 | 0.6 | 0.72 |
| Youth earnings in the calendar year before RA (\$) | 17 | 16 | 18 | -3 | 0.82 |
| Parent had earnings in the calendar year before RA | 72.3 | 71.9 | 72.7 | -0.8 | 0.85 |
| Parent earnings in the calendar year before RA (\$) | 15,258 | 15,764 | 14,726 | 1,038 | 0.52 |
| Number of youth | 506 | 262 | 244 | | |

Note: The sample includes all youth who completed the PROMISE five-year youth survey by proxy. We weighted the statistics to adjust for survey nonresponse. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

2. Differences between survey respondents and nonrespondents

We compared youth and parent survey respondents with nonrespondents across 25 baseline characteristics to assess the extent to which survey nonresponse might limit generalizability of the impact findings to all evaluation enrollees (Appendix Tables H.5 and H.6). Youth survey respondents differed from nonrespondents with respect to youth average age at RA and enrolling parent age at RA. Parent survey respondents differed from nonrespondents with respect to youth average age at RA, and the share of enrolling parent age at RA, the share of youth who received OASDI benefits at RA, and the share of enrolling parents who provided a valid SSN at RA. Overall, even when the differences were statistically significant, they generally were small. The extent and magnitude of the differences suggested that the respondents were not markedly different from the nonrespondents. To account for survey nonresponse, we calculated and used survey weights in all regression models to estimate impacts on the survey-based outcome measures.

Appendix Table H.5. WI PROMISE: Baseline characteristics of youth survey respondents and nonrespondents (percentages, unless otherwise noted)

| | All | | Nonrespondents | | <i>p</i> - |
|--|------|------|----------------|------------|------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | value |
| Demographic characteristics | | | | | |
| Youth is female | 33.2 | 33.4 | 32.1 | 1.2 | 0.67 |
| Youth age at RA | | | | † | 0.10 |
| 14 | 39.6 | 40.4 | 35.7 | 4.6 | |
| 15 | 26.3 | 26.6 | 24.9 | 1.7 | |
| 16 | 34.1 | 33.1 | 39.3 | -6.3 | |
| Average age at RA | 15.4 | 15.4 | 15.5 | -0.1* | 0.07 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 95.4 | 95.5 | 94.8 | 0.7 | 0.60 |
| Prefers English for spoken language | 95.2 | 95.3 | 94.8 | 0.5 | 0.70 |
| Youth living arrangement at SSI application | | | | | 0.47 |
| In parents' household | 88.3 | 88.0 | 90.2 | -2.2 | |
| Own household or alone | 11.0 | 11.3 | 9.5 | 1.7 | |
| Another household and receiving support | 0.7 | 0.8 | 0.3 | 0.4 | |
| Youth race and ethnicity | | | | <u>†††</u> | 0.00 |
| Non-Hispanic White | 24.8 | 27.0 | 13.1 | 13.9 | |
| Non-Hispanic Black | 32.0 | 33.9 | 22.0 | 12.0 | |
| Hispanic | 11.1 | 11.4 | 9.5 | 1.9 | |
| Non-Hispanic American Indian | 2.0 | 1.9 | 2.0 | -0.0 | |
| Non-Hispanic other or mixed race | 6.6 | 7.3 | 3.3 | 4.0 | |
| Missing | 23.5 | 18.4 | 50.2 | -31.7 | |
| Enrolling parent age at RA | 41.2 | 41.4 | 40.1 | 1.3*** | 0.00 |
| Parent race and ethnicity | | | | ††† | 0.00 |
| Non-Hispanic White | 33.2 | 35.8 | 19.3 | 16.5 | |
| Non-Hispanic Black | 32.8 | 34.7 | 22.6 | 12.1 | |
| Hispanic | 8.1 | 8.4 | 6.6 | 1.9 | |
| Non-Hispanic American Indian | 1.6 | 1.6 | 2.0 | -0.4 | |
| Non-Hispanic other or mixed race | 5.0 | 5.2 | 4.3 | 0.9 | |
| Missing | 19.3 | 14.3 | 45.2 | -30.9 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.32 |
| Intellectual or developmental disability | 38.3 | 38.8 | 35.4 | 3.4 | |
| Speech, hearing, or visual impairment | 1.2 | 1.3 | 0.3 | 1.0 | |
| Physical disability | 12.6 | 12.3 | 14.1 | -1.8 | |
| Other mental impairment | 44.0 | 43.5 | 46.9 | -3.4 | |
| Other or unknown disability | 4.0 | 4.1 | 3.3 | 0.8 | |

| Baseline characteristic | All (A) | Respondents (B) | Nonrespondents (C) | Difference (B – C) | <i>p-</i> value |
|---|------------|--------------------|-----------------------|-----------------------|--------------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 95.5 | 95.3 | 96.1 | -0.7 | 0.56 |
| Received OASDI | 11.9 | 12.3 | 9.8 | 2.5 | 0.19 |
| Years between youth's earliest SSI eligibility and RA | 8.4 | 8.4 | 8.4 | 0.0 | 0.98 |
| Youth age at most recent SSI application | 7.4 | 7.4 | 7.5 | -0.0 | 0.90 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,238 | 7,223 | 7,314 | -91 | 0.52 |
| OASDI | 306 | 317 | 245 | 72 | 0.25 |
| Total SSI and OASDI | 7,543 | 7,540 | 7,559 | -19 | 0.88 |
| Household had multiple SSI-eligible children | 21.9 | 21.6 | 23.8 | -2.2 | 0.42 |
| Enrolling parent provided a valid SSN at RA | 91.3 | 91.6 | 89.5 | 2.1 | 0.26 |
| Parents included in the administrative data | | | | | 0.70 |
| None | 3.4 | 3.6 | 2.6 | 1.0 | |
| One parent | 59.7 | 59.6 | 60.0 | -0.4 | |
| Two parents | 36.9 | 36.8 | 37.4 | -0.6 | |
| Parent SSA payment status at RA | | | | | 0.79 |
| Any parent received SSI only | 11.9 | 11.8 | 12.5 | -0.7 | |
| Any parent received OASDI only | 8.1 | 8.4 | 6.9 | 1.5 | |
| Any parent received both SSI and OASDI | 7.6 | 7.5 | 8.2 | -0.7 | |
| No parent received any SSA payments | 69.0 | 68.8 | 69.8 | -1.0 | |
| No parent was included in the SSA data analyses | 3.4 | 3.6 | 2.6 | 1.0 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 3.9 | 3.8 | 4.3 | -0.4 | 0.73 |
| Youth earnings in the calendar year before RA (\$) | 39 | 39 | 35 | 4 | 0.79 |
| Parent had earnings in the calendar year before RA | 72.0 | 72.0 | 72.1 | -0.1 | 0.98 |
| Parent earnings in the calendar year before RA (\$) | 15,293 | 15,413 | 14,673 | 740 | 0.51 |
| Number of youth | 1,896 | 1,591 | 305 | | |

Note: The sample includes all youth who enrolled in PROMISE. Nonrespondents include youth ineligible for the survey because they died or withdrew from the study. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (p-value is less than .10/.05/.01) using a two-tailed t-test.

+/++/+++ Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

Appendix Table H.6. WI PROMISE: Baseline characteristics of parent survey respondents and nonrespondents (percentages, unless otherwise noted)

| | All | | Nonrespondents | | <i>p</i> - |
|--|------|------|----------------|-------------|------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | value |
| Demographic characteristics | | | | | |
| Youth is female | 33.2 | 33.1 | 33.4 | -0.3 | 0.91 |
| Youth age at RA | | | | | 0.11 |
| 14 | 39.6 | 40.5 | 35.5 | 5.0 | |
| 15 | 26.3 | 26.5 | 25.7 | 0.8 | |
| 16 | 34.1 | 33.1 | 38.8 | -5.8 | |
| Average age at RA | 15.4 | 15.4 | 15.5 | -0.1** | 0.05 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 95.4 | 95.5 | 94.9 | 0.5 | 0.69 |
| Prefers English for spoken language | 95.2 | 95.3 | 94.9 | 0.3 | 0.80 |
| Youth living arrangement at SSI application | | | | | 0.71 |
| In parents' household | 88.3 | 88.6 | 87.2 | 1.4 | |
| Own household or alone | 11.0 | 10.8 | 11.9 | -1.2 | |
| Another household and receiving support | 0.7 | 0.6 | 0.9 | -0.3 | |
| Youth race and ethnicity | | | | <u>†††</u> | 0.00 |
| Non-Hispanic White | 24.8 | 26.8 | 15.2 | 11.6 | |
| Non-Hispanic Black | 32.0 | 34.3 | 21.5 | 12.8 | |
| Hispanic | 11.1 | 11.3 | 10.1 | 1.1 | |
| Non-Hispanic American Indian | 2.0 | 1.9 | 2.1 | -0.2 | |
| Non-Hispanic other or mixed race | 6.6 | 7.3 | 3.6 | 3.7 | |
| Missing | 23.5 | 18.4 | 47.5 | -29.1 | |
| Enrolling parent age at RA | 41.2 | 41.4 | 40.5 | 0.9** | 0.05 |
| Parent race and ethnicity | | | | <u>+</u> ++ | 0.00 |
| Non-Hispanic White | 33.2 | 35.7 | 21.5 | 14.2 | |
| Non-Hispanic Black | 32.8 | 35.5 | 20.0 | 15.5 | |
| Hispanic | 8.1 | 8.3 | 7.5 | 0.8 | |
| Non-Hispanic American Indian | 1.6 | 1.5 | 2.1 | -0.6 | |
| Non-Hispanic other or mixed race | 5.0 | 5.0 | 5.1 | -0.1 | |
| Missing | 19.3 | 14.0 | 43.9 | -29.9 | |
| Disability | | | | | |
| Youth primary impairment | | | | <u>††</u> | 0.02 |
| Intellectual or developmental disability | 38.3 | 39.7 | 31.9 | 7.7 | |
| Speech, hearing, or visual impairment | 1.2 | 1.3 | 0.3 | 1.0 | |
| Physical disability | 12.6 | 12.2 | 14.0 | -1.8 | |
| Other mental impairment | 44.0 | 42.7 | 50.4 | -7.8 | |
| Other or unknown disability | 4.0 | 4.1 | 3.3 | 0.8 | |

| Baseline characteristic | All (A) | Respondents (B) | Nonrespondents (C) | Difference (B – C) | <i>p-</i> value |
|---|------------|--------------------|-----------------------|-----------------------|--------------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 95.5 | 95.3 | 96.4 | -1.2 | 0.31 |
| Received OASDI | 11.9 | 12.6 | 9.0 | 3.6** | 0.04 |
| Years between youth's earliest SSI eligibility and RA | 8.4 | 8.4 | 8.5 | -0.1 | 0.63 |
| Youth age at most recent SSI application | 7.4 | 7.4 | 7.5 | -0.1 | 0.66 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,238 | 7,235 | 7,251 | -16 | 0.90 |
| OASDI | 306 | 313 | 270 | 43 | 0.51 |
| Total SSI and OASDI | 7,543 | 7,548 | 7,521 | 27 | 0.83 |
| Household had multiple SSI-eligible children | 21.9 | 21.6 | 23.4 | -1.8 | 0.48 |
| Enrolling parent provided a valid SSN at RA | 91.3 | 91.9 | 88.4 | 3.6* | 0.06 |
| Parents included in the administrative data | | | | | 0.49 |
| None | 3.4 | 3.2 | 4.5 | -1.3 | |
| One parent | 59.7 | 59.7 | 59.7 | 0.0 | |
| Two parents | 36.9 | 37.1 | 35.8 | 1.3 | |
| Parent SSA payment status at RA | | | | | 0.26 |
| Any parent received SSI only | 11.9 | 12.0 | 11.0 | 1.0 | |
| Any parent received OASDI only | 8.1 | 8.6 | 5.7 | 3.0 | |
| Any parent received both SSI and OASDI | 7.6 | 7.4 | 8.7 | -1.3 | |
| No parent received any SSA payments | 69.0 | 68.7 | 70.1 | -1.4 | |
| No parent was included in the SSA data analyses | 3.4 | 3.2 | 4.5 | -1.3 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 3.9 | 3.9 | 3.9 | 0.0 | 0.98 |
| Youth earnings in the calendar year before RA (\$) | 39 | 39 | 39 | -1 | 0.97 |
| Parent had earnings in the calendar year before RA | 72.0 | 71.5 | 74.1 | -2.5 | 0.35 |
| Parent earnings in the calendar year before RA (\$) | 15,293 | 15,317 | 15,177 | 141 | 0.90 |
| Number of youth | 1,896 | 1,561 | 335 | | |

Note: The sample includes the parents who were eligible for the survey. Nonrespondents include parents ineligible for the survey because they died or withdrew from the study. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a chi-square test.

3. Differences between self-reporting and proxy youth respondents

We compared the baseline characteristics of youth who self-responded to the survey to those who responded via proxies to assess whether systematically missing data from different survey modes might affect the estimated impacts on survey-based outcomes (Appendix Table H.7). We found differences in 7 of 25 baseline characteristics by survey response type. Compared with self-respondents, youth who responded by proxy were less likely to be female or prefer English as a spoken or written language; they had more years between earliest SSI eligibility and RA and were younger at the time of their most recent SSI application; they had lower average earnings in the year before RA; their enrolling parent was less likely to have provided an SSN at RA. Because of these differences, findings on survey-based outcomes that are available only for self-respondents might not generalize to all survey respondents.

Appendix Table H.7. WI PROMISE: Baseline characteristics of proxy and self-reporting youth survey respondents (percentages, unless otherwise noted)

| Baseline characteristic | All (A) | Proxy respondent (B) | Self- reporting respondent (C) | Difference (B – C) | <i>p</i> -value |
|--|------------|----------------------------|---|-----------------------|-----------------|
| Demographic characteristics | | | • | | |
| Youth is female | 33.3 | 26.5 | 36.6 | -10.1*** | 0.00 |
| Youth age at RA | | | | | 0.53 |
| 14 | 40.0 | 40.6 | 39.7 | 0.9 | |
| 15 | 26.3 | 27.5 | 25.6 | 1.9 | |
| 16 | 33.8 | 31.9 | 34.7 | -2.7 | |
| Average age at RA | 15.4 | 15.4 | 15.4 | -0.0 | 0.35 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 95.4 | 93.7 | 96.2 | -2.5** | 0.04 |
| Prefers English for spoken language | 95.2 | 93.1 | 96.2 | -3.1** | 0.02 |
| Youth living arrangement at SSI application | | | | | 0.53 |
| In parents' household | 88.1 | 86.9 | 88.7 | -1.9 | |
| Own household or alone | 11.1 | 12.4 | 10.5 | 1.9 | |
| Another household and receiving support | 0.7 | 0.7 | 0.7 | -0.0 | |
| Youth race and ethnicity | | | | <u>†</u> †† | 0.00 |
| Non-Hispanic White | 25.0 | 21.5 | 26.8 | -5.3 | |
| Non-Hispanic Black | 32.3 | 28.2 | 34.2 | -6.0 | |
| Hispanic | 11.1 | 10.2 | 11.6 | -1.4 | |
| Non-Hispanic American Indian | 1.8 | 1.8 | 1.8 | -0.0 | |
| Non-Hispanic other or mixed race | 6.7 | 5.2 | 7.5 | -2.3 | |
| Missing | 23.0 | 33.2 | 18.1 | 15.0 | |
| Enrolling parent age at RA | 41.4 | 41.4 | 41.4 | 0.1 | 0.86 |
| Parent race and ethnicity | | | | <u>+++</u> | 0.00 |
| Non-Hispanic White | 34.0 | 27.7 | 37.0 | -9.4 | |
| Non-Hispanic Black | 33.6 | 31.1 | 34.8 | -3.7 | |
| Hispanic | 8.4 | 10.0 | 7.6 | 2.4 | |
| Non-Hispanic American Indian | 1.6 | 2.2 | 1.3 | 0.9 | |
| Non-Hispanic other or mixed race | 4.9 | 3.5 | 5.6 | -2.1 | |
| Missing | 17.6 | 25.6 | 13.7 | 11.9 | |
| Disability | | | | | |
| Youth primary impairment | | | | † | 0.08 |
| Intellectual or developmental disability | 38.4 | 37.5 | 38.9 | -1.3 | |
| Speech, hearing, or visual impairment | 1.3 | 1.3 | 1.3 | 0.0 | |
| Physical disability | 12.5 | 12.8 | 12.3 | 0.5 | |
| Other mental impairment | 43.8 | 42.3 | 44.5 | -2.2 | |
| Other or unknown disability | 4.0 | 6.0 | 3.0 | 3.0 | |

| Baseline characteristic | All (A) | Proxy respondent (B) | Self- reporting respondent (C) | Difference (B – C) | <i>p</i> -value |
|---|------------|----------------------------|---|-----------------------|-----------------|
| SSA program participation | | | | • | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 95.3 | 95.1 | 95.4 | -0.3 | 0.78 |
| Received OASDI | 12.5 | 11.5 | 12.9 | -1.4 | 0.44 |
| Years between youth's earliest SSI eligibility and RA | 8.4 | 8.8 | 8.2 | 0.6** | 0.02 |
| Youth age at most recent SSI application | 7.4 | 7.2 | 7.6 | -0.4* | 0.09 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,227 | 7,240 | 7,221 | 19 | 0.88 |
| OASDI | 316 | 288 | 330 | -41 | 0.47 |
| Total SSI and OASDI | 7,543 | 7,528 | 7,550 | -22 | 0.84 |
| Household had multiple SSI-eligible children | 21.6 | 21.7 | 21.5 | 0.1 | 0.95 |
| Enrolling parent provided a valid SSN at RA | 91.5 | 88.7 | 92.9 | -4.2** | 0.01 |
| Parents included in the administrative data | | | | | 0.42 |
| None | 3.7 | 4.6 | 3.3 | 1.3 | |
| One parent | 59.5 | 59.4 | 59.6 | -0.2 | |
| Two parents | 36.8 | 36.0 | 37.2 | -1.1 | |
| Parent SSA payment status at RA | | | | | 0.60 |
| Any parent received SSI only | 11.6 | 12.3 | 11.3 | 1.1 | |
| Any parent received OASDI only | 8.4 | 8.4 | 8.3 | 0.0 | |
| Any parent received both SSI and OASDI | 7.4 | 6.5 | 7.8 | -1.3 | |
| No parent received any SSA payments | 68.9 | 68.2 | 69.3 | -1.1 | |
| No parent was included in the SSA data analyses | 3.7 | 4.6 | 3.3 | 1.3 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 4.0 | 4.1 | 4.0 | 0.1 | 0.91 |
| Youth earnings in the calendar year before RA (\$) | 42 | 17 | 54 | -37*** | 0.00 |
| Parent had earnings in the calendar year before RA | 72.2 | 72.3 | 72.2 | 0.0 | 0.99 |
| Parent earnings in the calendar year before RA (\$) | 15,505 | 15,258 | 15,623 | -365 | 0.71 |
| Number of youth | 1,591 | 506 | 1,085 | | |

Note: The sample includes all PROMISE five-year youth survey respondents. We weighted the statistics to adjust for survey nonresponse. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

B. Findings from the impact analysis

In this section, we present findings from the impact analysis of WI PROMISE. First, we present impacts estimated through the main models. Second, we present the results of sensitivity analyses. Third, we present impacts for key subgroups of evaluation enrollees.

1. Impact estimates

Appendix Tables H.8–H.17 provide results and inference statistics for the regression-adjusted impacts estimated through the main models described in Appendix B. For each outcome measure, we report the estimated regression-adjusted impact; the control group mean (weighted, as applicable); and additional inference statistics, such as standard errors, effect sizes, and sample sizes by treatment status.

Appendix Table H.8. WI PROMISE: Impact on the youth's education and training (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group sample size | Control group sample size |
|--|-----------------|--------|-----------------|-------------------|-------------|---------------------------------------|------------------------------------|
| Primary outcomes | | | | 1 | | I I I I I I I I I I I I I I I I I I I | |
| Enrolled in an educational or training program | 35.4 | -0.1 | 0.96 | 2.4 | -0.003 | 767 | 754 |
| Has a GED, high school diploma, or certificate of completion | 67.2 | 1.6 | 0.50 | 2.4 | 0.044 | 792 | 785 |
| Supplementary outcomes | | | | | | | |
| Enrolled in postsecondary education | 9.8 | 0.9 | 0.56 | 1.5 | 0.059 | 786 | 779 |
| Type of school attending | | | | | | | |
| High school serving a variety of students | 10.6 | 0.7 | 0.65 | 1.6 | 0.044 | 786 | 779 |
| High school serving only students with disabilities | 2.2 | 1.0 | 0.21 | 0.8 | 0.240 | 786 | 779 |
| GED program or other adult education program | 2.2 | -0.8 | 0.24 | 0.7 | -0.278 | 786 | 779 |
| Postsecondary vocational, trade, or technical school | 4.7 | -1.2 | 0.22 | 1.0 | -0.192 | 786 | 779 |
| Postsecondary college or advanced degree program | 5.2 | 2.1* | 0.08 | 1.2 | 0.222 | 786 | 779 |
| Other type of school | 1.4 | -0.2 | 0.76 | 0.6 | -0.085 | 786 | 779 |
| Not attending school | 73.8 | -1.7 | 0.44 | 2.2 | -0.051 | 786 | 779 |
| Highest grade completed | | | | | | | |
| Lower than 12th grade | 27.9 | -2.3 | 0.29 | 2.2 | -0.072 | 798 | 793 |
| 12th grade or senior in high school | 64.2 | 2.0 | 0.40 | 2.4 | 0.054 | 798 | 793 |
| Some or all of college or university | 5.5 | 0.9 | 0.44 | 1.2 | 0.101 | 798 | 793 |
| Other or do not know | 2.4 | -0.7 | 0.36 | 0.7 | -0.198 | 798 | 793 |
| Enrolled in a training program | 12.4 | -1.7 | 0.31 | 1.6 | -0.099 | 760 | 743 |
| Received any training credential in the past year | 7.2 | 4.8*** | 0.00 | 1.5 | 0.340 | 784 | 789 |
| Any school suspensions or expulsions in the past year | 4.6 | -1.7* | 0.07 | 1.0 | -0.300 | 761 | 744 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group sample size | Control group sample size |
|--|-----------------|--------|-----------------|-------------------|-------------|--------------------------------------|------------------------------------|
| Accommodations | | | | | | | |
| Receives educational accommodation | 18.1 | 0.8 | 0.68 | 1.9 | 0.031 | 789 | 779 |
| Receives training accommodation | 7.6 | -1.5 | 0.25 | 1.3 | -0.138 | 758 | 743 |
| Received supports or services for postsecondary education in the past year | 21.1 | 1.1 | 0.59 | 2.1 | 0.040 | 786 | 785 |

Source: PROMISE five-year surveys.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of WI PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

GED = General Educational Development.

Appendix Table H.9. WI PROMISE: Impact on the youth's employment and earnings (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|---------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Employed in a paid job in the past year ^a | 50.6 | 6.8*** | 0.01 | 2.5 | 0.166 | 798 | 793 |
| Earnings in the past year (\$) | 4,904 | 668 | 0.15 | 467 | 0.073 | 798 | 793 |
| Earnings during the five calendar years after RA (\$) | 13,302 | 887 | 0.32 | 894 | 0.045 | 950 | 946 |
| Supplementary outcomes | | | | | | | |
| Employment in the past year | | | | | | | |
| Any employment | 54.6 | 6.2** | 0.01 | 2.5 | 0.154 | 798 | 793 |
| Weekly hours worked | 8.2 | 1.1 | 0.13 | 0.7 | 0.076 | 798 | 793 |
| Employed in a paid job offering fringe benefits | 27.7 | 1.7 | 0.47 | 2.3 | 0.050 | 798 | 793 |
| Employment settings | | | | | | | |
| Integrated | 42.5 | 6.5** | 0.01 | 2.5 | 0.158 | 798 | 793 |
| Outside of school-sponsored activities | 47.6 | 4.7* | 0.06 | 2.6 | 0.114 | 798 | 793 |
| With coaching | 11.3 | 3.6** | 0.04 | 1.8 | 0.194 | 798 | 793 |
| Received supports or services in getting or keeping a job | 23.6 | 3.1 | 0.16 | 2.2 | 0.100 | 789 | 788 |
| Employment at the time of the survey | | | | | | | |
| Any paid employment | 30.6 | 4.8** | 0.05 | 2.4 | 0.131 | 798 | 793 |
| Average weekly earnings (\$) | 98 | 14 | 0.19 | 11 | 0.067 | 798 | 793 |
| Weekly hours worked | 8.4 | 1.0 | 0.20 | 0.8 | 0.065 | 798 | 793 |
| Labor force participation | 59.3 | 2.4 | 0.34 | 2.5 | 0.062 | 798 | 793 |
| Employment and earnings in calendar years after RA | | | | | | | |
| Ever employed in Year 1 | 29.1 | 15.1*** | 0.00 | 2.1 | 0.398 | 950 | 946 |
| Ever employed in Year 2 | 44.7 | 10.8*** | 0.00 | 2.2 | 0.264 | 950 | 946 |
| Ever employed in Year 3 | 56.7 | 5.4** | 0.02 | 2.2 | 0.136 | 950 | 946 |
| Ever employed in Year 4 | 59.9 | 6.0*** | 0.01 | 2.2 | 0.157 | 950 | 946 |
| Ever employed in Year 5 | 60.1 | 1.7 | 0.46 | 2.2 | 0.042 | 950 | 946 |
| Ever employed during Years 1-5 | 78.3 | 5.6*** | 0.00 | 1.8 | 0.222 | 950 | 946 |
| Earnings in Year 1 (\$) | 580 | 124* | 0.06 | 66 | 0.081 | 950 | 946 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|---------|-----------------|-------------------|-------------|----------------------|--------------------|
| Earnings in Year 2 (\$) | 1,343 | 195 | 0.12 | 124 | 0.070 | 950 | 946 |
| Earnings in Year 3 (\$) | 2,458 | 221 | 0.27 | 199 | 0.051 | 950 | 946 |
| Earnings in Year 4 (\$) | 3,738 | 119 | 0.68 | 286 | 0.019 | 950 | 946 |
| Earnings in Year 5 (\$) | 5,183 | 228 | 0.55 | 377 | 0.028 | 950 | 946 |
| VR services during the 5 years after RA ^a | | | | | | | |
| Applied for VR services | 38.6 | 57.5*** | 0.00 | 1.7 | 2.214 | 950 | 946 |
| Received VR services | 30.5 | 54.7*** | 0.00 | 1.8 | 1.562 | 950 | 946 |

Source: PROMISE five-year survey, RSA-911 data (VR service outcomes), and SSA administrative records (employment and earnings in years after RA).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of WI PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

^a RSA-911 data are available only through 2020. VR services outcomes used only four years of data for youth who enrolled in PROMISE in 2016.

N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration; VR = vocational rehabilitation.

Appendix Table H.10. WI PROMISE: Impact on the youth's self-determination and expectations (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p-</i> value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Self-determination score (scale: 0 to 100) ^a | 78.2 | -0.4 | 0.65 | 0.9 | -0.028 | 508 | 513 |
| Youth expects to be financially independent at age 25 | 58.4 | 4.4 | 0.15 | 3.0 | 0.112 | 517 | 537 |
| Supplementary outcomes | · | | | | | | |
| Scores on subdomains of self-determination ^a | | | | | | | |
| Autonomy (scale: 0 to 300) | 141.9 | -1.9 | 0.60 | 3.6 | -0.033 | 510 | 517 |
| Psychological empowerment (scale: 0 to 100) | 86.1 | -0.4 | 0.73 | 1.2 | -0.022 | 508 | 514 |
| Self-realization (scale: 0 to 100) | 88.9 | 0.4 | 0.69 | 1.1 | 0.025 | 505 | 514 |
| Agentic action (scale: 0 to 100) | 90.6 | -0.6 | 0.65 | 1.2 | -0.028 | 506 | 513 |
| Youth expects to: | | | | | | | |
| Get postsecondary education (beyond high school/GED) | 52.4 | 3.2 | 0.30 | 3.1 | 0.079 | 506 | 507 |
| Live independently at age 25 | 68.7 | 2.9 | 0.30 | 2.8 | 0.083 | 510 | 528 |
| Be employed in a paid job at age 25 | 84.4 | 4.1** | 0.05 | 2.1 | 0.215 | 520 | 538 |
| Parent expects youth to: | | | | | | | |
| Get postsecondary education (beyond high school/GED) | 34.5 | 0.1 | 0.98 | 2.5 | 0.002 | 731 | 726 |
| Live independently at age 25 | 46.1 | 0.1 | 0.96 | 2.6 | 0.003 | 726 | 729 |
| Be financially independent at age 25 | 40.9 | 1.3 | 0.60 | 2.5 | 0.033 | 739 | 737 |
| Be employed in a paid job at age 25 | 76.3 | 6.6*** | 0.00 | 2.1 | 0.248 | 743 | 747 |
| Parent believes it important that youth be employed eventually | 92.1 | -0.5 | 0.73 | 1.5 | -0.041 | 728 | 723 |

Source: PROMISE five-year survey.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of WI PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

^a Higher scores on the scales indicate higher levels of self-determination.

GED = General Educational Development; N = sample size.

Appendix Table H.11. WI PROMISE: Impact on the youth's SSA payments and knowledge (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p-</i> value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | mean | impact | p-value | | | group it | group it |
| Received SSA payments in Year 5 after RA | 67.5 | 1.0 | 0.62 | 2.1 | 0.028 | 950 | 946 |
| Total SSA payments in Year 5 after RA (\$) | 5,385 | 184 | 0.32 | 186 | 0.043 | 950 | 946 |
| Total SSA payments during Years 1–5 after RA (\$) | 33,377 | 800 | 0.15 | 559 | 0.060 | 950 | 946 |
| Supplementary outcomes | | | | | | | |
| Aware of the following SSA policies | | | | | | | |
| Children receiving SSI are not automatically eligible for SSI as adults | 42.1 | 3.3 | 0.29 | 3.1 | 0.081 | 508 | 514 |
| People receiving SSI can work for pay | 76.9 | -2.0 | 0.47 | 2.7 | -0.065 | 508 | 514 |
| People receiving SSI must report earnings to SSA | 80.1 | -3.1 | 0.22 | 2.5 | -0.112 | 508 | 514 |
| Aware of the following work supports | | | | | | | |
| SSI Student Earned Income Exclusion | 8.4 | 2.6 | 0.15 | 1.8 | 0.183 | 508 | 514 |
| SSI earned income exclusion | 8.4 | 4.1** | 0.04 | 2.0 | 0.267 | 508 | 514 |
| SSI PASS plan | 9.6 | 1.4 | 0.45 | 1.9 | 0.093 | 508 | 514 |
| ABLE account | 7.4 | 0.5 | 0.78 | 1.7 | 0.041 | 508 | 514 |
| SSA payments in years after RA | | | | | | | |
| Received any in Year 1 | 97.5 | 0.1 | 0.92 | 0.7 | 0.017 | 950 | 946 |
| Received any in Year 2 | 93.3 | 0.7 | 0.53 | 1.1 | 0.070 | 950 | 946 |
| Received any in Year 3 | 88.4 | 0.0 | 0.98 | 1.4 | 0.002 | 950 | 946 |
| Received any in Year 4 | 76.3 | 2.8 | 0.13 | 1.8 | 0.097 | 950 | 946 |
| Received any in Years 1–5 | 98.4 | -0.0 | 0.97 | 0.5 | -0.007 | 950 | 946 |
| Amount in Year 1 (\$) | 8,021 | 31 | 0.73 | 89 | 0.012 | 950 | 946 |
| Amount in Year 2 (\$) | 7,403 | 152 | 0.20 | 120 | 0.052 | 950 | 946 |
| Amount in Year 3 (\$) | 6,657 | 174 | 0.25 | 150 | 0.051 | 950 | 946 |
| Amount in Year 4 (\$) | 5,911 | 260 | 0.13 | 173 | 0.066 | 950 | 946 |

| | Control | | | Standard | | Treatment | Control |
|------------------------------------|---------|--------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p</i> -value | error | Effect size | group N | group N |
| SSI payments in years after RA | | | | | | | |
| Received any in Year 1 | 96.7 | 0.2 | 0.84 | 0.8 | 0.031 | 950 | 946 |
| Received any in Year 2 | 91.2 | 1.1 | 0.35 | 1.2 | 0.091 | 950 | 946 |
| Received any in Year 3 | 85.3 | 0.9 | 0.55 | 1.6 | 0.046 | 950 | 946 |
| Received any in Year 4 | 73.9 | 2.8 | 0.14 | 1.9 | 0.092 | 950 | 946 |
| Received any in Year 5 | 65.4 | 1.1 | 0.61 | 2.1 | 0.029 | 950 | 946 |
| Received any in Years 1–5 | 97.7 | 0.4 | 0.52 | 0.6 | 0.122 | 950 | 946 |
| Amount in Year 1 (\$) | 7,583 | 39 | 0.70 | 103 | 0.014 | 950 | 946 |
| Amount in Year 2 (\$) | 6,918 | 200 | 0.12 | 129 | 0.063 | 950 | 946 |
| Amount in Year 3 (\$) | 6,156 | 250 | 0.10 | 153 | 0.072 | 950 | 946 |
| Amount in Year 4 (\$) | 5,440 | 249 | 0.15 | 174 | 0.064 | 950 | 946 |
| Amount in Year 5 (\$) | 4,938 | 107 | 0.56 | 183 | 0.026 | 950 | 946 |
| Total amount during Years 1–5 (\$) | 31,035 | 844 | 0.15 | 586 | 0.061 | 950 | 946 |
| OASDI benefits in years after RA | | | | | | | |
| Received any in Year 1 | 13.8 | -1.1 | 0.38 | 1.3 | -0.060 | 950 | 946 |
| Received any in Year 2 | 15.3 | -2.0 | 0.14 | 1.4 | -0.098 | 950 | 946 |
| Received any in Year 3 | 14.9 | -2.7* | 0.05 | 1.4 | -0.142 | 950 | 946 |
| Received any in Year 4 | 12.6 | -0.7 | 0.60 | 1.4 | -0.042 | 950 | 946 |
| Received any in Year 5 | 9.8 | 0.4 | 0.79 | 1.3 | 0.024 | 950 | 946 |
| Received any in Years 1–5 | 18.7 | -1.4 | 0.37 | 1.6 | -0.057 | 950 | 946 |
| Amount in Year 1 (\$) | 437 | -9 | 0.90 | 66 | -0.006 | 950 | 946 |
| Amount in Year 2 (\$) | 485 | -47 | 0.49 | 69 | -0.030 | 950 | 946 |
| Amount in Year 3 (\$) | 501 | -75 | 0.32 | 76 | -0.045 | 950 | 946 |
| Amount in Year 4 (\$) | 471 | 11 | 0.89 | 80 | 0.006 | 950 | 946 |
| Amount in Year 5 (\$) | 447 | 77 | 0.36 | 84 | 0.042 | 950 | 946 |
| Total amount during Years 1–5 (\$) | 2,342 | -44 | 0.89 | 326 | -0.006 | 950 | 946 |

| Outcome | Control mean | Impact | <i>p-</i> value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Age-18 redetermination status five years after RA | | | | | | | |
| Final decision: benefits ceased | 19.5 | 1.6 | 0.35 | 1.8 | 0.061 | 950 | 946 |
| Final decision: benefits continued | 36.5 | -0.7 | 0.73 | 2.1 | -0.019 | 950 | 946 |
| Final decision is pending | 11.2 | -0.4 | 0.76 | 1.4 | -0.027 | 950 | 946 |
| Did not have an age-18 redetermination | 32.9 | -0.5 | 0.82 | 2.0 | -0.013 | 950 | 946 |

Source: SSA administrative records and PROMISE five-year survey (awareness of work supports and SSA policies).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of WI PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

ABLE = Achieving a Better Life Experience; OASDI = Old-Age, Survivors, and Disability Insurance; PASS = Plan for Achieving Self Support; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income.

Appendix Table H.12. WI PROMISE: Impact on the youth's health insurance coverage and expenditures (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Control | | | Standard | | Treatment | Control |
|--|---------|--------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p</i> -value | error | Effect size | group N | group N |
| Primary outcomes | | | | | | | |
| Covered by any health insurance | 86.8 | 0.9 | 0.60 | 1.7 | 0.048 | 761 | 772 |
| Average monthly Medicaid and Medicare expenditures in the five years after RA (\$) | 814 | 29 | 0.38 | 33 | 0.030 | 950 | 946 |
| Supplementary outcomes | | | | | | | |
| Covered by private health insurance | 11.0 | -0.5 | 0.73 | 1.6 | -0.035 | 761 | 772 |
| Covered by private health insurance purchased through an ACA health exchange | 0.4 | -0.3 | 0.29 | 0.3 | -0.880 | 761 | 772 |
| Medicaid and Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 99.3 | 0.6* | 0.08 | 0.3 | 0.840 | 950 | 946 |
| Ever enrolled in Year 2 | 97.5 | 0.0 | 0.98 | 0.7 | 0.004 | 950 | 946 |
| Ever enrolled in Year 3 | 96.4 | -0.5 | 0.60 | 0.9 | -0.077 | 950 | 946 |
| Ever enrolled in Year 4 | 92.5 | 0.5 | 0.70 | 1.2 | 0.041 | 950 | 946 |
| Ever enrolled in Year 5 | 90.2 | -0.8 | 0.55 | 1.4 | -0.054 | 950 | 946 |
| Percentage of months enrolled in Years 1–5 | 88.6 | -0.2 | 0.83 | 0.8 | -0.010 | 950 | 946 |
| Average monthly Medicaid and Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 736 | -5 | 0.84 | 27 | -0.005 | 950 | 946 |
| Year 2 (\$) | 737 | 16 | 0.65 | 37 | 0.016 | 950 | 946 |
| Year 3 (\$) | 792 | 25 | 0.57 | 43 | 0.022 | 950 | 946 |
| Year 4 (\$) | 876 | 59 | 0.23 | 49 | 0.047 | 950 | 946 |
| Year 5 (\$) | 932 | 51 | 0.32 | 51 | 0.040 | 950 | 946 |
| Medicaid participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 99.3 | 0.6* | 0.08 | 0.3 | 0.840 | 950 | 946 |
| Ever enrolled in Year 2 | 97.5 | 0.0 | 0.98 | 0.7 | 0.004 | 950 | 946 |
| Ever enrolled in Year 3 | 96.4 | -0.5 | 0.60 | 0.9 | -0.077 | 950 | 946 |
| Ever enrolled in Year 4 | 92.4 | 0.6 | 0.64 | 1.2 | 0.050 | 950 | 946 |
| Ever enrolled in Year 5 | 90.1 | -0.8 | 0.55 | 1.4 | -0.053 | 950 | 946 |
| Percentage of months enrolled in Years 1–5 | 88.6 | -0.2 | 0.81 | 0.8 | -0.011 | 950 | 946 |

Appendix H WI PROMISE Impacts, Benefits, and Costs

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Average monthly Medicaid expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 736 | -5 | 0.84 | 27 | -0.005 | 950 | 946 |
| Year 2 (\$) | 737 | 16 | 0.65 | 37 | 0.016 | 950 | 946 |
| Year 3 (\$) | 792 | 25 | 0.56 | 43 | 0.022 | 950 | 946 |
| Year 4 (\$) | 863 | 64 | 0.19 | 48 | 0.052 | 950 | 946 |
| Year 5 (\$) | 905 | 61 | 0.22 | 50 | 0.050 | 950 | 946 |
| Years 1–5 (\$) | 806 | 32 | 0.33 | 33 | 0.034 | 950 | 946 |
| Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 0.0 | 0.0 | n.a. | 0.0 | n.a. | 950 | 946 |
| Ever enrolled in Year 2 | 0.0 | 0.0 | n.a. | 0.0 | n.a. | 950 | 946 |
| Ever enrolled in Year 3 | 0.2 | 0.0 | 0.99 | 0.2 | 0.007 | 950 | 946 |
| Ever enrolled in Year 4 | 3.4 | 0.0 | 0.99 | 0.8 | 0.001 | 950 | 946 |
| Ever enrolled in Year 5 | 6.3 | -0.8 | 0.47 | 1.0 | -0.082 | 950 | 946 |
| Percentage of months enrolled in Years 1–5 | 1.4 | -0.1 | 0.70 | 0.3 | -0.017 | 950 | 946 |
| Average monthly Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 0 | 0 | n.a. | 0 | n.a. | 950 | 946 |
| Year 2 (\$) | 0 | 0 | n.a. | 0 | n.a. | 950 | 946 |
| Year 3 (\$) | 0 | -0 | 0.35 | 0 | -0.046 | 950 | 946 |
| Year 4 (\$) | 12 | -5 | 0.27 | 5 | -0.051 | 950 | 946 |
| Year 5 (\$) | 27 | -10 | 0.31 | 10 | -0.046 | 950 | 946 |
| Years 1–5 (\$) | 8 | -3 | 0.23 | 3 | -0.054 | 950 | 946 |

Source: CMS administrative records and PROMISE five-year survey (non-Medicare/Medicaid outcomes).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of WI PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

ACA = Affordable Care Act; CMS = Centers for Medicare & Medicaid Services; N = sample size; RA = random assignment.

Appendix Table H.13. WI PROMISE: Impact on the youth's economic and social well-being (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|---------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Total income in the past year (\$) | 10,493 | 879** | 0.04 | 434 | 0.103 | 798 | 793 |
| Total income during the five calendar years after RA (\$) | 47,921 | 1,987** | 0.02 | 879 | 0.102 | 950 | 946 |
| Supplementary outcomes | | | | | | | |
| Engaging in productive market activities ^a | 74.8 | 1.7 | 0.44 | 2.2 | 0.055 | 786 | 776 |
| Income in calendar years after RA | | | | | | | |
| Year 1 (\$) | 8,868 | 236* | 0.07 | 129 | 0.072 | 950 | 946 |
| Year 2 (\$) | 8,933 | 433** | 0.01 | 175 | 0.108 | 950 | 946 |
| Year 3 (\$) | 9,274 | 489** | 0.02 | 213 | 0.105 | 950 | 946 |
| Year 4 (\$) | 10,008 | 313 | 0.25 | 270 | 0.054 | 950 | 946 |
| Year 5 (\$) | 10,838 | 516 | 0.13 | 345 | 0.069 | 950 | 946 |
| Household income in the past year (\$) ^b | 28,134 | 866 | 0.40 | 1,027 | 0.045 | 698 | 672 |
| Household receives TANF, SNAP, or housing assistance ^b | 51.6 | 0.8 | 0.77 | 2.6 | 0.019 | 717 | 700 |
| Amount of public assistance in the past month | | | | | | | |
| TANF (\$) ^b | 6 | 5 | 0.22 | 4 | 0.066 | 715 | 698 |
| SNAP benefits (\$) ^b | 147 | -1 | 0.91 | 11 | -0.006 | 723 | 707 |
| Housing assistance (\$) ^b | 58 | 1 | 0.95 | 10 | 0.003 | 719 | 707 |
| Family structure and living arrangements | | | | | | | |
| Living independently | 19.0 | 2.0 | 0.33 | 2.0 | 0.074 | 797 | 790 |
| Married or in a marriage-like relationship | 4.8 | 1.2 | 0.30 | 1.1 | 0.141 | 760 | 745 |
| Responsible for a child or children | 12.4 | 2.6 | 0.13 | 1.8 | 0.135 | 756 | 746 |
| Engagement with the criminal justice system | | | | | | | |
| Ever arrested | 20.7 | -0.0 | 0.98 | 2.0 | -0.002 | 750 | 745 |
| Number of times arrested | 0.7 | -0.1 | 0.29 | 0.1 | -0.054 | 750 | 745 |
| Arrested in the past year | 7.0 | 1.4 | 0.31 | 1.4 | 0.120 | 747 | 744 |
| Ever incarcerated | 8.0 | -1.3 | 0.35 | 1.4 | -0.111 | 733 | 730 |
| Length of incarceration (days) | 42.2 | -15.2 | 0.12 | 9.8 | -0.082 | 733 | 730 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Self-reported health status | | | | | | | |
| Poor | 4.8 | 0.7 | 0.55 | 1.2 | 0.087 | 755 | 743 |
| Fair | 18.9 | -2.4 | 0.23 | 2.0 | -0.101 | 755 | 743 |
| Good | 37.1 | 1.6 | 0.53 | 2.5 | 0.041 | 755 | 743 |
| Very good or excellent | 39.2 | 0.1 | 0.96 | 2.5 | 0.004 | 755 | 743 |
| Received help in getting accommodations for school, work, or living independently in past year | 22.0 | 2.4 | 0.26 | 2.1 | 0.083 | 785 | 786 |

Source: PROMISE five-year surveys and SSA administrative records (SSA payments and income in calendar years after RA).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of WI PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

^a Productive market activities include engaging in any of the following at the time of the five-year survey: employment in paid or unpaid work, looking for work, or enrollment in school or a training program.

^b This outcome is based on data from the parent survey about the parent's household if the youth lived with the parent at interview.

N = sample size; RA = random assignment; SNAP = Supplemental Nutrition Assistance Program; SSA = Social Security Administration; TANF = Temporary Assistance for Needy Families.

Appendix Table H.14. WI PROMISE: Impact on the parents' employment and earnings (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Either parent worked for pay in the past year | 69.7 | 1.6 | 0.44 | 2.1 | 0.047 | 785 | 774 |
| Parents' earnings in the past year (\$) | 23,129 | 703 | 0.60 | 1,322 | 0.027 | 786 | 775 |
| Parents' earnings during the five calendar years after RA (\$) | 107,697 | 945 | 0.76 | 3,062 | 0.009 | 917 | 914 |
| Supplementary outcomes | | | | | | | |
| Highest educational attainment achieved by either parent | | | | | | | |
| Not a high school graduate | 21.0 | -3.0 | 0.12 | 1.9 | -0.117 | 786 | 772 |
| High school diploma or GED | 34.5 | 0.4 | 0.86 | 2.4 | 0.012 | 786 | 772 |
| Some postsecondary education or more | 44.0 | 2.3 | 0.35 | 2.5 | 0.057 | 786 | 772 |
| Other or do not know | 0.5 | 0.3 | 0.50 | 0.4 | 0.282 | 786 | 772 |
| Employment in the past year | | | | | | | |
| Number of parents that worked for pay | 0.8 | 0.0 | 0.14 | 0.0 | 0.068 | 785 | 770 |
| Number of weeks worked | 39.1 | 1.8 | 0.24 | 1.5 | 0.055 | 785 | 770 |
| Weekly hours worked | 30.4 | 1.0 | 0.44 | 1.3 | 0.036 | 786 | 775 |
| Either parent was offered fringe benefits through a job | 47.7 | -0.3 | 0.91 | 2.4 | -0.006 | 785 | 772 |
| Employment at the time of survey | | | | | | | |
| Either parent is in the labor force | 71.4 | -0.7 | 0.76 | 2.2 | -0.020 | 753 | 733 |
| Either parent is working for pay | 58.2 | 2.1 | 0.38 | 2.4 | 0.052 | 754 | 741 |
| Employment and earnings in calendar years after RA | | | | | | | |
| Ever employed in Year 1 | 76.4 | -1.5 | 0.38 | 1.7 | -0.050 | 917 | 914 |
| Ever employed in Year 2 | 76.8 | 0.2 | 0.89 | 1.7 | 0.008 | 917 | 914 |
| Ever employed in Year 3 | 78.8 | -1.1 | 0.51 | 1.7 | -0.040 | 917 | 914 |
| Ever employed in Year 4 | 78.6 | 1.0 | 0.56 | 1.7 | 0.036 | 917 | 914 |
| Ever employed in Year 5 | 77.1 | 0.9 | 0.62 | 1.8 | 0.031 | 917 | 914 |
| Ever employed in Years 1-5 | 87.5 | 1.2 | 0.39 | 1.4 | 0.068 | 917 | 914 |
| Earnings in Year 1 (\$) | 18,580 | -11 | 0.98 | 531 | -0.001 | 917 | 914 |
| Earnings in Year 2 (\$) | 20,272 | -92 | 0.88 | 627 | -0.004 | 917 | 914 |
| Earnings in Year 3 (\$) | 21,883 | 317 | 0.65 | 704 | 0.014 | 917 | 914 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|-------------------------|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Earnings in Year 4 (\$) | 23,414 | -46 | 0.95 | 789 | -0.002 | 917 | 914 |
| Earnings in Year 5 (\$) | 23,547 | 778 | 0.38 | 878 | 0.030 | 917 | 914 |

Source: PROMISE five-year survey and SSA administrative records (employment and earnings in years after RA).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of WI PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

GED = General Educational Development; N = sample size; RA = random assignment.

Appendix Table H.15. WI PROMISE: Impact on the parents' SSA payments (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Control | | | Standard | | Treatment | Control |
|--|---------|--------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p</i> -value | error | Effect size | group N | group N |
| Primary outcomes | | | | | | | |
| Either parent received SSA payments in Year 5 | 35.1 | -1.2 | 0.41 | 1.5 | -0.032 | 917 | 914 |
| Total SSA payments received in Year 5 (\$) | 3,703 | -114 | 0.55 | 191 | -0.021 | 917 | 914 |
| Total SSA payments during the five years after RA (\$) | 17,680 | -323 | 0.66 | 722 | -0.013 | 917 | 914 |
| Supplementary outcomes | | | | | | | |
| SSA payments in years after RA | | | | | | | |
| Received any in Year 1 | 31.0 | -0.2 | 0.82 | 0.7 | -0.004 | 917 | 914 |
| Received any in Year 2 | 32.1 | -0.6 | 0.52 | 0.9 | -0.017 | 917 | 914 |
| Received any in Year 3 | 33.8 | -1.6 | 0.16 | 1.2 | -0.044 | 917 | 914 |
| Received any in Year 4 | 34.5 | -1.3 | 0.32 | 1.3 | -0.036 | 917 | 914 |
| Received any in Years 1–5 | 38.3 | -1.2 | 0.38 | 1.3 | -0.030 | 917 | 914 |
| Amount in Year 1 (\$) | 3,292 | 23 | 0.86 | 133 | 0.004 | 917 | 914 |
| Amount in Year 2 (\$) | 3,350 | 121 | 0.44 | 158 | 0.022 | 917 | 914 |
| Amount in Year 3 (\$) | 3,672 | -196 | 0.32 | 197 | -0.034 | 917 | 914 |
| Amount in Year 4 (\$) | 3,662 | -156 | 0.42 | 192 | -0.028 | 917 | 914 |
| SSI payments in years after RA | | | | | | | |
| Received any in Year 1 | 21.0 | -0.7 | 0.31 | 0.7 | -0.026 | 917 | 914 |
| Received any in Year 2 | 20.2 | 0.5 | 0.55 | 0.9 | 0.019 | 917 | 914 |
| Received any in Year 3 | 21.2 | -0.2 | 0.82 | 1.0 | -0.009 | 917 | 914 |
| Received any in Year 4 | 20.5 | 0.3 | 0.81 | 1.1 | 0.010 | 917 | 914 |
| Received any in Year 5 | 20.6 | 0.5 | 0.68 | 1.2 | 0.018 | 917 | 914 |
| Received any in Years 1–5 | 26.4 | -0.7 | 0.59 | 1.2 | -0.021 | 917 | 914 |
| Amount in Year 1 (\$) | 1,509 | -73 | 0.35 | 77 | -0.022 | 917 | 914 |
| Amount in Year 2 (\$) | 1,463 | 54 | 0.56 | 93 | 0.016 | 917 | 914 |
| Amount in Year 3 (\$) | 1,611 | -200* | 0.06 | 108 | -0.058 | 917 | 914 |
| Amount in Year 4 (\$) | 1,539 | -111 | 0.30 | 108 | -0.033 | 917 | 914 |
| Amount in Year 5 (\$) | 1,543 | -115 | 0.28 | 105 | -0.034 | 917 | 914 |
| Total amount during Years 1–5 (\$) | 7,664 | -445 | 0.26 | 397 | -0.028 | 917 | 914 |

Appendix H WI PROMISE Impacts, Benefits, and Costs

| Outcome | Control mean | Impact | <i>p-</i> value | Standard error | Effect size | Treatment group N | Control group N |
|------------------------------------|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| OASDI benefits in years after RA | | | | | | | |
| Received any in Year 1 | 17.9 | 0.2 | 0.79 | 0.6 | 0.007 | 917 | 914 |
| Received any in Year 2 | 18.8 | 0.2 | 0.80 | 0.8 | 0.008 | 917 | 914 |
| Received any in Year 3 | 19.8 | -0.0 | 0.97 | 1.0 | -0.001 | 917 | 914 |
| Received any in Year 4 | 20.8 | -0.4 | 0.74 | 1.2 | -0.014 | 917 | 914 |
| Received any in Year 5 | 21.2 | -0.7 | 0.59 | 1.3 | -0.025 | 917 | 914 |
| Received any in Years 1–5 | 23.3 | -0.4 | 0.76 | 1.2 | -0.012 | 917 | 914 |
| Amount in Year 1 (\$) | 1,783 | 95 | 0.36 | 105 | 0.022 | 917 | 914 |
| Amount in Year 2 (\$) | 1,887 | 67 | 0.60 | 127 | 0.015 | 917 | 914 |
| Amount in Year 3 (\$) | 2,061 | 5 | 0.98 | 154 | 0.001 | 917 | 914 |
| Amount in Year 4 (\$) | 2,123 | -45 | 0.78 | 160 | -0.010 | 917 | 914 |
| Amount in Year 5 (\$) | 2,160 | 0 | 1.00 | 166 | 0.000 | 917 | 914 |
| Total amount during Years 1–5 (\$) | 10,016 | 122 | 0.84 | 610 | 0.006 | 917 | 914 |

Source: SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of WI PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

N = sample size; OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income.

Appendix Table H.16. WI PROMISE: Impact on the parents' health insurance coverage and expenditures (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Either parent is covered by health insurance | 89.1 | 2.7* | 0.07 | 1.5 | 0.187 | 782 | 765 |
| Average monthly Medicaid and Medicare expenditures in the five years after RA (\$) | 738 | 28 | 0.31 | 28 | 0.030 | 917 | 914 |
| Supplementary outcomes | | | | | | | |
| Covered by private health insurance | 25.6 | 1.5 | 0.49 | 2.2 | 0.047 | 783 | 766 |
| Medicaid and Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 88.9 | 1.1 | 0.42 | 1.4 | 0.072 | 917 | 914 |
| Ever enrolled in Year 2 | 87.2 | -1.1 | 0.46 | 1.5 | -0.059 | 917 | 914 |
| Ever enrolled in Year 3 | 84.0 | 0.5 | 0.76 | 1.6 | 0.023 | 917 | 914 |
| Ever enrolled in Year 4 | 81.5 | 0.4 | 0.84 | 1.7 | 0.014 | 917 | 914 |
| Ever enrolled in Year 5 | 79.8 | -0.7 | 0.68 | 1.8 | -0.028 | 917 | 914 |
| Percentage of months enrolled in Years 1–5 | 76.9 | 0.8 | 0.56 | 1.4 | 0.025 | 917 | 914 |
| Average monthly Medicaid and Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 663 | 12 | 0.59 | 22 | 0.013 | 917 | 914 |
| Year 2 (\$) | 697 | 25 | 0.36 | 27 | 0.027 | 917 | 914 |
| Year 3 (\$) | 744 | 36 | 0.30 | 35 | 0.034 | 917 | 914 |
| Year 4 (\$) | 815 | 23 | 0.59 | 42 | 0.019 | 917 | 914 |
| Year 5 (\$) | 770 | 45 | 0.29 | 43 | 0.039 | 917 | 914 |
| Medicaid participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 87.7 | 1.6 | 0.27 | 1.4 | 0.095 | 917 | 914 |
| Ever enrolled in Year 2 | 85.7 | -0.6 | 0.72 | 1.6 | -0.028 | 917 | 914 |
| Ever enrolled in Year 3 | 82.6 | 0.9 | 0.59 | 1.7 | 0.039 | 917 | 914 |
| Ever enrolled in Year 4 | 79.5 | 0.5 | 0.79 | 1.8 | 0.018 | 917 | 914 |
| Ever enrolled in Year 5 | 77.4 | -0.2 | 0.93 | 1.9 | -0.006 | 917 | 914 |
| Percentage of months enrolled in Years 1–5 | 74.1 | 1.4 | 0.33 | 1.4 | 0.042 | 917 | 914 |

| | Control | | | Standard | | Treatment | Control |
|---|---------|--------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p</i> -value | error | Effect size | group N | group N |
| Average monthly Medicaid expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 524 | 3 | 0.89 | 18 | 0.005 | 917 | 914 |
| Year 2 (\$) | 559 | -7 | 0.74 | 22 | -0.012 | 917 | 914 |
| Year 3 (\$) | 580 | 17 | 0.51 | 26 | 0.024 | 917 | 914 |
| Year 4 (\$) | 633 | 15 | 0.65 | 32 | 0.017 | 917 | 914 |
| Year 5 (\$) | 621 | 36 | 0.31 | 35 | 0.040 | 917 | 914 |
| Years 1–5 (\$) | 583 | 13 | 0.58 | 23 | 0.019 | 917 | 914 |
| Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 17.6 | 0.7 | 0.39 | 0.8 | 0.028 | 917 | 914 |
| Ever enrolled in Year 2 | 19.0 | -0.3 | 0.73 | 0.8 | -0.011 | 917 | 914 |
| Ever enrolled in Year 3 | 19.8 | -0.1 | 0.95 | 0.9 | -0.002 | 917 | 914 |
| Ever enrolled in Year 4 | 20.7 | -0.3 | 0.75 | 1.1 | -0.013 | 917 | 914 |
| Ever enrolled in Year 5 | 21.2 | -0.7 | 0.57 | 1.2 | -0.025 | 917 | 914 |
| Percentage of months enrolled in Years 1–5 | 18.9 | -0.1 | 0.92 | 0.8 | -0.002 | 917 | 914 |
| Average monthly Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 139 | 9 | 0.61 | 18 | 0.016 | 917 | 914 |
| Year 2 (\$) | 137 | 32* | 0.08 | 19 | 0.058 | 917 | 914 |
| Year 3 (\$) | 164 | 19 | 0.43 | 24 | 0.029 | 917 | 914 |
| Year 4 (\$) | 182 | 8 | 0.76 | 27 | 0.012 | 917 | 914 |
| Year 5 (\$) | 149 | 10 | 0.68 | 23 | 0.016 | 917 | 914 |
| Years 1–5 (\$) | 154 | 16 | 0.38 | 18 | 0.029 | 917 | 914 |

Source: CMS administrative records and PROMISE five-year survey (non-Medicare/Medicaid outcomes).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of WI PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

CMS = Centers for Medicare & Medicaid Services; N = sample size.

Appendix Table H.17. WI PROMISE: Impact on the parents' economic well-being (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Parents' total income in the past year (\$) | 26,977 | 267 | 0.84 | 1,301 | 0.011 | 757 | 754 |
| Parents' total income during the five calendar years after RA (\$) | 127,022 | 579 | 0.85 | 2,981 | 0.006 | 917 | 914 |
| Supplementary outcomes | | | | | | | |
| Parents' income in calendar years after RA | | | | | | | |
| Year 1 (\$) | 22,065 | 138 | 0.80 | 536 | 0.007 | 917 | 914 |
| Year 2 (\$) | 24,110 | -159 | 0.80 | 629 | -0.008 | 917 | 914 |
| Year 3 (\$) | 25,859 | 147 | 0.83 | 693 | 0.007 | 917 | 914 |
| Year 4 (\$) | 27,314 | -98 | 0.90 | 769 | -0.004 | 917 | 914 |
| Year 5 (\$) | 27,675 | 551 | 0.52 | 852 | 0.023 | 917 | 914 |
| Household receives TANF, SNAP, or housing assistance | 54.5 | -0.5 | 0.83 | 2.5 | -0.013 | 773 | 758 |
| Household income in the past year (\$) | 31,100 | 1,329 | 0.19 | 1,015 | 0.067 | 755 | 742 |

Source: PROMISE five-year survey and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of WI PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

N = sample size; RA = random assignment; SSA = Social Security Administration.

2. Sensitivity analyses

We assessed the sensitivity of the estimated impacts on primary outcomes to methodological choices we incorporated in the main impact estimates. In Appendix Table H.18, we show the impact estimated by the main regression model for each outcome, as well as by alternative models that do not (1) use the survey weights, (2) include covariate adjustment, and (3) use imputed data for outcomes that underwent multiple imputation. The alternative models produced broadly similar results, suggesting that the main model's estimates of program impacts were not sensitive to the choice of estimation method.

We also assessed the extent to which the lack of survey data for some enrollees would influence the estimates of program impacts. In Appendix Table H.19, we compare how the estimated impacts on primary outcomes varied when nonrespondents were included and excluded from analyses of outcomes measured using administrative data. For all outcomes, the impact estimated using the weighted survey respondent sample did not significantly differ from the impact estimated using the administrative analysis sample. The findings suggest that use of the analysis weights minimized the potential for nonresponse bias because the estimated impacts for the survey respondent sample were comparable to those for the full research sample.

Appendix Table H.18. WI PROMISE: Impact on primary outcomes, by estimation approach (values measured at the time of the survey and shown in in percentages, unless otherwise noted)

| Outcome | Main model | No weighting for non- response | No covariate adjustment | No imputation |
|--|------------|--------------------------------------|----------------------------|------------------|
| Enrolled in an educational or training program | -0.1 | -0.0 | 0.4 | n.a. |
| Has a GED, high school diploma, or certificate of completion | 1.6 | 1.7 | 1.3 | n.a. |
| Youth employed in a paid job in the past year | 6.8*** | 6.9*** | 6.2** | 5.2** |
| Youth earnings in the past year (\$) | 668 | 713 | 608 | 167 |
| Youth earnings during the five calendar years after RA (\$) | 887 | n.a. | 699 | n.a. |
| Youth self-determination score (scale: 0 to 100) ^a | -0.4 | -0.5 | -0.2 | n.a. |
| Youth expects to be financially independent at age 25 | 4.4 | 3.6 | 4.3 | n.a. |
| Youth received SSA payments in Year 5 after RA | 1.0 | n.a. | 1.8 | n.a. |
| Youth total SSA payments in Year 5 after RA (\$) | 184 | n.a. | 237 | n.a. |
| Youth total SSA payments during Years 1–5 after RA (\$) | 800 | n.a. | 884 | n.a. |
| Youth covered by any health insurance | 0.9 | 0.7 | 1.2 | n.a. |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 29 | n.a. | 29 | n.a. |
| Youth total income in the past year (\$) | 879** | 941** | 862** | 465 |
| Youth total income during the five calendar years after RA (\$) | 1,987** | n.a. | 1,902** | n.a. |
| Either parent worked for pay in the past year | 1.6 | 2.1 | 2.7 | n.a. |
| Parents' earnings in the past year (\$) | 703 | 944 | 1,391 | 1,320 |
| Parents' earnings during the five calendar years after RA (\$) | 945 | n.a. | 1,492 | n.a. |
| Either parent received SSA payments in Year 5 after RA | -1.2 | n.a. | -3.2 | n.a. |
| Parents' total SSA payments received in Year 5 after RA (\$) | -114 | n.a. | -325 | n.a. |
| Parents' total SSA payments during the five years after RA (\$) | -323 | n.a. | -1,538 | n.a. |
| Parents' total income in the past year (\$) | 267 | 500 | 796 | 1,016 |
| Parents' income during the five calendar years after RA (\$) | 579 | n.a. | -92 | n.a. |
| Either parent is covered by health insurance | 2.7* | 2.4 | 1.9 | n.a. |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 28 | n.a. | 28 | n.a. |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the impact estimates of WI PROMISE, using different modeling approaches. In the main model, we used covariate adjustment and, for outcomes derived from survey data, we weighted statistics to adjust for survey nonresponse and used multiple imputation when an outcome had a

missing value conditional on the value of another variable. In the model with "No weighting for non-response", we followed the main model but did not apply weights to adjust for non-response. In the model with "No covariate adjustment", we followed the main model but did not include covariates. For the model with "No multiple imputation", we followed the main model except that we excluded cases with outcomes that had a missing value conditional on the value of another variable.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

CMS = Centers for Medicare & Medicaid Services; GED = General Educational Development; N = sample size; n.a.= not applicable; RA = random assignment; SSA = Social Security Administration.

Appendix Table H.19. WI PROMISE: Impact on primary outcomes measured using administrative data, including and excluding five-year survey nonrespondents (percentage, unless otherwise noted)

| | Admin | istrative an samples | nalysis | Five-year | | | |
|--|-----------------|----------------------|-----------------|-----------------|---------|-----------------|-----------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | <i>p</i> -value for difference |
| Youth earnings during the five calendar years after RA (\$) | 13,302 | 887 | 0.32 | 12,653 | 961 | 0.31 | 0.94 |
| Youth received SSA payments in Year 5 after RA | 67.5 | 1.0 | 0.62 | 70.9 | 1.9 | 0.38 | 0.66 |
| Youth total SSA payments in Year 5 after RA (\$) | 5,385 | 184 | 0.32 | 5,723 | 177 | 0.38 | 0.97 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 33,377 | 800 | 0.15 | 34,172 | 913 | 0.13 | 0.85 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 814 | 29 | 0.38 | 846 | 24 | 0.52 | 0.89 |
| Youth total income during the five calendar years after RA (\$) | 47,921 | 1,987** | 0.02 | 48,273 | 2,200** | 0.02 | 0.82 |
| Parents' earnings during the five calendar years after RA (\$) | 107,697 | 945 | 0.76 | 110,228 | 313 | 0.93 | 0.85 |
| Either parent received SSA payments in Year 5 after RA | 35.1 | -1.2 | 0.41 | 36.0 | -2.4 | 0.13 | 0.42 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,703 | -114 | 0.55 | 3,847 | -224 | 0.29 | 0.59 |
| Parents' total SSA payments during the five years after RA (\$) | 17,680 | -323 | 0.66 | 17,890 | -566 | 0.49 | 0.75 |
| Parents' total income during the five calendar years after RA (\$) | 127,022 | 579 | 0.85 | 129,802 | -248 | 0.94 | 0.79 |
| Parents' average monthly Medicaid and Medicare expenditures in years after RA in Years 1-5 after RA (\$) | 738 | 28 | 0.31 | 757 | -1 | 0.97 | 0.30 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of WI PROMISE for administrative analysis samples and five-year survey respondents. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For the sample of five-year survey respondents, we weighted the statistics to adjust for survey nonresponse, applying youth weights for youths' outcomes and parent weights for parents' outcomes.

*/**/*** Impact estimate is significantly different from zero (p-value is less than .10/.05/.01) using a two-tailed t-test.

+/++/+++ Impact estimates for the two samples are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

CMS = Centers for Medicare & Medicaid Services; N = sample size; RA = random assignment. SSA = Social Security Administration.

3. Subgroup impact estimates

We estimated the five-year impacts for key subgroups of evaluation enrollees to understand whether the impacts of WI PROMISE differed by enrollee characteristics. We focused on subgroups defined by the following baseline characteristics of youth: age (ages 14 and 15, and age 16); sex (females and males); whether a youth's parent received SSA payments at the time of RA (yes or no); primary impairment (intellectual or developmental disabilities, other mental impairments, and other disabilities); and whether the survey respondent completed the five-year survey before or after the onset of the COVID-19 pandemic (yes or no). Appendix Tables H.20–H.25 present the subgroup impact estimates.

Appendix Table H.20. WI PROMISE: Impacts on primary outcomes, by youth's age (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | | | Age 14 and | d 15 | | | | Age 16 | | | <i>p</i> -value |
|---|-----------------|---------|-----------------|----------------------|--------------------|-----------------|--------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Youth enrolled in an educational or training program | 42.4 | 0.9 | 0.77 | 523 | 495 | 22.3 | -2.1 | 0.58 | 244 | 259 | 0.53 |
| Youth has a GED, high school diploma, or certificate of completion | 62.9 | 2.4 | 0.43 | 537 | 519 | 75.3 | 0.0 | 1.00 | 255 | 266 | 0.62 |
| Youth employed in a paid job in the past year | 49.9 | 6.6** | 0.03 | 541 | 524 | 51.8 | 7.1 | 0.11 | 257 | 269 | 0.92 |
| Youth earnings in the past year (\$) | 4,240 | 1,053** | 0.05 | 541 | 524 | 6,169 | -87 | 0.93 | 257 | 269 | 0.29 |
| Youth earnings during the five calendar years after RA (\$) | 11,294 | 1,149 | 0.23 | 633 | 617 | 17,066 | 396 | 0.83 | 317 | 329 | 0.72 |
| Youth self-determination score (scale: 0 to 100) | 79.1 | -1.2 | 0.26 | 339 | 334 | 76.7 | 1.1 | 0.46 | 169 | 179 | 0.20 |
| Youth expects to be financially independent at age 25 | 60.6 | 3.9 | 0.29 | 348 | 354 | 54.2 | 5.3 | 0.32 | 169 | 183 | 0.83 |
| Youth received SSA payments in Year 5 after RA | 71.6 | 0.4 | 0.87 | 633 | 617 | 59.9 | 2.2 | 0.55 | 317 | 329 | 0.68 |
| Youth total SSA payments in Year 5 after RA (\$) | 5,652 | 81 | 0.72 | 633 | 617 | 4,886 | 383 | 0.26 | 317 | 329 | 0.45 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 34,086 | 329 | 0.63 | 633 | 617 | 32,047 | 1,713* | 0.08 | 317 | 329 | 0.25 |
| Youth covered by any health insurance | 87.4 | 0.2 | 0.92 | 517 | 512 | 85.7 | 2.2 | 0.46 | 244 | 260 | 0.57 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 780 | 58 | 0.14 | 633 | 617 | 878 | -28 | 0.66 | 317 | 329 | 0.24 |
| Youth total income in the past year (\$) | 10,009 | 1,247** | 0.01 | 541 | 524 | 11,415 | 157 | 0.85 | 257 | 269 | 0.26 |
| Youth total income during the five calendar years after RA (\$) | 46,690 | 1,719* | 0.09 | 633 | 617 | 50,232 | 2,516 | 0.14 | 317 | 329 | 0.68 |

| | | | Age 14 and | d 15 | | | | Age 16 | | | <i>p</i> -value |
|--|-----------------|--------|-----------------|----------------------|--------------------|-----------------|--------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Either parent worked for pay in the past year | 69.2 | 3.8 | 0.12 | 532 | 511 | 70.7 | -2.8 | 0.45 | 253 | 263 | 0.13 |
| Parents' earnings in the past year (\$) | 22,697 | 1,599 | 0.30 | 533 | 512 | 23,947 | -1,054 | 0.65 | 253 | 263 | 0.33 |
| Parents' earnings during the five calendar years after RA (\$) | 107,414 | 1,833 | 0.62 | 609 | 596 | 108,226 | -776 | 0.89 | 308 | 318 | 0.69 |
| Either parent received SSA payments in Year 5 after RA | 34.9 | -0.8 | 0.64 | 609 | 596 | 35.5 | -1.9 | 0.46 | 308 | 318 | 0.73 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,677 | -136 | 0.55 | 609 | 596 | 3,752 | -73 | 0.83 | 308 | 318 | 0.88 |
| Parents' total SSA payments during the five years after RA (\$) | 17,562 | -565 | 0.49 | 609 | 596 | 17,900 | 145 | 0.91 | 308 | 318 | 0.65 |
| Parents' total income in the past year (\$) | 26,825 | 640 | 0.67 | 512 | 497 | 27,262 | -459 | 0.84 | 245 | 257 | 0.68 |
| Parents' total income during the five calendar years after RA (\$) | 126,626 | 1,247 | 0.73 | 609 | 596 | 127,764 | -714 | 0.89 | 308 | 318 | 0.76 |
| Either parent is covered by health insurance | 88.7 | 3.1* | 0.09 | 531 | 504 | 89.9 | 1.8 | 0.48 | 251 | 261 | 0.70 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 733 | 36 | 0.29 | 609 | 596 | 747 | 14 | 0.77 | 308 | 318 | 0.72 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of WI PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

CMS = Centers for Medicare & Medicaid Services; GED = General Educational Development; N = sample size; RA = random assignment; SSA = Social Security Administration.

Appendix Table H.21. WI PROMISE: Impacts on primary outcomes, by youth's sex (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | | | Male | | | | | Female | | | <i>p</i> -value |
|---|-----------------|--------|-----------------|----------------------|--------------------|-----------------|--------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p-</i> value | Treatment group N | Control group N | Control mean | Impact | <i>p-</i> value | Treatment group N | Control group N | for subgroup difference |
| Youth enrolled in an educational or training program | 32.8 | 1.5 | 0.61 | 514 | 497 | 40.6 | -3.3 | 0.45 | 253 | 257 | 0.35 |
| Youth has a GED, high school diploma, or certificate of completion | 66.0 | 1.9 | 0.52 | 533 | 518 | 69.4 | 1.0 | 0.80 | 259 | 267 | 0.86 |
| Youth employed in a paid job in the past year | 53.3 | 5.3* | 0.09 | 536 | 524 | 45.3 | 9.7** | 0.03 | 262 | 269 | 0.41 |
| Youth earnings in the past year (\$) | 5,242 | 714 | 0.25 | 536 | 524 | 4,253 | 575 | 0.40 | 262 | 269 | 0.88 |
| Youth earnings during the five calendar years after RA (\$) | 13,960 | 672 | 0.55 | 636 | 631 | 11,983 | 1,319 | 0.35 | 314 | 315 | 0.72 |
| Youth self-determination score (scale: 0 to 100) | 78.7 | -1.1 | 0.30 | 322 | 324 | 77.4 | 0.9 | 0.58 | 186 | 189 | 0.29 |
| Youth expects to be financially independent at age 25 | 60.3 | 3.8 | 0.31 | 332 | 338 | 55.1 | 5.4 | 0.29 | 185 | 199 | 0.80 |
| Youth received SSA payments in Year 5 after RA | 66.6 | 1.0 | 0.70 | 636 | 631 | 69.5 | 1.1 | 0.75 | 314 | 315 | 0.98 |
| Youth total SSA payments in Year 5 after RA (\$) | 5,195 | 223 | 0.33 | 636 | 631 | 5,766 | 105 | 0.75 | 314 | 315 | 0.77 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 32,907 | 1,004 | 0.14 | 636 | 631 | 34,320 | 391 | 0.68 | 314 | 315 | 0.60 |
| Youth covered by any health insurance | 83.1 | 3.9* | 0.08 | 507 | 513 | 94.2 | -5.1** | 0.04 | 254 | 259 | 0.01††† |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 718 | 69* | 0.08 | 636 | 631 | 1,007 | -50 | 0.40 | 314 | 315 | 0.10† |
| Youth income in the past year (\$) | 10,682 | 991* | 0.08 | 536 | 524 | 10,128 | 655 | 0.30 | 262 | 269 | 0.69 |
| Youth total income during the five calendar years after RA (\$) | 47,974 | 2,066* | 0.06 | 636 | 631 | 47,816 | 1,828 | 0.20 | 314 | 315 | 0.89 |
| Either parent worked for pay in the past year | 69.4 | 5.2** | 0.04 | 528 | 516 | 70.4 | -5.7 | 0.12 | 257 | 258 | 0.01†† |

| | | | Male | | | | | Female | | | <i>p-</i> value |
|---|-----------------|--------|-----------------|----------------------|--------------------|-----------------|--------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Parents' earnings in the past year (\$) | 23,487 | 1,488 | 0.35 | 528 | 516 | 22,420 | -879 | 0.68 | 258 | 259 | 0.36 |
| Parents' earnings during the five calendar years after RA (\$) | 109,629 | 1,219 | 0.75 | 615 | 612 | 103,781 | 388 | 0.94 | 302 | 302 | 0.90 |
| Either parent received SSA payments in Year 5 after RA | 33.7 | -2.3 | 0.21 | 615 | 612 | 38.1 | 1.0 | 0.67 | 302 | 302 | 0.27 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,556 | -339 | 0.14 | 615 | 612 | 4,002 | 342 | 0.31 | 302 | 302 | 0.09† |
| Parents' total SSA payments during the five years after RA (\$) | 17,072 | -1,151 | 0.20 | 615 | 612 | 18,911 | 1,361 | 0.24 | 302 | 302 | 0.09† |
| Parents' income in the past year (\$) | 27,376 | 703 | 0.66 | 508 | 503 | 26,180 | -614 | 0.77 | 249 | 251 | 0.61 |
| Parents' income during the five calendar years after RA (\$) | 128,263 | 25 | 0.99 | 615 | 612 | 124,508 | 1,704 | 0.74 | 302 | 302 | 0.79 |
| Either parent is covered by health insurance | 89.0 | 4.0** | 0.02 | 524 | 511 | 89.3 | -0.1 | 0.96 | 258 | 254 | 0.19 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 739 | 23 | 0.49 | 615 | 612 | 734 | 39 | 0.42 | 302 | 302 | 0.79 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of WI PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table H.22. WI PROMISE: Impacts on primary outcomes, by whether parent received SSA payments before RA (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Ν | lo parent r | eceived S | SA payment | S | At leas | st one par | ent receiv | ed SSA payı | ments | <i>p</i> -value |
|---|-----------------|-------------|-----------------|----------------------|--------------------|-----------------|------------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p-</i> value | Treatment group N | Control group N | for subgroup difference |
| Youth enrolled in an educational or training program | 34.9 | 2.1 | 0.47 | 535 | 502 | 34.7 | -4.6 | 0.30 | 202 | 226 | 0.20 |
| Youth has a GED, high school diploma, or certificate of completion | 69.7 | -0.3 | 0.91 | 555 | 529 | 62.1 | 4.9 | 0.28 | 207 | 229 | 0.32 |
| Youth employed in a paid job in the past year | 53.4 | 6.3** | 0.04 | 560 | 535 | 43.5 | 10.4** | 0.03 | 208 | 231 | 0.47 |
| Youth earnings in the past year (\$) | 5,267 | 790 | 0.18 | 560 | 535 | 4,253 | 314 | 0.70 | 208 | 231 | 0.64 |
| Youth earnings during the five calendar years after RA (\$) | 12,901 | 1,556 | 0.13 | 668 | 640 | 13,762 | 12 | 0.99 | 249 | 274 | 0.45 |
| Youth self-determination score (scale: 0 to 100) | 79.2 | -0.9 | 0.42 | 363 | 336 | 76.9 | 0.6 | 0.72 | 130 | 159 | 0.45 |
| Youth expects to be financially independent at age 25 | 59.3 | 5.1 | 0.16 | 368 | 357 | 57.6 | 3.2 | 0.58 | 134 | 162 | 0.77 |
| Youth received SSA payments in Year 5 after RA | 66.6 | 1.0 | 0.70 | 668 | 640 | 69.3 | 0.4 | 0.92 | 249 | 274 | 0.90 |
| Youth total SSA payments in Year 5 after RA (\$) | 5,166 | 262 | 0.23 | 668 | 640 | 5,819 | 12 | 0.97 | 249 | 274 | 0.56 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 32,005 | 1,027 | 0.13 | 668 | 640 | 36,057 | 209 | 0.84 | 249 | 274 | 0.50 |
| Youth covered by any health insurance | 87.0 | 2.1 | 0.30 | 537 | 521 | 85.8 | -0.8 | 0.82 | 195 | 224 | 0.47 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 785 | 33 | 0.40 | 668 | 640 | 820 | 26 | 0.67 | 249 | 274 | 0.92 |
| Youth income in the past year (\$) | 10,673 | 1,059* | 0.05 | 560 | 535 | 10,189 | 474 | 0.54 | 208 | 231 | 0.53 |
| Youth total income during the five calendar years after RA (\$) | 46,097 | 2,969*** | 0.00 | 668 | 640 | 51,206 | 455 | 0.78 | 249 | 274 | 0.19 |

| | N | lo parent r | eceived S | SA payment | S | At lea | st one par | ent receiv | ed SSA pay | ments | <i>p</i> -value |
|--|-----------------|-------------|-----------------|----------------------|--------------------|-----------------|------------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Either parent worked for pay in the past year | 82.2 | 2.5 | 0.28 | 545 | 527 | 39.8 | -2.1 | 0.66 | 211 | 226 | 0.38 |
| Parents' earnings in the past year (\$) | 29,257 | 903 | 0.60 | 546 | 527 | 8,683 | -415 | 0.80 | 211 | 227 | 0.58 |
| Parents' earnings during the five calendar years after RA (\$) | 132,504 | 315 | 0.94 | 668 | 640 | 49,752 | 2,473 | 0.56 | 249 | 274 | 0.71 |
| Either parent received SSA payments in Year 5 after RA | 11.6 | -1.3 | 0.46 | 668 | 640 | 90.1 | -0.7 | 0.80 | 249 | 274 | 0.84 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 1,294 | -248 | 0.23 | 668 | 640 | 9,330 | 214 | 0.62 | 249 | 274 | 0.33 |
| Parents' total SSA payments during the five years after RA (\$) | 4,282 | -667 | 0.36 | 668 | 640 | 48,973 | 514 | 0.77 | 249 | 274 | 0.54 |
| Parents' income in the past year (\$) | 30,706 | 446 | 0.79 | 546 | 527 | 18,238 | -207 | 0.90 | 211 | 227 | 0.78 |
| Parents' income during the five calendar years after RA (\$) | 137,643 | -497 | 0.90 | 668 | 640 | 102,214 | 3,190 | 0.45 | 249 | 274 | 0.52 |
| Either parent is covered by health insurance | 89.4 | 2.7 | 0.13 | 545 | 523 | 92.1 | 2.0 | 0.44 | 209 | 221 | 0.80 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 463 | 1 | 0.98 | 668 | 640 | 1,378 | 97 | 0.20 | 249 | 274 | 0.22 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of WI PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table H.23. WI PROMISE: Impacts on primary outcomes, by youth's primary impairment (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | | tellectual mental dis | | Other m | ental impa | airments | Oth | er impairn | nents | <i>p</i> -value for |
|---|--------------|--------------------------|-----------------|-----------------|------------|-----------------|-----------------|------------|-----------------|------------------------|
| Outcome | Control mean | Impact | <i>p-</i> value | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | subgroup difference |
| Youth enrolled in an educational or training program | 44.8 | -4.4 | 0.27 | 24.8 | 1.3 | 0.71 | 42.7 | 6.1 | 0.31 | 0.29 |
| Youth has a GED, high school diploma, or certificate of completion | 69.6 | 0.0 | 1.00 | 62.8 | 4.7 | 0.21 | 73.2 | -2.7 | 0.61 | 0.47 |
| Youth employed in a paid job in the past year | 49.0 | 7.0* | 0.09 | 55.3 | 4.0 | 0.29 | 41.1 | 12.9** | 0.03 | 0.45 |
| Youth earnings in the past year (\$) | 3,903 | 5 | 0.99 | 5,711 | 1,196 | 0.13 | 4,962 | 759 | 0.51 | 0.49 |
| Youth earnings during the five calendar years after RA (\$) | 12,172 | -468 | 0.72 | 14,049 | 2,867** | 0.04 | 13,850 | -1,168 | 0.59 | 0.13 |
| Youth self-determination score (scale: 0 to 100) | 78.4 | -1.4 | 0.31 | 77.9 | -0.8 | 0.57 | 78.8 | 3.1 | 0.14 | 0.18 |
| Youth expects to be financially independent at age 25 | 55.9 | 1.9 | 0.70 | 62.3 | 2.5 | 0.58 | 53.1 | 15.0** | 0.04 | 0.28 |
| Youth received SSA payments in Year 5 after RA | 76.1 | 2.0 | 0.53 | 57.3 | 2.2 | 0.51 | 75.8 | -3.8 | 0.41 | 0.52 |
| Youth total SSA payments in Year 5 after RA (\$) | 6,281 | 237 | 0.43 | 4,333 | 261 | 0.37 | 6,207 | -117 | 0.79 | 0.74 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 35,893 | 579 | 0.50 | 31,610 | 777 | 0.37 | 32,438 | 1,416 | 0.31 | 0.88 |
| Youth covered by any health insurance | 89.2 | 2.5 | 0.30 | 81.0 | 1.0 | 0.75 | 96.9 | -2.9 | 0.27 | 0.30 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 811 | 51 | 0.35 | 696 | -9 | 0.86 | 1,145 | 74 | 0.40 | 0.59 |
| Youth income in the past year (\$) | 10,456 | 208 | 0.71 | 10,189 | 1,524** | 0.05 | 11,388 | 702 | 0.50 | 0.38 |
| Youth total income during the five calendar years after RA (\$) | 50,126 | 272 | 0.83 | 46,072 | 4,054*** | 0.00 | 47,920 | 585 | 0.77 | 0.12 |
| Either parent worked for pay in the past year | 67.3 | 5.6* | 0.09 | 69.0 | -1.9 | 0.56 | 77.3 | 1.0 | 0.82 | 0.26 |

| | Intellectual or developmental disabilities | | | Other mental impairments | | | Oth | er impairn | nents | <i>p</i> -value for |
|--|--|----------|-----------------|--------------------------|--------|-----------------|-----------------|------------|-----------------|---------------------|
| Outcome | Control mean | Impact | <i>p-</i> value | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | subgroup difference |
| Parents' earnings in the past year (\$) | 19,884 | 5,931*** | 0.00 | 22,838 | -2,093 | 0.27 | 31,542 | -4,202 | 0.23 | 0.00††† |
| Parents' earnings during the five calendar years after RA (\$) | 103,869 | 5,105 | 0.31 | 98,753 | -2,427 | 0.57 | 142,286 | 547 | 0.95 | 0.52 |
| Either parent received SSA payments in Year 5 after RA | 36.9 | -0.6 | 0.79 | 35.2 | -0.6 | 0.79 | 30.6 | -4.1 | 0.19 | 0.61 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,717 | 190 | 0.54 | 3,787 | -275 | 0.34 | 3,433 | -382 | 0.39 | 0.44 |
| Parents' total SSA payments during the five years after RA (\$) | 18,796 | 454 | 0.70 | 17,395 | -596 | 0.58 | 15,856 | -1,379 | 0.39 | 0.62 |
| Parents' income in the past year (\$) | 23,718 | 5,241*** | 0.01 | 27,039 | -2,719 | 0.14 | 34,438 | -3,337 | 0.34 | 0.01††† |
| Parents' income during the five calendar years after RA (\$) | 124,097 | 5,983 | 0.22 | 117,864 | -3,253 | 0.44 | 160,095 | -1,448 | 0.86 | 0.34 |
| Either parent is covered by health insurance | 88.0 | 3.2 | 0.17 | 90.3 | 3.1 | 0.15 | 88.4 | 0.2 | 0.97 | 0.76 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 765 | 1 | 0.99 | 748 | 56 | 0.18 | 644 | 18 | 0.75 | 0.66 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of WI PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table H.24. WI PROMISE: Sample sizes for primary outcomes, by youth's primary impairment

| | | [·] developmental bilities | Other menta | l impairments | Other impa | airments |
|---|----------------------|--|----------------------|--------------------|--------------------|----------------------|
| Outcome | Treatment group N | Control group N | Treatment group N | Control group N | Control group N | Treatment group N |
| Youth enrolled in an educational or training program | 302 | 292 | 320 | 340 | 145 | 122 |
| Youth has a GED, high school diploma, or certificate of completion | 316 | 298 | 328 | 355 | 148 | 132 |
| Youth employed in a paid job in the past year | 317 | 301 | 332 | 360 | 149 | 132 |
| Youth earnings in the past year (\$) | 317 | 301 | 332 | 360 | 149 | 132 |
| Youth earnings during the five calendar years after RA (\$) | 366 | 360 | 406 | 429 | 178 | 157 |
| Youth self-determination score (scale: 0 to 100) | 200 | 204 | 218 | 229 | 90 | 80 |
| Youth expects to be financially independent at age 25 | 205 | 206 | 222 | 244 | 90 | 87 |
| Youth received SSA payments in Year 5 after RA | 366 | 360 | 406 | 429 | 178 | 157 |
| Youth total SSA payments in Year 5 after RA (\$) | 366 | 360 | 406 | 429 | 178 | 157 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 366 | 360 | 406 | 429 | 178 | 157 |
| Youth covered by any health insurance | 303 | 292 | 311 | 350 | 147 | 130 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 366 | 360 | 406 | 429 | 178 | 157 |
| Youth income in the past year (\$) | 317 | 301 | 332 | 360 | 149 | 132 |
| Youth total income during the five calendar years after RA (\$) | 366 | 360 | 406 | 429 | 178 | 157 |
| Either parent worked for pay in the past year | 313 | 305 | 323 | 342 | 149 | 127 |
| Parents' earnings in the past year (\$) | 313 | 306 | 324 | 342 | 149 | 127 |
| Parents' earnings during the five calendar years after RA (\$) | 351 | 347 | 401 | 420 | 165 | 147 |
| Either parent received SSA payments in Year 5 after RA | 351 | 347 | 401 | 420 | 165 | 147 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 351 | 347 | 401 | 420 | 165 | 147 |

| | | ⁻ developmental bilities | Other menta | l impairments | Other impairments | |
|---|----------------------|--|----------------------|--------------------|--------------------|----------------------|
| Outcome | Treatment group N | Control group N | Treatment group N | Control group N | Control group N | Treatment group N |
| Parents' total SSA payments during the five years after RA (\$) | 351 | 347 | 401 | 420 | 165 | 147 |
| Parents' income in the past year (\$) | 299 | 294 | 321 | 338 | 137 | 122 |
| Parents' income during the five calendar years after RA (\$) | 351 | 347 | 401 | 420 | 165 | 147 |
| Either parent is covered by health insurance | 311 | 300 | 323 | 339 | 148 | 126 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 351 | 347 | 401 | 420 | 165 | 147 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the sample size by subgroup for the estimates reported in Appendix Table H.23.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table H.25. WI PROMISE: Impacts on primary outcomes, by whether the survey respondent completed the five-year survey before or during the pandemic (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | | Bef | ore pande | emic | | | Dur | ring pande | mic | | <i>p</i> -value |
|--|-----------------|---------|-----------------|----------------------|--------------------|-----------------|--------|-----------------|----------------------|-----------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Youth enrolled in an educational or training program | 31.4 | 2.7 | 0.54 | 211 | 211 | 36.9 | -1.1 | 0.70 | 553 | 542 | 0.47 |
| Youth has a GED, high school diploma, or certificate of completion | 63.3 | 7.5* | 0.09 | 219 | 219 | 68.7 | -0.6 | 0.84 | 570 | 565 | 0.12 |
| Youth employed in a paid job in the past year | 49.8 | 13.1*** | 0.01 | 219 | 220 | 50.9 | 4.8 | 0.11 | 575 | 572 | 0.14 |
| Youth earnings in the past year (\$) | 4,270 | 1,795* | 0.05 | 219 | 220 | 5,148 | 287 | 0.60 | 575 | 572 | 0.16 |
| Youth self-determination score (scale: 0 to 100) | 77.8 | -0.8 | 0.65 | 164 | 172 | 78.4 | -0.2 | 0.82 | 344 | 341 | 0.79 |
| Youth expects to be financially independent at age 25 | 51.9 | 10.2* | 0.06 | 167 | 179 | 61.5 | 1.6 | 0.67 | 350 | 358 | 0.19 |
| Youth covered by any health insurance | 84.0 | 2.9 | 0.38 | 205 | 215 | 87.9 | 0.1 | 0.95 | 556 | 557 | 0.46 |
| Youth income in the past year (\$) | 10,297 | 1,516* | 0.08 | 219 | 220 | 10,571 | 689 | 0.17 | 575 | 572 | 0.41 |
| Either parent worked for pay in the past year | 69.1 | 1.6 | 0.68 | 220 | 217 | 69.9 | 1.6 | 0.52 | 564 | 557 | 1.00 |
| Parents' earnings in the past year (\$) | 23,616 | 1,551 | 0.54 | 220 | 217 | 22,946 | 410 | 0.79 | 565 | 558 | 0.69 |
| Parents' income in the past year (\$) | 27,130 | 1,527 | 0.53 | 218 | 209 | 26,920 | -212 | 0.89 | 538 | 545 | 0.53 |
| Either parent is covered by health insurance | 88.1 | 2.4 | 0.40 | 220 | 214 | 89.5 | 2.7 | 0.11 | 561 | 551 | 0.93 |

Source: PROMISE five-year surveys.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of WI PROMISE on outcomes derived from survey data. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. We weighted statistics to adjust for survey nonresponse. We defined before the pandemic as before March 13, 2020.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Impact estimates for subgroups are significantly different from each other (p-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size.

C. Findings from the benefit-cost analysis

In this section, we present findings from the benefit-cost analysis of WI PROMISE. First, we present benefits and costs estimated through the main model. Second, we present the results of sensitivity analyses. Third, we present the projected accrual of net benefits beyond the five-year evaluation period.

1. Benefit-cost estimates

Appendix Table H.26 provides estimates of the program's benefits and indirect costs, the costs of program components, and benefit-cost statistics estimated using the main model as described in Appendix B.

| | | Fe | ederal govern | iment | State and local | |
|---|---|------------|---------------|---|--|--|
| Benefit or cost measure | PROMISE youth and families (A) | SSA (B) | ED (C) | Federal government as a whole ^a (D) | government, including PROMISE partners (E) | All key stakeholders (F = A + D + E) |
| Panel 1: Quantitative outcome measures | | | | | | |
| Youth outcomes | | | | | | |
| Earnings | 932 | 0 | 0 | 0 | 0 | 932 |
| Fringe benefits | 236 | 0 | 0 | 0 | 0 | 236 |
| Income, payroll, and sales taxes | -168 | 116 | 0 | 148 | 20 | 0 |
| Work-related and child care costs | -111 | 0 | 0 | 0 | 0 | -111 |
| SSI benefits | 885 | -885 | 0 | -885 | 0 | 0 |
| OASDI benefits | -52 | 52 | 0 | 52 | 0 | 0 |
| SSI administrative costs | 0 | -69 | 0 | -69 | 0 | -69 |
| SSDI administrative costs | 0 | 1 | 0 | 1 | 0 | 1 |
| Medicaid and Medicare expenditures and administrative costs | 1,790 | 0 | 0 | -1,054 | -889 | -152 |
| Education-related costs | -69 | 0 | 0 | 0 | 0 | -69 |
| Incarceration | 0 | 0 | 0 | 0 | 1,486 | 1,486 |
| Parent outcomes | | | | | | |
| Earnings | 952 | 0 | 0 | 0 | 0 | 952 |
| Fringe benefits | 241 | 0 | 0 | 0 | 0 | 241 |
| Income, payroll, and sales taxes | -217 | 118 | 0 | 151 | 66 | 0 |
| Work-related and child care costs | -165 | 0 | 0 | 0 | 0 | -165 |
| SSI benefits | -462 | 462 | 0 | 462 | 0 | 0 |
| OASDI benefits | 138 | -138 | 0 | -138 | 0 | 0 |
| SSI administrative costs | 0 | 36 | 0 | 36 | 0 | 36 |
| SSDI administrative costs | 0 | -3 | 0 | -3 | 0 | -3 |
| Medicaid and Medicare expenditures and administrative costs | 1,768 | 0 | 0 | -1,574 | -344 | -150 |

Appendix Table H.26. WI PROMISE: Benefits and costs (\$) over the five-year evaluation time period, by accounting perspective

| | | Fe | ederal govern | ment | State and local | |
|--|---|------------|---------------|---|--|--|
| Benefit or cost measure | PROMISE youth and families (A) | SSA (B) | ED (C) | Federal government as a whole ^a (D) | government, including PROMISE partners (E) | All key stakeholders (F = A + D + E) |
| Household outcomes | | | | | | |
| TANF, SNAP, housing assistance, and related administrative costs | 637 | 0 | 0 | -510 | -192 | -65 |
| Total | 6,334 | -309 | 0 | -3,381 | 147 | 3,100 |
| Panel 2: Costs of program components | | | | | | |
| Program administration | 0 | 0 | -5,603 | -5,603 | 0 | -5,603 |
| Employment services | 0 | 0 | -2,991 | -2,991 | -340 | -3,331 |
| Education services | 0 | 0 | -450 | -450 | 0 | -450 |
| Case management services | 0 | 0 | -4,056 | -4,056 | 0 | -4,056 |
| Financial and benefits counseling | 0 | 0 | -1,402 | -1,402 | 0 | -1,402 |
| Parent training and information services | 0 | 0 | -4,032 | -4,032 | 0 | -4,032 |
| Youth self-determination services | 0 | 0 | -494 | -494 | 0 | -494 |
| Total | 0 | 0 | -19,029 | -19,029 | -340 | -19,369 |
| Panel 3: Benefit-cost statistics | | | | | | |
| Net benefits (benefits minus costs) | 6,334 | -309 | -19,029 | -22,410 | -193 | -16,269 |
| Net benefit ratio ^b | n.a. | n.a. | 0 | -0.18 | 0.43 | 0.16 |

Source: See Appendix Table B.4 for details on the sources and imputation methods for each benefit or cost component.

Note: To construct each component of the benefit-cost analysis, we used the estimated impacts on key outcomes (regardless of whether they were statistically significant), or imputation methods that combined the impact estimates with data from external sources. To construct program costs, we used data from program administrative records, financial documents, staff activity logs, and staff interviews. All benefits and costs are dollars per treatment group family over five years and are inflation-adjusted to 2020 dollars and discounted to 2020 present value.

^a The perspective of the federal government as a whole incorporates the perspectives of SSA, ED, and other federal agencies that might experience benefits or costs because of PROMISE.

^b Calculated for all key stakeholders as the sum of all quantitative measures in Panel 1, which include benefits and indirect costs, divided by the program costs.

ED = U.S. Department of Education; SNAP = Supplemental Nutrition Assistance Program; SSA = Social Security Administration; SSDI = Social Security Disability Insurance; SSI = Supplemental Security Income; TANF = Temporary Assistance for Needy Families.

2. Sensitivity analyses

As noted in Appendix B, we conducted three analyses to assess the sensitivity of the benefit-cost estimates to changes in the underlying assumptions and methodological choices. First, we sampled with replacement from the study population 1,000 times to create 1,000 random samples with an equal size as the true sample. For each sample, we calculated the net benefit for each accounting perspective. In Appendix Table H.27, we show the sampling distribution of the net benefit estimates from the perspective of the different stakeholders. The estimated net benefits for all key stakeholders were negative across the entire distribution, suggesting that the main conclusion (that WI PROMISE did not generate net benefit estimate for all key stakeholders) is robust to sampling variability. The confidence interval on the net benefit estimate for all key stakeholders (-\$16,269) ranged from -\$23,686 (the 2.5th percentile) to -\$9,009 (the 97.5th percentile).

Second, we recalculated the net benefits using only the impact estimates that were significant at the 10 percent level (Appendix Table H.28). From the perspective of all stakeholders, the net benefit was within 19 percent of the estimate from the main analysis and continued to be negative and sizeable.

Appendix Table H.28 shows whether the benefit-cost results were sensitive to the assumptions we used to estimate some of the individual components. From the perspective of all key stakeholders, net benefits under the alternative assumptions were always within 14 percent of the net benefits estimated under the main analysis, and net benefits were sizeable and negative under each scenario. For the most part, net benefits were not sensitive to alterative assumptions. However, there were some exceptions for particular stakeholders. First, the net benefit for youth and families fell from \$6,334 under the main model to \$856 in the model that includes only statistically significant estimates. This difference between the two net benefits estimates were driven by sizeable earnings estimates for youth that were not statistically significant. Second, the net benefit for state and local governments increased from -\$193 to \$1,809 when we used a higher value for incarceration costs. Taken together, these results suggest that the main conclusion for all key stakeholders is robust, but the conclusions for two of the perspectives are sensitive to the assumptions we used.

| Estimate of net benefit | | | Federal governm | ent | State and local | |
|----------------------------|-------------------------------|--------|-----------------|--------------------------------------|---|-------------------------|
| | PROMISE youth and families | SSA | ED | Federal government as a wholeª | government, including PROMISE partners | All key stakeholders |
| Original estimate | 6,334 | -309 | -19,029 | -22,410 | -193 | -16,269 |
| Min | -4,618 | -4,762 | -19,165 | -31,570 | -5,820 | -28,049 |
| 2.5th percentile | -909 | -2,769 | -19,106 | -28,168 | -3,042 | -23,686 |
| 25th percentile | 3,741 | -1,148 | -19,057 | -24,437 | -1,128 | -18,883 |
| 50th percentile | 6,482 | -283 | -19,030 | -22,465 | -214 | -16,323 |
| 75th percentile | 8,837 | 578 | -19,004 | -20,450 | 678 | -13,658 |
| 97.5th percentile | 13,583 | 1,982 | -18,949 | -16,762 | 2,490 | -9,009 |
| Max | 20,548 | 3,933 | -18,872 | -12,774 | 3,631 | -4,120 |

Appendix Table H.27. WI PROMISE: Sensitivity of net benefits to sampling variability

Source: See Appendix Table B.4 for details on the sources and methods for the net-benefit calculation.

Note: We quantified uncertainty in the estimated net benefits by constructing non-parametric bootstrap confidence intervals. We sampled with replacement from the study population 1,000 times and then re-estimated all cost and benefit parameters for these 1,000 random samples. We then calculated the net benefits for each bootstrap sample. The 2.5th percentile and 97.5th percentile of the resulting values represent the 95 percent confidence interval of the net benefit estimate.

| | | F | ederal governr | nent | State and local | |
|---|--------------------------------------|-----------------------|----------------|---|--|--|
| Assumption | PROMISE youth and families (A) | and families SSA ED a | | Federal government as a whole ^a (D) | government, including PROMISE partners (E) | All key stakeholders (F = A + D + E) |
| Main benefit-cost analysis model | 6,334 | -309 | -19,029 | -22,410 | -193 | -16,269 |
| Excluded fringe benefits | 5,857 | -309 | -19,029 | -22,410 | -193 | -16,746 |
| Excluded education tuition costs | 6,380 | -309 | -19,029 | -22,410 | -193 | -16,223 |
| Used higher incarceration costs ^b | 6,334 | -309 | -19,029 | -22,410 | 1,809 | -14,266 |
| Used a fixed work-related cost measure (non-child care) ^c | 5,386 | -309 | -19,029 | -22,410 | -193 | -17,217 |
| Used a low discount rate ^d | 6,106 | -283 | -19,029 | -22,259 | -158 | -16,311 |
| Used a high discount rate ^d | 6,536 | -332 | -19,029 | -22,543 | -224 | -16,231 |
| Used only statistically significant estimates in the calculation ^e | 856 | 245 | -19,029 | -19,805 | -337 | -19,286 |

Appendix Table H.28. WI PROMISE: Sensitivity of net benefits to different assumptions in the benefit cost analysis

Source: See Appendix Table B.4 for details on the sources and methods for the net-benefit calculation.

Note: The inputs for the benefit-cost analysis are based on (1) program costs drawn from program administrative records, financial documents, staff activity logs and staff interviews (2) the estimated impacts on key outcomes (regardless of whether they were statistically significant), or (3) imputation methods that combined the impact estimates with data from external sources. All benefits and costs are dollars per treatment group family over five years and are inflation-adjusted to 2020 dollars and discounted to 2020 present value.

^a The perspective of the federal government as a whole incorporates the perspectives of SSA, ED, and other federal agencies that might experience benefits or costs because of PROMISE.

^b We changed incarceration costs from the national average (\$97/day) to the highest state-specific cost (California, \$228/day).

^c We changed work-related costs from a multiplier of 10.6% to a fixed cost of \$51 dollars per week.

^d The low discount rate is 1 percent, and the high discount rate is 5 percent.

^e This sensitivity analysis assigns a value of zero to impact estimates to impacts estimates that were not were significant at the .10 level. (The main analysis and all other sensitivity tests include impact estimates regardless of whether they were statistically significant).

ED = U.S. Department of Education; SSA = Social Security Administration.

3. Long-term forecast

We projected the accrual of net benefits over 10 and 20 years after RA to assess how costs and benefits may change after the five-year evaluation period. We projected the net benefits under three scenarios that varied in their potential returns to youth's education: high returns, diminishing returns, and no returns (Appendix Table H.29). Because WI PROMISE caused a small and nonsignificant increase in youth's years of education (0.04 years), the scenario assuming "no returns" to education generates the lowest net benefit estimate and the scenario assuming "high returns" to education generates the highest estimate. Across all scenarios, the forecasted net benefits 10 and 20 years after RA are higher than the net benefits estimated at five years after RA. This is because treatment group youth had higher earnings than control group youth in the fourth and fifth years after RA, an advantage that gets compounded in the forecast as earnings grow by an annual percentage over time.

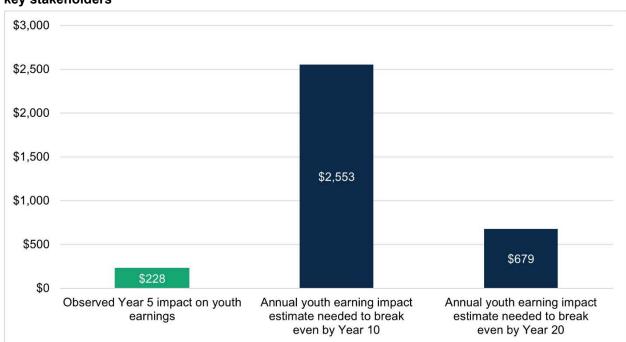
We also calculated how large the impact on youth earnings would have to be, assuming all other impacts were the same as in the five-year analysis, for WI PROMISE's benefits to equal the costs in 10 and 20 years after RA (Appendix Figure H.1). The program would need to generate an average annual impact on youth earnings of \$2,553 per year to be cost neutral 10 years after RA and \$679 per year to be cost neutral 20 years after RA. The point estimates of the program's impact on youth earnings were \$451 in the fifth year after RA and \$668 in the year before the five-year survey. If it continues to generate similarly sized annual impacts, cost neutrality 20 years after RA could be within reach.

| Appendix Table H.29. WI PROMISE: Net benefits (\$) to all stakeholders forecast over 10 and 20 years after RA, under different |
|--|
| assumptions about the returns to education and using the upper and lower bound of the earnings impact |

| | | F | ederal governme | ent | State and local | |
|--------------------------------------|---|------------|-----------------|---|---|---|
| Assumption | PROMISE youth and families (A) | SSA (B) | ED (C) | Federal government as a whole ^a (D) | government, including PROMISE partners (E) | All key stakeholders (F = A + D + E) |
| 10-year forecast | | | | | | |
| Returns to education | | | | | | |
| Persistent high return to education | 14,074 | 319 | -19,029 | -25,300 | -2,403 | -13,630 |
| Diminishing return to education | 14,019 | 300 | -19,029 | -25,322 | -2,404 | -13,707 |
| No return to education | 13,985 | 287 | -19,029 | -25,336 | -2,405 | -13,756 |
| Confidence interval bounds | | | • | | | |
| Using upper bound of earnings impact | 18,086 | 1,507 | -19,029 | -23,945 | -2,302 | -8,161 |
| Using lower bound of earnings impact | 10,240 | -534 | -19,029 | -26,304 | -2,495 | -18,559 |
| 20-year forecast | | | | | | |
| Returns to education | | | | | | |
| Persistent high return to education | 26,863 | 2,239 | -19,029 | -29,130 | -6,014 | -8,281 |
| Diminishing return to education | 26,609 | 2,146 | -19,029 | -29,233 | -6,021 | -8,645 |
| No return to education | 26,576 | 2,133 | -19,029 | -29,248 | -6,022 | -8,694 |
| Confidence interval bounds | | | | | | |
| Using upper bound of earnings impact | 40,474 | 5,619 | -19,029 | -25,202 | -5,683 | 9,590 |
| Using lower bound of earnings impact | 14,379 | -610 | -19,029 | -32,475 | -6,314 | -24,410 |

Source: See Appendix Table B.4 for details on the sources and methods for the net-benefit calculation.

Note: To construct each component of the benefit-cost analysis, we used either (1) the impact estimates themselves (regardless of whether they were statistically significant), or (2) imputation methods to combine the impact estimates with data from external sources. To construct program costs, we used data from program administrative records, financial documents, staff activity logs, and staff interviews. All benefits and costs are dollars per treatment group family and are inflation-adjusted to 2020 dollars and discounted to 2020 present value. The 10-year and 20-year projections are based on costs observed from the five-year evaluation period and a forecasting scenario for the five and fifteen following years, respectively, assuming that earnings grow over time. Additionally, the persistent high return to education forecasting scenario assumes a return to education of 10 percent per additional year of schooling; the diminishing returns to education scenario assumes the returns to education are 10 percent in Year 6 and then diminish over time to zero percent in Year 10; and the no return to education scenario assumes no increase over time in the return to education.





Note: The first bar shows the estimated impact on youth earnings in Year 5 after RA. The second bar shows the impact on youth earnings needed every year between Years 6 and 10 after RA for the program to be cost neutral 10 years after RA, assuming other benefits and costs are held constant between Years 6 and 10 after RA. The third bar shows the impact on youth earnings needed every year between Years 6 and 20 after RA for the program to be cost neutral 20 years after RA, assuming other benefits and costs are held constant between Years 6 and 20 after RA for the program to be cost neutral 20 years after RA, assuming other benefits and costs are held constant between Years 6 and 20 after RA for the program to be cost neutral 20 years after RA, assuming other benefits and costs are held constant between Years 6 and 20 after RA. All values are per treatment group family, inflation-adjusted to 2020 dollars, and discounted to 2020 present value.

WI = Wisconsin; RA = random assignment.

Appendix I. Average Impacts of the PROMISE Program

A. Enrollees and analysis samples

Pooling data across the six PROMISE programs yields a full research sample for the evaluation consisting of the 12,084 youth who enrolled in the evaluation and were randomly assigned, as well as their families. To assess the extent to which the findings might reflect the baseline characteristics of various samples, we compared differences between (1) the treatment and control groups, (2) survey respondents and nonrespondents, and (3) self-reporting and proxy youth respondents.

1. Differences between the treatment and control groups

We compared 25 baseline characteristics of the treatment and control groups for four samples: all youth survey respondents, all parent survey respondents, all enrollees, and all proxy youth respondents (Appendix Tables I.1–I.4). The similarity of samples across the characteristics examined suggest that RA created treatment and control groups that were equivalent in their baseline characteristics. Although we found statistically significant differences for a few characteristics, they are not concerning for two reasons. First, with a significance level of 10 percent, we expect to reject the null hypothesis that the groups were equivalent for 1 out of every 10 characteristics by chance alone, even when the two groups in fact had no underlying differences. Second, we included characteristics that were significantly different at baseline as covariates in our regression-adjusted impact analyses, allowing us to control for the observed differences.

Appendix Table I.1. All PROMISE programs: Baseline characteristics of youth survey respondents (percentages, unless otherwise noted)

| Basalina charactoriatia | | Treatment | Control | Difference (B – C) | |
|--|------|-----------|---------|-----------------------|-----------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | <i>p</i> -value |
| Demographic characteristics | | | | | |
| Youth is female | 33.4 | 32.6 | 34.3 | -1.7* | 0.08 |
| Youth age at RA | | | | | 0.97 |
| 14 | 35.9 | 35.9 | 35.9 | -0.0 | |
| 15 | 29.1 | 29.0 | 29.2 | -0.2 | |
| 16 | 35.0 | 35.1 | 34.9 | 0.2 | |
| Average age at RA | 15.5 | 15.5 | 15.5 | 0.0 | 0.91 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 88.6 | 88.1 | 89.0 | -0.9 | 0.18 |
| Prefers English for spoken language | 88.4 | 88.0 | 88.7 | -0.7 | 0.28 |
| Youth living arrangement at SSI application | | | | | 0.68 |
| In parents' household | 84.5 | 84.5 | 84.4 | 0.1 | |
| Own household or alone | 13.5 | 13.5 | 13.4 | 0.2 | |
| Another household and receiving support | 2.1 | 1.9 | 2.2 | -0.3 | |
| Youth race and ethnicity | | | | | 0.22 |
| Non-Hispanic White | 18.0 | 18.2 | 17.7 | 0.5 | |
| Non-Hispanic Black | 31.9 | 31.3 | 32.5 | -1.1 | |
| Hispanic | 25.0 | 26.0 | 24.1 | 1.9 | |
| Non-Hispanic American Indian | 1.8 | 1.8 | 1.9 | -0.0 | |
| Non-Hispanic other or mixed race | 7.0 | 7.0 | 6.9 | 0.1 | |
| Missing | 16.3 | 15.6 | 16.9 | -1.3 | |
| Enrolling parent age at RA | 43.2 | 43.2 | 43.2 | -0.0 | 0.87 |
| Parent race and ethnicity | | | | | 0.10 |
| Non-Hispanic White | 23.3 | 23.5 | 23.2 | 0.4 | |
| Non-Hispanic Black | 33.9 | 33.6 | 34.2 | -0.6 | |
| Hispanic | 22.9 | 23.7 | 22.2 | 1.5 | |
| Non-Hispanic American Indian | 1.7 | 1.6 | 1.8 | -0.2 | |
| Non-Hispanic other or mixed race | 5.5 | 5.8 | 5.2 | 0.6 | |
| Missing | 12.6 | 11.8 | 13.4 | -1.6 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.83 |
| Intellectual or developmental disability | 45.0 | 45.3 | 44.7 | 0.6 | |
| Speech, hearing, or visual impairment | 1.8 | 1.8 | 1.8 | -0.1 | |
| Physical disability | 13.9 | 13.9 | 14.0 | -0.1 | |
| Other mental impairment | 35.1 | 34.6 | 35.5 | -0.8 | |
| Other or unknown disability | 4.2 | 4.4 | 4.0 | 0.4 | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 94.2 | 93.8 | 94.6 | -0.8* | 0.09 |
| Received OASDI | 10.9 | 11.1 | 10.6 | 0.5 | 0.42 |
| Years between youth's earliest SSI eligibility and RA | 8.8 | 8.8 | 8.8 | 0.0 | 0.99 |
| Youth age at most recent SSI application | 7.1 | 7.1 | 7.1 | -0.0 | 0.80 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,287 | 7,289 | 7,285 | 4 | 0.93 |
| OASDI | 310 | 311 | 310 | 2 | 0.95 |
| Total SSI and OASDI | 7,597 | 7,600 | 7,594 | 6 | 0.89 |
| Household had multiple SSI-eligible children | 19.5 | 19.0 | 20.0 | -1.0 | 0.23 |
| Enrolling parent provided a valid SSN at RA | 76.5 | 76.8 | 76.2 | 0.7 | 0.46 |
| Parents included in the administrative data | | | | | 0.40 |
| None | 6.6 | 6.3 | 6.9 | -0.6 | |
| One parent | 60.0 | 59.9 | 60.0 | -0.1 | |
| Two parents | 33.4 | 33.8 | 33.0 | 0.8 | |
| Parent SSA payment status at RA | | | | | 0.48 |
| Any parent received SSI only | 9.3 | 9.0 | 9.5 | -0.5 | |
| Any parent received OASDI only | 8.7 | 9.1 | 8.4 | 0.7 | |
| Any parent received both SSI and OASDI | 5.4 | 5.5 | 5.4 | 0.1 | |
| No parent received any SSA payments | 70.0 | 70.1 | 69.8 | 0.3 | |
| No parent was included in the SSA data analyses | 6.6 | 6.3 | 6.9 | -0.6 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 3.3 | 3.5 | 3.1 | 0.3 | 0.35 |
| Youth earnings in the calendar year before RA (\$) | 33 | 39 | 27 | 11 | 0.12 |
| Parent had earnings in the calendar year before RA | 70.0 | 69.8 | 70.3 | -0.5 | 0.61 |
| Parent earnings in the calendar year before RA (\$) | 16,722 | 16,870 | 16,704 | 166 | 0.68 |
| Number of youth | 9,377 | 4,723 | 4,654 | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes all youth who completed the PROMISE five-year youth survey. We weighted the statistics to adjust for survey nonresponse. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

Appendix Table I.2. All PROMISE programs: Baseline characteristics of parent survey respondents (percentages, unless otherwise noted)

| | All | Treatment | Control | Difference | |
|--|------|-----------|---------|------------|-----------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | <i>p</i> -value |
| Demographic characteristics | | | | | |
| Youth is female | 33.4 | 32.6 | 34.1 | -1.5 | 0.13 |
| Youth age at RA | | | | | 0.85 |
| 14 | 35.9 | 35.6 | 36.1 | -0.5 | |
| 15 | 29.2 | 29.2 | 29.1 | 0.1 | |
| 16 | 35.0 | 35.2 | 34.7 | 0.5 | |
| Average age at RA | 15.5 | 15.5 | 15.4 | 0.0 | 0.66 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 88.3 | 87.9 | 88.7 | -0.8 | 0.23 |
| Prefers English for spoken language | 88.1 | 87.7 | 88.4 | -0.6 | 0.33 |
| Youth living arrangement at SSI application | | | | | 0.30 |
| In parents' household | 84.9 | 85.0 | 84.9 | 0.1 | |
| Own household or alone | 13.0 | 13.2 | 12.9 | 0.3 | |
| Another household and receiving support | 2.0 | 1.8 | 2.3 | -0.4 | |
| Youth race and ethnicity | | | | | 0.31 |
| Non-Hispanic White | 18.0 | 18.2 | 17.8 | 0.4 | |
| Non-Hispanic Black | 32.3 | 31.5 | 33.0 | -1.5 | |
| Hispanic | 25.5 | 26.4 | 24.6 | 1.8 | |
| Non-Hispanic American Indian | 1.9 | 1.9 | 1.8 | 0.1 | |
| Non-Hispanic other or mixed race | 7.1 | 7.1 | 7.0 | 0.1 | |
| Missing | 15.3 | 14.8 | 15.8 | -0.9 | |
| Enrolling parent age at RA | 43.1 | 43.1 | 43.1 | 0.0 | 0.95 |
| Parent race and ethnicity | | | | | 0.37 |
| Non-Hispanic White | 23.3 | 23.4 | 23.1 | 0.3 | |
| Non-Hispanic Black | 33.6 | 33.2 | 34.0 | -0.8 | |
| Hispanic | 23.1 | 23.8 | 22.5 | 1.2 | |
| Non-Hispanic American Indian | 1.7 | 1.6 | 1.8 | -0.2 | |
| Non-Hispanic other or mixed race | 5.4 | 5.6 | 5.1 | 0.5 | |
| Missing | 13.0 | 12.4 | 13.5 | -1.1 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.75 |
| Intellectual or developmental disability | 45.0 | 45.2 | 44.8 | 0.3 | |
| Speech, hearing, or visual impairment | 1.8 | 1.7 | 1.8 | -0.1 | |
| Physical disability | 14.0 | 14.1 | 14.0 | 0.1 | |
| Other mental impairment | 35.0 | 34.6 | 35.4 | -0.8 | |
| Other or unknown disability | 4.2 | 4.5 | 4.0 | 0.5 | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | , , , | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 94.2 | 93.8 | 94.6 | -0.8* | 0.09 |
| Received OASDI | 10.7 | 10.9 | 10.5 | 0.5 | 0.48 |
| Years between youth's earliest SSI eligibility and RA | 8.8 | 8.8 | 8.8 | -0.0 | 0.59 |
| Youth age at most recent SSI application | 7.1 | 7.1 | 7.1 | 0.0 | 0.94 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,286 | 7,296 | 7,276 | 20 | 0.67 |
| OASDI | 303 | 303 | 304 | -2 | 0.94 |
| Total SSI and OASDI | 7,589 | 7,598 | 7,580 | 18 | 0.67 |
| Household had multiple SSI-eligible children | 19.8 | 19.2 | 20.4 | -1.2 | 0.15 |
| Enrolling parent provided a valid SSN at RA | 76.6 | 76.8 | 76.3 | 0.5 | 0.61 |
| Parents included in the administrative data | | | | | 0.59 |
| None | 6.5 | 6.2 | 6.7 | -0.5 | |
| One parent | 59.7 | 59.8 | 59.5 | 0.4 | |
| Two parents | 33.9 | 34.0 | 33.8 | 0.2 | |
| Parent SSA payment status at RA | | | | | 0.56 |
| Any parent received SSI only | 9.1 | 8.8 | 9.4 | -0.5 | |
| Any parent received OASDI only | 8.5 | 8.8 | 8.2 | 0.6 | |
| Any parent received both SSI and OASDI | 5.5 | 5.6 | 5.4 | 0.2 | |
| No parent received any SSA payments | 70.4 | 70.5 | 70.3 | 0.2 | |
| No parent was included in the SSA data analyses | 6.5 | 6.2 | 6.7 | -0.5 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 3.3 | 3.5 | 3.2 | 0.3 | 0.41 |
| Youth earnings in the calendar year before RA (\$) | 35 | 39 | 30 | 9 | 0.22 |
| Parent had earnings in the calendar year before RA | 70.6 | 70.3 | 71.1 | -0.8 | 0.39 |
| Parent earnings in the calendar year before RA (\$) | 16,943 | 17,010 | 16,997 | 13 | 0.97 |
| Number of youth | 9,202 | 4,649 | 4,553 | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes all youth whose parent completed the PROMISE five-year youth survey. We weighted the statistics to adjust for survey nonresponse. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

Appendix Table I.3. All PROMISE programs: Baseline characteristics of all youth enrollees (percentages, unless otherwise noted)

| Decelies of energy inter- | All | Treatment | Control | Difference | |
|--|------|-----------|---------|------------|-----------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | <i>p</i> -value |
| Demographic characteristics | | | | | |
| Youth is female | 33.2 | 32.7 | 33.6 | -0.9 | 0.31 |
| Youth age at RA | | | | | 0.88 |
| 14 | 35.6 | 35.7 | 35.4 | 0.3 | |
| 15 | 29.0 | 28.8 | 29.2 | -0.4 | |
| 16 | 35.4 | 35.5 | 35.4 | 0.1 | |
| Average age at RA | 15.5 | 15.5 | 15.5 | -0.0 | 0.88 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 88.6 | 88.4 | 88.8 | -0.3 | 0.54 |
| Prefers English for spoken language | 88.4 | 88.3 | 88.5 | -0.2 | 0.70 |
| Youth living arrangement at SSI application | | | | | 0.61 |
| In parents' household | 84.5 | 84.6 | 84.3 | 0.3 | |
| Own household or alone | 13.5 | 13.5 | 13.5 | -0.1 | |
| Another household and receiving support | 2.0 | 1.9 | 2.2 | -0.2 | |
| Youth race and ethnicity | | | | | 0.29 |
| Non-Hispanic White | 17.6 | 17.8 | 17.5 | 0.3 | |
| Non-Hispanic Black | 30.7 | 30.5 | 30.9 | -0.4 | |
| Hispanic | 21.7 | 22.4 | 21.1 | 1.3 | |
| Non-Hispanic American Indian | 1.9 | 1.9 | 1.8 | 0.1 | |
| Non-Hispanic other or mixed race | 6.4 | 6.5 | 6.3 | 0.1 | |
| Missing | 21.7 | 21.0 | 22.5 | -1.5 | |
| Enrolling parent age at RA | 43.0 | 43.0 | 43.1 | -0.0 | 0.88 |
| Parent race and ethnicity | | | | | 0.36 |
| Non-Hispanic White | 22.5 | 22.7 | 22.4 | 0.3 | |
| Non-Hispanic Black | 32.3 | 32.5 | 32.1 | 0.4 | |
| Hispanic | 19.5 | 19.8 | 19.2 | 0.6 | |
| Non-Hispanic American Indian | 1.8 | 1.7 | 1.8 | -0.1 | |
| Non-Hispanic other or mixed race | 4.9 | 5.1 | 4.7 | 0.4 | |
| Missing | 19.0 | 18.3 | 19.8 | -1.5 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.90 |
| Intellectual or developmental disability | 44.5 | 44.8 | 44.2 | 0.6 | |
| Speech, hearing, or visual impairment | 1.7 | 1.6 | 1.8 | -0.1 | |
| Physical disability | 13.8 | 13.9 | 13.8 | 0.1 | |
| Other mental impairment | 35.8 | 35.5 | 36.2 | -0.7 | |
| Other or unknown disability | 4.2 | 4.2 | 4.2 | 0.1 | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 94.2 | 94.0 | 94.5 | -0.5 | 0.28 |
| Received OASDI | 10.8 | 11.1 | 10.5 | 0.6 | 0.29 |
| Years between youth's earliest SSI eligibility and RA | 8.8 | 8.8 | 8.8 | 0.0 | 0.99 |
| Youth age at most recent SSI application | 7.1 | 7.1 | 7.1 | -0.0 | 0.83 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,299 | 7,302 | 7,295 | 7 | 0.86 |
| OASDI | 308 | 309 | 307 | 2 | 0.92 |
| Total SSI and OASDI | 7,607 | 7,612 | 7,602 | 9 | 0.80 |
| Household had multiple SSI-eligible children | 19.7 | 19.4 | 20.0 | -0.6 | 0.39 |
| Enrolling parent provided a valid SSN at RA | 76.3 | 76.3 | 76.3 | 0.0 | 0.99 |
| Parents included in the administrative data | | | | | 0.25 |
| None | 6.7 | 6.4 | 7.0 | -0.6 | |
| One parent | 60.0 | 59.9 | 60.2 | -0.3 | |
| Two parents | 33.2 | 33.7 | 32.8 | 0.9 | |
| Parent SSA payment status at RA | | | | | 0.53 |
| Any parent received SSI only | 9.4 | 9.3 | 9.5 | -0.1 | |
| Any parent received OASDI only | 8.6 | 8.8 | 8.4 | 0.3 | |
| Any parent received both SSI and OASDI | 5.4 | 5.6 | 5.2 | 0.4 | |
| No parent received any SSA payments | 69.9 | 69.9 | 69.9 | 0.0 | |
| No parent was included in the SSA data analyses | 6.7 | 6.4 | 7.0 | -0.6 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 3.3 | 3.3 | 3.2 | 0.2 | 0.60 |
| Youth earnings in the calendar year before RA (\$) | 34 | 34 | 33 | 1 | 0.87 |
| Parent had earnings in the calendar year before RA | 70.1 | 69.8 | 70.5 | -0.7 | 0.45 |
| Parent earnings in the calendar year before RA (\$) | 16,730 | 16,765 | 16,845 | -80 | 0.82 |
| Number of youth | 12,584 | 6,302 | 6,282 | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes all youth who enrolled in PROMISE. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

Appendix Table I.4. All PROMISE programs: Baseline characteristics of proxy youth survey respondents (percentages, unless otherwise noted)

| Deseline ob every startistic | All | Treatment | Control | Difference | |
|--|------|-----------|---------|------------|-----------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | <i>p</i> -value |
| Demographic characteristics | | | | | |
| Youth is female | 28.8 | 28.0 | 29.7 | -1.7 | 0.28 |
| Youth age at RA | | | | | 0.71 |
| 14 | 35.8 | 36.4 | 35.1 | 1.3 | |
| 15 | 30.3 | 29.7 | 30.8 | -1.1 | |
| 16 | 33.9 | 33.8 | 34.1 | -0.2 | |
| Average age at RA | 15.4 | 15.4 | 15.5 | -0.0 | 0.39 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 86.2 | 85.8 | 86.6 | -0.9 | 0.45 |
| Prefers English for spoken language | 85.8 | 85.6 | 86.0 | -0.4 | 0.71 |
| Youth living arrangement at SSI application | | | | | 0.23 |
| In parents' household | 84.5 | 85.0 | 84.0 | 1.0 | |
| Own household or alone | 13.7 | 13.6 | 13.8 | -0.2 | |
| Another household and receiving support | 1.9 | 1.4 | 2.3 | -0.8 | |
| Youth race and ethnicity | | | | | 0.28 |
| Non-Hispanic White | 17.1 | 16.9 | 17.3 | -0.4 | |
| Non-Hispanic Black | 28.2 | 26.8 | 29.6 | -2.8 | |
| Hispanic | 26.5 | 27.5 | 25.6 | 2.0 | |
| Non-Hispanic American Indian | 1.7 | 1.4 | 2.0 | -0.6 | |
| Non-Hispanic other or mixed race | 6.4 | 6.5 | 6.3 | 0.2 | |
| Missing | 20.1 | 20.9 | 19.3 | 1.6 | |
| Enrolling parent age at RA | 43.4 | 43.3 | 43.5 | -0.2 | 0.50 |
| Parent race and ethnicity | | | | | 0.30 |
| Non-Hispanic White | 21.5 | 21.4 | 21.6 | -0.2 | |
| Non-Hispanic Black | 30.8 | 29.5 | 32.1 | -2.6 | |
| Hispanic | 25.2 | 26.6 | 23.7 | 2.9 | |
| Non-Hispanic American Indian | 1.7 | 1.6 | 1.9 | -0.3 | |
| Non-Hispanic other or mixed race | 5.6 | 6.0 | 5.1 | 0.9 | |
| Missing | 15.3 | 14.9 | 15.6 | -0.7 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.55 |
| Intellectual or developmental disability | 45.9 | 46.4 | 45.5 | 1.0 | |
| Speech, hearing, or visual impairment | 2.0 | 1.8 | 2.1 | -0.3 | |
| Physical disability | 15.5 | 16.2 | 14.8 | 1.4 | |
| Other mental impairment | 31.7 | 30.6 | 32.8 | -2.3 | |
| Other or unknown disability | 4.9 | 5.0 | 4.8 | 0.2 | |

| Baseline characteristic | All (A) | Treatment (B) | Control (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|------------------|----------------|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 94.9 | 94.6 | 95.1 | -0.5 | 0.54 |
| Received OASDI | 10.1 | 10.5 | 9.8 | 0.7 | 0.52 |
| Years between youth's earliest SSI eligibility and RA | 9.3 | 9.2 | 9.4 | -0.2 | 0.30 |
| Youth age at most recent SSI application | 6.7 | 6.8 | 6.7 | 0.1 | 0.53 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,296 | 7,341 | 7,253 | 88 | 0.27 |
| OASDI | 286 | 278 | 294 | -16 | 0.67 |
| Total SSI and OASDI | 7,582 | 7,619 | 7,547 | 71 | 0.33 |
| Household had multiple SSI-eligible children | 18.4 | 18.1 | 18.6 | -0.4 | 0.76 |
| Enrolling parent provided a valid SSN at RA | 74.7 | 75.5 | 73.9 | 1.6 | 0.30 |
| Parents included in the administrative data | | | | | 0.36 |
| None | 6.8 | 6.5 | 7.0 | -0.4 | |
| One parent | 58.2 | 57.2 | 59.1 | -1.9 | |
| Two parents | 35.1 | 36.3 | 33.9 | 2.4 | |
| Parent SSA payment status at RA | | | | | 0.57 |
| Any parent received SSI only | 8.1 | 8.2 | 8.0 | 0.2 | |
| Any parent received OASDI only | 8.1 | 8.4 | 7.7 | 0.8 | |
| Any parent received both SSI and OASDI | 4.9 | 5.4 | 4.4 | 1.1 | |
| No parent received any SSA payments | 72.2 | 71.4 | 73.0 | -1.6 | |
| No parent was included in the SSA data analyses | 6.8 | 6.5 | 7.0 | -0.4 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 2.5 | 2.6 | 2.4 | 0.2 | 0.72 |
| Youth earnings in the calendar year before RA (\$) | 27 | 37 | 18 | 19 | 0.26 |
| Parent had earnings in the calendar year before RA | 71.4 | 71.0 | 71.9 | -1.0 | 0.56 |
| Parent earnings in the calendar year before RA (\$) | 17,507 | 17,367 | 17,790 | -423 | 0.56 |
| Number of youth | 3,243 | 1,611 | 1,632 | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes all youth who completed the PROMISE five-year youth survey by proxy. We weighted the statistics to adjust for survey nonresponse. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

2. Differences between survey respondents and nonrespondents

We compared youth and parent survey respondents with nonrespondents across 25 baseline characteristics to assess the extent to which survey nonresponse might limit generalizability of the impact findings to all evaluation enrollees (Appendix Tables I.5 and I.6). Youth survey respondents differed from nonrespondents with respect to youth sex, youth average age at RA, youth's written and spoken language preferences, enrolling parent age at RA, the share of youth who received OASDI benefits at RA, the years between youth's earliest SSI eligibility and RA, youth age at most recent SSI application, youth's SSI and OASDI benefits in the year before RA, the share of enrolling parents who provided a valid SSN at RA, and the share of parents who had earnings in the year before RA. Parent survey respondents differed from nonrespondents with respect to youth average age at RA, youth's written and spoken language preferences, the years between youth's earliest SSI eligibility and RA, youth's written and spoken language preferences, the years between youth's earliest SSI eligibility and RA, youth's written and spoken language preferences, the years between youth's earliest SSI eligibility and RA, youth age at most recent SSI application, youth's SSI and total benefits in the year before RA, and the share of enrolling parents who provided a valid SSN at RA. Overall, even when the differences were statistically significant, they generally were small. The extent and magnitude of the differences suggested that the respondents were not markedly different from the nonrespondents. To account for survey nonresponse, we calculated and used survey weights in all regression models to estimate impacts on the survey-based outcome measures.

Appendix Table I.5. All PROMISE programs: Baseline characteristics of youth survey respondents and nonrespondents (percentages, unless otherwise noted)

| | All | | Nonrespondents | | <i>p</i> - |
|---|------|------|----------------|---------|------------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | value |
| Demographic characteristics | | | | | |
| Youth is female | 33.2 | 33.8 | 30.9 | 2.9*** | 0.00 |
| Youth age at RA | | | | ††† | 0.00 |
| 14 | 35.6 | 36.4 | 32.8 | 3.5 | |
| 15 | 29.0 | 29.0 | 29.0 | 0.0 | |
| 16 | 35.4 | 34.6 | 38.2 | -3.6 | |
| Average age at RA | 15.5 | 15.4 | 15.5 | -0.1*** | 0.00 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 88.6 | 89.8 | 84.6 | 5.2*** | 0.00 |
| Prefers English for spoken language | 88.4 | 89.6 | 84.6 | 4.9*** | 0.00 |
| Youth living arrangement at SSI application | | | | | 0.40 |
| In parents' household | 84.5 | 84.7 | 83.9 | 0.8 | |
| Own household or alone | 13.5 | 13.3 | 14.2 | -0.9 | |
| Another household and receiving support | 2.0 | 2.1 | 1.9 | 0.1 | |
| Youth race and ethnicity | | | | ††† | 0.00 |
| Non-Hispanic White | 17.6 | 19.6 | 11.2 | 8.4 | |
| Non-Hispanic Black | 30.7 | 34.2 | 18.9 | 15.3 | |
| Hispanic | 21.7 | 24.1 | 13.8 | 10.3 | |
| Non-Hispanic American Indian | 1.9 | 2.0 | 1.5 | 0.5 | |
| Non-Hispanic other or mixed race | 6.4 | 7.3 | 3.5 | 3.7 | |
| Missing | 21.7 | 12.9 | 51.1 | -38.3 | |
| Enrolling parent age at RA | 43.0 | 43.2 | 42.4 | 0.9*** | 0.00 |
| Parent race and ethnicity | | | | ††† | 0.00 |
| Non-Hispanic White | 22.5 | 25.1 | 14.1 | 11.0 | |
| Non-Hispanic Black | 32.3 | 35.7 | 21.0 | 14.7 | |
| Hispanic | 19.5 | 21.7 | 12.2 | 9.5 | |
| Non-Hispanic American Indian | 1.8 | 1.8 | 1.6 | 0.3 | |
| Non-Hispanic other or mixed race | 4.9 | 5.6 | 2.5 | 3.1 | |
| Missing | 19.0 | 10.1 | 48.7 | -38.6 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.13 |
| Intellectual or developmental disability | 44.5 | 45.1 | 42.4 | 2.7 | |
| Speech, hearing, or visual impairment | 1.7 | 1.7 | 1.7 | 0.0 | |
| Physical disability | 13.8 | 13.7 | 14.3 | -0.6 | |
| Other mental impairment | 35.8 | 35.4 | 37.2 | -1.9 | |
| Other or unknown disability | 4.2 | 4.1 | 4.4 | -0.2 | |

| Baseline characteristic | All (A) | Respondents (B) | Nonrespondents (C) | Difference (B – C) | <i>p-</i> value |
|---|------------|--------------------|-----------------------|-----------------------|--------------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 94.2 | 94.3 | 94.2 | 0.1 | 0.88 |
| Received OASDI | 10.8 | 11.2 | 9.4 | 1.8*** | 0.00 |
| Years between youth's earliest SSI eligibility and RA | 8.8 | 8.9 | 8.6 | 0.2** | 0.01 |
| Youth age at most recent SSI application | 7.1 | 7.1 | 7.4 | -0.3*** | 0.00 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,299 | 7,271 | 7,390 | -119** | 0.01 |
| OASDI | 308 | 321 | 266 | 55** | 0.01 |
| Total SSI and OASDI | 7,607 | 7,592 | 7,656 | -64 | 0.13 |
| Household had multiple SSI-eligible children | 19.7 | 19.7 | 19.8 | -0.1 | 0.90 |
| Enrolling parent provided a valid SSN at RA | 76.3 | 77.7 | 71.7 | 6.0*** | 0.00 |
| Parents included in the administrative data | | | | <u>†††</u> | 0.00 |
| None | 6.7 | 6.2 | 8.5 | -2.4 | |
| One parent | 60.0 | 60.2 | 59.5 | 0.7 | |
| Two parents | 33.2 | 33.6 | 31.9 | 1.7 | |
| Parent SSA payment status at RA | | | | <u>+</u> ++ | 0.00 |
| Any parent received SSI only | 9.4 | 9.5 | 9.0 | 0.5 | |
| Any parent received OASDI only | 8.6 | 9.0 | 7.2 | 1.8 | |
| Any parent received both SSI and OASDI | 5.4 | 5.7 | 4.6 | 1.1 | |
| No parent received any SSA payments | 69.9 | 69.6 | 70.7 | -1.0 | |
| No parent was included in the SSA data analyses | 6.7 | 6.2 | 8.5 | -2.4 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 3.3 | 3.3 | 3.1 | 0.3 | 0.48 |
| Youth earnings in the calendar year before RA (\$) | 34 | 32 | 37 | -5 | 0.55 |
| Parent had earnings in the calendar year before RA | 70.1 | 69.7 | 71.7 | -2.0** | 0.04 |
| Parent earnings in the calendar year before RA (\$) | 16,730 | 16,693 | 17,177 | -484 | 0.24 |
| Number of youth | 12,584 | 9,377 | 3,207 | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes all youth who enrolled in PROMISE. Nonrespondents include youth ineligible for the survey because they died or withdrew from the study or were not sampled for the survey. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

Appendix Table I.6. All PROMISE programs: Baseline characteristics of parent survey respondents and nonrespondents (percentages, unless otherwise noted)

| | All | | Nonrespondents | Difference | p- |
|--|------|------|----------------|-------------|-------|
| Baseline characteristic | (A) | (B) | (C) | (B – C) | value |
| Demographic characteristics | | | | | |
| Youth is female | 33.2 | 33.5 | 32.3 | 1.1 | 0.24 |
| Youth age at RA | | | | <u>+</u> ++ | 0.00 |
| 14 | 35.6 | 36.3 | 33.2 | 3.2 | |
| 15 | 29.0 | 29.1 | 28.7 | 0.5 | |
| 16 | 35.4 | 34.5 | 38.2 | -3.6 | |
| Average age at RA | 15.5 | 15.4 | 15.5 | -0.1*** | 0.00 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 88.6 | 89.5 | 85.7 | 3.8*** | 0.00 |
| Prefers English for spoken language | 88.4 | 89.3 | 85.8 | 3.5*** | 0.00 |
| Youth living arrangement at SSI application | | | | <u>+</u> ++ | 0.01 |
| In parents' household | 84.5 | 85.0 | 82.7 | 2.3 | |
| Own household or alone | 13.5 | 13.0 | 15.1 | -2.1 | |
| Another household and receiving support | 2.0 | 2.0 | 2.2 | -0.2 | |
| Youth race and ethnicity | | | | <u>+</u> ++ | 0.00 |
| Non-Hispanic White | 17.6 | 19.2 | 12.8 | 6.5 | |
| Non-Hispanic Black | 30.7 | 34.6 | 18.6 | 16.0 | |
| Hispanic | 21.7 | 24.4 | 13.5 | 10.9 | |
| Non-Hispanic American Indian | 1.9 | 2.0 | 1.6 | 0.3 | |
| Non-Hispanic other or mixed race | 6.4 | 7.3 | 3.7 | 3.6 | |
| Missing | 21.7 | 12.5 | 49.7 | -37.2 | |
| Enrolling parent age at RA | 43.0 | 43.1 | 42.9 | 0.2 | 0.38 |
| Parent race and ethnicity | | | | <u>+</u> ++ | 0.00 |
| Non-Hispanic White | 22.5 | 24.8 | 15.6 | 9.2 | |
| Non-Hispanic Black | 32.3 | 36.3 | 20.2 | 16.0 | |
| Hispanic | 19.5 | 21.9 | 12.0 | 9.9 | |
| Non-Hispanic American Indian | 1.8 | 1.8 | 1.8 | 0.0 | |
| Non-Hispanic other or mixed race | 4.9 | 5.5 | 3.1 | 2.4 | |
| Missing | 19.0 | 9.7 | 47.4 | -37.6 | |
| Disability | | | | | |
| Youth primary impairment | | | | †† | 0.04 |
| Intellectual or developmental disability | 44.5 | 45.2 | 42.2 | 3.0 | |
| Speech, hearing, or visual impairment | 1.7 | 1.7 | 1.8 | -0.1 | |
| Physical disability | 13.8 | 13.8 | 13.8 | -0.0 | |
| Other mental impairment | 35.8 | 35.2 | 37.8 | -2.6 | |
| Other or unknown disability | 4.2 | 4.1 | 4.4 | -0.3 | |

| Baseline characteristic | All (A) | Respondents (B) | Nonrespondents (C) | Difference (B – C) | <i>p-</i> value |
|--|------------|--------------------|-----------------------|-----------------------|--------------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 94.2 | 94.3 | 94.1 | 0.2 | 0.74 |
| Received OASDI | 10.8 | 10.9 | 10.4 | 0.5 | 0.43 |
| Years between youth's earliest SSI eligibility and RA | 8.8 | 8.9 | 8.7 | 0.2** | 0.02 |
| Youth age at most recent SSI application | 7.1 | 7.1 | 7.3 | -0.3*** | 0.00 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,299 | 7,279 | 7,361 | -82* | 0.07 |
| OASDI | 308 | 311 | 301 | 10 | 0.67 |
| Total SSI and OASDI | 7,607 | 7,589 | 7,662 | -73* | 0.08 |
| Household had multiple SSI-eligible children | 19.7 | 19.7 | 19.6 | 0.1 | 0.86 |
| Enrolling parent provided a valid SSN at RA | 76.3 | 77.8 | 71.7 | 6.1*** | 0.00 |
| Parents included in the administrative data | | | | ††† | 0.00 |
| None | 6.7 | 6.1 | 8.6 | -2.5 | |
| One parent | 60.0 | 60.2 | 59.7 | 0.5 | |
| Two parents | 33.2 | 33.8 | 31.7 | 2.1 | |
| Parent SSA payment status at RA | | | | ††† | 0.00 |
| Any parent received SSI only | 9.4 | 9.4 | 9.5 | -0.1 | |
| Any parent received OASDI only | 8.6 | 8.8 | 8.1 | 0.7 | |
| Any parent received both SSI and OASDI | 5.4 | 5.6 | 4.7 | 1.0 | |
| No parent received any SSA payments | 69.9 | 70.1 | 69.1 | 1.0 | |
| No parent was included in the SSA data analyses | 6.7 | 6.1 | 8.6 | -2.5 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 3.3 | 3.4 | 2.9 | 0.5 | 0.15 |
| Youth earnings in the calendar year before RA (\$) | 34 | 34 | 32 | 2 | 0.73 |
| Parent had earnings in the calendar year before RA | 70.1 | 70.2 | 69.9 | 0.3 | 0.72 |
| Parent earnings in the calendar year before RA (\$) | 16,730 | 16,851 | 16,664 | 187 | 0.64 |
| | | | | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes the parents who were eligible for the survey. Nonrespondents include parents ineligible for the survey because they died or withdrew from the study or were not sampled for the survey. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

3. Differences between self-reporting and proxy youth respondents

We compared the baseline characteristics of youth who self-responded to the survey to those who responded via proxies to assess whether systematically missing data from different survey modes might affect the estimated impacts on survey-based outcomes (Appendix Table I.7). We found differences in 12 of 25 baseline characteristics by survey response type. Because of these differences, findings on survey-based outcomes that are available only for self-respondents might not generalize to all survey respondents.

Appendix Table I.7. All PROMISE programs: Baseline characteristics of proxy and self-reporting youth survey respondents (percentages, unless otherwise noted)

| Baseline characteristic | All (A) | Proxy respondent (B) | Self- reporting respondent (C) | Difference (B – C) | <i>p</i> -value |
|--|------------|----------------------------|---|-----------------------|-----------------|
| Demographic characteristics | | | | | |
| Youth is female | 33.4 | 29.0 | 35.8 | -6.8*** | 0.00 |
| Youth age at RA | | | | | 0.13 |
| 14 | 35.9 | 35.8 | 36.0 | -0.3 | |
| 15 | 29.1 | 30.3 | 28.4 | 1.9 | |
| 16 | 35.0 | 33.9 | 35.6 | -1.6 | |
| Average age at RA | 15.5 | 15.4 | 15.5 | -0.0 | 0.22 |
| Youth language preference at SSI application | | | | | |
| Prefers English for written language | 88.6 | 85.7 | 90.1 | -4.4*** | 0.00 |
| Prefers English for spoken language | 88.4 | 85.3 | 90.0 | -4.7*** | 0.00 |
| Youth living arrangement at SSI application | | | | | 0.58 |
| In parents' household | 84.5 | 84.4 | 84.5 | -0.1 | |
| Own household or alone | 13.5 | 13.7 | 13.3 | 0.4 | |
| Another household and receiving support | 2.1 | 1.9 | 2.2 | -0.3 | |
| Youth race and ethnicity | | | | <u>+</u> ++ | 0.00 |
| Non-Hispanic White | 18.0 | 16.4 | 18.8 | -2.4 | |
| Non-Hispanic Black | 31.9 | 28.2 | 33.9 | -5.6 | |
| Hispanic | 25.0 | 27.0 | 23.9 | 3.1 | |
| Non-Hispanic American Indian | 1.8 | 1.6 | 2.0 | -0.4 | |
| Non-Hispanic other or mixed race | 7.0 | 6.5 | 7.2 | -0.7 | |
| Missing | 16.3 | 20.3 | 14.2 | 6.1 | |
| Enrolling parent age at RA | 43.2 | 43.5 | 43.1 | 0.4** | 0.03 |
| Parent race and ethnicity | | | | <u>+++</u> | 0.00 |
| Non-Hispanic White | 23.3 | 20.6 | 24.8 | -4.1 | |
| Non-Hispanic Black | 33.9 | 30.9 | 35.5 | -4.6 | |
| Hispanic | 22.9 | 25.7 | 21.5 | 4.3 | |
| Non-Hispanic American Indian | 1.7 | 1.6 | 1.8 | -0.2 | |
| Non-Hispanic other or mixed race | 5.5 | 5.7 | 5.4 | 0.3 | |
| Missing | 12.6 | 15.4 | 11.1 | 4.3 | |
| Disability | | | | | |
| Youth primary impairment | | | | <u>+++</u> | 0.00 |
| Intellectual or developmental disability | 45.0 | 46.4 | 44.2 | 2.2 | |
| Speech, hearing, or visual impairment | 1.8 | 2.0 | 1.7 | 0.4 | |
| Physical disability | 13.9 | 15.5 | 13.1 | 2.3 | |
| Other mental impairment | 35.1 | 31.3 | 37.1 | -5.8 | |
| Other or unknown disability | 4.2 | 4.9 | 3.9 | 1.0 | |

| Baseline characteristic | All (A) | Proxy respondent (B) | Self- reporting respondent (C) | Difference (B – C) | <i>p</i> -value |
|---|------------|----------------------------|---|-----------------------|-----------------|
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 94.2 | 95.0 | 93.8 | 1.1** | 0.02 |
| Received OASDI | 10.9 | 10.0 | 11.3 | -1.3* | 0.06 |
| Years between youth's earliest SSI eligibility and RA | 8.8 | 9.3 | 8.6 | 0.7*** | 0.00 |
| Youth age at most recent SSI application | 7.1 | 6.7 | 7.3 | -0.6*** | 0.00 |
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,287 | 7,303 | 7,278 | 25 | 0.60 |
| OASDI | 310 | 285 | 324 | -40* | 0.10 |
| Total SSI and OASDI | 7,597 | 7,588 | 7,602 | -14 | 0.75 |
| Household had multiple SSI-eligible children | 19.5 | 18.3 | 20.1 | -1.8** | 0.04 |
| Enrolling parent provided a valid SSN at RA | 76.5 | 74.7 | 77.5 | -2.8*** | 0.00 |
| Parents included in the administrative data | | | | † | 0.07 |
| None | 6.6 | 6.8 | 6.5 | 0.3 | |
| One parent | 60.0 | 58.4 | 60.8 | -2.5 | |
| Two parents | 33.4 | 34.9 | 32.7 | 2.2 | |
| Parent SSA payment status at RA | | | | <u>+</u> ++ | 0.00 |
| Any parent received SSI only | 9.3 | 8.1 | 9.9 | -1.8 | |
| Any parent received OASDI only | 8.7 | 8.0 | 9.1 | -1.1 | |
| Any parent received both SSI and OASDI | 5.4 | 4.8 | 5.7 | -0.9 | |
| No parent received any SSA payments | 70.0 | 72.3 | 68.7 | 3.6 | |
| No parent was included in the SSA data analyses | 6.6 | 6.8 | 6.5 | 0.3 | |
| Earnings | | | | | |
| Youth had earnings in the calendar year before RA | 3.3 | 2.5 | 3.7 | -1.2*** | 0.00 |
| Youth earnings in the calendar year before RA (\$) | 33 | 29 | 35 | -6 | 0.49 |
| Parent had earnings in the calendar year before RA | 70.0 | 71.4 | 69.4 | 2.0* | 0.05 |
| Parent earnings in the calendar year before RA (\$) | 16,722 | 17,566 | 16,373 | 1,193*** | 0.01 |
| Number of youth | 9,377 | 3,243 | 6,134 | | |

Source: SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: The sample includes all PROMISE five-year youth survey respondents. We weighted the statistics to adjust for survey nonresponse. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (p-value is less than .10/.05/.01) using a two-tailed t-test.

+/++/+++ Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

B. Findings from the impact analysis

In this section, we present findings from the impact analysis of the pooled PROMISE programs. First, we present impacts estimated through the main models. Second, we present the results of sensitivity analyses. Third, we present impacts for key subgroups of evaluation enrollees.

1. Impact estimates

Appendix Tables I.8–I.17 provide results and inference statistics for the regression-adjusted impacts estimated through the main models described in Appendix B. For each outcome measure, we report the estimated regression-adjusted impact; the control group mean (weighted, as applicable); and additional inference statistics, such as standard errors, effect sizes, and sample sizes by treatment status.

Appendix Table I.8. All PROMISE programs: Impact on the youth's education and training (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group sample size | Control group sample size |
|---|-----------------|--------|-----------------|-------------------|-------------|--------------------------------------|------------------------------------|
| Primary outcomes | | | | | | | |
| Enrolled in an educational or training program | 42.9 | -1.3 | 0.18 | 1.0 | -0.033 | 4,578 | 4,486 |
| Has a GED, high school diploma, or certificate of completion | 71.5 | -2.0** | 0.03 | 0.9 | -0.059 | 4,683 | 4,620 |
| Supplementary outcomes | | | | | | | |
| Enrolled in postsecondary education | 14.4 | -0.2 | 0.75 | 0.7 | -0.011 | 4,636 | 4,578 |
| Type of school attending | | | | | | | |
| High school serving a variety of students | 8.8 | -0.1 | 0.82 | 0.6 | -0.010 | 4,636 | 4,578 |
| High school serving only students with disabilities | 7.4 | 0.1 | 0.77 | 0.5 | 0.013 | 4,636 | 4,578 |
| GED program or other adult education program | 2.9 | -0.5 | 0.13 | 0.3 | -0.119 | 4,636 | 4,578 |
| Postsecondary vocational, trade, or technical school | 3.2 | -0.0 | 0.95 | 0.4 | -0.005 | 4,636 | 4,578 |
| Postsecondary college or advanced degree program | 11.2 | -0.2 | 0.75 | 0.6 | -0.013 | 4,636 | 4,578 |
| Other type of school | 2.3 | -0.3 | 0.32 | 0.3 | -0.086 | 4,636 | 4,578 |
| Not attending school | 64.2 | 1.0 | 0.27 | 0.9 | 0.027 | 4,636 | 4,578 |
| Highest grade completed | | | | | | | |
| Lower than 12th grade | 22.7 | 1.0 | 0.23 | 0.9 | 0.035 | 4,723 | 4,654 |
| 12th grade or senior in high school | 65.0 | -2.1** | 0.04 | 1.0 | -0.055 | 4,723 | 4,654 |
| Some or all of college or university | 8.8 | 0.7 | 0.26 | 0.6 | 0.049 | 4,723 | 4,654 |
| Other or do not know | 3.5 | 0.4 | 0.33 | 0.4 | 0.064 | 4,723 | 4,654 |
| Enrolled in a training program | 11.0 | -0.1 | 0.92 | 0.7 | -0.004 | 4,503 | 4,425 |
| Received any training credential in the past year | 8.6 | 1.5**† | 0.02 | 0.6 | 0.106 | 4,666 | 4,612 |
| Any school suspensions or expulsions in the past year | 2.2 | 0.5 | 0.14 | 0.3 | 0.121 | 4,508 | 4,433 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group sample size | Control group sample size |
|--|-----------------|--------|-----------------|-------------------|-------------|--------------------------------------|------------------------------------|
| Accommodations | | | | | | | |
| Receives educational accommodation | 24.7 | -0.4 | 0.63 | 0.8 | -0.013 | 4,635 | 4,566 |
| Receives training accommodation | 6.7 | -0.3 | 0.56 | 0.5 | -0.030 | 4,496 | 4,420 |
| Received supports or services for postsecondary education in the past year | 24.1 | 1.0 | 0.26 | 0.9 | 0.033 | 4,671 | 4,606 |

Source: PROMISE five-year surveys.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of All PROMISE programs. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

† Impacts for the six programs are significantly different from each other at the .10 level using an adjusted Wald test.

GED = General Educational Development.

Appendix Table I.9. All PROMISE programs: Impact on the youth's employment and earnings (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Control | | | Standard | | Treatment | Control |
|--|---------|----------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p-</i> value | error | Effect size | group N | group N |
| Primary outcomes | | | | | | | |
| Employed in a paid job in the past year ^a | 42.2 | 2.9*** | 0.01 | 1.0 | 0.071 | 4,723 | 4,654 |
| Earnings in the past year (\$) | 4,426 | 301 | 0.10 | 183 | 0.034 | 4,723 | 4,654 |
| Earnings during the five calendar years after RA (\$) | 11,626 | 711** | 0.03 | 331 | 0.037 | 6,302 | 6,282 |
| Supplementary outcomes | | | | | | | |
| Employment in the past year | | | | | | | |
| Any employment | 46.3 | 3.0*** | 0.00 | 1.0 | 0.072 | 4,723 | 4,654 |
| Weekly hours worked | 6.9 | 0.5* | 0.06 | 0.3 | 0.039 | 4,723 | 4,654 |
| Employed in a paid job offering fringe benefits | 23.8 | 1.1 | 0.23 | 0.9 | 0.035 | 4,723 | 4,654 |
| Employment settings | | | | | | | |
| Integrated | 34.6 | 2.3**† | 0.02 | 1.0 | 0.060 | 4,723 | 4,654 |
| Outside of school-sponsored activities | 37.3 | 2.2** | 0.03 | 1.0 | 0.057 | 4,723 | 4,654 |
| With coaching | 8.1 | 1.9*** | 0.00 | 0.6 | 0.143 | 4,723 | 4,654 |
| Received supports or services in getting or keeping a job | 18.6 | 3.3*** | 0.00 | 0.8 | 0.122 | 4,688 | 4,617 |
| Employment at the time of the survey | | | | | | | |
| Any paid employment | 24.9 | 2.5*** | 0.01 | 0.9 | 0.079 | 4,723 | 4,654 |
| Average weekly earnings (\$) | 86 | 10** | 0.02 | 4 | 0.050 | 4,723 | 4,654 |
| Weekly hours worked | 7.0 | 0.8** | 0.01 | 0.3 | 0.054 | 4,723 | 4,654 |
| Labor force participation | 50.3 | 3.4*** | 0.00 | 1.0 | 0.084 | 4,723 | 4,654 |
| Employment and earnings in calendar years after RA | | | | | | | |
| Ever employed in Year 1 | 18.9 | 15.6***† | 0.00 | 0.7 | 0.494 | 6,302 | 6,282 |
| Ever employed in Year 2 | 31.2 | 12.7***† | 0.00 | 0.8 | 0.330 | 6,302 | 6,282 |
| Ever employed in Year 3 | 42.3 | 8.2***† | 0.00 | 0.9 | 0.200 | 6,302 | 6,282 |
| Ever employed in Year 4 | 48.4 | 4.2*** | 0.00 | 0.9 | 0.103 | 6,302 | 6,282 |
| Ever employed in Year 5 | 49.7 | 1.5* | 0.08 | 0.9 | 0.037 | 6,302 | 6,282 |
| Ever employed during Years 1-5 | 65.4 | 11.2***† | 0.00 | 0.8 | 0.332 | 6,302 | 6,282 |
| Earnings in Year 1 (\$) | 362 | 204***† | 0.00 | 22 | 0.165 | 6,302 | 6,282 |

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| Outcome | Control mean | Impact | <i>p-</i> value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|----------|-----------------|-------------------|-------------|----------------------|--------------------|
| Earnings in Year 2 (\$) | 981 | 151*** | 0.00 | 43 | 0.061 | 6,302 | 6,282 |
| Earnings in Year 3 (\$) | 2,123 | 114 | 0.13 | 76 | 0.026 | 6,302 | 6,282 |
| Earnings in Year 4 (\$) | 3,469 | 75 | 0.50 | 111 | 0.012 | 6,302 | 6,282 |
| Earnings in Year 5 (\$) | 4,691 | 167 | 0.25 | 144 | 0.020 | 6,302 | 6,282 |
| VR services during the 5 years after RA ^a | | | | | | | |
| Applied for VR services | 22.4 | 24.7***† | 0.00 | 0.8 | 0.683 | 6,302 | 6,282 |
| Received VR services | 17.1 | 22.6***† | 0.00 | 0.7 | 0.705 | 6,302 | 6,282 |

Source: PROMISE five-year survey, RSA-911 data (VR service outcomes), and SSA administrative records (employment and earnings in years after RA).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of All PROMISE programs. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

† Impacts for the six programs are significantly different from each other at the .10 level using an adjusted Wald test.

^a RSA-911 data are available only through 2020. VR services outcomes used only four years of data for youth who enrolled in PROMISE in 2016.

N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration; VR = vocational rehabilitation.

Appendix Table I.10. All PROMISE programs: Impact on the youth's self-determination and expectations (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p-</i> value | Standard error | Effect size | Treatment group N | Control group N |
|--|--------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Self-determination score (scale: 0 to 100) ^a | 78.5 | -0.3 | 0.44 | 0.4 | -0.020 | 2,961 | 2,865 |
| Youth expects to be financially independent at age 25 | 60.5 | 2.6** | 0.04 | 1.3 | 0.067 | 3,025 | 2,943 |
| Supplementary outcomes | | | | | | | |
| Scores on subdomains of self-determination ^a | | | | | | | |
| Autonomy (scale: 0 to 300) | 138.3 | -1.2 | 0.45 | 1.5 | -0.020 | 2,967 | 2,872 |
| Psychological empowerment (scale: 0 to 100) | 87.2 | 0.2 | 0.65 | 0.5 | 0.012 | 2,953 | 2,868 |
| Self-realization (scale: 0 to 100) | 91.0 | -0.5 | 0.21 | 0.4 | -0.033 | 2,958 | 2,864 |
| Agentic action (scale: 0 to 100) | 89.6 | -0.3 | 0.63 | 0.6 | -0.013 | 2,956 | 2,858 |
| Youth expects to: | | | | | | | |
| Get postsecondary education (beyond high school/GED) | 59.8 | -2.2* | 0.08 | 1.3 | -0.055 | 2,968 | 2,860 |
| Live independently at age 25 | 63.9 | 0.8 | 0.49 | 1.2 | 0.022 | 2,982 | 2,900 |
| Be employed in a paid job at age 25 | 87.0 | 1.7** | 0.04 | 0.8 | 0.099 | 3,049 | 2,965 |
| Parent expects youth to: | | | | | | | |
| Get postsecondary education (beyond high school/GED) | 42.3 | 1.0 | 0.33 | 1.1 | 0.025 | 4,350 | 4,240 |
| Live independently at age 25 | 40.3 | -1.6 | 0.12 | 1.0 | -0.040 | 4,333 | 4,273 |
| Be financially independent at age 25 | 44.5 | 0.7 | 0.51 | 1.0 | 0.017 | 4,437 | 4,345 |
| Be employed in a paid job at age 25 | 78.1 | 2.6*** | 0.00 | 0.9 | 0.097 | 4,429 | 4,380 |
| Parent believes it important that youth be employed eventually | 90.0 | 1.5** | 0.01 | 0.6 | 0.110 | 4,324 | 4,265 |

Source: PROMISE five-year survey.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of All PROMISE programs. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

† Impacts for the six programs are significantly different from each other at the .10 level using an adjusted Wald test.

^a Higher scores on the scales indicate higher levels of self-determination.

GED = General Educational Development; N = sample size.

Appendix Table I.11. All PROMISE programs: Impact on the youth's SSA payments and knowledge (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|----------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Received SSA payments in Year 5 after RA | 64.0 | 1.6**† | 0.05 | 0.8 | 0.043 | 6,302 | 6,282 |
| Total SSA payments in Year 5 after RA (\$) | 5,232 | 100 | 0.18 | 75 | 0.022 | 6,302 | 6,282 |
| Total SSA payments during Years 1–5 after RA (\$) | 33,225 | 401* | 0.08 | 226 | 0.028 | 6,302 | 6,282 |
| Supplementary outcomes | | | | | | | |
| Aware of the following SSA policies | | | | | | | |
| Children receiving SSI are not automatically eligible for SSI as adults | 42.3 | 1.2 | 0.35 | 1.3 | 0.030 | 2,955 | 2,861 |
| People receiving SSI can work for pay | 71.5 | -1.1 | 0.37 | 1.2 | -0.031 | 2,956 | 2,861 |
| People receiving SSI must report earnings to SSA | 77.8 | 0.3† | 0.81 | 1.1 | 0.009 | 2,954 | 2,861 |
| Aware of the following work supports | | | | | | | |
| SSI Student Earned Income Exclusion | 7.3 | 4.4*** | 0.00 | 0.8 | 0.316 | 2,957 | 2,862 |
| SSI earned income exclusion | 6.8 | 2.5*** | 0.00 | 0.7 | 0.206 | 2,956 | 2,862 |
| SSI PASS plan | 7.1 | 2.9*** | 0.00 | 0.7 | 0.231 | 2,957 | 2,862 |
| ABLE account | 6.6 | 14.4***† | 0.00 | 0.8 | 0.807 | 2,955 | 2,862 |
| SSA payments in years after RA | | | | | | | |
| Received any in Year 1 | 97.0 | -0.2 | 0.44 | 0.2 | -0.033 | 6,302 | 6,282 |
| Received any in Year 2 | 91.8 | -0.1 | 0.76 | 0.4 | -0.011 | 6,302 | 6,282 |
| Received any in Year 3 | 85.1 | 0.3 | 0.62 | 0.6 | 0.014 | 6,302 | 6,282 |
| Received any in Year 4 | 73.4 | 2.4***† | 0.00 | 0.7 | 0.078 | 6,302 | 6,282 |
| Received any in Years 1–5 | 97.8 | -0.0 | 0.83 | 0.2 | -0.012 | 6,302 | 6,282 |
| Amount in Year 1 (\$) | 8,099 | -30 | 0.37 | 33 | -0.011 | 6,302 | 6,282 |
| Amount in Year 2 (\$) | 7,461 | 1 | 0.98 | 48 | 0.000 | 6,302 | 6,282 |
| Amount in Year 3 (\$) | 6,639 | 130** | 0.03 | 61 | 0.035 | 6,302 | 6,282 |
| Amount in Year 4 (\$) | 5,795 | 199*** | 0.00 | 70 | 0.048 | 6,302 | 6,282 |

| | Control | | | Standard | | Treatment | Control |
|------------------------------------|---------|---------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p</i> -value | error | Effect size | group N | group N |
| SSI payments in years after RA | | | | | | | |
| Received any in Year 1 | 96.2 | -0.1 | 0.46 | 0.2 | -0.023 | 6,302 | 6,282 |
| Received any in Year 2 | 90.0 | -0.0 | 0.98 | 0.5 | -0.001 | 6,302 | 6,282 |
| Received any in Year 3 | 82.2 | 1.0 | 0.11 | 0.6 | 0.044 | 6,302 | 6,282 |
| Received any in Year 4 | 71.0 | 2.7***† | 0.00 | 0.8 | 0.081 | 6,302 | 6,282 |
| Received any in Year 5 | 62.1 | 1.9** | 0.02 | 0.8 | 0.049 | 6,302 | 6,282 |
| Received any in Years 1–5 | 97.1 | 0.1 | 0.60 | 0.2 | 0.025 | 6,302 | 6,282 |
| Amount in Year 1 (\$) | 7,682 | -27 | 0.47 | 38 | -0.009 | 6,302 | 6,282 |
| Amount in Year 2 (\$) | 7,006 | 12 | 0.81 | 51 | 0.004 | 6,302 | 6,282 |
| Amount in Year 3 (\$) | 6,207 | 138** | 0.03 | 62 | 0.037 | 6,302 | 6,282 |
| Amount in Year 4 (\$) | 5,390 | 223*** | 0.00 | 69 | 0.054 | 6,302 | 6,282 |
| Amount in Year 5 (\$) | 4,853 | 100 | 0.17 | 73 | 0.023 | 6,302 | 6,282 |
| Total amount during Years 1–5 (\$) | 31,137 | 446* | 0.06 | 234 | 0.030 | 6,302 | 6,282 |
| OASDI benefits in years after RA | | | | | | | |
| Received any in Year 1 | 11.6 | -0.0 | 1.00 | 0.5 | -0.000 | 6,302 | 6,282 |
| Received any in Year 2 | 12.6 | -0.2 | 0.70 | 0.5 | -0.012 | 6,302 | 6,282 |
| Received any in Year 3 | 11.5 | -0.4 | 0.49 | 0.5 | -0.022 | 6,302 | 6,282 |
| Received any in Year 4 | 9.8 | -0.5 | 0.37 | 0.5 | -0.032 | 6,302 | 6,282 |
| Received any in Year 5 | 7.8 | 0.1 | 0.82 | 0.5 | 0.009 | 6,302 | 6,282 |
| Received any in Years 1–5 | 15.2 | 0.2 | 0.77 | 0.6 | 0.008 | 6,302 | 6,282 |
| Amount in Year 1 (\$) | 417 | -2 | 0.93 | 26 | -0.002 | 6,302 | 6,282 |
| Amount in Year 2 (\$) | 455 | -11 | 0.70 | 28 | -0.007 | 6,302 | 6,282 |
| Amount in Year 3 (\$) | 432 | -8 | 0.79 | 29 | -0.005 | 6,302 | 6,282 |
| Amount in Year 4 (\$) | 404 | -24 | 0.42 | 29 | -0.014 | 6,302 | 6,282 |
| Amount in Year 5 (\$) | 379 | 0 | 1.00 | 31 | 0.000 | 6,302 | 6,282 |
| Total amount during Years 1–5 (\$) | 2,088 | -45 | 0.72 | 123 | -0.006 | 6,302 | 6,282 |

| Outcome | Control mean | Impact | <i>p-</i> value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Age-18 redetermination status five years after RA | | | | | | | |
| Final decision: benefits ceased | 23.3 | 0.3 | 0.69 | 0.7 | 0.010 | 6,302 | 6,282 |
| Final decision: benefits continued | 41.6 | -0.4 | 0.66 | 0.8 | -0.009 | 6,302 | 6,282 |
| Final decision is pending | 7.6 | -0.1 | 0.86 | 0.5 | -0.007 | 6,302 | 6,282 |
| Did not have an age-18 redetermination | 27.5 | 0.2 | 0.84 | 0.7 | 0.005 | 6,302 | 6,282 |

Source: SSA administrative records and PROMISE five-year survey (awareness of work supports and SSA policies).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of All PROMISE programs. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+ Impacts for the six programs are significantly different from each other at the .10 level using an adjusted Wald test.

ABLE = Achieving a Better Life Experience; OASDI = Old-Age, Survivors, and Disability Insurance; PASS = Plan for Achieving Self Support; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income.

Appendix Table I.12. All PROMISE programs: Impact on the youth's health insurance coverage and expenditures (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | Inean | impact | p-value | | | group i | group n |
| Covered by any health insurance | 89.0 | -0.9† | 0.16 | 0.7 | -0.056 | 4,559 | 4,525 |
| Average monthly Medicaid and Medicare expenditures in the five years after RA (\$) | 1,176 | -24* | 0.10 | 14 | -0.019 | 6,302 | 6,282 |
| Supplementary outcomes | | | | | | | |
| Covered by private health insurance | 9.6 | 0.3 | 0.69 | 0.6 | 0.018 | 4,559 | 4,525 |
| Covered by private health insurance purchased through an ACA health exchange | 0.4 | -0.0 | 0.83 | 0.1 | -0.045 | 4,559 | 4,525 |
| Medicaid and Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 98.7 | 0.5*** | 0.00 | 0.2 | 0.330 | 6,302 | 6,282 |
| Ever enrolled in Year 2 | 97.6 | -0.1 | 0.72 | 0.3 | -0.025 | 6,302 | 6,282 |
| Ever enrolled in Year 3 | 95.9 | 0.1 | 0.75 | 0.4 | 0.018 | 6,302 | 6,282 |
| Ever enrolled in Year 4 | 92.8 | 0.2 | 0.62 | 0.5 | 0.021 | 6,302 | 6,282 |
| Ever enrolled in Year 5 | 89.5 | 0.1 | 0.82 | 0.5 | 0.008 | 6,302 | 6,282 |
| Percentage of months enrolled in Years 1–5 | 90.9 | 0.2 | 0.44 | 0.3 | 0.013 | 6,302 | 6,282 |
| Average monthly Medicaid and Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 1,114 | 3 | 0.79 | 11 | 0.003 | 6,302 | 6,282 |
| Year 2 (\$) | 1,241 | -22 | 0.15 | 15 | -0.017 | 6,302 | 6,282 |
| Year 3 (\$) | 1,191 | -21 | 0.25 | 18 | -0.015 | 6,302 | 6,282 |
| Year 4 (\$) | 1,174 | -29 | 0.16 | 21 | -0.019 | 6,302 | 6,282 |
| Year 5 (\$) | 1,161 | -49** | 0.03 | 22 | -0.032 | 6,302 | 6,282 |
| Medicaid participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 98.7 | 0.5*** | 0.00 | 0.2 | 0.330 | 6,302 | 6,282 |
| Ever enrolled in Year 2 | 97.6 | -0.1 | 0.72 | 0.3 | -0.025 | 6,302 | 6,282 |
| Ever enrolled in Year 3 | 95.9 | 0.1 | 0.75 | 0.4 | 0.018 | 6,302 | 6,282 |
| Ever enrolled in Year 4 | 92.7 | 0.3 | 0.58 | 0.5 | 0.024 | 6,302 | 6,282 |
| Ever enrolled in Year 5 | 89.3 | 0.2 | 0.77 | 0.6 | 0.010 | 6,302 | 6,282 |

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| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Percentage of months enrolled in Years 1–5 | 90.8 | 0.3 | 0.43 | 0.3 | 0.014 | 6,302 | 6,282 |
| Average monthly Medicaid expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 1,111 | 2 | 0.86 | 11 | 0.002 | 6,302 | 6,282 |
| Year 2 (\$) | 1,239 | -24 | 0.13 | 15 | -0.018 | 6,302 | 6,282 |
| Year 3 (\$) | 1,189 | -23 | 0.21 | 18 | -0.016 | 6,302 | 6,282 |
| Year 4 (\$) | 1,162 | -24 | 0.22 | 20 | -0.017 | 6,302 | 6,282 |
| Year 5 (\$) | 1,133 | -36* | 0.09 | 21 | -0.024 | 6,302 | 6,282 |
| Years 1–5 (\$) | 1,167 | -21 | 0.14 | 14 | -0.017 | 6,302 | 6,282 |
| Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 0.1 | -0.0 | 0.79 | 0.0 | -0.114 | 6,302 | 6,282 |
| Ever enrolled in Year 2 | 0.1 | -0.0 | 0.77 | 0.0 | -0.125 | 6,302 | 6,282 |
| Ever enrolled in Year 3 | 0.3 | -0.1 | 0.46 | 0.1 | -0.159 | 6,302 | 6,282 |
| Ever enrolled in Year 4 | 2.4 | -0.1 | 0.79 | 0.3 | -0.019 | 6,302 | 6,282 |
| Ever enrolled in Year 5 | 4.7 | -0.5 | 0.18 | 0.4 | -0.069 | 6,302 | 6,282 |
| Percentage of months enrolled in Years 1–5 | 1.1 | -0.1 | 0.41 | 0.1 | -0.014 | 6,302 | 6,282 |
| Average monthly Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 2 | 1 | 0.68 | 2 | 0.007 | 6,302 | 6,282 |
| Year 2 (\$) | 2 | 1 | 0.50 | 2 | 0.011 | 6,302 | 6,282 |
| Year 3 (\$) | 2 | 2 | 0.40 | 2 | 0.015 | 6,302 | 6,282 |
| Year 4 (\$) | 12 | -4 | 0.40 | 5 | -0.016 | 6,302 | 6,282 |
| Year 5 (\$) | 29 | -13* | 0.06 | 7 | -0.034 | 6,302 | 6,282 |
| Years 1–5 (\$) | 9 | -3 | 0.31 | 3 | -0.018 | 6,302 | 6,282 |

Source: CMS administrative records and PROMISE five-year survey (non-Medicare/Medicaid outcomes).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of All PROMISE programs. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

† Impacts for the six programs are significantly different from each other at the .10 level using an adjusted Wald test.

ACA = Affordable Care Act; CMS = Centers for Medicare & Medicaid Services; N = sample size; RA = random assignment.

Appendix Table I.13. All PROMISE programs: Impact on the youth's economic and social well-being (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Control | | | Standard | | Treatment | Control |
|---|---------|-----------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p-</i> value | error | Effect size | group N | group N |
| Primary outcomes | | | | | | | |
| Total income in the past year (\$) | 9,858 | 373** | 0.03 | 173 | 0.046 | 4,723 | 4,654 |
| Total income during the five calendar years after RA (\$) | 46,184 | 1,136***† | 0.00 | 338 | 0.057 | 6,302 | 6,282 |
| Supplementary outcomes | | | | | | | |
| Engaging in productive market activities ^a | 76.4 | 0.8 | 0.34 | 0.9 | 0.029 | 4,656 | 4,562 |
| Income in calendar years after RA | | | | | | | |
| Year 1 (\$) | 8,746 | 190*** | 0.00 | 49 | 0.056 | 6,302 | 6,282 |
| Year 2 (\$) | 8,642 | 210***† | 0.00 | 66 | 0.053 | 6,302 | 6,282 |
| Year 3 (\$) | 8,907 | 313***† | 0.00 | 86 | 0.064 | 6,302 | 6,282 |
| Year 4 (\$) | 9,594 | 213* | 0.05 | 109 | 0.035 | 6,302 | 6,282 |
| Year 5 (\$) | 10,294 | 210 | 0.12 | 135 | 0.028 | 6,302 | 6,282 |
| Household income in the past year (\$) ^b | 30,410 | 352 | 0.41 | 431 | 0.018 | 4,099 | 4,047 |
| Household receives TANF, SNAP, or housing assistance ^b | 47.6 | 1.2 | 0.26 | 1.0 | 0.029 | 4,234 | 4,183 |
| Amount of public assistance in the past month | | | | | | | |
| TANF (\$) ^b | 18 | 4* | 0.07 | 2 | 0.039 | 4,245 | 4,203 |
| SNAP benefits (\$) ^b | 138 | 8* | 0.09 | 5 | 0.036 | 4,273 | 4,221 |
| Housing assistance (\$) ^b | 136 | 8 | 0.29 | 8 | 0.022 | 4,256 | 4,216 |
| Family structure and living arrangements | | | | | | | |
| Living independently | 13.0 | 0.7 | 0.33 | 0.7 | 0.035 | 4,713 | 4,642 |
| Married or in a marriage-like relationship | 4.7 | 0.3 | 0.49 | 0.5 | 0.042 | 4,502 | 4,429 |
| Responsible for a child or children | 9.1 | 1.2* | 0.06 | 0.6 | 0.080 | 4,488 | 4,424 |
| Engagement with the criminal justice system | | | | | | | |
| Ever arrested | 12.3 | 1.2* | 0.07 | 0.7 | 0.067 | 4,473 | 4,413 |
| Number of times arrested | 0.3 | -0.0 | 0.93 | 0.0 | -0.002 | 4,473 | 4,413 |
| Arrested in the past year | 4.1 | 0.7 | 0.11 | 0.4 | 0.100 | 4,465 | 4,407 |
| Ever incarcerated | 4.2 | -0.6† | 0.16 | 0.4 | -0.094 | 4,433 | 4,382 |
| Length of incarceration (days) | 21.9 | -7.0**† | 0.02 | 3.1 | -0.050 | 4,433 | 4,382 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Self-reported health status | | | | | | | |
| Poor | 4.5 | 0.3 | 0.56 | 0.4 | 0.035 | 4,473 | 4,415 |
| Fair | 15.1 | 0.6 | 0.45 | 0.8 | 0.027 | 4,473 | 4,415 |
| Good | 38.7 | -0.4 | 0.71 | 1.0 | -0.010 | 4,473 | 4,415 |
| Very good or excellent | 41.7 | -0.5 | 0.66 | 1.1 | -0.011 | 4,473 | 4,415 |
| Received help in getting accommodations for school, work, or living independently in past year | 17.3 | 1.9** | 0.02 | 0.8 | 0.078 | 4,673 | 4,618 |

Source: PROMISE five-year surveys and SSA administrative records (SSA payments and income in calendar years after RA).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of All PROMISE programs. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

† Impacts for the six programs are significantly different from each other at the .10 level using an adjusted Wald test.

^a Productive market activities include engaging in any of the following at the time of the five-year survey: employment in paid or unpaid work, looking for work, or enrollment in school or a training program.

^b This outcome is based on data from the parent survey about the parent's household if the youth lived with the parent at interview.

N = sample size; RA = random assignment; SNAP = Supplemental Nutrition Assistance Program; SSA = Social Security Administration; TANF = Temporary Assistance for Needy Families.

Appendix Table I.14. All PROMISE programs: Impact on the parents' employment and earnings (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | 1 | | 1 | | | |
| Either parent worked for pay in the past year | 66.7 | 0.7 | 0.42 | 0.9 | 0.020 | 4,641 | 4,543 |
| Parents' earnings in the past year (\$) | 22,469 | 344 | 0.51 | 519 | 0.013 | 4,644 | 4,547 |
| Parents' earnings during the five calendar years after RA (\$) | 109,330 | 57 | 0.96 | 1,254 | 0.001 | 5,844 | 5,790 |
| Supplementary outcomes | | | | | | | |
| Highest educational attainment achieved by either parent | | | | | | | |
| Not a high school graduate | 23.2 | -0.3 | 0.68 | 0.8 | -0.012 | 4,646 | 4,550 |
| High school diploma or GED | 35.6 | -0.6 | 0.53 | 1.0 | -0.017 | 4,646 | 4,550 |
| Some postsecondary education or more | 40.1 | 0.5 | 0.59 | 1.0 | 0.013 | 4,646 | 4,550 |
| Other or do not know | 1.1 | 0.4* | 0.07 | 0.2 | 0.205 | 4,646 | 4,550 |
| Employment in the past year | | | | | | | |
| Number of parents that worked for pay | 0.8 | 0.0 | 0.53 | 0.0 | 0.012 | 4,630 | 4,535 |
| Number of weeks worked | 37.2 | 0.3 | 0.67 | 0.6 | 0.008 | 4,630 | 4,535 |
| Weekly hours worked | 29.0 | 0.3 | 0.59 | 0.5 | 0.011 | 4,644 | 4,547 |
| Either parent was offered fringe benefits through a job | 47.6 | 0.3 | 0.75 | 1.0 | 0.008 | 4,635 | 4,540 |
| Employment at the time of survey | | | | | | | |
| Either parent is in the labor force | 68.0 | 0.7 | 0.44 | 0.9 | 0.020 | 4,447 | 4,371 |
| Either parent is working for pay | 56.5 | 0.2 | 0.84 | 1.0 | 0.005 | 4,454 | 4,391 |
| Employment and earnings in calendar years after RA | | | | | | | |
| Ever employed in Year 1 | 72.5 | 0.0 | 0.99 | 0.7 | 0.000 | 5,844 | 5,790 |
| Ever employed in Year 2 | 72.3 | 1.1 | 0.11 | 0.7 | 0.035 | 5,844 | 5,790 |
| Ever employed in Year 3 | 73.4 | 0.4† | 0.58 | 0.7 | 0.012 | 5,844 | 5,790 |
| Ever employed in Year 4 | 73.5 | 0.5 | 0.48 | 0.7 | 0.016 | 5,844 | 5,790 |
| Ever employed in Year 5 | 71.7 | 0.4 | 0.58 | 0.7 | 0.012 | 5,844 | 5,790 |
| Ever employed in Years 1-5 | 82.8 | 0.5† | 0.43 | 0.6 | 0.021 | 5,844 | 5,790 |
| Earnings in Year 1 (\$) | 19,686 | 37 | 0.87 | 219 | 0.002 | 5,844 | 5,790 |
| Earnings in Year 2 (\$) | 20,858 | -14 | 0.96 | 258 | -0.001 | 5,844 | 5,790 |
| Earnings in Year 3 (\$) | 22,199 | 42 | 0.88 | 289 | 0.002 | 5,844 | 5,790 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|-------------------------|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Earnings in Year 4 (\$) | 23,316 | -161 | 0.62 | 324 | -0.006 | 5,844 | 5,790 |
| Earnings in Year 5 (\$) | 23,272 | 154 | 0.67 | 364 | 0.006 | 5,844 | 5,790 |

Source: PROMISE five-year survey and SSA administrative records (employment and earnings in years after RA).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of All PROMISE programs. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

† Impacts for the six programs are significantly different from each other at the .10 level using an adjusted Wald test.

GED = General Educational Development; N = sample size; RA = random assignment.

Appendix Table I.15. All PROMISE programs: Impact on the parents' SSA payments (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Control | | | Standard | | Treatment | Control |
|--|---------|--------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p</i> -value | error | Effect size | group N | group N |
| Primary outcomes | | | | | | | |
| Either parent received SSA payments in Year 5 | 29.7 | -0.8 | 0.16 | 0.6 | -0.023 | 5,844 | 5,790 |
| Total SSA payments received in Year 5 (\$) | 3,240 | -26 | 0.75 | 79 | -0.005 | 5,844 | 5,790 |
| Total SSA payments during the five years after RA (\$) | 15,233 | -51 | 0.86 | 282 | -0.002 | 5,844 | 5,790 |
| Supplementary outcomes | | | | | | | |
| SSA payments in years after RA | | | | | | | |
| Received any in Year 1 | 26.0 | -0.1 | 0.76 | 0.3 | -0.003 | 5,844 | 5,790 |
| Received any in Year 2 | 27.3 | -0.5 | 0.15 | 0.4 | -0.016 | 5,844 | 5,790 |
| Received any in Year 3 | 28.4 | -0.9* | 0.05 | 0.4 | -0.026 | 5,844 | 5,790 |
| Received any in Year 4 | 29.1 | -1.1** | 0.03 | 0.5 | -0.033 | 5,844 | 5,790 |
| Received any in Years 1–5 | 32.5 | -0.4 | 0.43 | 0.5 | -0.011 | 5,844 | 5,790 |
| Amount in Year 1 (\$) | 2,842 | 36 | 0.49 | 52 | 0.007 | 5,844 | 5,790 |
| Amount in Year 2 (\$) | 2,957 | 42 | 0.51 | 64 | 0.008 | 5,844 | 5,790 |
| Amount in Year 3 (\$) | 3,079 | -62 | 0.37 | 70 | -0.011 | 5,844 | 5,790 |
| Amount in Year 4 (\$) | 3,114 | -41 | 0.57 | 72 | -0.007 | 5,844 | 5,790 |
| SSI payments in years after RA | | | | | | | |
| Received any in Year 1 | 16.1 | -0.3† | 0.32 | 0.3 | -0.011 | 5,844 | 5,790 |
| Received any in Year 2 | 16.3 | -0.4 | 0.27 | 0.3 | -0.017 | 5,844 | 5,790 |
| Received any in Year 3 | 16.7 | -0.6 | 0.11 | 0.4 | -0.028 | 5,844 | 5,790 |
| Received any in Year 4 | 16.5 | -0.7 | 0.12 | 0.4 | -0.030 | 5,844 | 5,790 |
| Received any in Year 5 | 16.4 | -0.4 | 0.38 | 0.5 | -0.018 | 5,844 | 5,790 |
| Received any in Years 1–5 | 20.6 | -0.2 | 0.67 | 0.5 | -0.007 | 5,844 | 5,790 |
| Amount in Year 1 (\$) | 1,207 | -2† | 0.94 | 31 | -0.001 | 5,844 | 5,790 |
| Amount in Year 2 (\$) | 1,223 | -10 | 0.79 | 37 | -0.003 | 5,844 | 5,790 |
| Amount in Year 3 (\$) | 1,230 | -72* | 0.06 | 39 | -0.023 | 5,844 | 5,790 |
| Amount in Year 4 (\$) | 1,199 | -49 | 0.23 | 40 | -0.015 | 5,844 | 5,790 |
| Amount in Year 5 (\$) | 1,230 | -60 | 0.16 | 43 | -0.019 | 5,844 | 5,790 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|------------------------------------|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Total amount during Years 1–5 (\$) | 6,089 | -193 | 0.21 | 154 | -0.013 | 5,844 | 5,790 |
| OASDI benefits in years after RA | | | | | | | |
| Received any in Year 1 | 15.8 | 0.1 | 0.80 | 0.3 | 0.003 | 5,844 | 5,790 |
| Received any in Year 2 | 16.8 | -0.1 | 0.87 | 0.3 | -0.002 | 5,844 | 5,790 |
| Received any in Year 3 | 17.8 | -0.4 | 0.25 | 0.4 | -0.019 | 5,844 | 5,790 |
| Received any in Year 4 | 18.6 | -0.5 | 0.29 | 0.4 | -0.019 | 5,844 | 5,790 |
| Received any in Year 5 | 19.0 | -0.3 | 0.58 | 0.5 | -0.011 | 5,844 | 5,790 |
| Received any in Years 1–5 | 20.8 | -0.1 | 0.77 | 0.5 | -0.005 | 5,844 | 5,790 |
| Amount in Year 1 (\$) | 1,635 | 38 | 0.36 | 42 | 0.009 | 5,844 | 5,790 |
| Amount in Year 2 (\$) | 1,734 | 52 | 0.31 | 51 | 0.012 | 5,844 | 5,790 |
| Amount in Year 3 (\$) | 1,849 | 9 | 0.87 | 57 | 0.002 | 5,844 | 5,790 |
| Amount in Year 4 (\$) | 1,915 | 8 | 0.90 | 61 | 0.002 | 5,844 | 5,790 |
| Amount in Year 5 (\$) | 2,010 | 35 | 0.60 | 67 | 0.007 | 5,844 | 5,790 |
| Total amount during Years 1–5 (\$) | 9,143 | 142 | 0.55 | 241 | 0.007 | 5,844 | 5,790 |

Source: SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of All PROMISE programs. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

† Impacts for the six programs are significantly different from each other at the .10 level using an adjusted Wald test.

N = sample size; OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SSA = Social Security Administration; SSI = Supplemental Security Income.

Appendix Table I.16. All PROMISE programs: Impact on the parents' health insurance coverage and expenditures (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Control | | | Standard | | Treatment | Control |
|--|---------|--------|-----------------|----------|-------------|-----------|---------|
| Outcome | mean | Impact | <i>p</i> -value | error | Effect size | group N | group N |
| Primary outcomes | | | | | | | |
| Either parent is covered by health insurance | 89.9 | 0.4 | 0.46 | 0.6 | 0.030 | 4,609 | 4,522 |
| Average monthly Medicaid and Medicare expenditures in the five years after RA (\$) | 648 | 20** | 0.05 | 10 | 0.024 | 5,844 | 5,790 |
| Supplementary outcomes | | | | | | | |
| Covered by private health insurance | 25.6 | 0.5 | 0.59 | 0.9 | 0.015 | 4,613 | 4,523 |
| Medicaid and Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 84.6 | 0.7 | 0.24 | 0.6 | 0.034 | 5,844 | 5,790 |
| Ever enrolled in Year 2 | 83.8 | 0.2 | 0.76 | 0.6 | 0.009 | 5,844 | 5,790 |
| Ever enrolled in Year 3 | 82.2 | -0.1 | 0.84 | 0.7 | -0.006 | 5,844 | 5,790 |
| Ever enrolled in Year 4 | 80.0 | -0.2 | 0.82 | 0.7 | -0.006 | 5,844 | 5,790 |
| Ever enrolled in Year 5 | 77.7 | 0.2 | 0.80 | 0.7 | 0.007 | 5,844 | 5,790 |
| Percentage of months enrolled in Years 1–5 | 76.8 | 0.3 | 0.66 | 0.6 | 0.007 | 5,844 | 5,790 |
| Average monthly Medicaid and Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 588 | 9 | 0.30 | 9 | 0.012 | 5,844 | 5,790 |
| Year 2 (\$) | 639 | 24** | 0.03 | 11 | 0.027 | 5,844 | 5,790 |
| Year 3 (\$) | 660 | 24* | 0.07 | 13 | 0.025 | 5,844 | 5,790 |
| Year 4 (\$) | 671 | 29* | 0.05 | 15 | 0.028 | 5,844 | 5,790 |
| Year 5 (\$) | 682 | 14 | 0.39 | 16 | 0.013 | 5,844 | 5,790 |
| Medicaid participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 82.8 | 0.6 | 0.32 | 0.7 | 0.028 | 5,844 | 5,790 |
| Ever enrolled in Year 2 | 81.8 | 0.2 | 0.79 | 0.7 | 0.007 | 5,844 | 5,790 |
| Ever enrolled in Year 3 | 79.9 | -0.0 | 0.98 | 0.7 | -0.001 | 5,844 | 5,790 |
| Ever enrolled in Year 4 | 77.1 | 0.1 | 0.94 | 0.7 | 0.002 | 5,844 | 5,790 |
| Ever enrolled in Year 5 | 74.5 | 0.6 | 0.44 | 0.8 | 0.019 | 5,844 | 5,790 |
| Percentage of months enrolled in Years 1–5 | 73.9 | 0.4 | 0.51 | 0.6 | 0.011 | 5,844 | 5,790 |

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|---|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Average monthly Medicaid expenditures in years after RA | | impuot | pvalae | | | group n | group it |
| Year 1 (\$) | 473 | 1 | 0.88 | 7 | 0.002 | 5,844 | 5,790 |
| Year 2 (\$) | 517 | -3 | 0.73 | 9 | -0.005 | 5,844 | 5,790 |
| Year 3 (\$) | 524 | 4 | 0.67 | 10 | 0.006 | 5,844 | 5,790 |
| Year 4 (\$) | 527 | 9 | 0.43 | 11 | 0.012 | 5,844 | 5,790 |
| Year 5 (\$) | 532 | 1 | 0.96 | 12 | 0.001 | 5,844 | 5,790 |
| Years 1–5 (\$) | 514 | 2 | 0.78 | 8 | 0.004 | 5,844 | 5,790 |
| Medicare participation in years after RA | | | | | | | |
| Ever enrolled in Year 1 | 15.1 | 0.4 | 0.23 | 0.3 | 0.018 | 5,844 | 5,790 |
| Ever enrolled in Year 2 | 16.1 | 0.2 | 0.64 | 0.3 | 0.007 | 5,844 | 5,790 |
| Ever enrolled in Year 3 | 17.0 | -0.0 | 0.98 | 0.4 | -0.000 | 5,844 | 5,790 |
| Ever enrolled in Year 4 | 18.1 | -0.5 | 0.27 | 0.4 | -0.019 | 5,844 | 5,790 |
| Ever enrolled in Year 5 | 18.9 | -0.7 | 0.14 | 0.5 | -0.027 | 5,844 | 5,790 |
| Percentage of months enrolled in Years 1–5 | 16.3 | -0.2 | 0.59 | 0.3 | -0.005 | 5,844 | 5,790 |
| Average monthly Medicare expenditures in years after RA | | | | | | | |
| Year 1 (\$) | 114 | 8 | 0.28 | 8 | 0.015 | 5,844 | 5,790 |
| Year 2 (\$) | 123 | 27*** | 0.00 | 9 | 0.047 | 5,844 | 5,790 |
| Year 3 (\$) | 136 | 20** | 0.03 | 9 | 0.033 | 5,844 | 5,790 |
| Year 4 (\$) | 144 | 20** | 0.05 | 10 | 0.031 | 5,844 | 5,790 |
| Year 5 (\$) | 150 | 13 | 0.22 | 11 | 0.020 | 5,844 | 5,790 |
| Years 1–5 (\$) | 134 | 18** | 0.02 | 7 | 0.034 | 5,844 | 5,790 |

Source: CMS administrative records and PROMISE five-year survey (non-Medicare/Medicaid outcomes).

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of All PROMISE programs. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

† Impacts for the six programs are significantly different from each other at the .10 level using an adjusted Wald test.

CMS = Centers for Medicare & Medicaid Services; N = sample size.

Appendix Table I.17. All PROMISE programs: Impact on the parents' economic well-being (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| Outcome | Control mean | Impact | <i>p</i> -value | Standard error | Effect size | Treatment group N | Control group N |
|--|-----------------|--------|-----------------|-------------------|-------------|----------------------|--------------------|
| Primary outcomes | | | | | | | |
| Parents' total income in the past year (\$) | 26,109 | 302 | 0.57 | 527 | 0.012 | 4,341 | 4,230 |
| Parents' total income during the five calendar years after RA (\$) | 126,062 | 43 | 0.97 | 1,231 | 0.000 | 5,844 | 5,790 |
| Supplementary outcomes | | | | | | | |
| Parents' income in calendar years after RA | | | | | | | |
| Year 1 (\$) | 22,820 | 76 | 0.73 | 222 | 0.004 | 5,844 | 5,790 |
| Year 2 (\$) | 24,133 | -24 | 0.93 | 259 | -0.001 | 5,844 | 5,790 |
| Year 3 (\$) | 25,553 | 38 | 0.89 | 286 | 0.002 | 5,844 | 5,790 |
| Year 4 (\$) | 26,732 | -153 | 0.63 | 317 | -0.006 | 5,844 | 5,790 |
| Year 5 (\$) | 26,824 | 105 | 0.77 | 356 | 0.004 | 5,844 | 5,790 |
| Household receives TANF, SNAP, or housing assistance | 49.4 | 0.5 | 0.63 | 1.0 | 0.012 | 4,561 | 4,474 |
| Household income in the past year (\$) | 31,876 | 505 | 0.22 | 414 | 0.025 | 4,439 | 4,351 |

Source: PROMISE five-year survey and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of All PROMISE programs. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

† Impacts for the six programs are significantly different from each other at the .10 level using an adjusted Wald test.

N = sample size; RA = random assignment; SSA = Social Security Administration.

2. Sensitivity analyses

We assessed the sensitivity of the estimated impacts on primary outcomes to methodological choices we incorporated in the main impact estimates. In Appendix Table I.18, we show the impact estimated by the main regression model for each outcome, as well as by alternative models that do not (1) use the survey weights, (2) include covariate adjustment, and (3) use imputed data for outcomes that underwent multiple imputation. The alternative models produced broadly similar results, suggesting that the main model's estimates of program impacts were not sensitive to the choice of estimation method.

We also assessed the extent to which the lack of survey data for some enrollees would influence the estimates of program impacts. In Appendix Table I.19, we compare how the estimated impacts on primary outcomes varied when nonrespondents were included and excluded from analyses of outcomes measured using administrative data. The findings suggest that use of the analysis weights minimized the potential for nonresponse bias because the estimated impacts for the survey respondent sample were comparable to those for the full research sample.

Appendix Table I.18. All PROMISE programs: Impact on primary outcomes, by estimation approach (values measured at the time of the survey and shown in in percentages, unless otherwise noted)

| Outcome | Main model | No weighting for non- response | No covariate adjustment | No imputation |
|--|------------|--------------------------------------|----------------------------|------------------|
| Enrolled in an educational or training program | -1.3 | -1.0 | -1.3 | n.a. |
| Has a GED, high school diploma, or certificate of completion | -2.0** | -1.9** | -2.0** | n.a. |
| Youth employed in a paid job in the past year | 2.9*** | 2.9*** | 2.8*** | 3.0*** |
| Youth earnings in the past year (\$) | 301 | 346* | 318* | 279 |
| Youth earnings during the five calendar years after RA (\$) | 711** | n.a. | 685** | n.a. |
| Youth self-determination score (scale: 0 to 100) ^a | -0.3 | -0.4 | -0.3 | n.a. |
| Youth expects to be financially independent at age 25 | 2.6** | 2.6** | 2.5* | n.a. |
| Youth received SSA payments in Year 5 after RA | 1.6** | n.a. | 1.8** | n.a. |
| Youth total SSA payments in Year 5 after RA (\$) | 100 | n.a. | 115 | n.a. |
| Youth total SSA payments during Years 1–5 after RA (\$) | 401* | n.a. | 410 | n.a. |
| Youth covered by any health insurance | -0.9 | -0.6 | -0.9 | n.a. |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | -24* | n.a. | -24* | n.a. |
| Youth total income in the past year (\$) | 373** | 442*** | 397** | 294* |
| Youth total income during the five calendar years after RA (\$) | 1,136*** | n.a. | 1,127*** | n.a. |
| Either parent worked for pay in the past year | 0.7 | 0.6 | 0.8 | n.a. |
| Parents' earnings in the past year (\$) | 344 | 327 | 411 | 350 |
| Parents' earnings during the five calendar years after RA (\$) | 57 | n.a. | -187 | n.a. |
| Either parent received SSA payments in Year 5 after RA | -0.8 | n.a. | -0.3 | n.a. |
| Parents' total SSA payments received in Year 5 after RA (\$) | -26 | n.a. | 31 | n.a. |
| Parents' total SSA payments during the five years after RA (\$) | -51 | n.a. | 252 | n.a. |
| Parents' total income in the past year (\$) | 302 | 301 | 373 | 300 |
| Parents' income during the five calendar years after RA (\$) | 43 | n.a. | 117 | n.a. |
| Either parent is covered by health insurance | 0.4 | 0.4 | 0.5 | n.a. |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 20** | n.a. | 20** | n.a. |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the impact estimates of All PROMISE programs, using different modeling approaches. In the main model, we used covariate adjustment and, for outcomes derived from survey data, we weighted statistics to adjust for survey nonresponse and used multiple imputation when an

outcome had a missing value conditional on the value of another variable. In the model with "No weighting for non-response", we followed the main model but did not apply weights to adjust for non-response. In the model with "No covariate adjustment", we followed the main model but did not include covariates. For the model with "No multiple imputation", we followed the main model except that we excluded cases with outcomes that had a missing value conditional on the value of another variable.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

CMS = Centers for Medicare & Medicaid Services; GED = General Educational Development; N = sample size; n.a.= not applicable; RA = random assignment; SSA = Social Security Administration.

Appendix Table I.19. All PROMISE programs: Impact on primary outcomes measured using administrative data, including and excluding five-year survey nonrespondents (percentage, unless otherwise noted)

| | Administrative analysis samples | | | Five-year survey respondents (weighted) | | | |
|--|---------------------------------|----------|-----------------|--|----------|-----------------|-----------------------------------|
| Outcome | Control mean | Impact | <i>p-</i> value | Control mean | Impact | <i>p</i> -value | <i>p</i> -value for difference |
| Youth earnings during the five calendar years after RA (\$) | 11,626 | 711** | 0.03 | 10,879 | 1,104*** | 0.00 | 0.26 |
| Youth received SSA payments in Year 5 after RA | 64.0 | 1.6** | 0.05 | 67.0 | 2.0** | 0.03 | 0.67 |
| Youth total SSA payments in Year 5 after RA (\$) | 5,232 | 100 | 0.18 | 5,542 | 75 | 0.38 | 0.76 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 33,225 | 401* | 0.08 | 34,021 | 343 | 0.19 | 0.81 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,176 | -24* | 0.10 | 1,204 | -25 | 0.12 | 0.91 |
| Youth total income during the five calendar years after RA (\$) | 46,184 | 1,136*** | 0.00 | 46,399 | 1,487*** | 0.00 | 0.33 |
| Parents' earnings during the five calendar years after RA (\$) | 109,330 | 57 | 0.96 | 110,908 | 240 | 0.87 | 0.89 |
| Either parent received SSA payments in Year 5 after RA | 29.7 | -0.8 | 0.16 | 30.5 | -1.1* | 0.09 | 0.63 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,240 | -26 | 0.75 | 3,378 | -92 | 0.31 | 0.43 |
| Parents' total SSA payments during the five years after RA (\$) | 15,233 | -51 | 0.86 | 15,533 | -375 | 0.24 | 0.28 |
| Parents' total income during the five calendar years after RA (\$) | 126,062 | 43 | 0.97 | 128,037 | -108 | 0.94 | 0.91 |
| Parents' average monthly Medicaid and Medicare expenditures in years after RA in Years 1-5 after RA (\$) | 648 | 20** | 0.05 | 652 | 15 | 0.17 | 0.67 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of All PROMISE programs for administrative analysis samples and five-year survey respondents. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For the sample of five-year survey respondents, we weighted the statistics to adjust for survey nonresponse, applying youth weights for youths' outcomes and parent weights for parents' outcomes.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Impact estimates for the two samples are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

CMS = Centers for Medicare & Medicaid Services; N = sample size; RA = random assignment. SSA = Social Security Administration.

3. Subgroup impact estimates

We estimated the five-year impacts for key subgroups of evaluation enrollees to understand whether the impacts of PROMISE differed by enrollee characteristics. We focused on subgroups defined by the following baseline characteristics of youth: age (ages 14 and 15, and age 16); sex (females and males); whether a youth's parent received SSA payments at the time of RA (yes or no); primary impairment (intellectual or developmental disabilities, other mental impairments, and other disabilities); and whether the survey respondent completed the five-year survey before or after the onset of the COVID-19 pandemic (yes or no). Appendix Tables I.20–I.25 present the subgroup impact estimates.

Appendix Table I.20. All PROMISE programs: Impacts on primary outcomes, by youth's age (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | | 1 | Age 14 and | d 15 | | | | Age 16 | | | <i>p</i> -value |
|---|-----------------|--------|-----------------|----------------------|--------------------|-----------------|----------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p-</i> value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Youth enrolled in an educational or training program | 49.8 | -1.8 | 0.15 | 3,004 | 2,956 | 29.9 | -0.5 | 0.77 | 1,574 | 1,530 | 0.52 |
| Youth has a GED, high school diploma, or certificate of completion | 67.5 | -2.0* | 0.10 | 3,062 | 3,031 | 78.9 | -2.1 | 0.15 | 1,621 | 1,589 | 0.92 |
| Youth employed in a paid job in the past year | 41.1 | 2.7** | 0.03 | 3,093 | 3,054 | 44.3 | 3.1* | 0.08 | 1,630 | 1,600 | 0.88 |
| Youth earnings in the past year (\$) | 3,990 | 291 | 0.17 | 3,093 | 3,054 | 5,241 | 320 | 0.36 | 1,630 | 1,600 | 0.94 |
| Youth earnings during the five calendar years after RA (\$) | 9,341 | 744** | 0.03 | 4,083 | 4,060 | 15,797 | 616 | 0.37 | 2,219 | 2,222 | 0.87 |
| Youth self-determination score (scale: 0 to 100) | 78.7 | -0.5 | 0.28 | 1,915 | 1,879 | 78.0 | 0.1 | 0.91 | 1,046 | 986 | 0.47 |
| Youth expects to be financially independent at age 25 | 62.1 | 1.8 | 0.24 | 1,964 | 1,927 | 57.7 | 4.0* | 0.06 | 1,061 | 1,016 | 0.41 |
| Youth received SSA payments in Year 5 after RA | 67.9 | 0.3 | 0.79 | 4,083 | 4,060 | 56.8 | 4.1*** | 0.00 | 2,219 | 2,222 | 0.03†† |
| Youth total SSA payments in Year 5 after RA (\$) | 5,416 | 21 | 0.82 | 4,083 | 4,060 | 4,895 | 245* | 0.06 | 2,219 | 2,222 | 0.16 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 33,803 | 126 | 0.65 | 4,083 | 4,060 | 32,170 | 902** | 0.02 | 2,219 | 2,222 | 0.11 |
| Youth covered by any health insurance | 90.2 | -1.2 | 0.14 | 2,993 | 2,974 | 86.8 | -0.5 | 0.67 | 1,566 | 1,551 | 0.66 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,201 | -19 | 0.28 | 4,083 | 4,060 | 1,130 | -32 | 0.19 | 2,219 | 2,222 | 0.66 |
| Youth total income in the past year (\$) | 9,546 | 294 | 0.14 | 3,093 | 3,054 | 10,440 | 520 | 0.11 | 1,630 | 1,600 | 0.55 |
| Youth total income during the five calendar years after RA (\$) | 44,492 | 810** | 0.03 | 4,083 | 4,060 | 49,271 | 1,707*** | 0.01 | 2,219 | 2,222 | 0.23 |

| | | Age 14 and 15 | | | | | | Age 16 | | | <i>p</i> -value |
|--|-----------------|---------------|-----------------|----------------------|--------------------|-----------------|--------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p-</i> value | Treatment group N | Control group N | Control mean | Impact | <i>p-</i> value | Treatment group N | Control group N | for subgroup difference |
| Either parent worked for pay in the past year | 67.5 | 0.5 | 0.65 | 3,037 | 2,991 | 65.3 | 1.2 | 0.45 | 1,604 | 1,552 | 0.73 |
| Parents' earnings in the past year (\$) | 22,676 | 14 | 0.98 | 3,039 | 2,994 | 22,081 | 957 | 0.29 | 1,605 | 1,553 | 0.39 |
| Parents' earnings during the five calendar years after RA (\$) | 111,358 | 556 | 0.72 | 3,766 | 3,737 | 105,635 | -842 | 0.69 | 2,078 | 2,053 | 0.59 |
| Either parent received SSA payments in Year 5 after RA | 29.0 | -0.7 | 0.29 | 3,766 | 3,737 | 31.0 | -0.9 | 0.36 | 2,078 | 2,053 | 0.89 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,181 | -109 | 0.25 | 3,766 | 3,737 | 3,346 | 126 | 0.36 | 2,078 | 2,053 | 0.16 |
| Parents' total SSA payments during the five years after RA (\$) | 14,872 | -242 | 0.48 | 3,766 | 3,737 | 15,890 | 295 | 0.55 | 2,078 | 2,053 | 0.37 |
| Parents' total income in the past year (\$) | 26,265 | -138 | 0.83 | 2,826 | 2,780 | 25,818 | 1,112 | 0.22 | 1,515 | 1,450 | 0.25 |
| Parents' total income during the five calendar years after RA (\$) | 127,705 | 330 | 0.83 | 3,766 | 3,737 | 123,066 | -473 | 0.82 | 2,078 | 2,053 | 0.75 |
| Either parent is covered by health insurance | 89.5 | 0.8 | 0.28 | 3,012 | 2,979 | 90.6 | -0.2 | 0.82 | 1,597 | 1,543 | 0.41 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 630 | 29** | 0.02 | 3,766 | 3,737 | 680 | 4 | 0.84 | 2,078 | 2,053 | 0.25 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of All PROMISE programs. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (p-value is less than .10/.05/.01) using a two-tailed t-test.

+/++/+++ Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

CMS = Centers for Medicare & Medicaid Services; GED = General Educational Development; N = sample size; RA = random assignment; SSA = Social Security Administration.

Appendix Table I.21. All PROMISE programs: Impacts on primary outcomes, by youth's sex (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | | | Male | | | | | Female | | | <i>p-</i> value | |
|---|-----------------|----------|-----------------|----------------------|--------------------|-----------------|---------|-----------------|----------------------|--------------------|-------------------------------|--|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference | |
| Youth enrolled in an educational or training program | 40.9 | -1.1 | 0.35 | 3,063 | 2,925 | 46.7 | -1.7 | 0.32 | 1,515 | 1,561 | 0.79 | |
| Youth has a GED, high school diploma, or certificate of completion | 69.9 | -2.1* | 0.07 | 3,141 | 3,022 | 74.5 | -1.9 | 0.23 | 1,542 | 1,598 | 0.90 | |
| Youth employed in a paid job in the past year | 42.8 | 3.4*** | 0.01 | 3,166 | 3,041 | 41.0 | 1.7 | 0.32 | 1,557 | 1,613 | 0.42 | |
| Youth earnings in the past year (\$) | 4,716 | 317 | 0.18 | 3,166 | 3,041 | 3,871 | 270 | 0.35 | 1,557 | 1,613 | 0.90 | |
| Youth earnings during the five calendar years after RA (\$) | 12,072 | 471 | 0.26 | 4,244 | 4,174 | 10,745 | 1,193** | 0.03 | 2,058 | 2,108 | 0.29 | |
| Youth self-determination score (scale: 0 to 100) | 78.3 | -0.3 | 0.47 | 1,922 | 1,801 | 78.7 | -0.2 | 0.74 | 1,039 | 1,064 | 0.88 | |
| Youth expects to be financially independent at age 25 | 61.9 | 1.6 | 0.31 | 1,967 | 1,851 | 58.2 | 4.4** | 0.04 | 1,058 | 1,092 | 0.28 | |
| Youth received SSA payments in Year 5 after RA | 62.3 | 2.0** | 0.04 | 4,244 | 4,174 | 67.3 | 0.9 | 0.54 | 2,058 | 2,108 | 0.51 | |
| Youth total SSA payments in Year 5 after RA (\$) | 5,042 | 153* | 0.10 | 4,244 | 4,174 | 5,606 | -5 | 0.97 | 2,058 | 2,108 | 0.32 | |
| Youth total SSA payments during Years 1–5 after RA (\$) | 32,675 | 647** | 0.02 | 4,244 | 4,174 | 34,312 | -94 | 0.81 | 2,058 | 2,108 | 0.12 | |
| Youth covered by any health insurance | 86.9 | -0.7 | 0.39 | 3,033 | 2,956 | 93.1 | -1.3 | 0.18 | 1,526 | 1,569 | 0.68 | |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,124 | -27 | 0.11 | 4,244 | 4,174 | 1,279 | -16 | 0.53 | 2,058 | 2,108 | 0.71 | |
| Youth income in the past year (\$) | 10,016 | 377* | 0.09 | 3,166 | 3,041 | 9,555 | 366 | 0.18 | 1,557 | 1,613 | 0.98 | |
| Youth total income during the five calendar years after RA (\$) | 45,958 | 1,170*** | 0.01 | 4,244 | 4,174 | 46,629 | 1,067* | 0.05 | 2,058 | 2,108 | 0.88 | |

| | | Male | | | | | Female | | | | | |
|---|-----------------|--------|-----------------|----------------------|--------------------|-----------------|--------|-----------------|----------------------|-------|-------------------------------|--|
| Outcome | Control mean | Impact | <i>p-</i> value | Treatment group N | Control group N | Control mean | Impact | <i>p-</i> value | Treatment group N | | for subgroup difference | |
| Either parent worked for pay in the past year | 66.8 | 1.4 | 0.21 | 3,123 | 2,994 | 66.5 | -0.6 | 0.70 | 1,518 | 1,549 | 0.30 | |
| Parents' earnings in the past year (\$) | 22,875 | 299 | 0.64 | 3,125 | 2,996 | 21,685 | 435 | 0.61 | 1,519 | 1,551 | 0.90 | |
| Parents' earnings during the five calendar years after RA (\$) | 111,564 | 499 | 0.74 | 3,941 | 3,841 | 104,942 | -832 | 0.70 | 1,903 | 1,949 | 0.62 | |
| Either parent received SSA payments in Year 5 after RA | 29.4 | -1.0 | 0.13 | 3,941 | 3,841 | 30.4 | -0.2 | 0.79 | 1,903 | 1,949 | 0.49 | |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,183 | -81 | 0.40 | 3,941 | 3,841 | 3,351 | 85 | 0.54 | 1,903 | 1,949 | 0.32 | |
| Parents' total SSA payments during the five years after RA (\$) | 14,992 | -389 | 0.26 | 3,941 | 3,841 | 15,706 | 629 | 0.20 | 1,903 | 1,949 | 0.09† | |
| Parents' income in the past year (\$) | 26,515 | 124 | 0.85 | 2,924 | 2,776 | 25,331 | 657 | 0.45 | 1,417 | 1,454 | 0.62 | |
| Parents' income during the five calendar years after RA (\$) | 128,092 | 43 | 0.98 | 3,941 | 3,841 | 122,073 | 43 | 0.98 | 1,903 | 1,949 | 1.00 | |
| Either parent is covered by health insurance | 89.7 | 0.6 | 0.43 | 3,096 | 2,983 | 90.2 | 0.2 | 0.88 | 1,513 | 1,539 | 0.74 | |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 647 | 16 | 0.20 | 3,941 | 3,841 | 651 | 29 | 0.11 | 1,903 | 1,949 | 0.55 | |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of All PROMISE programs. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Impact estimates for subgroups are significantly different from each other (p-value is less than .10/.05/.01) using an adjusted Wald test.

Appendix Table I.22. All PROMISE programs: Impacts on primary outcomes, by whether parent received SSA payments before RA (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | N | lo parent r | eceived S | SA payment | s | At leas | st one par | ent receiv | ed SSA pay | ments | <i>p</i> -value |
|---|-----------------|-------------|-----------------|----------------------|--------------------|-----------------|------------|-----------------|----------------------|--------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Youth enrolled in an educational or training program | 44.9 | -1.4 | 0.25 | 3,187 | 3,112 | 34.6 | -1.4 | 0.49 | 1,087 | 1,049 | 0.99 |
| Youth has a GED, high school diploma, or certificate of completion | 72.4 | -2.1* | 0.06 | 3,274 | 3,212 | 69.3 | -1.5 | 0.46 | 1,110 | 1,080 | 0.78 |
| Youth employed in a paid job in the past year | 43.1 | 2.5** | 0.04 | 3,299 | 3,231 | 40.8 | 5.4** | 0.01 | 1,119 | 1,089 | 0.25 |
| Youth earnings in the past year (\$) | 4,553 | 214 | 0.34 | 3,299 | 3,231 | 4,135 | 560 | 0.13 | 1,119 | 1,089 | 0.43 |
| Youth earnings during the five calendar years after RA (\$) | 11,523 | 627 | 0.11 | 4,399 | 4,388 | 11,947 | 1,080 | 0.13 | 1,445 | 1,402 | 0.58 |
| Youth self-determination score (scale: 0 to 100) | 79.1 | -0.3 | 0.45 | 2,033 | 1,929 | 77.9 | -0.2 | 0.77 | 734 | 730 | 0.89 |
| Youth expects to be financially independent at age 25 | 61.5 | 1.6 | 0.30 | 2,091 | 1,987 | 59.1 | 5.0* | 0.05 | 746 | 743 | 0.25 |
| Youth received SSA payments in Year 5 after RA | 63.2 | 2.5** | 0.01 | 4,399 | 4,388 | 64.9 | -0.4 | 0.83 | 1,445 | 1,402 | 0.15 |
| Youth total SSA payments in Year 5 after RA (\$) | 5,091 | 207** | 0.02 | 4,399 | 4,388 | 5,404 | -158 | 0.33 | 1,445 | 1,402 | 0.05†† |
| Youth total SSA payments during Years 1–5 after RA (\$) | 31,987 | 729*** | 0.01 | 4,399 | 4,388 | 35,564 | -222 | 0.63 | 1,445 | 1,402 | 0.07† |
| Youth covered by any health insurance | 89.4 | -0.5 | 0.51 | 3,178 | 3,145 | 87.1 | -1.7 | 0.25 | 1,083 | 1,048 | 0.48 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,165 | -19 | 0.26 | 4,399 | 4,388 | 1,070 | -20 | 0.48 | 1,445 | 1,402 | 0.98 |
| Youth income in the past year (\$) | 9,854 | 372* | 0.08 | 3,299 | 3,231 | 9,697 | 449 | 0.21 | 1,119 | 1,089 | 0.85 |
| Youth total income during the five calendar years after RA (\$) | 44,838 | 1,418*** | 0.00 | 4,399 | 4,388 | 48,732 | 889 | 0.21 | 1,445 | 1,402 | 0.52 |
| Either parent worked for pay in the past year | 78.1 | 0.5 | 0.65 | 3,257 | 3,180 | 32.8 | 2.8 | 0.18 | 1,081 | 1,046 | 0.32 |

| | N | No parent received SSA payments | | | | | st one par | ent receiv | ed SSA pay | ments | <i>p</i> -value | |
|--|-----------------|---------------------------------|-----------------|----------------------|--------------------|-----------------|------------|-----------------|----------------------|--------------------|-------------------------------|--|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p-</i> value | Treatment group N | Control group N | for subgroup difference | |
| Parents' earnings in the past year (\$) | 27,457 | 327 | 0.62 | 3,260 | 3,181 | 8,290 | 631 | 0.42 | 1,081 | 1,049 | 0.77 | |
| Parents' earnings during the five calendar years after RA (\$) | 132,005 | -271 | 0.86 | 4,399 | 4,388 | 40,786 | 1,069 | 0.55 | 1,445 | 1,402 | 0.57 | |
| Either parent received SSA payments in Year 5 after RA | 9.7 | -0.7 | 0.30 | 4,399 | 4,388 | 90.3 | -1.0 | 0.37 | 1,445 | 1,402 | 0.77 | |
| Parents' total SSA payments received in Year 5 after RA (\$) | 1,113 | -45 | 0.59 | 4,399 | 4,388 | 9,670 | 68 | 0.73 | 1,445 | 1,402 | 0.60 | |
| Parents' total SSA payments during the five years after RA (\$) | 3,520 | -160 | 0.56 | 4,399 | 4,388 | 50,639 | 461 | 0.56 | 1,445 | 1,402 | 0.46 | |
| Parents' income in the past year (\$) | 28,637 | 269 | 0.68 | 3,260 | 3,181 | 18,394 | 484 | 0.52 | 1,081 | 1,049 | 0.83 | |
| Parents' income during the five calendar years after RA (\$) | 136,302 | -363 | 0.81 | 4,399 | 4,388 | 95,105 | 1,486 | 0.42 | 1,445 | 1,402 | 0.44 | |
| Either parent is covered by health insurance | 90.2 | 1.1 | 0.14 | 3,237 | 3,166 | 95.1 | -0.7 | 0.45 | 1,072 | 1,039 | 0.14 | |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 432 | 6 | 0.52 | 4,399 | 4,388 | 1,302 | 63** | 0.04 | 1,445 | 1,402 | 0.07† | |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of All PROMISE programs. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Impact estimates for subgroups are significantly different from each other (p-value is less than .10/.05/.01) using an adjusted Wald test.

Appendix Table I.23. All PROMISE programs: Impacts on primary outcomes, by youth's primary impairment (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | | tellectual mental dis | | Other m | ental impa | airments | Othe | er impairn | nents | <i>p</i> -value for |
|---|--------------|--------------------------|-----------------|-----------------|------------|-----------------|-----------------|------------|-----------------|------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | subgroup difference |
| Youth enrolled in an educational or training program | 49.1 | -2.7* | 0.06 | 29.9 | -0.8 | 0.63 | 52.0 | 1.0 | 0.65 | 0.34 |
| Youth has a GED, high school diploma, or certificate of completion | 72.1 | -1.5 | 0.28 | 67.5 | -2.0 | 0.24 | 77.2 | -3.4* | 0.07 | 0.70 |
| Youth employed in a paid job in the past year | 35.8 | 3.8** | 0.01 | 53.0 | 1.7 | 0.33 | 37.4 | 2.7 | 0.22 | 0.66 |
| Youth earnings in the past year (\$) | 3,241 | 480** | 0.04 | 6,012 | 355 | 0.33 | 4,261 | -194 | 0.62 | 0.33 |
| Youth earnings during the five calendar years after RA (\$) | 9,400 | 1,012** | 0.02 | 14,882 | 636 | 0.30 | 10,638 | 167 | 0.82 | 0.60 |
| Youth self-determination score (scale: 0 to 100) | 77.9 | -1.0* | 0.07 | 77.8 | 0.4 | 0.51 | 81.2 | 0.0 | 0.99 | 0.22 |
| Youth expects to be financially independent at age 25 | 57.2 | 4.0** | 0.04 | 63.4 | 2.5 | 0.22 | 62.5 | -0.8 | 0.79 | 0.37 |
| Youth received SSA payments in Year 5 after RA | 71.9 | 1.1 | 0.36 | 50.1 | 2.9* | 0.05 | 71.7 | 0.6 | 0.71 | 0.54 |
| Youth total SSA payments in Year 5 after RA (\$) | 6,066 | -6 | 0.96 | 3,729 | 286** | 0.02 | 6,119 | -2 | 0.99 | 0.18 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 35,354 | 230 | 0.49 | 30,142 | 554 | 0.15 | 34,113 | 491 | 0.33 | 0.80 |
| Youth covered by any health insurance | 90.9 | -0.7 | 0.46 | 83.4 | -0.9 | 0.52 | 94.8 | -1.6 | 0.16 | 0.81 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,218 | -39* | 0.06 | 875 | -10 | 0.64 | 1,635 | -13 | 0.75 | 0.59 |
| Youth income in the past year (\$) | 9,484 | 473** | 0.04 | 9,938 | 522 | 0.14 | 10,556 | -119 | 0.73 | 0.31 |
| Youth total income during the five calendar years after RA (\$) | 46,665 | 1,160** | 0.01 | 45,364 | 1,352** | 0.04 | 46,610 | 669 | 0.35 | 0.76 |
| Either parent worked for pay in the past year | 65.2 | 1.8 | 0.17 | 64.8 | 1.7 | 0.29 | 73.7 | -3.4* | 0.08 | 0.06† |

| | | tellectual mental dis | | Other m | ental impa | airments | · | | | <i>p</i> -value for | |
|--|--------------|--------------------------|-----------------|-----------------|------------|-----------------|--------------|--------|-----------------|---------------------|--|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | subgroup difference | |
| Parents' earnings in the past year (\$) | 21,269 | 1,506** | 0.05 | 21,679 | 70 | 0.94 | 26,609 | -1,823 | 0.14 | 0.06† | |
| Parents' earnings during the five calendar years after RA (\$) | 110,336 | 326 | 0.86 | 96,374 | -698 | 0.72 | 132,123 | 880 | 0.79 | 0.89 | |
| Either parent received SSA payments in Year 5 after RA | 29.8 | -1.0 | 0.21 | 33.0 | -1.2 | 0.20 | 23.2 | 0.7 | 0.59 | 0.42 | |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,180 | 21 | 0.86 | 3,615 | -199 | 0.13 | 2,649 | 202 | 0.26 | 0.17 | |
| Parents' total SSA payments during the five years after RA (\$) | 14,995 | 295 | 0.48 | 17,196 | -731 | 0.14 | 11,974 | 460 | 0.45 | 0.19 | |
| Parents' income in the past year (\$) | 24,977 | 1,480* | 0.05 | 25,636 | -330 | 0.70 | 29,584 | -1,263 | 0.32 | 0.11 | |
| Parents' income during the five calendar years after RA (\$) | 126,782 | 747 | 0.69 | 115,234 | -1,510 | 0.43 | 145,386 | 1,394 | 0.66 | 0.61 | |
| Either parent is covered by health insurance | 88.7 | 1.7* | 0.07 | 92.6 | -0.6 | 0.50 | 87.5 | -0.3 | 0.82 | 0.19 | |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 655 | 2 | 0.87 | 681 | 28 | 0.11 | 568 | 44** | 0.03 | 0.23 | |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of All PROMISE programs. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

| Appendix Table I.24. All PROMISE programs: Sample sizes for primary outcomes, by youth's primary impairr |
|--|
|--|

| | | [·] developmental bilities | Other menta | l impairments | Other impairments | | |
|---|----------------------|--|----------------------|--------------------|--------------------|----------------------|--|
| Outcome | Treatment group N | Control group N | Treatment group N | Control group N | Control group N | Treatment group N | |
| Youth enrolled in an educational or training program | 2,093 | 2,037 | 1,544 | 1,544 | 941 | 905 | |
| Youth has a GED, high school diploma, or certificate of completion | 2,131 | 2,084 | 1,598 | 1,603 | 954 | 933 | |
| Youth employed in a paid job in the past year | 2,159 | 2,102 | 1,604 | 1,614 | 960 | 938 | |
| Youth earnings in the past year (\$) | 2,159 | 2,102 | 1,604 | 1,614 | 960 | 938 | |
| Youth earnings during the five calendar years after RA (\$) | 2,847 | 2,803 | 2,156 | 2,182 | 1,299 | 1,297 | |
| Youth self-determination score (scale: 0 to 100) | 1,331 | 1,285 | 1,070 | 1,036 | 560 | 544 | |
| Youth expects to be financially independent at age 25 | 1,347 | 1,298 | 1,104 | 1,078 | 574 | 567 | |
| Youth received SSA payments in Year 5 after RA | 2,847 | 2,803 | 2,156 | 2,182 | 1,299 | 1,297 | |
| Youth total SSA payments in Year 5 after RA (\$) | 2,847 | 2,803 | 2,156 | 2,182 | 1,299 | 1,297 | |
| Youth total SSA payments during Years 1–5 after RA (\$) | 2,847 | 2,803 | 2,156 | 2,182 | 1,299 | 1,297 | |
| Youth covered by any health insurance | 2,100 | 2,051 | 1,517 | 1,553 | 942 | 921 | |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 2,847 | 2,803 | 2,156 | 2,182 | 1,299 | 1,297 | |
| Youth income in the past year (\$) | 2,159 | 2,102 | 1,604 | 1,614 | 960 | 938 | |
| Youth total income during the five calendar years after RA (\$) | 2,847 | 2,803 | 2,156 | 2,182 | 1,299 | 1,297 | |
| Either parent worked for pay in the past year | 2,116 | 2,060 | 1,573 | 1,569 | 952 | 914 | |
| Parents' earnings in the past year (\$) | 2,118 | 2,063 | 1,574 | 1,570 | 952 | 914 | |
| Parents' earnings during the five calendar years after RA (\$) | 2,618 | 2,560 | 2,063 | 2,072 | 1,163 | 1,158 | |
| Either parent received SSA payments in Year 5 after RA | 2,618 | 2,560 | 2,063 | 2,072 | 1,163 | 1,158 | |

| | | developmental pilities | Other menta | l impairments | Other impairments | | |
|---|----------------------|---------------------------|----------------------|--------------------|--------------------|----------------------|--|
| Outcome | Treatment group N | Control group N | Treatment group N | Control group N | Control group N | Treatment group N | |
| Parents' total SSA payments received in Year 5 after RA (\$) | 2,618 | 2,560 | 2,063 | 2,072 | 1,163 | 1,158 | |
| Parents' total SSA payments during the five years after RA (\$) | 2,618 | 2,560 | 2,063 | 2,072 | 1,163 | 1,158 | |
| Parents' income in the past year (\$) | 1,963 | 1,896 | 1,517 | 1,500 | 861 | 834 | |
| Parents' income during the five calendar years after RA (\$) | 2,618 | 2,560 | 2,063 | 2,072 | 1,163 | 1,158 | |
| Either parent is covered by health insurance | 2,102 | 2,051 | 1,560 | 1,561 | 947 | 910 | |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 2,618 | 2,560 | 2,063 | 2,072 | 1,163 | 1,158 | |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the sample size by subgroup for the estimates reported in Appendix Table I.23.

Appendix Table I.25. All PROMISE programs: Impacts on primary outcomes, by whether the survey respondent completed the five-year survey before or during the pandemic (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | | Before pandemic | | | | | Dur | ing pande | mic | | <i>p</i> -value |
|--|-----------------|-----------------|-----------------|----------------------|--------------------|-----------------|--------|-----------------|----------------------|-----------------------|-------------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | Control mean | Impact | <i>p</i> -value | Treatment group N | Control group N | for subgroup difference |
| Youth enrolled in an educational or training program | 40.8 | -3.2 | 0.13 | 938 | 925 | 43.5 | -0.8 | 0.49 | 3,622 | 3,547 | 0.31 |
| Youth has a GED, high school diploma, or certificate of completion | 73.8 | -0.7 | 0.71 | 949 | 941 | 70.9 | -2.3** | 0.03 | 3,716 | 3,665 | 0.49 |
| Youth employed in a paid job in the past year | 45.9 | 7.9*** | 0.00 | 954 | 944 | 41.3 | 1.5 | 0.17 | 3,750 | 3,696 | 0.01†† |
| Youth earnings in the past year (\$) | 4,407 | 969** | 0.02 | 954 | 944 | 4,443 | 128 | 0.53 | 3,750 | 3,696 | 0.07† |
| Youth self-determination score (scale: 0 to 100) | 78.5 | 0.0 | 0.97 | 722 | 722 | 78.5 | -0.4 | 0.35 | 2,239 | 2,143 | 0.63 |
| Youth expects to be financially independent at age 25 | 58.6 | 4.2 | 0.10 | 719 | 725 | 61.2 | 2.1 | 0.15 | 2,306 | 2,218 | 0.47 |
| Youth covered by any health insurance | 87.8 | -1.2 | 0.46 | 915 | 912 | 89.3 | -0.9 | 0.23 | 3,644 | 3,613 | 0.87 |
| Youth income in the past year (\$) | 10,238 | 1,117*** | 0.00 | 954 | 944 | 9,775 | 189 | 0.33 | 3,750 | 3,696 | 0.03†† |
| Either parent worked for pay in the past year | 67.1 | 1.3 | 0.51 | 988 | 990 | 66.6 | 0.6 | 0.57 | 3,652 | 3,553 | 0.75 |
| Parents' earnings in the past year (\$) | 22,244 | 1,434 | 0.22 | 974 | 974 | 22,432 | 51 | 0.93 | 3,486 | 3,415 | 0.29 |
| Parents' income in the past year (\$) | 26,033 | 1,424 | 0.22 | 939 | 921 | 26,051 | -2 | 1.00 | 3,221 | 3,158 | 0.27 |
| Either parent is covered by health insurance | 91.0 | -0.6 | 0.66 | 980 | 983 | 89.6 | 0.7 | 0.29 | 3,628 | 3,539 | 0.37 |

Source: PROMISE five-year surveys.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of All PROMISE programs on outcomes derived from survey data. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. We weighted statistics to adjust for survey nonresponse. We defined before the pandemic as before March 13, 2020.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Impact estimates for subgroups are significantly different from each other (p-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size.

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Appendix J. Differences in Outcomes by Race and Ethnicity

In this appendix, we assess whether enrollees' outcomes and the impacts of PROMISE differed by youth's race and ethnicity. PROMISE enrolled a racially and ethnically diverse sample (Appendix Table J.1). Youth potentially could differ in their education and employment outcomes by race and ethnicity in the absence of PROMISE, as well as in the impacts they experienced from participating in PROMISE services. At best, the PROMISE programs might have mitigated some of the race-related structural barriers that youth from racial and ethnic minority groups might face during the transition to adulthood, thus reducing disparities in outcomes. At worst, the programs' might have disproportionately benefited youth and families who do not experience these structural barriers, and thus exacerbated disparities in outcomes. The analyses in this appendix aim to build evidence on the extent of disparities that existed among enrollees in the absence of PROMISE (that is, among the control group), and whether the impacts of PROMISE differed by youth's race and ethnicity.

Numerous studies provide evidence of disparities in the experiences and outcomes of Hispanic and non-Hispanic Black children and adults with disabilities compared with their non-Hispanic White peers. Children of racial and ethnic minority groups disproportionally attend special education programs (Salter 2021), are disciplined in school (Riddle and Sinclair 2019), and live in families that experience financial distress (National Disability Institute 2020). There also are documented differences by race and ethnicity in VR service outcomes (Yin et al. 2021), including rates of acceptance (Capella 2002; Chan et al. 2005), case closure (Moore et al. 2002; Wilson 2015), and competitive employment (LeBlanc and Smart 2007). Non-White young adults with disabilities are less likely to be employed (Hasnain and Balcazar 2009) and have fewer completed years of education (Lindsay et al. 2021) compared with their peers who are White. Among adults with disabilities, national data show that the unemployment rates for Hispanic and Black adults are higher than those for White adults (U.S. Bureau of Labor Statistics 2021c). However, there has been little research focused on racial disparities among adolescents receiving SSI. PROMISE families' use of support services in both treatment and control groups was higher for White youth than non-White youth (Levere et al. 2020), suggesting that control group enrollees' outcomes as well as the impacts of PROMISE on treatment group enrollees might differ by race.

In the sections that follow we describe the methods we used to assess outcomes by race and ethnicity. We then summarize the findings from the analyses of outcomes in the absence of PROMISE (that is, among control group enrollees) and the extent to which the PROMISE impacts differed by race and ethnicity. Overall, we did not find a consistent pattern of differences in youth outcomes or programs' impacts based on the youth's race and ethnicity.

A. Samples and methods

The analyses focused on the three racial and ethnic subgroups with the largest number of enrollees across the six PROMISE programs: non-Hispanic White, non-Hispanic Black, and Hispanic. We used information about youth's race and ethnicity from the PROMISE 18-month survey for all programs except ASPIRE, for which we used race and ethnicity data collected on the ASPIRE intake form. We excluded youth with missing race or ethnicity data from the analyses. Thus, in all programs except ASPIRE the analyses exclude youth and parents who did not respond to the 18-month survey or responded but did not provide race and ethnicity information. We also excluded youth belonging to race and ethnicity subgroups not represented by the three largest ones because the groups were too small and too varied in composition for us to define a set of additional subgroups that could be consistently

analyzed for each program. Future research can consider examining additional program-specific subgroups.. The excluded groups are non-Hispanic American Indian, non-Hispanic other, and mixed race.

1. Samples

Appendix Table J.1 shows the racial and ethnic subgroup sample sizes by PROMISE program. For some programs, the sample sizes for a particular subgroup are small. When we estimated the impacts of PROMISE for other subgroup analyses, we required each subgroup to represent at least 25 percent of the sample (Appendix B). In doing so, we ensured that we had enough statistical power to detect meaningful impacts. In the case of the three selected race and ethnicity subgroups, no program met the 25 percent requirement for all three subgroups. Thus, it is unlikely that the analyses could detect small differences in impacts across the subgroups.

2. Methods

We analyzed the primary outcomes in all youth and parent domains (see Appendix A) for the three race and ethnicity subgroups. We examined mean outcomes as well as programs' impacts on those outcomes, by subgroup. We did so separately for each program because the racial and ethnic composition of the samples varied considerably by program. Pooling data across programs would have made it difficult to isolate the effects by race and ethnicity from the effects of the programs.

To examine racial and ethnic differences in outcomes in the absence of PROMISE, we compared the unadjusted mean outcomes for the control group by subgroup. We used adjusted Wald tests to assess differences in the means across the three subgroups, applying survey weights for outcomes derived from survey data.

To estimate the impacts of PROMISE by race and ethnicity, we adapted the regression model described in Appendix B. For this model, we created an indicator variable for each race and ethnicity subgroup and estimated multivariate regression models that included an indicator for each of the relevant subgroups and interactions between the subgroup indicators and the treatment indicator. For each program we estimated the following:

$$\begin{split} Y_i &= \beta_1 Treatment_i * Non - Hispanic \ White Treatment_i + \beta_2 Treatment_i * Non \\ &- Hispanic \ Black + \ \beta_3 Treatment_i * Hispanic + \\ \beta_4 Non - Hispanic \ White + \ \beta_5 Non - Hispanic \ Black + \ \beta_6 Hispanic + \lambda X_i + \epsilon_i, \end{split}$$

where Y indicates the outcome, *i* denotes the individual observation; *Non-Hispanic White*, *Non-Hispanic Black*, and *Hispanic* represent the indicators for each of the comparison race and ethnic subgroups; *Treatment_i* is the indicator for assignment to the treatment group; X_i contains the vector of covariates; and \in_i denotes the error term. β_1 , β_2 , and β_3 are the parameters of primary interest because they reflect the estimated program impact for each of the respective subgroups.

We used two-sided *t*-tests to determine whether the estimated impacts for each subgroup were statistically significantly different from zero. We also tested whether the estimated impacts were significantly different from each other using adjusted Wald tests. Because a focus of this analysis was understanding variation in program impacts by race and ethnicity, in discussing the results we concentrated on statistically significant differences in a program's impacts across race and ethnicity subgroups rather than the impacts for each subgroup.

| | Non-Hispanic White | | | ite | Non-Hispanic Black | | | Hispanic | | | All other youth | | | | | |
|------------------|--------------------|---------------|--------|----------|--------------------|---------------|--------|----------|-----|---------------|-----------------|----------|-----|--------------|--------|----------|
| | | itment oup | Contro | ol group | | atment oup | Contro | ol group | | itment oup | Contro | ol group | | tment oup | Contro | ol group |
| Program | Ν | % | N | % | Ν | % | N | % | Ν | % | N | % | Ν | % | Ν | % |
| Arkansas PROMISE | 162 | 9.0 | 165 | 9.1 | 441 | 24.4 | 414 | 22.9 | 57 | 3.2 | 63 | 3.5 | 244 | 13.5 | 259 | 14.4 |
| ASPIRE | 366 | 18.7 | 374 | 19.2 | 113 | 5.8 | 113 | 5.8 | 359 | 18.4 | 365 | 18.7 | 140 | 7.2 | 123 | 6.3 |
| CaPROMISE | 62 | 2.0 | 46 | 1.5 | 143 | 4.6 | 145 | 4.7 | 540 | 17.4 | 534 | 17.2 | 803 | 25.9 | 824 | 26.6 |
| MD PROMISE | 142 | 7.6 | 139 | 7.5 | 452 | 24.2 | 463 | 24.8 | 74 | 4.0 | 55 | 3.0 | 268 | 14.4 | 273 | 14.6 |
| NYS PROMISE | 64 | 3.3 | 64 | 3.3 | 328 | 16.7 | 355 | 18.1 | 359 | 18.3 | 307 | 15.6 | 235 | 12.0 | 255 | 13.0 |
| WI PROMISE | 245 | 12.9 | 225 | 11.9 | 301 | 15.9 | 306 | 16.1 | 114 | 6.0 | 96 | 5.1 | 290 | 15.3 | 319 | 16.8 |

Appendix Table J.1. Sample sizes by youth's race and ethnicity

Source: PROMISE 18-month youth survey and ASPIRE intake form.

Note: The "All other youth" group includes youth for whom we did not have data on race and ethnicity. Percentages represent share of all youth in that program that belong to each race and ethnicity group. Percentages may not round to 100 due to rounding.

ASPIRE = Achieving Success by Promoting Readiness for Education and Employment; CaPROMISE = California PROMISE; MD = Maryland; N = sample size; NYS = New York State; WI = Wisconsin.

B. Results

1. Differences in outcomes among control group enrollees: non-Hispanic Black youth had better outcomes than other youth, but non-Hispanic Black parents had relatively worse outcomes

For control group youth, we found a consistent pattern across programs wherein non-Hispanic Black youth tended to have more favorable transition outcomes on average compared with non-Hispanic White and Hispanic youth (Appendix Table J.2 and J.4.a–f). For some outcomes, this difference was not consistent across all six programs, but we observed such differences across the majority of programs for youth's employment, earnings, income, SSA program participation, and Medicaid and Medicare expenditures. On average, non-Hispanic Black youth in the control group were more likely to experience better transition outcomes, relative to their Hispanic or non-Hispanic White counterparts. This finding is confirmed in other studies of specific PROMISE programs (Hartman et al. 2021) but is somewhat at odds with findings from past research indicating that non-White young adults with disabilities have less favorable employment and education outcomes (Hasnain and Balcazar 2009, Lindsay et al. 2021). One possible explanation is that, compared with the general population, the non-Hispanic Black youth who volunteered for PROMISE were more highly motivated or differed in other unobservable characteristics associated with successful transitions to adulthood. We also found some evidence that, among control group youth, Hispanic youth tended to have better educational outcomes than youth in the other racial and ethnic subgroups.

In contrast to the findings for youth, among control group parents, parents of non-Hispanic Black youth did not experience better outcomes, on average, relative to their Hispanic or non-Hispanic White counterparts (Appendix Tables J.3 and J.4.a–f). For most outcomes, parents of non-Hispanic Black youth experienced worse outcomes than the other two subgroups. This pattern was not consistent across all six programs, but we observed such differences across at least two programs for parents' employment, earnings, income, and Medicaid and Medicare expenditures. Outcomes were mixed for the other two groups and inconsistent across programs; depending on the outcome and program, parents of Hispanic youth or parents of non-Hispanic White youth experienced better outcomes on average than the other subgroups.

| Youth outcome | Differences by youth's race and ethnicity |
|--|--|
| Enrolled in an educational or training program | Hispanic youth had higher enrollment rates in education and training programs than youth in the other subgroups in the following programs: CaPROMISE MD PROMISE NYS PROMISE |
| Has a GED, high school diploma, or certificate of completion | Hispanic youth were more likely to have a high school credential than youth in the other subgroups in the following program: Arkansas PROMISE Non-Hispanic White youth were more likely to have a high school credential than youth in the other subgroups in the following program: WI PROMISE |
| Employed in a paid job in the past year | Non-Hispanic Black youth had higher employment rates than youth in the other subgroups in the following programs: ASPIRE CaPROMISE NYS PROMISE |
| Earnings in the past year (\$) | Non-Hispanic Black youth had higher average earnings than youth in the other subgroups in the following programs: ASPIRE CaPROMISE NYS PROMISE |
| Earnings during the five calendar years after RA (\$) | Non-Hispanic Black youth had higher average earnings than youth in the other subgroups in the following programs: Arkansas PROMISE ASPIRE CaPROMISE |
| Self-determination score | Hispanic youth had lower self-determination scores than youth in the other subgroups in the following programs:NYS PROMISEWI PROMISE |
| Expects that they will be financially independent at age 25 | Non-Hispanic Black youth were more likely to have this expectation than youth in the other subgroups in the following programs: ASPIRE WI PROMISE Hispanic youth were more likely to have this expectation than youth in the other subgroups in MD PROMISE |
| Received SSA payments in Year 5 after RA | Non-Hispanic Black youth were least likely to receive SSA payments compared with youth in the other subgroups in all programs |
| Total SSA payments in Year 5 after RA (\$) | Non-Hispanic Black youth had the lowest average SSA payments compared with youth in the other subgroups in all programs except MD PROMISE |

Appendix Table J.2. Summary of differences in control group youth's average outcomes, by youth's race and ethnicity

| Youth outcome | Differences by youth's race and ethnicity |
|---|--|
| Total SSA payments during Years 1–5 (\$) | Non-Hispanic Black youth had the lowest average SSA payments than youth in the other subgroups in the following programs: Arkansas PROMISE ASPIRE NYS PROMISE |
| Income in the past year (\$) | Hispanic youth had higher average income than youth in the other subgroups in MD PROMISE |
| Covered by any health insurance | Non-Hispanic White youth were more likely to have health insurance than youth in the other subgroups in the following programs:Arkansas PROMISECaPROMISE |
| | Hispanic youth were more likely to have health insurance than youth in the other subgroups in MD PROMISE |
| Average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | Non-Hispanic Black youth had the lowest average Medicaid and Medicare expenditures compared with youth in the other subgroups in all programs. |

Note: This table summarizes instances when the average outcomes for the three subgroups were significantly different from each other (*p*-value is less than .10/.05/.01) based on an adjusted Wald test.

ASPIRE= Achieving Success by Promoting Readiness for Education and Employment; CaPROMISE = California PROMISE; MD = Maryland; NYS = New York State; RA = random assignment; SSA = Social Security Administration; WI = Wisconsin.

| Parents' outcome | Summary of difference by youth's race and ethnicity |
|---|---|
| Either parent worked for pay in the past year | Parents of Hispanic youth had the highest employment rates compared with parents of youth in the other subgroups in the following programs: Arkansas PROMISE CaPROMISE |
| | Parents of non-Hispanic White youth had the highest employment rates compared with parents of youth in the other subgroups in WI PROMISE. |
| Earnings in the past year (\$), | Parents of Hispanic youth had the highest mean earnings compared with parents of youth in the other subgroups in Arkansas PROMISE. Parents of non-Hispanic White youth had the highest earnings compared with parents of youth in the other subgroups in the following programs: |
| | ASPIRE CaPROMISE WI PROMISE. |
| Earnings during the five years after RA (\$) | Wirkowise. Parents of Hispanic youth had the highest mean earnings compared with parents of youth in the other subgroups in the following programs: Arkansas PROMISE |
| | CaPROMISE MD PROMISE Parents of non-Hispanic White youth had the highest mean earnings compared |
| | with parents of youth in the other subgroups in the following programs:ASPIREWI PROMISE |
| Income in the past year (\$) | Parents of Hispanic youth had the highest mean income compared with parents of youth in the other subgroups in Arkansas PROMISE. Parents of non-Hispanic White youth had the highest mean income compared with parents of youth in the other subgroups in the following programs: |
| | ASPIRE CaPROMISE NYS PROMISE WI PROMISE |
| Income during the five calendar years after RA (\$) | WI PROMISE Parents of Hispanic youth had the highest mean income compared with parents of youth in the other subgroups in: CaPROMISE |
| | • MD PROMISE Parents of non-Hispanic White youth had the highest mean income compared with parents of youth in the other subgroups in the following programs: |
| | Arkansas PROMISE ASPIRE WI PROMISE |

Appendix Table J.3. Summary of differences in parents' average outcomes among parents of control group youth, by youth's race and ethnicity

| Parents' outcome | Summary of difference by youth's race and ethnicity |
|---|---|
| Either parent received SSA payments in Year 5 after RA; total SSA payments received | Parents of Hispanic youth were least likely to receive and had the lowest amounts of SSA payments compared with parents of youth in the other subgroups in the following programs: |
| in Year 5 after RA (\$); total | Arkansas PROMISE |
| SSA payments received during | CaPROMISE |
| the five years after RA (\$) | NYS PROMISE |
| Either parent is covered by health insurance | Parents of non-Hispanic Black youth were most likely to have health insurance compared with parents of youth in the other subgroups in ASPIRE, while parents of non-Hispanic White youth were most likely to do so in the other programs. |
| Average monthly Medicaid and Medicare expenditures in | Parents of Hispanic youth had the lowest mean expenditures compared with parents of youth in the other subgroups in the following programs: |
| Years 1-5 after RA (\$) | CaPROMISE |
| | MD PROMISE |
| | Parents of non-Hispanic White youth had the lowest mean expenditures compared with parents of youth in the other subgroups in ASPIRE. |

Note: This table summarizes instances when the average outcomes for the three subgroups were significantly different from each other (*p*-value is less than .10/.05/.01) based on an adjusted Wald test.

ASPIRE= Achieving Success by Promoting Readiness for Education and Employment; CaPROMISE = California PROMISE; MD = Maryland; NYS = New York State; RA = random assignment; SSA = Social Security Administration; WI = Wisconsin.

| | | Control group mean | | <i>p</i> -value for | |
|---|--------------------|--------------------|----------|------------------------|--|
| Outcome | Non-Hispanic White | Non-Hispanic Black | Hispanic | subgroup difference | |
| Youth enrolled in an educational or training program | 21.7 | 30.9 | 25.4 | 0.11 | |
| Youth has a GED, high school diploma, or certificate of completion | 72.2 | 82.1 | 88.0 | 0.02†† | |
| Youth employed in a paid job in the past year | 42.6 | 52.4 | 46.0 | 0.13 | |
| Youth earnings in the past year (\$) | 4,338 | 5,675 | 7,555 | 0.19 | |
| Youth earnings during the five calendar years after RA (\$) | 7,888 | 15,930 | 12,733 | 0.00††† | |
| Youth self-determination score (scale: 0 to 100) | 76.5 | 80.0 | 77.6 | 0.14 | |
| Youth expects to be financially independent at age 25 | 54.8 | 65.2 | 73.5 | 0.11 | |
| Youth received SSA payments in Year 5 after RA | 69.1 | 53.9 | 61.9 | 0.00††† | |
| Youth total SSA payments in Year 5 after RA (\$) | 5,485 | 3,762 | 5,135 | 0.00††† | |
| Youth total SSA payments during Years 1–5 after RA (\$) | 34,079 | 30,560 | 33,805 | 0.01††† | |
| Youth covered by any health insurance | 89.7 | 80.5 | 81.6 | 0.03†† | |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 673 | 369 | 467 | 0.00††† | |
| Youth income in the past year (\$) | 9,776 | 9,433 | 12,590 | 0.28 | |
| Youth total income during the five calendar years after RA (\$) | 43,351 | 46,995 | 48,059 | 0.03†† | |
| Either parent worked for pay in the past year | 58.2 | 63.6 | 74.7 | 0.09† | |
| Parents' earnings in the past year (\$) | 19,256 | 16,136 | 25,421 | 0.06† | |
| Parents' earnings during the five calendar years after RA (\$) | 105,716 | 87,609 | 112,984 | 0.09† | |
| Either parent received SSA payments in Year 5 after RA | 48.4 | 32.4 | 27.1 | 0.00††† | |
| Parents' total SSA payments received in Year 5 after RA (\$) | 5,831 | 3,495 | 2,782 | 0.00††† | |

Appendix Table J.4.a. Arkansas PROMISE: Average outcomes among youth in the control group, by youth's race and ethnicity

| | | <i>p</i> -value for | | | |
|--|--------------------|---------------------|----------|------------------------|--|
| Outcome | Non-Hispanic White | Non-Hispanic Black | Hispanic | subgroup difference | |
| Parents' total SSA payments during the five years after RA (\$) | 26,082 | 16,791 | 14,911 | 0.00††† | |
| Parents' income in the past year (\$) | 25,140 | 19,805 | 29,485 | 0.01††† | |
| Parents' income during the five calendar years after RA (\$) | 134,748 | 106,063 | 128,879 | 0.01††† | |
| Either parent is covered by health insurance | 93.0 | 92.8 | 72.8 | 0.01††† | |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$)ª | 425 | 326 | 342 | 0.20 | |

Source: PROMISE five-year surveys; CMS, RSA, and SSA administrative records; PROMISE 18-month youth survey.

Note: This table shows the observed means for the control group of Arkansas PROMISE. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

†/††/††† Average outcomes for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

| | | Control group mean | | <i>p</i> -value for subgroup difference | |
|---|--------------------|--------------------|----------|---|--|
| Outcome | Non-Hispanic White | Non-Hispanic Black | Hispanic | | |
| Youth enrolled in an educational or training program | 38.2 | 37.2 | 40.1 | 0.85 | |
| Youth has a GED, high school diploma, or certificate of completion | 73.3 | 81.6 | 75.1 | 0.25 | |
| Youth employed in a paid job in the past year | 39.0 | 59.1 | 40.6 | 0.00††† | |
| Youth earnings in the past year (\$) | 3,846 | 6,616 | 5,619 | 0.01†† | |
| Youth earnings during the five calendar years after RA (\$) | 10,074 | 18,093 | 14,553 | 0.00††† | |
| Youth self-determination score (scale: 0 to 100) | 79.7 | 82.4 | 79.0 | 0.23 | |
| Youth expects to be financially independent at age 25 | 49.2 | 71.3 | 58.1 | 0.01††† | |
| Youth received SSA payments in Year 5 after RA | 76.7 | 46.0 | 62.7 | 0.00††† | |
| Youth total SSA payments in Year 5 after RA (\$) | 6,217 | 3,567 | 5,014 | 0.00††† | |
| Youth total SSA payments during Years 1–5 after RA (\$) | 32,832 | 28,142 | 30,796 | 0.01†† | |
| Youth covered by any health insurance | 91.7 | 85.6 | 88.4 | 0.20 | |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,927 | 1,348 | 1,872 | 0.00††† | |
| Youth income in the past year (\$) | 10,380 | 10,707 | 10,871 | 0.73 | |
| Youth total income during the five calendar years after RA (\$) | 44,838 | 46,531 | 45,951 | 0.65 | |
| Either parent worked for pay in the past year | 75.4 | 69.6 | 68.2 | 0.13 | |
| Parents' earnings in the past year (\$) | 34,747 | 24,940 | 24,614 | 0.00††† | |
| Parents' earnings during the five calendar years after RA (\$) | 152,394 | 102,437 | 123,181 | 0.00††† | |
| Either parent received SSA payments in Year 5 after RA | 29.1 | 29.4 | 25.6 | 0.56 | |

Appendix Table J.4.b. ASPIRE: Average outcomes among youth in the control group, by youth's race and ethnicity

| | | <i>p</i> -value for | | | |
|--|--------------------|---------------------|----------|------------------------|--|
| Outcome | Non-Hispanic White | Non-Hispanic Black | Hispanic | subgroup difference | |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,316 | 2,733 | 2,848 | 0.47 | |
| Parents' total SSA payments during the five years after RA (\$) | 14,897 | 15,872 | 12,758 | 0.39 | |
| Parents' income in the past year (\$) | 37,957 | 28,213 | 28,390 | 0.00††† | |
| Parents' income during the five calendar years after RA (\$) | 168,640 | 119,569 | 137,221 | 0.00††† | |
| Either parent is covered by health insurance | 88.7 | 91.4 | 84.8 | 0.17 | |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) ^a | 613 | 871 | 644 | 0.04†† | |

Source: PROMISE five-year surveys; CMS, RSA, and SSA administrative records; ASPIRE intake form.

Note: This table shows the observed means for the control group of ASPIRE. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

+/++/+++ Average outcomes for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

| | | Control group mean | | <i>p</i> -value for subgroup difference | |
|---|--------------------|--------------------|----------|---|--|
| Outcome | Non-Hispanic White | Non-Hispanic Black | Hispanic | | |
| Youth enrolled in an educational or training program | 53.3 | 48.1 | 64.0 | 0.01††† | |
| Youth has a GED, high school diploma, or certificate of completion | 86.1 | 82.6 | 80.9 | 0.66 | |
| Youth employed in a paid job in the past year | 34.1 | 48.8 | 29.8 | 0.00††† | |
| Youth earnings in the past year (\$) | 1,912 | 4,503 | 3,652 | 0.02†† | |
| Youth earnings during the five calendar years after RA (\$) | 4,240 | 14,103 | 8,554 | 0.00††† | |
| Youth self-determination score (scale: 0 to 100) | 80.6 | 79.5 | 77.0 | 0.24 | |
| Youth expects to be financially independent at age 25 | 54.8 | 64.5 | 54.5 | 0.26 | |
| Youth received SSA payments in Year 5 after RA | 80.4 | 53.8 | 68.9 | 0.00††† | |
| Youth total SSA payments in Year 5 after RA (\$) | 7,884 | 5,060 | 6,543 | 0.00††† | |
| Youth total SSA payments during Years 1–5 after RA (\$) | 41,087 | 36,435 | 37,755 | 0.25 | |
| Youth covered by any health insurance | 100.0 | 86.5 | 92.0 | 0.00††† | |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 2,363 | 1,414 | 1,672 | 0.00††† | |
| Youth income in the past year (\$) | 10,295 | 9,803 | 10,373 | 0.79 | |
| Youth total income during the five calendar years after RA (\$) | 47,850 | 51,547 | 48,720 | 0.31 | |
| Either parent worked for pay in the past year | 75.4 | 61.5 | 77.4 | 0.01††† | |
| Parents' earnings in the past year (\$) | 37,452 | 20,064 | 26,356 | 0.01††† | |
| Parents' earnings during the five calendar years after RA (\$) | 113,234 | 99,517 | 130,765 | 0.00††† | |
| Either parent received SSA payments in Year 5 after RA | 22.7 | 35.5 | 17.8 | 0.00††† | |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,645 | 4,402 | 2,018 | 0.00††† | |

Appendix Table J.4.c. CaPROMISE: Average outcomes among youth in the control group, by youth's race and ethnicity

| | | <i>p</i> -value for | | |
|--|--------------------|---------------------|----------|------------------------|
| Outcome | Non-Hispanic White | Non-Hispanic Black | Hispanic | subgroup difference |
| Parents' total SSA payments during the five years after RA (\$) | 20,549 | 21,082 | 9,466 | 0.00††† |
| Parents' income in the past year (\$) | 42,139 | 24,674 | 30,012 | 0.01†† |
| Parents' income during the five calendar years after RA (\$) | 134,867 | 122,364 | 141,028 | 0.10† |
| Either parent is covered by health insurance | 100.0 | 92.5 | 82.7 | 0.00††† |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$)ª | 539 | 737 | 470 | 0.00††† |

Source: PROMISE five-year surveys; CMS, RSA, and SSA administrative records; PROMISE 18-month youth survey.

Note: This table shows the observed means for the control group of CaPROMISE. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse and sample design.

†/††/††† Average outcomes for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

| | 5 6, | , | | | |
|---|--------------------|---------------------|----------|------------------------|--|
| | | <i>p</i> -value for | | | |
| Outcome | Non-Hispanic White | Non-Hispanic Black | Hispanic | subgroup difference | |
| Youth enrolled in an educational or training program | 30.9 | 37.2 | 55.7 | 0.02†† | |
| Youth has a GED, high school diploma, or certificate of completion | 72.1 | 74.1 | 66.0 | 0.50 | |
| Youth employed in a paid job in the past year | 38.9 | 45.4 | 49.7 | 0.35 | |
| Youth earnings in the past year (\$) | 5,389 | 4,345 | 6,222 | 0.30 | |
| Youth earnings during the five calendar years after RA (\$) | 9,997 | 12,743 | 13,521 | 0.25 | |
| Youth self-determination score (scale: 0 to 100) | 77.5 | 78.2 | 82.6 | 0.12 | |
| Youth expects to be financially independent at age 25 | 51.0 | 63.3 | 77.3 | 0.02†† | |
| Youth received SSA payments in Year 5 after RA | 65.5 | 62.6 | 78.2 | 0.04†† | |
| Youth total SSA payments in Year 5 after RA (\$) | 5,502 | 5,131 | 5,847 | 0.35 | |
| Youth total SSA payments during Years 1–5 after RA (\$) | 32,430 | 32,999 | 33,915 | 0.79 | |
| Youth covered by any health insurance | 91.9 | 89.4 | 100.0 | 0.00††† | |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,236 | 1,039 | 1,289 | 0.03†† | |
| Youth income in the past year (\$) | 11,244 | 9,519 | 12,075 | 0.03†† | |
| Youth total income during the five calendar years after RA (\$) | 44,253 | 47,330 | 49,085 | 0.18 | |
| Either parent worked for pay in the past year | 60.2 | 66.0 | 73.2 | 0.25 | |
| Parents' earnings in the past year (\$) | 22,437 | 21,207 | 22,887 | 0.85 | |
| Parents' earnings during the five calendar years after RA (\$) | 104,958 | 100,600 | 137,214 | 0.08† | |
| Either parent received SSA payments in Year 5 after RA | 27.6 | 27.1 | 19.6 | 0.43 | |

Appendix Table J.4.d. MD PROMISE: Average outcomes among youth in the control group, by youth's race and ethnicity

| | | <i>p</i> -value for | | | |
|--|--------------------|---------------------|----------|------------------------|--|
| Outcome | Non-Hispanic White | Non-Hispanic Black | Hispanic | subgroup difference | |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,466 | 2,931 | 2,053 | 0.24 | |
| Parents' total SSA payments during the five years after RA (\$) | 14,633 | 13,661 | 11,026 | 0.69 | |
| Parents' income in the past year (\$) | 27,144 | 24,782 | 26,093 | 0.73 | |
| Parents' income during the five calendar years after RA (\$) | 121,477 | 115,727 | 149,181 | 0.08† | |
| Either parent is covered by health insurance | 96.8 | 95.2 | 81.0 | 0.02†† | |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) ^a | 938 | 793 | 595 | 0.03†† | |

Source: PROMISE five-year surveys; CMS, RSA, and SSA administrative records; PROMISE 18-month youth survey.

Note: This table shows the observed means for the control group of MD PROMISE. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

+/++/+++ Average outcomes for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

| | | <i>p</i> -value for | | | |
|---|--------------------|---------------------|----------|------------------------|--|
| Outcome | Non-Hispanic White | Non-Hispanic Black | Hispanic | subgroup difference | |
| Youth enrolled in an educational or training program | 40.8 | 57.5 | 62.2 | 0.01†† | |
| Youth has a GED, high school diploma, or certificate of completion | 58.6 | 55.7 | 52.7 | 0.64 | |
| Youth employed in a paid job in the past year | 25.7 | 36.6 | 6 26.8 | | |
| Youth earnings in the past year (\$) | 2,684 | 3,183 | 2,034 | 0.07† | |
| Youth earnings during the five calendar years after RA (\$) | 5,860 | 8,146 | 7,176 | 0.36 | |
| Youth self-determination score (scale: 0 to 100) | 79.1 | 79.1 | 75.8 | 0.08† | |
| Youth expects to be financially independent at age 25 | 50.9 | 69.3 | 63.2 | 0.12 | |
| Youth received SSA payments in Year 5 after RA | 78.1 | 65.1 | 71.3 | 0.04†† | |
| Youth total SSA payments in Year 5 after RA (\$) | 6,240 | 5,075 | 5,837 | 0.02†† | |
| Youth total SSA payments during Years 1–5 after RA (\$) | 34,648 | 33,651 | 35,833 | 0.10† | |
| Youth covered by any health insurance | 98.3 | 93.8 | 95.0 | 0.12 | |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,625 | 1,249 | 1,461 | 0.00††† | |
| Youth income in the past year (\$) | 8,986 | 8,352 | 8,021 | 0.50 | |
| Youth total income during the five calendar years after RA (\$) | 42,499 | 43,175 | 44,861 | 0.30 | |
| Either parent worked for pay in the past year | 56.2 | 57.0 | 54.7 | 0.87 | |
| Parents' earnings in the past year (\$) | 17,149 | 16,783 | 14,150 | 0.26 | |
| Parents' earnings during the five calendar years after RA (\$) | 84,458 | 90,018 | 86,899 | 0.89 | |
| Either parent received SSA payments in Year 5 after RA | 44.4 | 34.4 | 29.9 | 0.09† | |

Appendix Table J.4.e. NYS PROMISE: Average outcomes among youth in the control group, by youth's race and ethnicity

| | | <i>p</i> -value for | | | |
|--|--------------------|---------------------|----------|------------------------|--|
| Outcome | Non-Hispanic White | Non-Hispanic Black | Hispanic | subgroup difference | |
| Parents' total SSA payments received in Year 5 after RA (\$) | 4,795 | 3,552 | 3,004 | 0.09† | |
| Parents' total SSA payments during the five years after RA (\$) | 23,347 | 16,696 | 14,298 | 0.06† | |
| Parents' income in the past year (\$) | 21,978 | 20,768 | 16,890 | 0.04†† | |
| Parents' income during the five calendar years after RA (\$) | 110,453 | 108,516 | 102,438 | 0.70 | |
| Either parent is covered by health insurance | 98.3 | 95.1 | 87.1 | 0.00††† | |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) ^a | 893 | 831 | 885 | 0.72 | |

Source: PROMISE five-year surveys; CMS, RSA, and SSA administrative records; PROMISE 18-month youth survey.

Note: This table shows the observed means for the control group of NYS PROMISE. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

+/++/+++ Average outcomes for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

| | | <i>p</i> -value for | | | |
|---|--------------------|---------------------|----------|------------------------|--|
| Outcome | Non-Hispanic White | Non-Hispanic Black | Hispanic | subgroup difference | |
| Youth enrolled in an educational or training program | 32.7 | 33.4 | 41.6 | 0.36 | |
| Youth has a GED, high school diploma, or certificate of completion | 78.3 | 61.2 | 53.6 | 0.00††† | |
| Youth employed in a paid job in the past year | 49.2 | 49.3 | 45.9 | 0.86 | |
| Youth earnings in the past year (\$) | 4,321 | 5,249 | 4,315 | 0.46 | |
| Youth earnings during the five calendar years after RA (\$) | 11,839 | 13,678 | 13,436 | 0.53 | |
| Youth self-determination score (scale: 0 to 100) | 77.2 | 81.7 | 74.1 | 0.00††† | |
| Youth expects to be financially independent at age 25 | 51.6 | 68.2 | 52.6 | 0.00††† | |
| Youth received SSA payments in Year 5 after RA | 77.8 | 62.1 | 68.8 | 0.00††† | |
| Youth total SSA payments in Year 5 after RA (\$) | 6,264 | 4,955 | 5,332 | 0.00††† | |
| Youth total SSA payments during Years 1–5 after RA (\$) | 34,698 | 34,061 | 33,980 | 0.83 | |
| Youth covered by any health insurance | 89.4 | 86.8 | 81.1 | 0.22 | |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,060 | 622 | 796 | 0.00††† | |
| Youth income in the past year (\$) | 10,539 | 10,307 | 9,783 | 0.73 | |
| Youth total income during the five calendar years after RA (\$) | 48,472 | 48,760 | 48,618 | 0.98 | |
| Either parent worked for pay in the past year | 77.0 | 60.1 | 65.4 | 0.00††† | |
| Parents' earnings in the past year (\$) | 28,230 | 16,040 | 22,643 | 0.00††† | |
| Parents' earnings during the five calendar years after RA (\$) | 129,035 | 80,935 | 89,766 | 0.00††† | |
| Either parent received SSA payments in Year 5 after RA | 33.8 | 36.7 | 40.7 | 0.52 | |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,572 | 3,827 | 4,241 | 0.65 | |

Appendix Table J.4.f. WI PROMISE: Average outcomes among youth in the control group, by youth's race and ethnicity

| | | <i>p</i> -value for | | | |
|--|--------------------|---------------------|----------|------------------------|--|
| Outcome | Non-Hispanic White | Non-Hispanic Black | Hispanic | subgroup difference | |
| Parents' total SSA payments during the five years after RA (\$) | 16,872 | 18,413 | 21,247 | 0.46 | |
| Parents' income in the past year (\$) | 31,990 | 19,726 | 25,858 | 0.00††† | |
| Parents' income during the five calendar years after RA (\$) | 147,607 | 100,950 | 113,362 | 0.00††† | |
| Either parent is covered by health insurance | 94.0 | 88.9 | 78.2 | 0.00††† | |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$)ª | 755 | 782 | 646 | 0.35 | |

Source: PROMISE five-year surveys; CMS, RSA, and SSA administrative records; PROMISE 18-month youth survey.

Note: This table shows the observed means for the control group of WI PROMISE. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

†/††/††† Average outcomes for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

2. Differences in program impacts by race and ethnicity: program services minimized race and ethnic differences and may have helped reduced disparities

Relative to the findings for control group means, we found a less consistent pattern of differences by race and ethnicity in the impacts of the six programs on key youth and parent outcomes, though there are some important differences (Appendix Tables J.5, J.6, and J.7.a–f). For many of the outcomes examined, none of the programs had significantly different impacts across the three subgroups defined by youth's race and ethnicity; for a handful of outcomes, at most two programs did. The impacts of Arkansas PROMISE and CaPROMISE did not vary by youth's race and ethnicity for any outcome. In contrast, MD PROMISE had differential impacts by youth's race and ethnicity on more youth and parent outcomes than any other program.

The findings suggest that the programs did not exacerbate disparities across subgroups and may have reduced them in some instances. Overall, we found a consistent pattern of differences by youth's race and ethnicity in the mean outcomes of control group youth, and a more limited number of differences by race and ethnicity in the impacts of the PROMISE programs. In most cases where we found differences in impacts by youth's race and ethnicity, the subgroup differences in impacts ran counter to the subgroup differences in mean outcomes for the control group. In cases where we found differences in impacts by youth's race and ethnicity, positive impacts were typically observed for racial and ethnic subgroups that had lower control group mean values for the outcome relative to the other two subgroups, while negative impacts were typically observed for racial and ethnic subgroup mean values for the outcome relative to the other two subgroups, while negative increased youth earnings during the five years after RA among non-Hispanic Black youth, the subgroup with the highest average earnings among control group youth, while it had no impact on the earnings of the two other subgroups. Besides this exception, any differences in programs' impacts by youth's race and ethnicity favored groups that experienced worse outcomes among the control group.

One potential explanation for the findings is that the programs intentionally offered services to all youth in ways that minimized differences in outcomes and impacts based on race and ethnicity and might even have mitigated some race-related structural barriers faced by youth during the transition to adulthood. When differences in impacts were observed, they most often had the effect of reducing inequalities in outcomes across racial and ethnic subgroups; where differences in impacts occurred, positive impacts tended to be observed within subgroups with lower control group mean values for an outcome and vice versa. The limited differences by race and ethnicity in the programs' impacts could be considered a strength of the PROMISE programs. Alternatively, the lack of subgroup impact differences might be driven by small sample sizes (Appendix Tables J.8.a–f) or the characteristics of youth who volunteered for PROMISE (see Appendix K).

Appendix Table J.5. Summary of differences in programs' impacts on youth outcomes, by youth's race and ethnicity

| Youth outcome | Summary of subgroup impacts |
|---|--|
| Enrolled in an educational or training program | MD PROMISE increased enrollment rates of non-Hispanic White youth and had no impact on enrollment rates of the two other subgroups; based on differences in control group means, this might have reduced disparities across subgroups. |
| Has a GED, high school diploma, or certificate of completion | No significant differences in impacts across subgroups |
| Employed in a paid job in the past year | No significant differences in impacts across subgroups |
| Earnings in the past year (\$) | ASPIRE increased the earnings of non-Hispanic White youth and had no impacts on the earnings of the two other subgroups; based on differences in control group means, this might have reduced disparities across subgroups. MD PROMISE decreased the earnings of Hispanic youth, increased the earnings of non-Hispanic Black youth, and had no impact on the earnings of non-Hispanic White youth; based on differences in control group means, this |
| Earnings during the five calendar years after RA (\$) | might have reduced disparities across subgroups. MD PROMISE decreased earnings of Hispanic youth, increased earnings of non-Hispanic Black youth, and had no impact on earnings of non-Hispanic White youth; based on differences in control group means, this might have reduced disparities across subgroups. |
| | NYS PROMISE increased earnings for non-Hispanic Black youth and had no impact on the earnings of the two other subgroups; based on differences in control group means, this might have increased disparities across subgroups. |
| Self-determination score (scale: 0 to 100) | No significant differences in programs' impacts on this outcome by youth's race and ethnicity. |
| Expects to be financially independent at age 25 | No significant differences in programs' impacts on this outcome by youth's race and ethnicity. |
| Covered by any health insurance | No significant differences in programs' impacts on this outcome by youth's race and ethnicity. |
| Average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | No significant differences in programs' impacts on this outcome by youth's race and ethnicity. |
| Received SSA payments in Year 5 after RA | No significant differences in programs' impacts on this outcome by youth's race and ethnicity. |
| Total SSA payments in Year 5 after RA (\$) | No significant differences in programs' impacts on this outcome by youth's race and ethnicity. |
| Total SSA payments during Years 1–5 after RA (\$) | No significant differences in programs' impacts on this outcome by youth's race and ethnicity. |
| Income in the past year (\$) | MD PROMISE decreased income for Hispanic youth, increased income for non- Hispanic Black youth, and had no impact on the income of non-Hispanic White youth; based on differences in control group means, this might have reduced disparities across subgroups. |
| Total income during the five calendar years after RA (\$) | MD PROMISE decreased income for Hispanic youth, increased income for non- Hispanic Black youth, and had no impact on the income of non-Hispanic White youth; based on differences in control group means, this might have reduced disparities across subgroups. |

Note: This table summarizes instances when a program's impacts for the three subgroups were significantly different from each other (*p*-value is less than .10/.05/.01) based on an adjusted Wald test.

Appendix Table J.6. Summary of differences in programs' impacts on parent outcomes, by youth's race and ethnicity

| Youth outcome | Summary of subgroup impacts |
|---|--|
| Either parent worked for pay in the past year | MD PROMISE increased employment rates of parents of non-Hispanic White youth, decreased employment rates of parents of Hispanic youth and had no impact for parents of non-Hispanic Black youth; based on differences in control group means, it is unclear whether this reduced disparities across subgroups. |
| Earnings in the past year (\$) | MD PROMISE increased earnings for parents of non-Hispanic Black youth and had no impacts on earnings for the two other subgroups; based on differences in control group means, it is unclear whether this reduced disparities across subgroups. |
| Earnings during the five calendar years after RA (\$) | ASPIRE reduced earnings for parents of non-Hispanic White youth and had no impacts on earnings for the two other subgroups; based on differences in control group means, this might have reduced disparities across subgroups. |
| | MD PROMISE increased earnings for parents of non-Hispanic White youth and had no impacts on earnings for the two other subgroups; based on differences in control group means, this might have reduced disparities across subgroups. |
| Either parent received SSA payments in Year 5 after RA | No significant differences in programs' impacts on this outcome by youth's race and ethnicity. |
| SSA payments received in Year 5 after RA (\$) | No significant differences in programs' impacts on this outcome by youth's race and ethnicity. |
| SSA payments during the five years after RA (\$) | No significant differences in programs' impacts on this outcome by youth's race and ethnicity. |
| Income in the past year (\$) | No significant differences in programs' impacts on this outcome by youth's race and ethnicity. |
| Income during the five calendar years after RA (\$) | ASPIRE increased income for parents of Hispanic youth and had no impacts on income for the two other subgroups; based on differences in control group means, this might have reduced disparities across subgroups. |
| Either parent is covered by health insurance | ASPIRE increased the share of parents of Hispanic youth that had health insurance and had no impacts on this outcome for the two other subgroups; based on differences in control group means, this might have reduced disparities across subgroups. |
| Average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | WI PROMISE increased expenditures for parents of Hispanic youth and had no impacts on earnings for the two other subgroups; based on differences in control group means, this might have reduced disparities across subgroups. |

Note: This table summarizes instances when a program's impacts for the three subgroups were significantly different from each other (*p*-value is less than .10/.05/.01) based on an adjusted Wald test.

Appendix Table J.7.a. Arkansas PROMISE: Impact estimates on primary outcomes, by youth's race and ethnicity (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | | | Neg Hierenie Dieck | | | I l'an anta | | | | |
|---|-----------------|--------------------|--------------------|--------------------|--------|-----------------|-----------------|--------|-----------------|------------------------|
| | | Non-Hispanic White | | Non-Hispanic Black | | | Hispanic | | | <i>p</i> -value for |
| Outcome | Control mean | Impact | <i>p-</i> value | Control mean | Impact | <i>p-</i> value | Control mean | Impact | <i>p</i> -value | subgroup difference |
| Youth enrolled in an educational or training program | 21.7 | 1.0 | 0.85 | 30.9 | -1.9 | 0.57 | 25.4 | 5.4 | 0.51 | 0.67 |
| Youth has a GED, high school diploma, or certificate of completion | 72.2 | 5.0 | 0.34 | 82.1 | -1.5 | 0.60 | 88.0 | -12.7* | 0.10 | 0.16 |
| Youth employed in a paid job in the past year | 42.6 | 1.2 | 0.85 | 52.4 | 5.3 | 0.15 | 46.0 | 9.6 | 0.30 | 0.72 |
| Youth earnings in the past year (\$) | 4,338 | -648 | 0.46 | 5,675 | 192 | 0.79 | 7,555 | -2,416 | 0.30 | 0.48 |
| Youth earnings during the five calendar years after RA (\$) | 7,888 | 1,613 | 0.32 | 15,930 | 44 | 0.97 | 12,733 | 1,853 | 0.53 | 0.69 |
| Youth self-determination score (scale: 0 to 100) | 76.5 | 2.1 | 0.38 | 80.0 | -0.4 | 0.76 | 77.6 | -0.3 | 0.91 | 0.64 |
| Youth expects to be financially independent at age 25 | 54.8 | 2.3 | 0.76 | 65.2 | 4.8 | 0.26 | 73.5 | -11.9 | 0.28 | 0.37 |
| Youth received SSA payments in Year 5 after RA | 69.1 | -4.1 | 0.38 | 53.9 | -0.2 | 0.96 | 61.9 | 7.4 | 0.34 | 0.43 |
| Youth total SSA payments in Year 5 after RA (\$) | 5,485 | -460 | 0.29 | 3,762 | 0 | 1.00 | 5,135 | 347 | 0.63 | 0.54 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 34,079 | -921 | 0.46 | 30,560 | -470 | 0.58 | 33,805 | 1,519 | 0.48 | 0.61 |
| Youth covered by any health insurance | 89.7 | -13.0*** | 0.00 | 80.5 | -4.5 | 0.16 | 81.6 | -10.1 | 0.23 | 0.27 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 673 | -83 | 0.20 | 369 | 20 | 0.48 | 467 | 82 | 0.24 | 0.22 |
| Youth income in the past year (\$) | 9,776 | -1,323 | 0.11 | 9,433 | 145 | 0.83 | 12,590 | -1,916 | 0.38 | 0.31 |
| Youth total income during the five calendar years after RA (\$) | 43,351 | 250 | 0.88 | 46,995 | -681 | 0.60 | 48,059 | 2,752 | 0.35 | 0.55 |
| Either parent worked for pay in the past year | 58.2 | 10.5* | 0.06 | 63.6 | 1.3 | 0.67 | 74.7 | -8.1 | 0.30 | 0.13 |

| | Non-Hispanic White | | | Non- | Hispanic I | Black | | | <i>p</i> -value for | |
|--|--------------------|----------|-----------------|-----------------|------------|-----------------|-----------------|--------|---------------------|------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | subgroup difference |
| Parents' earnings in the past year (\$) | 19,256 | 3,249 | 0.27 | 16,136 | 1,808 | 0.19 | 25,421 | -3,733 | 0.46 | 0.48 |
| Parents' earnings during the five calendar years after RA (\$) | 105,716 | -12,431* | 0.09 | 87,609 | 1,595 | 0.65 | 112,984 | 1,686 | 0.88 | 0.22 |
| Either parent received SSA payments in Year 5 after RA | 48.4 | -2.5 | 0.53 | 32.4 | 1.1 | 0.53 | 27.1 | 0.7 | 0.89 | 0.71 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 5,831 | -669 | 0.26 | 3,495 | 69 | 0.78 | 2,782 | 400 | 0.56 | 0.42 |
| Parents' total SSA payments during the five years after RA (\$) | 26,082 | -684 | 0.75 | 16,791 | 837 | 0.39 | 14,911 | -258 | 0.92 | 0.77 |
| Parents' income in the past year (\$) | 25,140 | 2,773 | 0.33 | 19,805 | 2,149 | 0.11 | 29,485 | -5,353 | 0.30 | 0.34 |
| Parents' income during the five calendar years after RA (\$) | 134,748 | -13,268* | 0.06 | 106,063 | 2,530 | 0.46 | 128,879 | 2,663 | 0.81 | 0.12 |
| Either parent is covered by health insurance | 93.0 | -6.2 | 0.10 | 92.8 | -1.9 | 0.35 | 72.8 | 5.1 | 0.53 | 0.38 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 425 | 91* | 0.06 | 326 | 14 | 0.60 | 342 | 26 | 0.75 | 0.37 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records; PROMISE 18-month youth survey.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of Arkansas PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table J.7.b. ASPIRE: Impact estimates on primary outcomes, by youth's race and ethnicity (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Non | Hispanic V | Vhite | Non- | Hispanic I | Black | | Hispanic | | <i>p</i> -value for |
|---|-----------------|------------|-----------------|-----------------|------------|-----------------|-----------------|----------|-----------------|------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | subgroup difference |
| Youth enrolled in an educational or training program | 38.2 | 0.9 | 0.83 | 37.2 | 4.2 | 0.58 | 40.1 | -1.6 | 0.68 | 0.77 |
| Youth has a GED, high school diploma, or certificate of completion | 73.3 | -1.3 | 0.72 | 81.6 | -12.4* | 0.06 | 75.1 | -6.2* | 0.09 | 0.30 |
| Youth employed in a paid job in the past year | 39.0 | 3.4 | 0.38 | 59.1 | 3.8 | 0.61 | 40.6 | -3.0 | 0.44 | 0.44 |
| Youth earnings in the past year (\$) | 3,846 | 1,233* | 0.08 | 6,616 | 1,920 | 0.20 | 5,619 | -938 | 0.23 | 0.07† |
| Youth earnings during the five calendar years after RA (\$) | 10,074 | 1,205 | 0.36 | 18,093 | 431 | 0.88 | 14,553 | -2,084 | 0.18 | 0.26 |
| Youth self-determination score (scale: 0 to 100) | 79.7 | -0.5 | 0.70 | 82.4 | -0.1 | 0.95 | 79.0 | -2.5 | 0.10 | 0.53 |
| Youth expects to be financially independent at age 25 | 49.2 | -1.4 | 0.78 | 71.3 | 0.3 | 0.97 | 58.1 | 0.1 | 0.98 | 0.97 |
| Youth received SSA payments in Year 5 after RA | 76.7 | -2.7 | 0.38 | 46.0 | 6.1 | 0.35 | 62.7 | 1.1 | 0.75 | 0.41 |
| Youth total SSA payments in Year 5 after RA (\$) | 6,217 | -63 | 0.83 | 3,567 | -83 | 0.87 | 5,014 | 241 | 0.43 | 0.73 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 32,832 | -503 | 0.58 | 28,142 | 2,610 | 0.14 | 30,796 | 383 | 0.71 | 0.29 |
| Youth covered by any health insurance | 91.7 | -2.1 | 0.40 | 85.6 | -2.1 | 0.71 | 88.4 | 0.6 | 0.82 | 0.74 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,927 | -70 | 0.39 | 1,348 | -2 | 0.99 | 1,872 | 55 | 0.44 | 0.50 |
| Youth income in the past year (\$) | 10,380 | 1,081* | 0.08 | 10,707 | 1,255 | 0.38 | 10,871 | -731 | 0.31 | 0.13 |
| Youth total income during the five calendar years after RA (\$) | 44,838 | 774 | 0.55 | 46,531 | 2,416 | 0.38 | 45,951 | -1,263 | 0.39 | 0.39 |
| Either parent worked for pay in the past year | 75.4 | -1.3 | 0.70 | 69.6 | -9.4 | 0.18 | 68.2 | 0.8 | 0.83 | 0.43 |

| | Non | -Hispanic \ | Vhite | Non- | Hispanic | Black | Hispanic | | | <i>p</i> -value for |
|--|-----------------|-------------|-----------------|-----------------|----------|-----------------|--------------|--------|-----------------|------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | subgroup difference |
| Parents' earnings in the past year (\$) | 34,747 | -2,659 | 0.28 | 24,940 | -2,193 | 0.60 | 24,614 | 2,133 | 0.37 | 0.33 |
| Parents' earnings during the five calendar years after RA (\$) | 152,394 | -10,714* | 0.07 | 102,437 | -5,027 | 0.56 | 123,181 | 8,649 | 0.12 | 0.05† |
| Either parent received SSA payments in Year 5 after RA | 29.1 | -2.2 | 0.33 | 29.4 | -1.5 | 0.66 | 25.6 | -2.4 | 0.26 | 0.97 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,316 | 95 | 0.81 | 2,733 | 216 | 0.62 | 2,848 | -75 | 0.82 | 0.85 |
| Parents' total SSA payments during the five years after RA (\$) | 14,897 | 873 | 0.54 | 15,872 | -1,109 | 0.52 | 12,758 | 504 | 0.66 | 0.63 |
| Parents' income in the past year (\$) | 37,957 | -2,413 | 0.32 | 28,213 | -3,496 | 0.40 | 28,390 | 3,278 | 0.19 | 0.18 |
| Parents' income during the five calendar years after RA (\$) | 168,640 | -9,454 | 0.11 | 119,569 | -6,349 | 0.47 | 137,221 | 9,119* | 0.10 | 0.05† |
| Either parent is covered by health insurance | 88.7 | 3.2 | 0.20 | 91.4 | -3.1 | 0.51 | 84.8 | 1.1 | 0.72 | 0.48 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 613 | 30 | 0.46 | 871 | -102 | 0.20 | 644 | 27 | 0.48 | 0.29 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records; ASPIRE intake form.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of ASPIRE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table J.7.c. CaPROMISE: Impact estimates on primary outcomes, by youth's race and ethnicity (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Non | -Hispanic \ | Vhite | Non- | Hispanic I | Black | | Hispanic | | <i>p</i> -value for |
|---|-----------------|-------------|-----------------|-----------------|------------|-----------------|-----------------|----------|-----------------|------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | subgroup difference |
| Youth enrolled in an educational or training program | 53.3 | 12.9 | 0.23 | 48.1 | 0.4 | 0.95 | 64.0 | 0.1 | 0.98 | 0.50 |
| Youth has a GED, high school diploma, or certificate of completion | 86.1 | -2.8 | 0.72 | 82.6 | -1.1 | 0.84 | 80.9 | -0.3 | 0.91 | 0.95 |
| Youth employed in a paid job in the past year | 34.1 | -4.6 | 0.69 | 48.8 | 5.2 | 0.43 | 29.8 | 3.2 | 0.29 | 0.75 |
| Youth earnings in the past year (\$) | 1,912 | -509 | 0.72 | 4,503 | 1,285 | 0.36 | 3,652 | 415 | 0.48 | 0.66 |
| Youth earnings during the five calendar years after RA (\$) | 4,240 | 455 | 0.87 | 14,103 | -1,235 | 0.61 | 8,554 | 1,431 | 0.18 | 0.58 |
| Youth self-determination score (scale: 0 to 100) | 80.6 | -0.9 | 0.81 | 79.5 | -0.6 | 0.78 | 77.0 | -1.8 | 0.18 | 0.88 |
| Youth expects to be financially independent at age 25 | 54.8 | -3.2 | 0.81 | 64.5 | -0.2 | 0.98 | 54.5 | 5.0 | 0.24 | 0.73 |
| Youth received SSA payments in Year 5 after RA | 80.4 | -2.6 | 0.75 | 53.8 | 9.4* | 0.10 | 68.9 | 1.6 | 0.56 | 0.37 |
| Youth total SSA payments in Year 5 after RA (\$) | 7,884 | -808 | 0.39 | 5,060 | 970 | 0.11 | 6,543 | 351 | 0.23 | 0.27 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 41,087 | -1,148 | 0.70 | 36,435 | 2,620 | 0.13 | 37,755 | 842 | 0.34 | 0.48 |
| Youth covered by any health insurance | 100.0 | -0.4 | 0.89 | 86.5 | 4.0 | 0.34 | 92.0 | 2.1 | 0.23 | 0.63 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 2,363 | -322 | 0.10 | 1,414 | 116 | 0.17 | 1,672 | 46 | 0.37 | 0.12 |
| Youth income in the past year (\$) | 10,295 | -1,118 | 0.42 | 9,803 | 2,119 | 0.10 | 10,373 | 814 | 0.13 | 0.23 |
| Youth total income during the five calendar years after RA (\$) | 47,850 | -894 | 0.79 | 51,547 | 2,288 | 0.32 | 48,720 | 2,049* | 0.07 | 0.69 |
| Either parent worked for pay in the past year | 75.4 | -4.8 | 0.58 | 61.5 | 1.2 | 0.83 | 77.4 | 0.4 | 0.86 | 0.83 |

| | Non-Hispanic White | | | Non- | Hispanic I | Black | | | <i>p</i> -value for | |
|--|--------------------|----------|-----------------|-----------------|------------|-----------------|-----------------|--------|---------------------|------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | subgroup difference |
| Parents' earnings in the past year (\$) | 37,452 | -6,620 | 0.39 | 20,064 | 3,093 | 0.34 | 26,356 | -645 | 0.68 | 0.40 |
| Parents' earnings during the five calendar years after RA (\$) | 113,234 | 33,395** | 0.03 | 99,517 | -2,830 | 0.76 | 130,765 | 6,527 | 0.21 | 0.13 |
| Either parent received SSA payments in Year 5 after RA | 22.7 | -2.1 | 0.65 | 35.5 | -0.1 | 0.97 | 17.8 | 0.5 | 0.76 | 0.87 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,645 | -868 | 0.28 | 4,402 | -243 | 0.65 | 2,018 | -35 | 0.88 | 0.58 |
| Parents' total SSA payments during the five years after RA (\$) | 20,549 | -4,841 | 0.21 | 21,082 | -1,196 | 0.54 | 9,466 | -579 | 0.48 | 0.54 |
| Parents' income in the past year (\$) | 42,139 | -8,761 | 0.27 | 24,674 | 2,092 | 0.51 | 30,012 | -720 | 0.69 | 0.42 |
| Parents' income during the five calendar years after RA (\$) | 134,867 | 28,637* | 0.08 | 122,364 | -4,220 | 0.64 | 141,028 | 6,296 | 0.23 | 0.19 |
| Either parent is covered by health insurance | 100.0 | -7.8* | 0.06 | 92.5 | -4.6 | 0.26 | 82.7 | 1.4 | 0.56 | 0.12 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 539 | -52 | 0.49 | 737 | 52 | 0.38 | 470 | 19 | 0.47 | 0.53 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records; PROMISE 18-month youth survey.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of CaPROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse and sample design.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table J.7.d. MD PROMISE: Impact estimates on primary outcomes, by youth's race and ethnicity (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Non- | Hispanic V | Vhite | Non- | Hispanic I | Black | | Hispanic | | <i>p</i> -value for |
|---|-----------------|------------|-----------------|-----------------|------------|-----------------|-----------------|----------|-----------------|------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | subgroup difference |
| Youth enrolled in an educational or training program | 30.9 | 10.6* | 0.08 | 37.2 | -4.9 | 0.14 | 55.7 | -8.0 | 0.39 | 0.06† |
| Youth has a GED, high school diploma, or certificate of completion | 72.1 | -1.8 | 0.76 | 74.1 | -7.1** | 0.02 | 66.0 | -10.3 | 0.25 | 0.65 |
| Youth employed in a paid job in the past year | 38.9 | 2.4 | 0.70 | 45.4 | 5.7 | 0.11 | 49.7 | -14.7 | 0.12 | 0.13 |
| Youth earnings in the past year (\$) | 5,389 | -199 | 0.88 | 4,345 | 1,703** | 0.01 | 6,222 | -3,410** | 0.04 | 0.01†† |
| Youth earnings during the five calendar years after RA (\$) | 9,997 | -69 | 0.97 | 12,743 | 2,779** | 0.05 | 13,521 | -5,398* | 0.10 | 0.05† |
| Youth self-determination score (scale: 0 to 100) | 77.5 | -1.3 | 0.65 | 78.2 | 1.3 | 0.25 | 82.6 | -3.7 | 0.19 | 0.19 |
| Youth expects to be financially independent at age 25 | 51.0 | 6.1 | 0.49 | 63.3 | 6.6 | 0.11 | 77.3 | -16.1 | 0.14 | 0.14 |
| Youth received SSA payments in Year 5 after RA | 65.5 | 10.0* | 0.06 | 62.6 | 5.0 | 0.10 | 78.2 | -1.5 | 0.84 | 0.43 |
| Youth total SSA payments in Year 5 after RA (\$) | 5,502 | 775 | 0.14 | 5,131 | -128 | 0.65 | 5,847 | 99 | 0.89 | 0.30 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 32,430 | 2,058 | 0.17 | 32,999 | 890 | 0.28 | 33,915 | 13 | 0.99 | 0.67 |
| Youth covered by any health insurance | 91.9 | 1.1 | 0.75 | 89.4 | 0.3 | 0.88 | 100.0 | -4.3 | 0.19 | 0.42 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,236 | 11 | 0.88 | 1,039 | -58 | 0.14 | 1,289 | 53 | 0.64 | 0.52 |
| Youth income in the past year (\$) | 11,244 | 352 | 0.78 | 9,519 | 1,730*** | 0.01 | 12,075 | -2,920** | 0.05 | 0.01†† |
| Youth total income during the five calendar years after RA (\$) | 44,253 | 2,555 | 0.26 | 47,330 | 3,554** | 0.01 | 49,085 | -5,300* | 0.08 | 0.02†† |
| Either parent worked for pay in the past year | 60.2 | 12.4** | 0.04 | 66.0 | 2.3 | 0.47 | 73.2 | -15.5* | 0.06 | 0.02†† |

| | Non-Hispanic White | | | Non- | Hispanic I | Black | | | <i>p</i> -value for | |
|--|--------------------|---------|-----------------|--------------|------------|-----------------|-----------------|--------|---------------------|------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | subgroup difference |
| Parents' earnings in the past year (\$) | 22,437 | 5,164 | 0.18 | 21,207 | 3,326* | 0.06 | 22,887 | -5,913 | 0.14 | 0.08† |
| Parents' earnings during the five calendar years after RA (\$) | 104,958 | 14,384* | 0.08 | 100,600 | -4,508 | 0.29 | 137,214 | -7,997 | 0.42 | 0.09† |
| Either parent received SSA payments in Year 5 after RA | 27.6 | -4.8 | 0.25 | 27.1 | -0.8 | 0.70 | 19.6 | 7.6 | 0.15 | 0.17 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,466 | -753 | 0.22 | 2,931 | -69 | 0.81 | 2,053 | 1,010 | 0.12 | 0.13 |
| Parents' total SSA payments during the five years after RA (\$) | 14,633 | -1,578 | 0.46 | 13,661 | -584 | 0.52 | 11,026 | 267 | 0.91 | 0.83 |
| Parents' income in the past year (\$) | 27,144 | 3,339 | 0.38 | 24,782 | 2,664 | 0.13 | 26,093 | -5,709 | 0.16 | 0.15 |
| Parents' income during the five calendar years after RA (\$) | 121,477 | 12,466 | 0.12 | 115,727 | -5,174 | 0.21 | 149,181 | -7,384 | 0.45 | 0.12 |
| Either parent is covered by health insurance | 96.8 | 0.1 | 0.95 | 95.2 | -0.4 | 0.78 | 81.0 | 4.3 | 0.55 | 0.80 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 938 | -43 | 0.66 | 793 | 6 | 0.88 | 595 | -21 | 0.77 | 0.87 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records; PROMISE 18-month youth survey.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of MD PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table J.7.e. NYS PROMISE: Impact estimates on primary outcomes, by youth's race and ethnicity (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Non | -Hispanic V | Vhite | Non-Hispanic Black | | | | Hispanic | | <i>p</i> -value for |
|---|-----------------|-------------|-----------------|--------------------|---------|-----------------|-----------------|----------|-----------------|------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | subgroup difference |
| Youth enrolled in an educational or training program | 40.8 | 0.9 | 0.91 | 57.5 | -7.6* | 0.05 | 62.2 | -2.3 | 0.55 | 0.48 |
| Youth has a GED, high school diploma, or certificate of completion | 58.6 | -0.5 | 0.95 | 55.7 | 0.0 | 1.00 | 52.7 | 0.7 | 0.87 | 0.99 |
| Youth employed in a paid job in the past year | 25.7 | 16.6** | 0.04 | 36.6 | 8.9** | 0.03 | 26.8 | 7.1* | 0.07 | 0.57 |
| Youth earnings in the past year (\$) | 2,684 | 1,194 | 0.47 | 3,183 | 873 | 0.16 | 2,034 | 694 | 0.17 | 0.94 |
| Youth earnings during the five calendar years after RA (\$) | 5,860 | 2,232 | 0.35 | 8,146 | 2,752** | 0.01 | 7,176 | -814 | 0.44 | 0.06† |
| Youth self-determination score (scale: 0 to 100) | 79.1 | -2.1 | 0.50 | 79.1 | -1.0 | 0.46 | 75.8 | 0.5 | 0.75 | 0.67 |
| Youth expects to be financially independent at age 25 | 50.9 | 14.7 | 0.22 | 69.3 | -0.3 | 0.95 | 63.2 | 6.1 | 0.28 | 0.41 |
| Youth received SSA payments in Year 5 after RA | 78.1 | 2.7 | 0.69 | 65.1 | -4.4 | 0.21 | 71.3 | 2.3 | 0.49 | 0.34 |
| Youth total SSA payments in Year 5 after RA (\$) | 6,240 | 296 | 0.64 | 5,075 | -428 | 0.17 | 5,837 | 50 | 0.87 | 0.42 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 34,648 | 2,870 | 0.16 | 33,651 | -1,258 | 0.16 | 35,833 | -34 | 0.97 | 0.15 |
| Youth covered by any health insurance | 98.3 | 0.2 | 0.92 | 93.8 | -0.5 | 0.80 | 95.0 | 1.0 | 0.58 | 0.86 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,625 | -64 | 0.63 | 1,249 | -66 | 0.17 | 1,461 | -66 | 0.27 | 1.00 |
| Youth income in the past year (\$) | 8,986 | 1,120 | 0.48 | 8,352 | 442 | 0.46 | 8,021 | 660 | 0.20 | 0.91 |
| Youth total income during the five calendar years after RA (\$) | 42,499 | 4,768* | 0.07 | 43,175 | 1,276 | 0.31 | 44,861 | -788 | 0.49 | 0.11 |
| Either parent worked for pay in the past year | 56.2 | -1.6 | 0.84 | 57.0 | 1.4 | 0.71 | 54.7 | 2.5 | 0.52 | 0.89 |

| | Non- | Hispanic \ | Vhite | Non- | Hispanic I | Black | Hispanic | | | <i>p</i> -value for |
|--|-----------------|------------|-----------------|--------------|------------|-----------------|-----------------|--------|-----------------|------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | subgroup difference |
| Parents' earnings in the past year (\$) | 17,149 | 2,689 | 0.48 | 16,783 | 400 | 0.81 | 14,150 | -662 | 0.67 | 0.68 |
| Parents' earnings during the five calendar years after RA (\$) | 84,458 | -1,359 | 0.90 | 90,018 | 1,994 | 0.70 | 86,899 | 770 | 0.88 | 0.96 |
| Either parent received SSA payments in Year 5 after RA | 44.4 | -3.8 | 0.45 | 34.4 | -1.9 | 0.43 | 29.9 | -1.9 | 0.41 | 0.94 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 4,795 | -110 | 0.89 | 3,552 | -311 | 0.31 | 3,004 | -16 | 0.96 | 0.80 |
| Parents' total SSA payments during the five years after RA (\$) | 23,347 | -225 | 0.94 | 16,696 | -617 | 0.58 | 14,298 | -166 | 0.89 | 0.96 |
| Parents' income in the past year (\$) | 21,978 | 2,732 | 0.47 | 20,768 | -68 | 0.97 | 16,890 | -538 | 0.73 | 0.72 |
| Parents' income during the five calendar years after RA (\$) | 110,453 | -1,517 | 0.88 | 108,516 | 1,170 | 0.81 | 102,438 | 947 | 0.84 | 0.97 |
| Either parent is covered by health insurance | 98.3 | 1.8 | 0.39 | 95.1 | -1.1 | 0.54 | 87.1 | 5.0** | 0.02 | 0.09† |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 893 | 22 | 0.79 | 831 | 7 | 0.88 | 885 | 10 | 0.83 | 0.99 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records; PROMISE 18-month youth survey.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of NYS PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

Appendix Table J.7.f. WI PROMISE: Impact estimates on primary outcomes, by youth's race and ethnicity (values measured at the time of the survey and shown in percentages, unless otherwise noted)

| | Non- | Hispanic V | Vhite | Non- | Hispanic I | Black | | Hispanic | | <i>p</i> -value for |
|---|--------------|------------|-----------------|-----------------|------------|-----------------|-----------------|----------|-----------------|------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | subgroup difference |
| Youth enrolled in an educational or training program | 32.7 | -0.1 | 0.99 | 33.4 | 1.6 | 0.70 | 41.6 | -4.1 | 0.58 | 0.79 |
| Youth has a GED, high school diploma, or certificate of completion | 78.3 | -0.5 | 0.90 | 61.2 | 7.6* | 0.07 | 53.6 | 7.4 | 0.31 | 0.33 |
| Youth employed in a paid job in the past year | 49.2 | 13.5*** | 0.01 | 49.3 | 8.3* | 0.05 | 45.9 | 2.4 | 0.75 | 0.43 |
| Youth earnings in the past year (\$) | 4,321 | 2,009** | 0.03 | 5,249 | 616 | 0.45 | 4,315 | -392 | 0.76 | 0.26 |
| Youth earnings during the five calendar years after RA (\$) | 11,839 | 898 | 0.62 | 13,678 | 2,016 | 0.17 | 13,436 | -911 | 0.75 | 0.64 |
| Youth self-determination score (scale: 0 to 100) | 77.2 | 0.6 | 0.73 | 81.7 | -3.4** | 0.02 | 74.1 | 1.5 | 0.59 | 0.11 |
| Youth expects to be financially independent at age 25 | 51.6 | 0.0 | 0.99 | 68.2 | -1.2 | 0.80 | 52.6 | 6.1 | 0.51 | 0.78 |
| Youth received SSA payments in Year 5 after RA | 77.8 | -1.6 | 0.68 | 62.1 | 4.1 | 0.28 | 68.8 | 2.7 | 0.67 | 0.56 |
| Youth total SSA payments in Year 5 after RA (\$) | 6,264 | -1 | 1.00 | 4,955 | 293 | 0.38 | 5,332 | 511 | 0.36 | 0.69 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 34,698 | -514 | 0.64 | 34,061 | 1,266 | 0.20 | 33,980 | 2,032 | 0.21 | 0.32 |
| Youth covered by any health insurance | 89.4 | 1.6 | 0.59 | 86.8 | -2.0 | 0.50 | 81.1 | 5.3 | 0.32 | 0.44 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 1,060 | 16 | 0.82 | 622 | 66 | 0.21 | 796 | 106 | 0.30 | 0.75 |
| Youth income in the past year (\$) | 10,539 | 2,165*** | 0.01 | 10,307 | 810 | 0.30 | 9,783 | 331 | 0.78 | 0.34 |
| Youth total income during the five calendar years after RA (\$) | 48,472 | 727 | 0.68 | 48,760 | 3,375** | 0.02 | 48,618 | 1,250 | 0.65 | 0.48 |
| Either parent worked for pay in the past year | 77.0 | 3.5 | 0.35 | 60.1 | 6.6* | 0.08 | 65.4 | 4.9 | 0.40 | 0.84 |

| | Non-Hispanic White | | | Non- | Hispanic I | Black | | | <i>p</i> -value for | |
|--|--------------------|--------|-----------------|--------------|------------|-----------------|-----------------|--------|---------------------|------------------------|
| Outcome | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | Control mean | Impact | <i>p</i> -value | subgroup difference |
| Parents' earnings in the past year (\$) | 28,230 | 3,920 | 0.18 | 16,040 | 3,883** | 0.04 | 22,643 | -3,347 | 0.34 | 0.17 |
| Parents' earnings during the five calendar years after RA (\$) | 129,035 | 7,700 | 0.24 | 80,935 | 6,593 | 0.14 | 89,766 | -5,726 | 0.56 | 0.48 |
| Either parent received SSA payments in Year 5 after RA | 33.8 | -3.9 | 0.21 | 36.7 | -0.7 | 0.77 | 40.7 | 3.0 | 0.50 | 0.41 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 3,572 | -311 | 0.45 | 3,827 | -175 | 0.58 | 4,241 | 598 | 0.31 | 0.41 |
| Parents' total SSA payments during the five years after RA (\$) | 16,872 | -1,386 | 0.37 | 18,413 | -314 | 0.78 | 21,247 | -1,215 | 0.60 | 0.84 |
| Parents' income in the past year (\$) | 31,990 | 3,300 | 0.25 | 19,726 | 3,614** | 0.05 | 25,858 | -3,676 | 0.32 | 0.19 |
| Parents' income during the five calendar years after RA (\$) | 147,607 | 6,044 | 0.35 | 100,950 | 6,464 | 0.15 | 113,362 | -6,985 | 0.47 | 0.43 |
| Either parent is covered by health insurance | 94.0 | 1.1 | 0.62 | 88.9 | 2.5 | 0.33 | 78.2 | -1.7 | 0.75 | 0.75 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 755 | -58 | 0.31 | 782 | 26 | 0.57 | 646 | 170* | 0.06 | 0.09† |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records; PROMISE 18-month youth survey.

Note: This table shows the observed means for the control group and the regression-adjusted impact estimates of WI PROMISE. The adjusted mean for the treatment group can be calculated by adding the impact estimate to the observed mean for the control group. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

*/**/*** Impact estimate is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

†/††/††† Impact estimates for subgroups are significantly different from each other (*p*-value is less than .10/.05/.01) using an adjusted Wald test.

GED = General Educational Development; N = sample size; RA = random assignment; RSA = Rehabilitation Services Administration; SSA = Social Security Administration.

| | Non-Hist | oanic White | Non-Hisi | oanic Black | Hispa | anic |
|---|----------------------|--------------------|----------------------|-------------|--------------------|----------------------|
| Outcome | Treatment group N | Control group N | Treatment group N | | Control group N | Treatment group N |
| Youth enrolled in an educational or training program | 132 | 128 | 362 | 347 | 49 | 49 |
| Youth has a GED, high school diploma, or certificate of completion | 139 | 136 | 373 | 358 | 51 | 51 |
| Youth employed in a paid job in the past year | 140 | 136 | 373 | 360 | 52 | 51 |
| Youth earnings in the past year (\$) | 140 | 136 | 373 | 360 | 52 | 51 |
| Youth earnings during the five calendar years after RA (\$) | 162 | 165 | 441 | 414 | 57 | 63 |
| Youth self-determination score (scale: 0 to 100) | 91 | 82 | 256 | 220 | 32 | 32 |
| Youth expects to be financially independent at age 25 | 97 | 84 | 261 | 226 | 35 | 33 |
| Youth received SSA payments in Year 5 after RA | 162 | 165 | 441 | 414 | 57 | 63 |
| Youth total SSA payments in Year 5 after RA (\$) | 162 | 165 | 441 | 414 | 57 | 63 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 162 | 165 | 441 | 414 | 57 | 63 |
| Youth covered by any health insurance | 136 | 133 | 355 | 340 | 52 | 50 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 162 | 165 | 441 | 414 | 57 | 63 |
| Youth income in the past year (\$) | 140 | 136 | 373 | 360 | 52 | 51 |
| Youth total income during the five calendar years after RA (\$) | 162 | 165 | 441 | 414 | 57 | 63 |
| Either parent worked for pay in the past year | 129 | 130 | 368 | 356 | 51 | 49 |
| Parents' earnings in the past year (\$) | 129 | 130 | 368 | 357 | 51 | 49 |
| Parents' earnings during the five calendar years after RA (\$) | 158 | 161 | 439 | 413 | 51 | 59 |
| Either parent received SSA payments in Year 5 after RA | 158 | 161 | 439 | 413 | 51 | 59 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 158 | 161 | 439 | 413 | 51 | 59 |

Appendix Table J.8.a. Arkansas PROMISE: Sample sizes for primary outcomes, by youth's race and ethnicity

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| | Non-Hispanic White | | Non-Hispanic Black | | Hispanic | |
|---|----------------------|--------------------|----------------------|--------------------|--------------------|----------------------|
| Outcome | Treatment group N | Control group N | Treatment group N | Control group N | Control group N | Treatment group N |
| Parents' total SSA payments during the five years after RA (\$) | 158 | 161 | 439 | 413 | 51 | 59 |
| Parents' income in the past year (\$) | 127 | 127 | 366 | 356 | 46 | 45 |
| Parents' income during the five calendar years after RA (\$) | 158 | 161 | 439 | 413 | 51 | 59 |
| Either parent is covered by health insurance | 129 | 129 | 365 | 354 | 50 | 49 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 158 | 161 | 439 | 413 | 51 | 59 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the sample size by subgroup for each regression-adjusted impact estimates of Arkansas PROMISE reported in Appendix Table J.7.a. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

CMS = Centers for Medicare & Medicaid Services; GED = General Educational Development; N = sample size; RA = random assignment; SSA = Social Security Administration.

| | Non-Hisp | oanic White | Non-Hispanic Black | | Hispa | anic |
|---|----------------------|--------------------|----------------------|--------------------|--------------------|----------------------|
| Outcome | Treatment group N | Control group N | Treatment group N | Control group N | Control group N | Treatment group N |
| Youth enrolled in an educational or training program | 293 | 301 | 80 | 84 | 294 | 288 |
| Youth has a GED, high school diploma, or certificate of completion | 301 | 307 | 81 | 84 | 300 | 295 |
| Youth employed in a paid job in the past year | 304 | 308 | 81 | 84 | 302 | 296 |
| Youth earnings in the past year (\$) | 304 | 308 | 81 | 84 | 302 | 296 |
| Youth earnings during the five calendar years after RA (\$) | 366 | 374 | 113 | 113 | 359 | 365 |
| Youth self-determination score (scale: 0 to 100) | 204 | 210 | 57 | 53 | 189 | 182 |
| Youth expects to be financially independent at age 25 | 211 | 213 | 55 | 52 | 195 | 186 |
| Youth received SSA payments in Year 5 after RA | 366 | 374 | 113 | 113 | 359 | 365 |
| Youth total SSA payments in Year 5 after RA (\$) | 366 | 374 | 113 | 113 | 359 | 365 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 366 | 374 | 113 | 113 | 359 | 365 |
| Youth covered by any health insurance | 298 | 304 | 79 | 83 | 289 | 287 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 366 | 374 | 113 | 113 | 359 | 365 |
| Youth income in the past year (\$) | 304 | 308 | 81 | 84 | 302 | 296 |
| Youth total income during the five calendar years after RA (\$) | 366 | 374 | 113 | 113 | 359 | 365 |
| Either parent worked for pay in the past year | 294 | 299 | 78 | 82 | 296 | 286 |
| Parents' earnings in the past year (\$) | 294 | 299 | 78 | 82 | 296 | 286 |
| Parents' earnings during the five calendar years after RA (\$) | 352 | 358 | 106 | 102 | 306 | 312 |
| Either parent received SSA payments in Year 5 after RA | 352 | 358 | 106 | 102 | 306 | 312 |

Appendix Table J.8.b. ASPIRE: Sample sizes for primary outcomes, by youth's race and ethnicity

| | Non-Hispanic White | | Non-Hispanic Black | | Hispanic | |
|---|----------------------|--------------------|----------------------|--------------------|--------------------|----------------------|
| Outcome | Treatment group N | Control group N | Treatment group N | Control group N | Control group N | Treatment group N |
| Parents' total SSA payments received in Year 5 after RA (\$) | 352 | 358 | 106 | 102 | 306 | 312 |
| Parents' total SSA payments during the five years after RA (\$) | 352 | 358 | 106 | 102 | 306 | 312 |
| Parents' income in the past year (\$) | 285 | 290 | 71 | 74 | 250 | 248 |
| Parents' income during the five calendar years after RA (\$) | 352 | 358 | 106 | 102 | 306 | 312 |
| Either parent is covered by health insurance | 292 | 295 | 78 | 82 | 296 | 286 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 352 | 358 | 106 | 102 | 306 | 312 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the sample size by subgroup for each regression-adjusted impact estimates of ASPIRE reported in Appendix Table J.7.b. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

CMS = Centers for Medicare & Medicaid Services; GED = General Educational Development; N = sample size; RA = random assignment; SSA = Social Security Administration.

| | Non-Hisp | anic White | Non-Hisp | oanic Black | Hispanic | |
|--|----------------------|--------------------|----------------------|--------------------|--------------------|----------------------|
| Outcome | Treatment group N | Control group N | Treatment group N | Control group N | Control group N | Treatment group N |
| Youth enrolled in an educational or training program | 51 | 35 | 111 | 112 | 467 | 442 |
| Youth has a GED, high school diploma, or certificate of completion | 52 | 34 | 112 | 114 | 471 | 451 |
| Youth employed in a paid job in the past year | 52 | 35 | 112 | 115 | 475 | 454 |
| Youth earnings in the past year (\$) | 52 | 35 | 112 | 115 | 475 | 454 |
| Youth earnings during the five calendar years after RA (\$) | 62 | 46 | 143 | 145 | 540 | 534 |
| Youth self-determination score (scale: 0 to 100) | 38 | 22 | 79 | 79 | 286 | 263 |
| Youth expects to be financially independent at age 25 | 38 | 22 | 78 | 81 | 285 | 268 |
| Youth received SSA payments in Year 5 after RA | 62 | 46 | 143 | 145 | 540 | 534 |
| Youth total SSA payments in Year 5 after RA (\$) | 62 | 46 | 143 | 145 | 540 | 534 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 62 | 46 | 143 | 145 | 540 | 534 |
| Youth covered by any health insurance | 48 | 34 | 111 | 111 | 458 | 452 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 62 | 46 | 143 | 145 | 540 | 534 |
| Youth income in the past year (\$) | 52 | 35 | 112 | 115 | 475 | 454 |
| Youth total income during the five calendar years after RA (\$) | 62 | 46 | 143 | 145 | 540 | 534 |
| Either parent worked for pay in the past year | 52 | 33 | 116 | 118 | 477 | 458 |
| Parents' earnings in the past year (\$) | 52 | 33 | 116 | 118 | 478 | 459 |
| Parents' earnings during the five calendar years after RA (\$) | 59 | 44 | 141 | 141 | 417 | 422 |
| Either parent received SSA payments in Year 5 after RA | 59 | 44 | 141 | 141 | 417 | 422 |
| Parents' total SSA payments received in Year 5 after RA (\$) | 59 | 44 | 141 | 141 | 417 | 422 |

Appendix Table J.8.c. CaPROMISE: Sample sizes for primary outcomes, by youth's race and ethnicity

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| | Non-Hispanic White | | Non-Hispanic Black | | Hispanic | |
|---|----------------------|--------------------|----------------------|--------------------|--------------------|----------------------|
| Outcome | Treatment group N | Control group N | Treatment group N | Control group N | Control group N | Treatment group N |
| Parents' total SSA payments during the five years after RA (\$) | 59 | 44 | 141 | 141 | 417 | 422 |
| Parents' income in the past year (\$) | 50 | 31 | 115 | 115 | 365 | 365 |
| Parents' income during the five calendar years after RA (\$) | 59 | 44 | 141 | 141 | 417 | 422 |
| Either parent is covered by health insurance | 51 | 33 | 115 | 118 | 470 | 460 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 59 | 44 | 141 | 141 | 417 | 422 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the sample size by subgroup for each regression-adjusted impact estimates of CaPROMISE reported in Appendix Table J.7.c. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse and sample design.

CMS = Centers for Medicare & Medicaid Services; GED = General Educational Development; N = sample size; RA = random assignment; SSA = Social Security Administration.

| Appendix Table J.8.d. MD PROMISE: S | ample sizes for primary outcom | nes, by youth's race and ethnicity |
|-------------------------------------|--------------------------------|------------------------------------|
| | | |

| | Non-Hisp | oanic White | Non-Hispanic Black | | Hispanic | |
|---|----------------------|--------------------|----------------------|--------------------|--------------------|----------------------|
| Outcome | Treatment group N | Control group N | Treatment group N | Control group N | Control group N | Treatment group N |
| Youth enrolled in an educational or training program | 112 | 108 | 373 | 401 | 56 | 46 |
| Youth has a GED, high school diploma, or certificate of completion | 115 | 114 | 381 | 408 | 57 | 48 |
| Youth employed in a paid job in the past year | 116 | 114 | 382 | 409 | 58 | 49 |
| Youth earnings in the past year (\$) | 116 | 114 | 382 | 409 | 58 | 49 |
| Youth earnings during the five calendar years after RA (\$) | 142 | 139 | 452 | 463 | 74 | 55 |
| Youth self-determination score (scale: 0 to 100) | 71 | 59 | 259 | 275 | 34 | 33 |
| Youth expects to be financially independent at age 25 | 68 | 64 | 262 | 273 | 36 | 35 |
| Youth received SSA payments in Year 5 after RA | 142 | 139 | 452 | 463 | 74 | 55 |
| Youth total SSA payments in Year 5 after RA (\$) | 142 | 139 | 452 | 463 | 74 | 55 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 142 | 139 | 452 | 463 | 74 | 55 |
| Youth covered by any health insurance | 115 | 112 | 367 | 388 | 55 | 49 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 142 | 139 | 452 | 463 | 74 | 55 |
| Youth income in the past year (\$) | 116 | 114 | 382 | 409 | 58 | 49 |
| Youth total income during the five calendar years after RA (\$) | 142 | 139 | 452 | 463 | 74 | 55 |
| Either parent worked for pay in the past year | 108 | 106 | 389 | 403 | 58 | 52 |
| Parents' earnings in the past year (\$) | 108 | 107 | 389 | 403 | 58 | 52 |
| Parents' earnings during the five calendar years after RA (\$) | 132 | 127 | 429 | 439 | 68 | 51 |
| Either parent received SSA payments in Year 5 after RA | 132 | 127 | 429 | 439 | 68 | 51 |

| | Non-Hisp | anic White | Non-Hispanic Black | | Hispanic | |
|---|----------------------|--------------------|----------------------|--------------------|--------------------|----------------------|
| Outcome | Treatment group N | Control group N | Treatment group N | Control group N | Control group N | Treatment group N |
| Parents' total SSA payments received in Year 5 after RA (\$) | 132 | 127 | 429 | 439 | 68 | 51 |
| Parents' total SSA payments during the five years after RA (\$) | 132 | 127 | 429 | 439 | 68 | 51 |
| Parents' income in the past year (\$) | 100 | 97 | 372 | 380 | 55 | 48 |
| Parents' income during the five calendar years after RA (\$) | 132 | 127 | 429 | 439 | 68 | 51 |
| Either parent is covered by health insurance | 107 | 106 | 387 | 403 | 58 | 51 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 132 | 127 | 429 | 439 | 68 | 51 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the sample size by subgroup for each regression-adjusted impact estimates of MD PROMISE reported in Appendix Table J.7.d. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

CMS = Centers for Medicare & Medicaid Services; GED = General Educational Development; N = sample size; RA = random assignment; SSA = Social Security Administration.

| Appendix Table J.8.e. NYS PROMISE: Sample sizes for primary outcomes, by youth's race and ethnicity |
|---|
|---|

| | Non-Hispanic White | | Non-Hisp | oanic Black | Hispanic | |
|---|----------------------|--------------------|----------------------|--------------------|--------------------|----------------------|
| Outcome | Treatment group N | Control group N | Treatment group N | Control group N | Control group N | Treatment group N |
| Youth enrolled in an educational or training program | 56 | 56 | 288 | 301 | 307 | 254 |
| Youth has a GED, high school diploma, or certificate of completion | 58 | 57 | 289 | 302 | 310 | 258 |
| Youth employed in a paid job in the past year | 59 | 57 | 294 | 306 | 318 | 263 |
| Youth earnings in the past year (\$) | 59 | 57 | 294 | 306 | 318 | 263 |
| Youth earnings during the five calendar years after RA (\$) | 64 | 64 | 328 | 355 | 359 | 307 |
| Youth self-determination score (scale: 0 to 100) | 34 | 31 | 196 | 208 | 170 | 140 |
| Youth expects to be financially independent at age 25 | 38 | 31 | 194 | 210 | 172 | 143 |
| Youth received SSA payments in Year 5 after RA | 64 | 64 | 328 | 355 | 359 | 307 |
| Youth total SSA payments in Year 5 after RA (\$) | 64 | 64 | 328 | 355 | 359 | 307 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 64 | 64 | 328 | 355 | 359 | 307 |
| Youth covered by any health insurance | 58 | 57 | 287 | 294 | 308 | 260 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 64 | 64 | 328 | 355 | 359 | 307 |
| Youth income in the past year (\$) | 59 | 57 | 294 | 306 | 318 | 263 |
| Youth total income during the five calendar years after RA (\$) | 64 | 64 | 328 | 355 | 359 | 307 |
| Either parent worked for pay in the past year | 59 | 56 | 287 | 299 | 314 | 258 |
| Parents' earnings in the past year (\$) | 59 | 56 | 287 | 299 | 314 | 258 |
| Parents' earnings during the five calendar years after RA (\$) | 64 | 63 | 320 | 343 | 337 | 261 |
| Either parent received SSA payments in Year 5 after RA | 64 | 63 | 320 | 343 | 337 | 261 |

| | Non-Hispanic White | | Non-Hispanic Black | | Hispanic | |
|---|----------------------|--------------------|----------------------|--------------------|--------------------|----------------------|
| Outcome | Treatment group N | Control group N | Treatment group N | Control group N | Control group N | Treatment group N |
| Parents' total SSA payments received in Year 5 after RA (\$) | 64 | 63 | 320 | 343 | 337 | 261 |
| Parents' total SSA payments during the five years after RA (\$) | 64 | 63 | 320 | 343 | 337 | 261 |
| Parents' income in the past year (\$) | 59 | 55 | 279 | 289 | 295 | 215 |
| Parents' income during the five calendar years after RA (\$) | 64 | 63 | 320 | 343 | 337 | 261 |
| Either parent is covered by health insurance | 59 | 56 | 287 | 298 | 309 | 258 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 64 | 63 | 320 | 343 | 337 | 261 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the sample size by subgroup for each regression-adjusted impact estimates of NYS PROMISE reported in Appendix Table J.7.e. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

CMS = Centers for Medicare & Medicaid Services; GED = General Educational Development; N = sample size; RA = random assignment; SSA = Social Security Administration.

| Appendix Table J.8.f. WI PROMISE: Sample sizes for primary outcomes, by youth's race and ethnicity | Appendix Table J.8.f. WI PROMISE: \$ | Sample sizes for primar | y outcomes, by youth's | race and ethnicity |
|--|--------------------------------------|-------------------------|------------------------|--------------------|
|--|--------------------------------------|-------------------------|------------------------|--------------------|

| | Non-Hispanic White | | Non-Hispanic Black | | Hispanic | |
|---|--------------------|---------------|-------------------------|-----|----------|---------|
| | Treatment | Control group | Treatment Control group | | | |
| Outcome | group N | N N | group N | N N | N N | group N |
| Youth enrolled in an educational or training program | 212 | 198 | 259 | 263 | 96 | 79 |
| Youth has a GED, high school diploma, or certificate of completion | 221 | 207 | 263 | 268 | 99 | 82 |
| Youth employed in a paid job in the past year | 222 | 208 | 267 | 273 | 99 | 82 |
| Youth earnings in the past year (\$) | 222 | 208 | 267 | 273 | 99 | 82 |
| Youth earnings during the five calendar years after RA (\$) | 245 | 225 | 301 | 306 | 114 | 96 |
| Youth self-determination score (scale: 0 to 100) | 152 | 143 | 182 | 186 | 68 | 51 |
| Youth expects to be financially independent at age 25 | 154 | 147 | 185 | 191 | 69 | 55 |
| Youth received SSA payments in Year 5 after RA | 245 | 225 | 301 | 306 | 114 | 96 |
| Youth total SSA payments in Year 5 after RA (\$) | 245 | 225 | 301 | 306 | 114 | 96 |
| Youth total SSA payments during Years 1–5 after RA (\$) | 245 | 225 | 301 | 306 | 114 | 96 |
| Youth covered by any health insurance | 215 | 208 | 247 | 262 | 96 | 80 |
| Youth average monthly Medicaid and Medicare expenditures in Years 1–5 after RA (\$) | 245 | 225 | 301 | 306 | 114 | 96 |
| Youth income in the past year (\$) | 222 | 208 | 267 | 273 | 99 | 82 |
| Youth total income during the five calendar years after RA (\$) | 245 | 225 | 301 | 306 | 114 | 96 |
| Either parent worked for pay in the past year | 219 | 200 | 261 | 272 | 97 | 79 |
| Parents' earnings in the past year (\$) | 219 | 200 | 262 | 273 | 97 | 79 |
| Parents' earnings during the five calendar years after RA (\$) | 243 | 225 | 295 | 300 | 94 | 81 |
| Either parent received SSA payments in Year 5 after RA | 243 | 225 | 295 | 300 | 94 | 81 |

| | Non-Hispanic White | | Non-Hispanic Black | | Hispanic | |
|---|----------------------|--------------------|----------------------|--------------------|--------------------|----------------------|
| Outcome | Treatment group N | Control group N | Treatment group N | Control group N | Control group N | Treatment group N |
| Parents' total SSA payments received in Year 5 after RA (\$) | 243 | 225 | 295 | 300 | 94 | 81 |
| Parents' total SSA payments during the five years after RA (\$) | 243 | 225 | 295 | 300 | 94 | 81 |
| Parents' income in the past year (\$) | 217 | 200 | 256 | 268 | 80 | 68 |
| Parents' income during the five calendar years after RA (\$) | 243 | 225 | 295 | 300 | 94 | 81 |
| Either parent is covered by health insurance | 219 | 199 | 262 | 270 | 96 | 77 |
| Parents' average monthly Medicaid and Medicare expenditures in Years 1-5 after RA (\$) | 243 | 225 | 295 | 300 | 94 | 81 |

Source: PROMISE five-year surveys, CMS administrative records, and SSA administrative records.

Note: This table shows the sample size by subgroup for each regression-adjusted impact estimates of WI PROMISE reported in Appendix Table J.7.f. For outcomes derived from survey data, we weighted the statistics to adjust for survey nonresponse.

CMS = Centers for Medicare & Medicaid Services; GED = General Educational Development; N = sample size; RA = random assignment; SSA = Social Security Administration.

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Appendix K. Outcomes of Methods to Improve Survey Response

This appendix presents the results of three descriptive studies we conducted to identify factors associated with responding to the PROMISE five-year surveys and assess the effectiveness of methods used to maximize survey response. Findings from these studies might inform future surveys of similar populations.

We conducted three analyses:

- 1. Using regression modeling, we identified **correlates of survey response** among PROMISE sample members and assessed the effectiveness of selected survey methods.
- 2. We examined the pattern of survey responses surrounding the **dates we sent text messages** and the **cutoff dates for incentive bonuses** to assess the effectiveness of text messages and bonuses in eliciting survey responses.
- 3. We examined whether the characteristics and outcomes of respondents who completed an abbreviated self-administered questionnaire (SAQ) differed from those who completed the full survey. We sent the SAQ to hard-to-reach respondents in an effort to collect key survey data from as many sample members as possible. The analysis provides evidence on the value of the SAQ and the potential magnitude and direction of survey nonresponse bias for outcome measures captured in the full survey.

To conduct these analyses, we used data from the PROMISE 18-month and five-year surveys, SSA, and the PROMISE RA system (see Appendix A for descriptions of these data). We also used data from the PROMISE survey management system (SMS) that Mathematica developed and maintained to administer the PROMISE surveys. The SMS data include information about sample members' PROMISE program, RA date, treatment status, survey cohort, outreach communication dates, permission to send text message reminders, survey completion statuses, survey completion dates, and the mode of survey completion. All analyses were descriptive, unweighted, and based on the samples of and parents eligible to complete the five-year survey that we pooled across the six PROMISE programs (11,345 youth and 11,084 parents).

In the sections that follow, we first provide some background on how we implemented the five-year survey. We then describe the methods and findings of the three survey implementation studies.

A. Background on the five-year survey implementation

Mathematica fielded youth and parent five-year surveys from May 2019 through August 2021. To simplify the survey management process, we aggregated the youth into 25 cohorts that corresponded to their month of enrollment. In each month from May 2019 through March 2021, we released a cohort to be surveyed.²⁵ We completed almost all interviews within 24 weeks (five and a half months) from the cohort release date; we completed a small number of interviews slightly later to give more youth and parents a chance to respond. Appendix Table A.1 shows the survey fielding start and end dates for each cohort and the PROMISE programs represented in each cohort.

²⁵ We launched two cohorts in May 2019, corresponding to youth who enrolled in PROMISE in April and May 2014, because few youth enrolled in these months. We also launched two cohorts in March 2021, corresponding to youth who enrolled in March and April 2016, to complete data collection more quickly.

We administered the surveys in English and Spanish using three modes: on the telephone by an interviewer, in person by an interviewer, and on paper via self-administration. The interviewer-administered interviews used the same parent and youth instruments and were deployed via computer-assisted interviewing technology. The paper SAQs used abbreviated versions of the instruments. Matulewicz et al. (2018) provides more detail about the survey design and implementation.

The following subsections describe the five methods we used to maximize survey response that we assessed in the survey implementation analyses.

1. In-person locating and interviews

In-person locating and interviewing were intended to help the survey team obtain complete survey responses from sample members who were difficult to reach by telephone or had a disability that prevented them from responding by telephone. When conducting in-person locating, staff gave respondents a cell phone with which to call Mathematica's phone center and complete an interview on the telephone. When conducting in-person interviewing, staff read the interview questions off a tablet and respondents completed the interview in person. We halted in-person locating and interviewing in March 2020 because of the COVID-19 pandemic and resumed them in June 2021. We completed in-person locating and interviewing for Cohorts 1–8 before the suspension, so these cohorts had full access to these efforts for their entire duration.²⁶ Cohorts 10–22 never had access to in-person locating and interviewing during periods when the suspension was and was not in place and thus, had partial access to these efforts.

2. SAQs

The youth and parent SAQs contained a subset of critical items from the full-length instruments and were designed to take 10 minutes to complete. We mailed the SAQs to nonrespondents for whom we had a viable address. We initially mailed the SAQs to nonrespondents in Week 21 of each cohort's 24-week field period. Starting with Cohort 11 for youth and Cohort 16 for parents, we mailed SAQs to nonrespondents a second time in Week 24. We provided postage-paid return envelopes for sample members to return the completed SAQs. Youth and parents received the same \$30 incentive for completing an SAQ as they did for a full-length interview. We expected the SAQs to enable us to complete more interviews by increasing responses among sample members who did not have the time to complete a full-length interview, preferred to complete a paper or self-administered interview, or lived in rural or frontier areas where in-person interviewing was cost prohibitive (during the periods when in-person interviewing was taking place).

3. Differential incentives

We offered three incentive amounts to sample members who completed the five-year surveys:

1. \$50 each for youth and parents who previously had not completed the 18-month survey and called in to complete a five-year interview within 12 days of their cohort's release date

²⁶ Cohort 8 experienced a slightly shorter period of in-person locating and interviewing than Cohorts 1–7 because the suspension began two weeks before the planned end of in-person efforts for that cohort.

²⁷ Cohort 10 experienced one week of in-person locating and interviewing before the suspension began.

- 2. \$40 each for youth and parents who previously had completed the 18-month survey and called in to complete a five-year interview within 12 days of their cohort's release date
- **3.** \$30 each for youth and parents who completed the survey after the first 12 days of their cohort's release date

We offered the bonuses with the expectation that the higher incentive would encourage more sample members to complete interviews sooner, with a larger bonus for those who had been harder to reach for the 18-month survey. All outreach to sample members occurring before the bonus period expired informed them of its limited-time availability.

4. Text messages

We sent text messages to sample members for whom we had a cell phone number and who had opted to receive them. In total, about 99 percent of the youth sample and 92 percent of the parent sample met the criteria to receive text messages. We sent text messages to nonresponding youth and parents at four points over the 24-week period in which each cohort was active (during Weeks 2, 5, 14, and 19). Youth and parents received the same text messages, with the wording varying slightly at each point (Appendix Table K.1). The text messages invited sample members to call a toll-free telephone number to complete an interview and receive an incentive. Because of privacy concerns, the text messages were not personalized with names and did not refer to PROMISE. We sent the text messages in English or Spanish, depending on the language we had on record for the youth and parents.

| Week of text message | Text message |
|------------------------------------|--|
| Week 2 – bonus incentive period | Enrollees eligible for \$10 bonus: "Earn \$40 if you complete a Social Security Administration survey by [DATE] (\$30 after [DATE]). Call 844-306-5011 to begin. Text charges can be reimbursed." Enrollees eligible for \$20 bonus: "Earn \$50 for completing a Social Security Administration survey by [DATE] (\$30 after [DATE]). Call 844-306-5011 to begin. Text charges can be reimbursed." |
| Weeks 5 and 14 | "Earn \$30 for completing a Social Security Administration survey. Your input matters! Call 844- 306-5011 to begin. Text charges can be reimbursed." |
| Week 19 | "Earn \$30 for completing a Social Security Administration survey. Survey ends soon. Call 844- 306-5011 to begin. Text charges can be reimbursed." |

Appendix Table K.1. Text message reminders

5. Calls from regional area codes

For Cohorts 1–19, we called sample members from a telephone number with the Princeton, New Jersey area code of Mathematica's call center. For Cohorts 20–25, we obtained telephone numbers with area codes associated with the PROMISE states and called sample members from the area code associated with the state where they lived when they enrolled in PROMISE.²⁸ We decided to use regional rather than local area codes to contain costs for this untested approach. We hypothesized that sample members would be more likely to answer calls from a familiar area code, thus contributing to more responses.

²⁸ We obtained two area codes for California: one for Northern California and one for Southern California.

B. Correlates of survey response

This study explored the factors associated with responding to the five-year surveys. Specifically, we examined the correlation between completing the five-year surveys and selected survey methods, respondent characteristics, age-18 redetermination status, and 18-month outcome measures related to service use and employment. Including all candidate predictors of survey response in a regression model allowed us to adjust estimated associations between individual factors and survey response for potentially confounding factors. For example, we were especially interested in the relationships between survey methods and response, but several of the survey methods varied by survey cohort. The regression models allowed us to account for differences in the demographic composition of the cohorts in the estimates.

1. Data and methods

We used data from the PROMISE SMS and RA system, SSA, and the 18-month surveys to estimate the correlation between survey response and a set of covariates. Separately for youth and parents, we developed ordinary linear regression models that estimated a binary measure of five-year survey completion. The models included a core set of covariates and selected other covariates to assess their relationships with survey response. Coefficients from all linear models estimated the change in the probability of completing the five-year survey in percentage points associated with a one-unit change in each covariate.

We grouped the covariates into categories and included each group additively in separate models. The categories of variables were as follows:

- Core covariates. We included indicators for treatment status and PROMISE program in all models.
- Survey methods. We included variables reflecting survey methods in the models to assess their correlation with the likelihood of response after adjusting for the core covariates and other variables. These covariates included the following:
 - An indicator for receiving telephone calls from a regional area code. We compared whether sample members who received telephone calls from a telephone number with a Princeton, New Jersey area code (Cohorts 1–19; 7,628 youth and 7,451 parents) were less likely to complete interviews than those who received calls from telephone numbers with area codes associated with their home states (Cohorts 20–25; 3,717 youth and 3,633 parents).
 - A categorical variable that grouped the sample into cohorts that experienced pre-COVID and post-COVID survey modalities. We compared whether sample members who had the opportunity to receive in-person locating and interviewing before the onset of the COVID-19 pandemic (Cohorts 1–8; 1,536 youth and 1,502 parents) were more likely to complete interviews than those who did not have the opportunity to receive in-person locating and interviewing after the onset of the pandemic (Cohorts 10–22; 7,568 youth and 7,397 parents). Cohorts 9 and 23–25 (2,241 youth and 2,185 parents) experienced both modalities.
- **Demographic characteristics.** We included a small set of demographic characteristics measured at enrollment via SSA administrative data²⁹ to identify whether sample members with those characteristics were more or less likely to complete interviews. We also included them in models to estimate the associations between other factors and survey completion after controlling for these

²⁹ We measured race and ethnicity via the 18-month surveys rather than at baseline.

characteristics. The covariates included variables reflecting sex, age, preferred written language, race, ethnicity, and primary impairment.

Outcome measures. We included a limited set of outcome measures that we hypothesized to be • correlated with survey response. We included the SSI age-18 redetermination status to determine whether a positive redetermination decision was positively correlated with survey response. We also used several survey outcomes measured at 18 months after RA that we hypothesized to be correlated with survey response: indicators for completion of the 18-month surveys, whether the youth used transition services in the 18 months after RA, whether the youth was employed in a paid job in the 18 months after RA, and whether the parent was employed in a paid job in the 18 months after RA. These survey outcomes are missing for enrollees who did not complete the 18-month survey; we imputed these measures using the mean of the observed values. We expected a positive correlation between completion of the 18-month and five-year surveys because the same factors that made youth and parents willing to complete one survey would likely make them willing to complete another. We also expected a positive correlation with the receipt of transition services because youth and parents who took the initiative to seek out services might be more interested in the survey topics and more likely to take action to complete the surveys. The direction of the correlation between the employment measures and survey completion was harder to predict. On the one hand, youth and parents with employment experience might resemble those who received transition services and tend to complete the surveys at higher rates due to unobservable characteristics such as interest or initiative. On the other hand, if youth and parents employed at 18 months after RA were also employed at five years after RA, their employment might have crowded out time for survey participation.

2. Results

Appendix Tables K.2 and K.3 present the estimated coefficients from four models predicting the likelihood of completing the five-year youth and parent surveys, respectively. Model 1 included only the core covariates; subsequent models included covariates from the other three groups additively. Model 4 included all four groups of covariates.

The strongest predictor of five-year survey completion was 18-month survey completion. In Model 4, youth and parents who completed the 18-month surveys were more than 20 percentage points more likely to complete the five-year surveys than their counterparts who did not complete the 18-month surveys. Youth and parents in Arkansas PROMISE and youth in CaPROMISE were less likely than their counterparts in other programs to complete the five-year surveys. Demographic characteristics had relatively small associations with survey response. Youth who were age 16 at RA were less likely to respond than youth who were ages 14 or 15. Parent responses showed the same pattern by youth age. Male youth were less likely to respond than female youth. Other factors positively associated with youth and parent survey response included treatment group membership and youth paid employment in the 18 months after RA. Losing SSI benefits because of an age-18 redetermination, however, was associated with a decline in survey responses among youth and parents. Model 4 showed a small positive relationship between receiving calls from a telephone number with a regional area code and survey response for youth and parents, but the other models showed no relationship. We found no association between membership in the post-COVID survey cohorts and completing the five-year surveys except in Model 3 for parents, where there was a slightly negative association.

3. Implications of the findings

The results indicate a link between survey completion and experiences with SSA and PROMISE among both youth and parents. As noted above, losing benefits at the youth's age-18 redetermination was associated with a decline in survey response among youth and parents. The termination decision or the lack of ongoing attachment to SSA programs after benefit termination might have reduced youth's and parents' motivation to complete interviews for a study sponsored by SSA and reduced the quality of the information we had to contact them for the survey. Being a member of the treatment group, on the other hand, had a modest positive association with survey completion for both youth and parents. This finding is not surprising, given that treatment group families had a stronger connection with PROMISE than control group families, which might have increased their willingness to respond to a PROMISE survey.

The small positive correlation between receipt of calls from a telephone number with a regional area code and the likelihood of responding to the five-year surveys suggests that the use of such area codes is a promising method to increase survey response, especially given that it is relatively inexpensive to implement. Survey sample members increasingly screen telephone calls (Brick and Williams 2013), and familiar area codes may help circumvent this screening. Because we used regional rather than local area codes, the small positive coefficients in our results may represent a lower bound for estimates of the association of targeted area codes with survey response. To develop a rough estimate of the cost-effectiveness of adopting regional area codes, we compared the cost of obtaining the area codes to the savings from making fewer telephone calls per completed interview. Mathematica paid \$20,781 for the regional area codes. This cost included a one-time start-up fee and a monthly recurring fee. The area code provider set these fees based on the number of area codes so they did not vary based on the number of calls made. Based on a comparison of the number of telephone calls between survey cohorts 17-19 (who received calls from the area code of the SOC) and cohorts 20-22 (who received calls from regional area codes), we estimate that the cohorts who received calls from regional area codes required approximately one fewer phone call per completed interview. A rough estimate of the cost of each telephone call excluding the fee for the regional area code is \$4.95, based on charges for telephone interviewing between June 2020 and June 2021. While we cannot definitively attribute the observed reduction in telephone calls required for completed interviews to the regional area codes, our findings suggest that they might reduce interviewing costs. Because the fee for the regional area codes was fixed, the cost or savings associated with them depends on the number of completed surveys. In the case of the PROMISE five-year survey, the regional area codes would be cost-neutral after 4,199 completed interviews.

The lack of a consistent association for youth and parents between membership in the post-COVID survey cohorts and completing the five-year surveys suggests that the absence of in-person locating and interviewing did not affect the likelihood of responding to the surveys. In-person locating and interviewing are expensive, so it would be beneficial if surveys could abandon these efforts without sacrificing response rates. Abandoning in-person interviewing could also help surveys reduce mode effects, the phenomenon in which different survey modes produce different responses. Nonetheless, two significant caveats apply to the findings. First, even if in-person locating and interviewing do not affect response, they might change the composition of responders. We did not directly assess whether the characteristics of PROMISE five-year survey respondents changed before and after the suspension of in-person locating and interviewing; however, we did adjust for program indicators and a set of basic demographic characteristics in our regression models. We found that the coefficient on the post-COVID

survey cohort indicator did not change much across the four models, suggesting that the relationship between the likelihood of responding to the survey and suspending in-person locating and interviewing was not mediated by individual characteristics; therefore, big changes in the demographic composition of survey respondents was unlikely. Second, the results may not be generalizable to a non-pandemic period. Aspects of the COVID-19 pandemic unrelated to the suspension of in-person locating and interviewing may have influenced survey response. For example, many states issued stay-at-home orders in response to the pandemic (Moreland et al. 2020), meaning that people were more likely to be at home and available to complete interviews. People were also less likely to move or be evicted during the pandemic (U.S. Census Bureau 2021), which made them easier to locate for the surveys. Economic disruptions caused by the pandemic may also have increased the appeal of the survey incentive. Absent these factors, we might have found a negative relationship between suspending in-person locating and interviewing and survey response.

| | (Model 1) Coefficient | (Model 2) Coefficient | (Model 3) Coefficient | (Model 4) Coefficient |
|------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Covariate | (SE) | (SE) | (SE) | (SE) |
| Core covariates | | | | |
| Treatment group member | 0.02* | 0.02* | 0.01 | 0.01 |
| | (0.01) | (0.01) | (0.01) | (0.01) |
| PROMISE program | | | | |
| ASPIRE (omitted) | | | | |
| Arkansas PROMISE | -0.03* | -0.03* | -0.03* | -0.02 |
| | (0.01) | (0.01) | (0.01) | (0.01) |
| CaPROMISE | -0.03* | -0.02 | -0.04** | -0.04** |
| | (0.01) | (0.01) | (0.01) | (0.01) |
| MD PROMISE | -0.03* | -0.02 | -0.02 | -0.02 |
| | (0.01) | (0.01) | (0.01) | (0.01) |
| NYS PROMISE | 0.01 | 0.01 | -0.01 | -0.01 |
| | (0.01) | (0.01) | (0.01) | (0.01) |
| WI PROMISE | 0.01 | 0.01 | 0.01 | 0.02 |
| | (0.01) | (0.01) | (0.01) | (0.01) |
| Survey methods ^a | | | | |
| Calls came from regional area code | | 0.01 | 0.01 | 0.02* |
| | | (0.01) | (0.01) | (0.01) |
| Eligibility for survey modality | | | | |
| Pre-COVID-19 only (omitted) | | | | |
| Post-COVID-19 only | | -0.01 | -0.01 | -0.01 |
| | | (0.01) | (0.01) | (0.01) |
| Pre- and post-COVID-19 | | -0.00 | -0.00 | 0.00 |
| | | (0.01) | (0.01) | (0.01) |

Appendix Table K.2. Results from regression models predicting completion of the five-year youth survey

| Covariate | (Model 1) Coefficient (SE) | (Model 2) Coefficient (SE) | (Model 3) Coefficient (SE) | (Model 4) Coefficient (SE) |
|--|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Youth characteristics | (0-) | (0=) | (02) | (02) |
| Youth is female | | | 0.02** | 0.02* |
| | | | (0.01) | (0.01) |
| Youth age at RA | | | | |
| 14 (omitted) | | | | |
| 15 | | | -0.01 | -0.01 |
| | | | (0.01) | (0.01) |
| 16 | | | -0.03*** | -0.04*** |
| | | | (0.01) | (0.01) |
| Youth prefers English for written language | | | -0.02 | -0.02 |
| | | | (0.01) | (0.01) |
| Youth race and ethnicity | | | | |
| Non-Hispanic White (omitted) | | | | |
| Non-Hispanic Black | | | -0.01 | 0.00 |
| | | | (0.01) | (0.01) |
| Hispanic | | | -0.01 | -0.00 |
| | | | (0.01) | (0.01) |
| Non-Hispanic American Indian | | | -0.04 | -0.03 |
| | | | (0.03) | (0.03) |
| Non-Hispanic other or mixed race | | | 0.01 | 0.01 |
| | | | (0.01) | (0.01) |
| Missing | | | -0.24*** | -0.02 |
| | | | (0.01) | (0.02) |
| Youth primary impairment | | | | |
| Intellectual or developmental disability (omitted) | | | | |
| Speech, hearing, or visual impairment | | | 0.03 | 0.02 |
| | | | (0.02) | (0.02) |
| Physical disability | | | 0.02 | 0.02 |
| | | | (0.01) | (0.01) |

| Covariate | (Model 1) Coefficient (SE) | (Model 2) Coefficient (SE) | (Model 3) Coefficient (SE) | (Model 4) Coefficient (SE) |
|---|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Other mental impairment | | | -0.03*** | -0.01 |
| | | | (0.01) | (0.01) |
| Other or unknown disability | | | -0.01 | -0.00 |
| | | | (0.02) | (0.02) |
| Outcome measures | | | | |
| SSI age-18 redetermination outcome | | | | |
| Final decision: benefits ceased | | | | -0.08*** |
| | | | | (0.01) |
| Youth completed 18-month survey | | | | 0.23*** |
| | | | | (0.03) |
| Youth used key transition services in 18 months after RA ^b | | | | 0.01 |
| | | | | (0.01) |
| Youth had paid employment in 18 months after RA | | | | 0.02* |
| | | | | (0.01) |
| Parent had paid employment in 18 months after RA | | | | 0.00 |
| | | | | (0.01) |
| Constant | 0.83*** | 0.83*** | 0.93*** | 0.71*** |
| | (0.01) | (0.01) | (0.02) | (0.03) |
| Number of youth | 11,345 | 11,345 | 11,345 | 11,345 |

Source: PROMISE survey management system, SSA administrative records, PROMISE RA system, and 18-month surveys.

Note: This table presents the results of four regression models, using an expanding set of covariates to estimate the probability of completing the five-year youth survey. Model 1 included core covariates; Model 2 included core covariates and survey methods; Model 3 included core covariates, survey methods, and youth characteristics; and Model 4 included core covariates, survey methods, youth characteristics, and outcome measures. The sample included all youth eligible to complete the PROMISE five-year youth survey and for whom age-18 redetermination status was observable in SSA data. Estimates were based on unweighted ordinary least squares models with a binary outcome that equals 1 if an enrollee complete the five-year survey. We imputed outcomes measured in the 18-month survey for enrollees who were eligible for the five-year survey but did not complete the 18-month survey, using the mean of the observed values of the measures. Coefficients estimate the change in the probability of completing the five-year survey in percentage points associated with a one-unit change in each predictor variable. Standard errors are robust to heteroskedasticity.

*/**/*** Coefficient is significantly different from zero (p-value is less than .10/.05/.01) using a two-tailed t-test.

^a Telephone calls to Cohorts 1–19 came from a telephone number with a generic area code; telephone calls to Cohorts 20–25 came from a telephone number with the respondents' own area codes. Cohorts 1–8 experienced the pre-COVID-19 survey modality, which included telephone, in-person, and mailed surveys. Cohorts

10–22 experienced the post-COVID-19 survey modality, which included telephone and mailed surveys only. Cohorts 9 and 23–25 were eligible to complete the survey over a time frame that spanned both pre- and post-COVID survey modalities.

^b Key transition services were case management, employment-promoting services, benefits counseling, and financial education. We identified these services as key transition services because PROMISE programs were required to offer them.

ASPIRE = Achieving Success by Promoting Readiness for Education and Employment; CaPROMISE = California PROMISE; MD = Maryland; NYS = New York State; RA = random assignment; SE = standard error; SSA = Social Security Administration; SSI = Supplemental Security Income; WI = Wisconsin.

| Covariate | (Model 1) Coefficient (SE) | (Model 2) Coefficient (SE) | (Model 3) Coefficient (SE) | (Model 4) Coefficient (SE) |
|------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Core covariates | | | | |
| Treatment group member | 0.02** | 0.02** | 0.02* | 0.01 |
| | (0.01) | (0.01) | (0.01) | (0.01) |
| PROMISE program | | | | |
| ASPIRE (omitted) | | | | |
| Arkansas PROMISE | -0.03* | -0.03* | -0.04** | -0.03** |
| | (0.01) | (0.01) | (0.01) | (0.01) |
| CaPROMISE | -0.01 | -0.01 | -0.03* | -0.03* |
| | (0.01) | (0.01) | (0.01) | (0.01) |
| MD PROMISE | -0.02 | -0.02 | -0.02 | -0.03* |
| | (0.01) | (0.01) | (0.01) | (0.01) |
| NYS PROMISE | 0.02 | 0.02 | -0.00 | -0.01 |
| | (0.01) | (0.01) | (0.01) | (0.01) |
| WI PROMISE | 0.01 | 0.01 | 0.01 | 0.01 |
| | (0.01) | (0.01) | (0.01) | (0.01) |
| Survey methods ^a | | | | |
| Calls came from regional area code | | 0.01 | 0.01 | 0.02* |
| | | (0.01) | (0.01) | (0.01) |
| Eligibility for survey modality | | | | |
| Pre-COVID-19 only (omitted) | | | | |
| Post-COVID-19 only | | -0.02 | -0.02* | -0.02 |
| | | (0.01) | (0.01) | (0.01) |
| Pre- and post-COVID-19 | | 0.01 | -0.00 | 0.00 |
| | | (0.01) | (0.01) | (0.01) |

Appendix Table K.3. Results from regression models predicting completion of the five-year parent survey

| Covariate | (Model 1) Coefficient (SE) | (Model 2) Coefficient (SE) | (Model 3) Coefficient (SE) | (Model 4) Coefficient (SE) |
|--|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Youth characteristics | (/ | (, | (/ | (/ |
| Youth is female | | | 0.00 | 0.00 |
| | | | (0.01) | (0.01) |
| Youth age at RA | | | | |
| 14 (omitted) | | | | |
| 15 | | | -0.01 | -0.01 |
| | | | (0.01) | (0.01) |
| 16 | | | -0.03*** | -0.04*** |
| | | | (0.01) | (0.01) |
| Youth prefers English for written language | | | -0.03* | -0.02 |
| | | | (0.01) | (0.01) |
| Youth race and ethnicity | | | | |
| Non-Hispanic White (omitted) | | | | |
| Non-Hispanic Black | | | 0.01 | 0.02* |
| | | | (0.01) | (0.01) |
| Hispanic | | | -0.01 | -0.00 |
| | | | (0.01) | (0.01) |
| Non-Hispanic American Indian | | | -0.03 | -0.02 |
| | | | (0.03) | (0.03) |
| Non-Hispanic other or mixed race | | | 0.01 | 0.02 |
| | | | (0.01) | (0.01) |
| Missing | | | -0.25*** | -0.10*** |
| | | | (0.01) | (0.02) |
| Youth primary impairment | | | | |
| Intellectual or developmental disability (omitted) | | | | |
| Speech, hearing, or visual impairment | | | 0.01 | -0.00 |
| | | | (0.03) | (0.03) |
| Physical disability | | | 0.02* | 0.02* |
| | | | (0.01) | (0.01) |

| Covariate | (Model 1) Coefficient (SE) | (Model 2) Coefficient (SE) | (Model 3) Coefficient (SE) | (Model 4) Coefficient (SE) |
|---|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Other mental impairment | | | -0.02** | -0.01 |
| | | | (0.01) | (0.01) |
| Other or unknown disability | | | -0.00 | -0.00 |
| | | | (0.02) | (0.02) |
| Dutcome measures | | | | |
| SSI age-18 redetermination outcome | | | | |
| Final decision: benefits ceased | | | | -0.07*** |
| | | | | (0.01) |
| Parent completed 18-month survey | | | | 0.20*** |
| | | | | (0.02) |
| Youth used key transition services in 18 months after RA ^b | | | | 0.01 |
| | | | | (0.01) |
| Youth had paid employment in 18 months after RA | | | | 0.02** |
| | | | | (0.01) |
| Parent had paid employment in 18 months after RA | | | | 0.00 |
| | | | | (0.01) |
| Constant | 0.83*** | 0.83*** | 0.94*** | 0.75*** |
| | (0.01) | (0.01) | (0.02) | (0.03) |
| Number of youth | 11,084 | 11,084 | 11,084 | 11,084 |

Source: PROMISE survey management system, SSA administrative records, PROMISE RA system, and 18-month surveys.

Note: This table presents the results of four regression models using an expanding set of covariates to estimate the probability of completing the five-year parent survey. Model 1 included core covariates; Model 2 included core covariates and survey methods; Model 3 included core covariates, survey methods, and youth characteristics; and Model 4 included core covariates, survey methods, youth characteristics, and outcome measures. The sample included all youth eligible to complete the PROMISE five-year youth survey and for whom age-18 redetermination status was observable in SSA data. Estimates were based on unweighted ordinary least squares models with a binary outcome that equals 1 if an enrollee complete the five-year survey. We imputed outcomes measured in the 18-month survey for enrollees who were eligible for the five-year survey but did not complete the 18-month survey, using the mean of the observed values of the measures. Coefficients estimate the change in the probability of completing the five-year survey in percentage points associated with a one-unit change in each predictor variable. Standard errors are robust to heteroskedasticity.

*/**/*** Coefficient is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

^a Telephone calls to Cohorts 1–19 came from a telephone number with a generic area code; telephone calls to Cohorts 20–25 came from a telephone number with the respondents' own area codes. Cohorts 1–8 experienced the pre-COVID-19 survey modality, which included telephone, in-person, and mailed surveys. Cohorts

10–22 experienced the post-COVID-19 survey modality, which included telephone and mailed surveys only. Cohorts 9 and 23–25 were eligible to complete the survey over a time frame that spanned both pre- and post-COVID survey modalities.

^b Key transition services were case management, employment-promoting services, benefits counseling, and financial education. We identified these services as key transition services because PROMISE programs were required to offer them.

ASPIRE = Achieving Success by Promoting Readiness for Education and Employment; CaPROMISE = California PROMISE; MD = Maryland; NYS = New York State; RA = random assignment; SE = standard error; SSA = Social Security Administration; SSI = Supplemental Security Income; WI = Wisconsin.

C. Responses to text messages and incentive bonuses

This study examined when sample members completed the five-year surveys relative to the dates of text messages and to the bonus incentive cutoff date to look for evidence on the effectiveness of these methods in promoting survey response.

1. Data and methods

We used PROMISE SMS data to (1) compare the percentage of youth who completed an interview and the number of completed interviews during the 12 days of the incentive bonus period and the 12 days immediately after that period and (2) examine the number of completed interviews following each text message and. We examined responses separately for youth who completed the 18-month survey and were eligible for an \$10 bonus (for a total incentive of \$40) and youth who did not complete the 18-month survey and were eligible for a \$20 bonus (for a total incentive of \$50). We restricted our analysis of responses before and after the bonus incentive cutoff to youth because we used different outreach approaches for youth and parents around the time of the cutoff. We began calling parents immediately after the bonus period ended, whereas we refrained from calling youth because our strategy was to complete the parent interview first and then enlist the parent's help to reach the youth. It would not be possible to disentangle any observed change in parent responses after the bonus period, their experience provides a more accurate indication of the bonus period's effectiveness.

2. Results

a. Responses to bonus incentives

We found limited evidence that the early call-in incentive bonus led to more survey responses. Of the 2,981 youth who completed the five-year survey during the 12 days of the bonus period and the 12 days immediately after that period, 52 percent completed during the bonus period (Appendix Table K.4). The rates of early completion were the same for youth eligible for the \$40 and \$50 incentives. The two incentive groups showed different patterns of responses over time (Appendix Figure K.1). Responses among youth eligible for the \$40 incentive fell by 56 percent on the day after the bonus period ended, the largest one-day drop during the 24-day analysis period. Responses among youth eligible for the \$50 incentive declined by only 13 percent on the day after the bonus period ended, which is similar to the day-to-day variation observed at other times during the 24-day analysis period.

b. Responses to text messages

The findings indicate that text messages might have prompted survey responses over a short (oneor two-day) time horizon. Appendix Figures K.2 and K.3 show the number of youth (K.2) and parent (K.3) responses over four two-week periods, each beginning on the day we sent a text message. We sent text messages on different days of the week for different survey cohorts, therefore Day 1 could be any day of the week. There are clear spikes in survey completions on the day of the first and second text messages and progressively less pronounced spikes for the days of the third and fourth text messages. There are also small spikes in responses seven or eight days after sending each text message. These smaller spikes generally coincide with different outreach methods, such as telephone calls.

3. Implications of the findings

a. Responses to bonus incentives

Slightly more youth completed interviews during the 12 days of the bonus period than during the 12 succeeding days. Taken on its own, this finding does not necessarily indicate that youth who completed interviews early did so because of the bonus. They might have completed early regardless of the bonus, perhaps because they are more motivated or more organized than other youth. Nonetheless, the pattern of completes among the \$40 incentive group offers some evidence of the bonus's role. The number of completes fell sharply the day after the bonus expired. The availability of the bonus was the only characteristic that differentiated the last day of the bonus period and the next day, suggesting that the withdrawal of the bonus motivated the decreased survey participation. If the bonus successfully shifted the timing of interviews earlier among the \$40 incentive group, it likely reduced survey costs because we did not incur locating expenses for youth who called in during the bonus period.

The \$50 incentive group did not experience a sharp drop in interview completions the day after the bonus expired, so there is less evidence that the bonus influenced this group. As noted above, youth eligible for the \$40 incentive had completed the 18-month survey, whereas youth eligible for the \$50 incentive had not done so. Youth eligible for the \$40 incentive might have been more willing to complete interviews and thus were more motivated by the bonus. Bonuses might need to be larger to induce reluctant sample members to complete interviews and may not work for some sample members regardless of the size.

b. Responses to text messages

The pattern of spikes corresponding with the dates of text messages suggests that the text messages were associated with the timing of completing an interview. By motivating people to respond earlier, text message could help reduce costs by reducing the effort required for locating. The pattern also suggests that the association of text messages with survey completion faded as time elapses after each text message and as the field period progressed. For the first three text messages, the number of responses spiked on the day we sent the message and then fell sharply. The size of the spike declined over subsequent text messages and disappeared by the fourth one. These diminishing returns over time and with multiple reminders are consistent with patterns observed for other survey outreach methods, including mail (Fekete et al. 2015) and email (Sauermann and Roach 2013).

The findings do not prove there is a causal relationship between text messages and interview completion. Several factors complicate the effort to assess causality. First, some mailings and telephone calls occurred close to the dates of the text messages, thus preventing us from isolating the role of the text messages from that of other communications. Second, we sent the first text message between Days 8 and 11 after each cohort's release, shortly before the end of the bonus incentive period on Day 12. It is likely that the large spike around the date of the first text message was partly attributable to the imminent expiration of the incentive bonus. Finally, text messages might have prompted earlier responses from sample members who would have eventually completed an interview without receiving a text message, so it is not possible to determine whether the text messages increased the likelihood of responding.

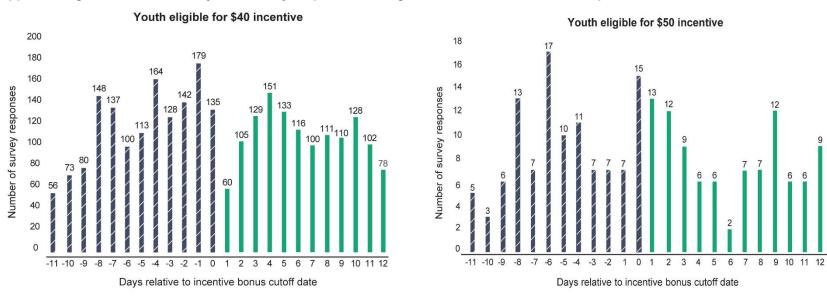
Appendix Table K.4. Youth five-year survey responses during and after the incentive bonus period (percentages, unless otherwise noted)

| Youth | Completed survey during 12- day bonus period (A) | Completed survey within 12 days after bonus period (B) | Difference (A – B) | <i>p</i> -value | Sample size |
|---------------------------------------|---|---|-----------------------|-----------------|-------------|
| Youth eligible for the \$40 incentive | 52.4 | 47.6 | 4.8** | 0.01 | 2,778 |
| Youth eligible for the \$50 incentive | 53.2 | 46.8 | 6.4 | 0.36 | 203 |
| All youth | 52.4 | 47.6 | 4.9** | 0.01 | 2,981 |

Source: PROMISE survey management system.

Note: This table presents the fraction of youth who completed the five-year survey during and after the bonus incentive period as a percentage of all youth who completed the survey within the first 24 days. All survey respondents received a \$30 incentive for completing thing five-year survey. The bonus incentive was available to survey-eligible youth who responded in the first 12 days. Youth who completed the 18-month survey were offered a \$10 bonus and youth who did not complete the 18-month survey were offered a \$20 bonus.

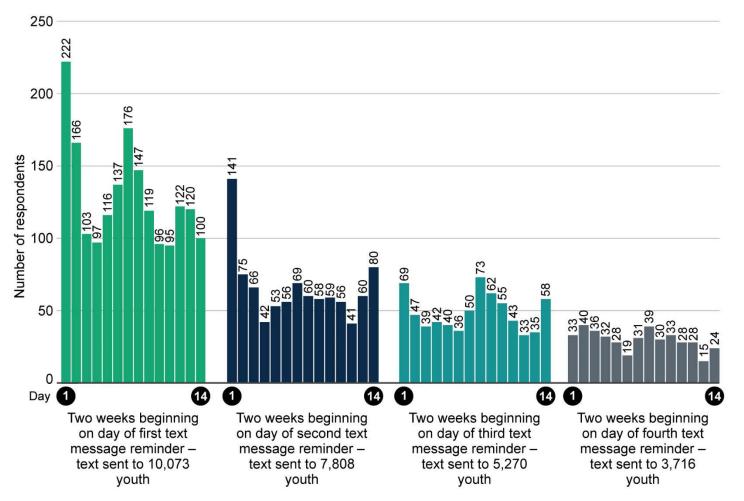
*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.



Appendix Figure K.1. Number of youth survey responses during and after the incentive bonus period

Source: PROMISE survey management system.

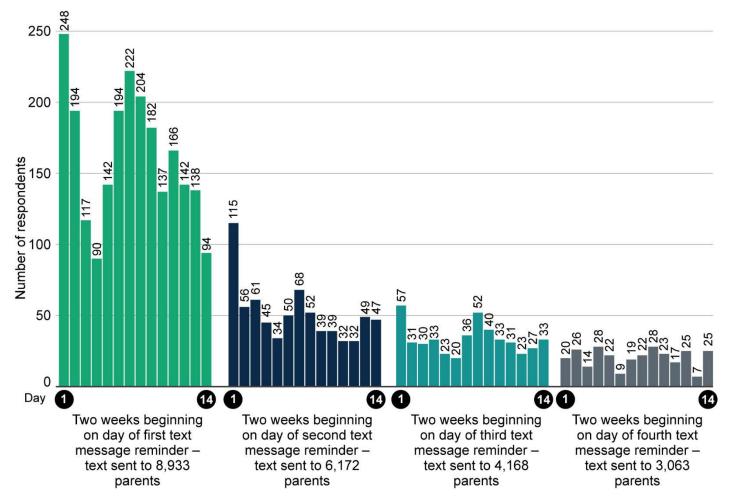
Note: This figure plots the number of five-year youth survey completions per day for the 12-day bonus incentive period and 12 days after. The bonus cutoff date is day 0.



Appendix Figure K.2. Number of youth survey responses per day within two weeks of sending text message reminders

Source: PROMISE survey management system.

Note: This figure plots the number of five-year youth survey completions per day over four 14-day periods. Each period began on the day of a text message reminder. We sent text messages to sample members at four points over the 24-week period in which each survey cohort was active (Weeks 2, 5, 14, and 19). We sent the messages on different days of the week for different survey cohorts; therefore, Day 1 could be any day of the week.



Appendix Figure K.3. Number of parent survey responses per day within two weeks of sending text message reminders

Source: PROMISE survey management system.

Note: This figure plots the number of five-year parent survey completions per day over four 14-day periods. Each period began on the day of a text message reminder. We sent text messages to sample members at four points over the 24-week period in which each survey cohort was active (Weeks 2, 5, 14, and 19). We sent the messages on different days of the week for different survey cohorts; therefore, Day 1 could be any day of the week.

D. Responses to SAQs

This study assessed whether the SAQ was a useful tool for eliciting responses to key survey questions from hard-to-reach populations. The study also provided some evidence on the extent of nonresponse bias that might have existed in impact estimates based on measures not included in the SAQ. Large differences in outcomes between SAQ and full survey respondents might suggest that impacts on other survey-based outcomes not measured in the SAQ should be interpreted carefully because of the potential for bias.

1. Data sources and methods

We used data from the PROMISE SMS and RA system, SSA, and the 18-month surveys to compare the characteristics of SAQ and full survey respondents by treatment and control group membership (Appendix Tables K.5 and K.6). We used data from the five-year surveys to compare unadjusted rates of outcomes measured in the SAQ for respondents who completed the SAQs and those who completed the full surveys by treatment and control group membership (Appendix Tables K.7).

2. Results

Overall, SAQ respondents look similar to full survey respondents, with the most substantial difference between the two groups being completion of the 18-month surveys: youth and parent SAQ respondents were about 15 percentage points less likely than full survey respondents to have completed their respective 18-month surveys. Youth SAQ respondents resembled full survey respondents on most baseline measures except for race and ethnicity, number of parents, and parent SSA payment status at RA (Appendix Table K.5). Youth SAQ respondents were almost 14 percentage points less likely than full survey respondents to be non-Hispanic Black. They were also more likely to have at least one parent, but their parents were less likely to receive SSA payments. We observed similar patterns of modest differences between parent SAQ and full survey respondents (Appendix Table K.6).

The SAQs measured a subset of key outcomes of the PROMISE demonstration; we observed several large differences in the outcomes of SAQ respondents compared with those of full survey respondents (Appendix Table K.7). Youth SAQ respondents were much more likely than full survey respondents to be enrolled in an educational or training program (by 53 percentage points in both the treatment group and the control group) and less likely to have had a paid job in the year before the survey (13 percentage points less likely in the treatment group and 20 percentage points less likely in the control group). They also had lower earnings and were less likely to have health insurance. Parent SAQ respondents reported higher rates of paid employment and higher earnings than full survey respondents, though the difference in parents' earnings in the treatment group was not statistically significant.

3. Implications of the findings

The SAQs might have served their intended purpose of increasing survey response without biasing the impact estimates. As discussed in Section B, completion of the 18-month survey was one of the strongest predictors for completion of the five-year survey. This finding suggests that the availability of the SAQ might have increased five-year survey responses among hard-to-reach sample members unlikely to respond to the full survey. We did observe substantial differences in several outcome rates between SAQ and full survey respondents; however, the same pattern of differences existed in both treatment and control groups, suggesting that nonresponse was not correlated with treatment group status and might not

have had a meaningful effect on impact estimates based on differences in treatment and control group means.

We hypothesized that youth and parents enrolled in ASPIRE would make up a disproportionately large share of SAQ respondents because ASPIRE had a greater percentage of enrollees who lived in frontier areas where in-person locating and interviewing were infeasible. This was not the case—in fact, while ASPIRE youth made up 17 percent of all youth who completed the five-year survey, they made up only 14.2 percent of SAQ respondents. However, the suspension of in-person locating and interviewing during the COVID-19 pandemic levelled the playing field between families that lived in frontier areas and those that did not. Had the five-year surveys not coincided with the pandemic, we might have observed a greater difference in response patterns between ASPIRE and the other programs.

Appendix Table K.5. Characteristics of youth five-year survey respondents who completed the SAQ and full survey (percentages, unless otherwise noted)

| Characteristic | All (A) | SAQ (B) | Full survey (C) | Difference (B – C ^{)a} | <i>p</i> -value |
|---|------------|------------|--------------------|------------------------------------|-----------------|
| Parent completed five-year survey | 96.9 | 87.6 | 97.3 | -9.7*** | 0.00 |
| Youth completed 18-month survey | 86.2 | 70.9 | 86.9 | -16.0*** | 0.00 |
| PROMISE Program | | | | | |
| Program | | | | | 0.10 |
| ASPIRE | 17.0 | 14.2 | 17.1 | -2.9 | |
| Arkansas PROMISE | 15.4 | 19.1 | 15.2 | 4.0 | |
| CaPROMISE | 17.1 | 16.1 | 17.2 | -1.1 | |
| MD PROMISE | 15.8 | 16.5 | 15.8 | 0.7 | |
| NYS PROMISE | 17.7 | 15.1 | 17.8 | -2.7 | |
| WI PROMISE | 17.0 | 18.9 | 16.9 | 2.0 | |
| Demographic characteristics | | | | | |
| Youth is female | 33.8 | 33.1 | 33.8 | -0.7 | 0.75 |
| Youth age at RA | | | | | 0.97 |
| 14 | 36.3 | 35.9 | 36.3 | -0.4 | |
| 15 | 29.2 | 29.1 | 29.2 | -0.2 | |
| 16 | 34.4 | 35.0 | 34.4 | 0.6 | |
| Average age at RA | 15.4 | 15.5 | 15.4 | 0.0 | 0.46 |
| Youth language preference | | | | | |
| English for written language | 87.9 | 89.8 | 87.8 | 2.0 | 0.18 |
| English for spoken language | 87.7 | 89.8 | 87.6 | 2.3 | 0.13 |
| Youth living arrangement | | | | | 0.30 |
| In parents' household | 84.1 | 86.8 | 83.9 | 2.8 | |
| Own household or alone | 13.8 | 11.6 | 13.9 | -2.4 | |
| Another household and receiving support | 2.1 | 1.7 | 2.1 | -0.5 | |

Appendix K Outcomes of Methods to Improve Survey Response

| | All | SAQ | Full survey | Difference | |
|---|------|------|-------------|----------------------|-----------------|
| Characteristic | (A) | (B) | (C) | (B – C ^{)a} | <i>p</i> -value |
| Youth race and ethnicity | | | | ttt | 0.00 |
| Non-Hispanic White | 18.7 | 20.3 | 18.6 | 1.7 | |
| Non-Hispanic Black | 32.6 | 19.6 | 33.2 | -13.6 | |
| Hispanic | 26.7 | 25.5 | 26.7 | -1.2 | |
| Non-Hispanic American Indian | 1.9 | 2.4 | 1.9 | 0.5 | |
| Non-Hispanic other or mixed race | 7.2 | 6.4 | 7.3 | -0.9 | |
| Missing | 13.0 | 25.8 | 12.4 | 13.4 | |
| Enrolling parent age at RA | 43.3 | 41.7 | 43.4 | -1.7*** | 0.00 |
| Parent race and ethnicity | | | | <u>†††</u> | 0.00 |
| Non-Hispanic White | 23.9 | 27.2 | 23.8 | 3.4 | |
| Non-Hispanic Black | 34.1 | 23.4 | 34.6 | -11.2 | |
| Hispanic | 24.3 | 23.9 | 24.3 | -0.4 | |
| Non-Hispanic American Indian | 1.8 | 2.4 | 1.7 | 0.6 | |
| Non-Hispanic other or mixed race | 5.6 | 2.8 | 5.8 | -2.9 | |
| Missing | 10.2 | 20.3 | 9.8 | 10.6 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.40 |
| Intellectual or developmental disability | 45.4 | 45.9 | 45.4 | 0.4 | |
| Speech, hearing, or visual impairment | 1.8 | 1.2 | 1.8 | -0.6 | |
| Physical disability | 14.1 | 11.8 | 14.2 | -2.4 | |
| Other mental impairment | 34.3 | 35.7 | 34.3 | 1.4 | |
| Other or unknown disability | 4.3 | 5.4 | 4.3 | 1.1 | |
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 94.3 | 92.4 | 94.3 | -1.9 | 0.15 |
| Received OASDI | 10.9 | 10.4 | 10.9 | -0.5 | 0.75 |
| Years between youth's earliest SSI eligibility and RA | 8.9 | 8.7 | 8.9 | -0.2 | 0.46 |
| Youth age at most recent SSI application | 7.0 | 7.2 | 7.0 | 0.2 | 0.32 |

| Characteristic | All (A) | SAQ (B) | Full survey (C) | Difference (B – C ^{)a} | <i>p</i> -value |
|--|------------|------------|--------------------|------------------------------------|-----------------|
| Youth payments in the year before RA (\$) | (A) | (B) | (C) | (B – C) | |
| SSI | 7,280 | 7,147 | 7,286 | -140 | 0.23 |
| | | | | | |
| OASDI | 313 | 312 | 313 | -1 | 0.98 |
| Total SSI and OASDI | 7,593 | 7,459 | 7,599 | -141 | 0.17 |
| Household had multiple SSI-eligible children | 19.2 | 19.2 | 19.2 | 0.0 | 0.99 |
| Enrolling parent provided a valid SSN | 76.6 | 77.8 | 76.5 | 1.3 | 0.54 |
| Parents in the administrative data | | | | <u>††</u> | 0.01 |
| None | 6.8 | 3.3 | 7.0 | -3.7 | |
| One parent | 59.4 | 60.8 | 59.3 | 1.4 | |
| Two parents | 33.8 | 35.9 | 33.7 | 2.2 | |
| Parent SSA payment status at RA | | | | ††† | 0.00 |
| A parent received SSI only | 9.3 | 7.1 | 9.4 | -2.3 | |
| A parent received OASDI only | 8.8 | 9.9 | 8.8 | 1.2 | |
| A parent received SSI and OASDI | 5.4 | 3.3 | 5.5 | -2.2 | |
| No parent received any SSA payments | 69.6 | 76.4 | 69.3 | 7.0 | |
| No parent included in the SSA data analyses | 6.8 | 3.3 | 7.0 | -3.7 | |
| Number of youth | 9,377 | 423 | 8,954 | | |

Source: PROMISE survey management system, SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: This table shows characteristics of two groups: youth who completed the SAQ and youth who completed the full PROMISE five-year youth survey. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a chi-square test.

^a The difference might not equal the difference between the numbers shown in columns B and C due to rounding.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SAQ = self-administered questionnaire; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

Appendix Table K.6. Characteristics of parent five-year survey respondents who completed the SAQ and full survey (percentages, unless otherwise noted)

| Characteristic | All (A) | SAQ (B) | Full survey (C) | Difference (B – C) | <i>p</i> -value |
|---|------------|------------|--------------------|-----------------------|-----------------|
| Youth completed five-year survey | 96.8 | 87.7 | 97.2 | -9.4*** | 0.00 |
| Parent completed 18-month survey | 90.0 | 75.7 | 90.5 | -14.8*** | 0.00 |
| PROMISE Program | | | | | |
| Program | | | | | 0.17 |
| ASPIRE | 16.8 | 16.0 | 16.8 | -0.8 | |
| Arkansas PROMISE | 15.1 | 18.3 | 15.0 | 3.3 | |
| CaPROMISE | 17.4 | 16.0 | 17.5 | -1.5 | |
| MD PROMISE | 15.8 | 17.4 | 15.7 | 1.7 | |
| NYS PROMISE | 17.9 | 13.7 | 18.0 | -4.3 | |
| WI PROMISE | 17.0 | 18.6 | 16.9 | 1.7 | |
| Demographic characteristics | | | | | |
| Youth is female | 33.4 | 35.1 | 33.3 | 1.8 | 0.49 |
| Youth age at RA | | | | | 0.91 |
| 14 | 36.3 | 35.4 | 36.3 | -0.9 | |
| 15 | 29.4 | 30.3 | 29.3 | 1.0 | |
| 16 | 34.3 | 34.3 | 34.3 | -0.1 | |
| Average age at RA | 15.4 | 15.5 | 15.4 | 0.0 | 0.76 |
| Youth language preference | | | | | |
| English for written language | 87.6 | 89.4 | 87.5 | 1.9 | 0.26 |
| English for spoken language | 87.4 | 89.4 | 87.3 | 2.2 | 0.20 |
| Youth living arrangement | | | | | 0.21 |
| In parents' household | 84.4 | 87.7 | 84.3 | 3.5 | |
| Own household or alone | 13.6 | 10.9 | 13.7 | -2.8 | |
| Another household and receiving support | 2.0 | 1.4 | 2.1 | -0.6 | |

| | All | SAQ | Full survey | Difference | |
|---|------|------|-------------|-------------|-----------------|
| Characteristic | (A) | (B) | (C) | (B – C) | <i>p</i> -value |
| Youth race and ethnicity | | | | <u>+</u> ++ | 0.00 |
| Non-Hispanic White | 18.3 | 22.9 | 18.1 | 4.7 | |
| Non-Hispanic Black | 33.0 | 20.9 | 33.4 | -12.6 | |
| Hispanic | 27.0 | 23.7 | 27.1 | -3.4 | |
| Non-Hispanic American Indian | 1.9 | 2.6 | 1.9 | 0.7 | |
| Non-Hispanic other or mixed race | 7.2 | 5.4 | 7.3 | -1.9 | |
| Missing | 12.6 | 24.6 | 12.1 | 12.4 | |
| Enrolling parent age at RA | 43.2 | 42.0 | 43.2 | -1.2*** | 0.01 |
| Parent race and ethnicity | | | | <u>+</u> ++ | 0.00 |
| Non-Hispanic White | 23.6 | 32.3 | 23.3 | 9.0 | |
| Non-Hispanic Black | 34.6 | 20.0 | 35.2 | -15.2 | |
| Hispanic | 24.6 | 22.6 | 24.7 | -2.2 | |
| Non-Hispanic American Indian | 1.7 | 2.0 | 1.7 | 0.3 | |
| Non-Hispanic other or mixed race | 5.5 | 2.6 | 5.6 | -3.1 | |
| Missing | 9.9 | 20.6 | 9.4 | 11.1 | |
| Disability | | | | | |
| Youth primary impairment | | | | | 0.99 |
| Intellectual or developmental disability | 45.5 | 46.3 | 45.5 | 0.8 | |
| Speech, hearing, or visual impairment | 1.8 | 1.4 | 1.8 | -0.4 | |
| Physical disability | 14.2 | 14.0 | 14.2 | -0.2 | |
| Other mental impairment | 34.2 | 33.7 | 34.2 | -0.5 | |
| Other or unknown disability | 4.3 | 4.6 | 4.3 | 0.2 | |
| SSA program participation | | | | | |
| Youth SSA payment status at RA | | | | | |
| Received SSI | 94.3 | 94.9 | 94.2 | 0.6 | 0.61 |
| Received OASDI | 10.6 | 11.7 | 10.5 | 1.2 | 0.50 |
| Years between youth's earliest SSI eligibility and RA | 8.9 | 8.8 | 8.9 | -0.1 | 0.79 |
| Youth age at most recent SSI application | 7.0 | 7.2 | 7.0 | 0.1 | 0.58 |

| Characteristic | All (A) | SAQ (B) | Full survey (C) | Difference (B – C) | <i>p</i> -value |
|--|------------|------------|--------------------|-----------------------|-----------------|
| Youth payments in the year before RA (\$) | | | | | |
| SSI | 7,287 | 7,234 | 7,289 | -55 | 0.66 |
| OASDI | 303 | 331 | 302 | 29 | 0.65 |
| Total SSI and OASDI | 7,590 | 7,565 | 7,591 | -26 | 0.82 |
| Household had multiple SSI-eligible children | 19.2 | 21.2 | 19.1 | 2.1 | 0.35 |
| Enrolling parent provided a valid SSN | 76.7 | 78.3 | 76.6 | 1.7 | 0.45 |
| Parents in the administrative data | | | | tt | 0.02 |
| None | 6.7 | 3.1 | 6.9 | -3.7 | |
| One parent | 59.4 | 60.0 | 59.3 | 0.7 | |
| Two parents | 33.9 | 36.9 | 33.8 | 3.1 | |
| Parent SSA payment status at RA | | | | <u>††</u> | 0.02 |
| A parent received SSI only | 9.2 | 7.7 | 9.2 | -1.5 | |
| A parent received OASDI only | 8.6 | 10.3 | 8.5 | 1.8 | |
| A parent received SSI and OASDI | 5.4 | 4.0 | 5.5 | -1.5 | |
| No parent received any SSA payments | 70.1 | 74.9 | 69.9 | 5.0 | |
| No parent included in the SSA data analyses | 6.7 | 3.1 | 6.9 | -3.7 | |
| Number of parents | 9,202 | 350 | 8,852 | | |

Source: PROMISE survey management system, SSA administrative records, PROMISE RA system, and 18-month surveys (race and ethnicity).

Note: This table shows characteristics of two groups: parents who completed the SAQ and parents who completed the full PROMISE five-year parent survey. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a chi-square test.

OASDI = Old-Age, Survivors, and Disability Insurance; RA = random assignment; SAQ = self-administered questionnaire; SSA = Social Security Administration; SSI = Supplemental Security Income; SSN = Social Security number.

Appendix Table K.7. Selected outcomes of five-year survey respondents who completed the SAQ and full survey, by treatment status (percentages, unless otherwise noted)

| | Treatment group | | | Control group | | | | | | |
|--|-----------------|-----------------------|---------------------------|-----------------|-------|------------|-----------------------|---------------------------|-----------------|-------|
| Outcome | SAQ (A) | Full survey (B) | Differenc e (A – B) | <i>p</i> -value | N | SAQ (C) | Full survey (D) | Differenc e (C – D) | <i>p</i> -value | N |
| Youth outcomes | | | | | | | | | | |
| Enrolled in an educational or training program | 94.6 | 41.5 | 53.1*** | 0.00 | 4,578 | 95.3 | 42.8 | 52.5*** | 0.00 | 4,486 |
| Had a GED, high school diploma, or certificate of completion | 71.9 | 69.2 | 2.8 | 0.39 | 4,683 | 75.2 | 71.1 | 4.2 | 0.18 | 4,620 |
| Employed in a paid job in the past year | 32.6 | 45.4 | -12.8*** | 0.00 | 4,723 | 22.7 | 42.8 | -20.1*** | 0.00 | 4,654 |
| Earnings in past year (\$) | 3,660 | 4,759 | -1,099* | 0.08 | 4,723 | 1,998 | 4,472 | -2,474*** | 0.00 | 4,654 |
| Youth expected to be financially independent at age 25 | 58.1 | 63.0 | -4.8 | 0.30 | 3,025 | 48.1 | 61.0 | -12.9*** | 0.00 | 2,943 |
| Covered by health insurance | 85.3 | 88.6 | -3.3 | 0.19 | 4,559 | 86.5 | 89.5 | -2.9 | 0.23 | 4,525 |
| Parent outcomes | | | | | | | | | | |
| Either parent worked for pay in the past year | 72.8 | 67.2 | 5.6* | 0.09 | 4,641 | 69.4 | 66.6 | 2.9 | 0.44 | 4,543 |
| Earnings in the past year (\$) | 23,566 | 22,808 | 758 | 0.74 | 4,644 | 24,056 | 22,319 | 1,737 | 0.50 | 4,547 |
| Either parent covered by health insurance | 92.5 | 90.3 | 2.2 | 0.27 | 4,609 | 91.9 | 89.8 | 2.1 | 0.34 | 4,522 |

Source: PROMISE survey management system and five-year surveys.

Note: This table shows mean outcomes of four groups: treatment group members who completed the SAQ, control group members who completed the SAQ, treatment group members who completed the full survey, and control group members who completed the full survey. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

GED = General Educational Development; SAQ = self-administered questionnaire.

Appendix L. Differences between PROMISE Control Group Enrollees and Non-Enrollees

In this appendix, we compare selected characteristics and outcomes of PROMISE control group youth to those of PROMISE-eligible youth who did not enroll in the demonstration, either because the programs did not attempt to recruit them or their parents chose not to enroll them (hereafter called "non-enrollees"). This comparison can help us better understand the representativeness of the PROMISE sample and the extent to which PROMISE volunteers differed from other eligible youth. These findings can thus inform the interpretation and generalizability of impacts.

In the sections that follow, we first describe the data and methods, then present the findings of the analyses. Overall, we found that PROMISE control group youth had higher employment rates, earnings, and SSA payments than non-enrollees. As a result, the PROMISE evaluation findings might not generalize to a broader population of youth receiving SSI.

A. Data and methods

1. Data and samples

We used SSA administrative data to examine youth's employment, earnings, and SSA payments. The analysis focused on youth's outcomes in the calendar year that they turned age 18 to allow for a uniform measurement period. Age 18 was the latest age possible, given the data that were available for all enrollees at the time of the analysis. Because the control group youth enrolled in the evaluation before the calendar year of their 18th birthday, it is possible they were prompted to think about their transition to adulthood, which might have affected their outcomes.

We examined the outcomes of the 6,282 youth randomly assigned to the control groups across the six programs and 69,898 non-enrollees in the same program service areas. The non-enrollee sample included youth receiving SSI who were eligible to enroll in PROMISE but their parents either chose not to enroll them or did not receive outreach from the program to enroll. We are unable to identify who received outreach and who did not.

The composition of the control group youth and non-enrollees was not identical (Appendix Tables L.1.a–L.1.g). For each program, enrollees differed from non-enrollees in some but not all of these characteristics; in most cases the differences were relatively small. One consistent difference was in youth's language preferences; for all programs except WI PROMISE, control group youth were more likely to cite English as their preferred written and spoken language than non-enrollees. We did not control for the differences in characteristics in this analysis because we were interested in whether the differences contributed to differences in outcomes.

The PROMISE enrollment period spanned two years and had an eligibility age range of 14 to 16 and youth in both groups had their 18th birthdays between 2015 and 2020. However, the distribution of birthdates differed significantly between control group youth and non-enrollees (Appendix Tables L.1.a–L.1.g). Larger shares of non-enrollee youth had their 18th birthdays in 2015, 2016, 2019, and 2020, whereas larger shares of PROMISE control group youth had their 18th birthdays in 2017 and 2018. Thus, the control group had a more condensed age distribution, likely reflecting the programs' enrollment experiences. Programs were slow to enroll youth in the early years of PROMISE, so the non-enrollee sample contained a larger share of older youth. Some programs also might have focused on older youth

because they were at risk of becoming ineligible for PROMISE sooner. Similarly, once programs achieved their enrollment targets, the remaining eligible youth, who were disproportionately younger, could not enroll. These differences mean that the two groups differed in the distributions of the calendar years of their 18th birthdays—the measurement period for the outcomes of interest. Notably, we measured a larger share of non-enrollees' outcomes in 2020, a year in which labor market and program participation outcomes could have been affected by the COVID-19 pandemic. Because we did not want differences in outcomes to be driven by differences in the years that outcomes were measured, we accounted for the measurement year in the analyses, as described further below.

Another difference between the two groups was that a larger percentage of non-enrollees (0.72 percent) died in or before the year they turned age 18, compared with control group youth (0.37 percent). We did not exclude deceased youth from the sample; the earnings and SSA payments of these youth had a value of zero in the analyses. Differential death rates between the two groups could have contributed to differences in outcomes. However, because the shares of deceased youth in each group are small, it is unlikely that the different death rates are drivers of differences in outcomes between control group youth and non-enrollees.

2. Methods

We examined the baseline characteristics and outcomes of PROMISE control group and non-enrollee youth in aggregate and separately by program. We assessed two measures of labor market outcomes: the share of youth who were employed (that is, had any earnings) in the calendar year of their 18th birthday as well as youth's average earnings (including those with zero earnings) in that year. We also considered three SSA payment measures: total SSA payments, SSI payments, and OASDI payments in the calendar year of the youth's 18th birthday. We adjusted each measure for inflation using the CPI-W and outliers (see Appendix B for our approach to winsorizing). We compared the average outcomes between the control group and non-enrollees after controlling for the calendar year of the 18th birthday using covariate adjustment. We used two-sided *t*-tests to assess whether the adjusted difference in outcomes between the two groups significantly differed from zero.

B. Results

In general, we found significant differences between the two groups across all outcome measures, as described below:

- Employment. On average across the six programs, a significantly larger share of control group youth (39 percent) were employed in the year of their 18th birthday compared with non-enrollee youth (35 percent). However, at the program level, the employment rate among enrollees was only significantly higher than non-enrollees for WI PROMISE and CaPROMISE. This is consistent with findings from additional analyses that compared the outcomes of PROMISE enrollees with outcomes of similarly aged youth who responded to the 2019 or 2020 American Community Survey (ACS). Compared with similarly aged ACS youth who received SSI, PROMISE youth were more likely to have been employed in the year before they were surveyed and reported higher earnings and weeks worked over that period, on average (Farid et al. 2022).
- SSA payments. In all programs except ASPIRE, control group youth had significantly higher SSI payments and total SSA payments than non-enrollees in the calendar year of their 18th birthday. For example, on average across the programs, control group youth's SSA payment amounts in the calendar year of their 18th birthday were 5 percent higher than those of non-enrollees.

The differences in outcomes between control group youth and non-enrollees indicate that, on average across the programs, youth who enrolled in the PROMISE demonstration were likely to have better-thanaverage employment outcomes even in the absence of PROMISE. This suggests that those who volunteered to enroll in PROMISE might have unobserved characteristics (such as motivation to work or work readiness) associated with better employment outcomes. This is consistent with findings from descriptive analyses indicating that PROMISE enrollees tended to be more work-oriented and less education-oriented, compared with similarly aged youth receiving SSI in the ACS (Farid et al. 2022). Thus, the results of the five-year impact evaluation are likely only generalizable to voluntary programs, which most transition programs are.

Appendix Table L.1.a. Arkansas PROMISE: Baseline characteristics of youth enrollees and nonenrollees (percentages, unless otherwise noted)

| Characteristic or outcome | Control group (A) | Non- enrollees (B) | Difference (A – B) | <i>p</i> -value |
|---|-------------------------|--------------------------|-----------------------|-----------------|
| Baseline characteristics | | • | · | |
| Youth is female | 34.0 | 32.8 | 1.2 | 0.48 |
| Calendar year of 18th birthday (%) | | | <u>†††</u> | 0.00 |
| 2015 | 3.3 | 6.4 | -3.0 | |
| 2016 | 19.2 | 20.1 | -0.9 | |
| 2017 | 26.2 | 20.3 | 5.9 | |
| 2018 | 28.7 | 23.1 | 5.6 | |
| 2019 | 19.8 | 22.9 | -3.2 | |
| 2020 | 2.8 | 7.1 | -4.4 | |
| Youth language preference at SSI application | | | | |
| Prefers English for written language | 97.3 | 99.0 | -1.6*** | 0.00 |
| Prefers English for spoken language | 97.3 | 98.9 | -1.6*** | 0.00 |
| Youth primary impairment | | | | 0.19 |
| Intellectual or developmental disability | 41.4 | 38.3 | 3.1 | |
| Speech, hearing, or visual impairment | 1.1 | 1.2 | -0.1 | |
| Physical disability | 9.9 | 9.9 | -0.1 | |
| Other mental impairment | 45.0 | 46.6 | -1.7 | |
| Other or unknown disability | 2.7 | 4.0 | -1.3 | |
| Youth age at most recent SSI application | 7.1 | 7.0 | 0.2 | 0.21 |
| Household had multiple SSI-eligible children | 28.6 | 25.8 | 2.7* | 0.08 |
| Outcomes | | | | |
| Youth had earnings in calendar year of 18th birthday (%) | 41.0 | 38.5 | 2.5 | 0.15 |
| Youth earnings in calendar year of 18th birthday (\$) | 1,569 | 1,501 | 85 | 0.45 |
| Youth SSA payments in calendar year of 18th birthday (\$) | 6,667 | 6,075 | 637*** | 0.00 |
| Youth SSI payments in calendar year of 18th birthday (\$) | 6,118 | 5,538 | 634*** | 0.00 |
| Youth OASDI payments in calendar year of 18th birthday (\$) | 549 | 537 | 3 | 0.96 |
| Number of youth | 901 | 7,870 | | |

Source: SSA administrative records, PROMISE RA system.

Note: The sample includes all youth who were eligible to enroll in PROMISE except those who were randomly assigned to the treatment group. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories. When comparing outcomes between the control group and non-enrollees, we control for the calendar year in which the youth turned age 18.

*/**/*** Difference is significantly different from zero (*p*-value is less than .10/.05/.01) using a two-tailed *t*-test.

+/++/+++ Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

| Appendix Table L.1.b. ASPIRE: Baseline characteristics of youth enrollees and non-enrollees | |
|---|--|
| (percentages, unless otherwise noted) | |

| Characteristic or outcome | Control group (A) | Non- enrollees (B) | Difference (A – B) | <i>p</i> -value |
|--|-------------------------|--------------------------|-----------------------|-----------------|
| Baseline characteristics | | | , | |
| Youth is female | 31.8 | 33.0 | -1.2 | 0.43 |
| Calendar year of 18th birthday (%) | | | <u>†††</u> | 0.00 |
| 2015 | 0.1 | 2.9 | -2.8 | |
| 2016 | 13.0 | 21.5 | -8.4 | |
| 2017 | 29.7 | 22.1 | 7.7 | |
| 2018 | 31.7 | 23.4 | 8.3 | |
| 2019 | 22.6 | 22.7 | -0.1 | |
| 2020 | 2.9 | 7.5 | -4.6 | |
| Youth language preference at SSI application | | | | |
| Prefers English for written language | 91.7 | 89.0 | 2.7*** | 0.01 |
| Prefers English for spoken language | 91.3 | 88.7 | 2.6** | 0.01 |
| Youth primary impairment | | | | 0.45 |
| Intellectual or developmental disability | 43.3 | 42.7 | 0.6 | |
| Speech, hearing, or visual impairment | 2.8 | 2.7 | 0.1 | |
| Physical disability | 18.5 | 18.8 | -0.4 | |
| Other mental impairment | 30.9 | 29.8 | 1.1 | |
| Other or unknown disability | 4.6 | 6.1 | -1.4 | |
| Youth age at most recent SSI application | 7.3 | 6.7 | 0.6*** | 0.00 |
| Household had multiple SSI-eligible children | 17.2 | 17.1 | 0.1 | 0.91 |
| Outcomes | | | | |
| Youth had earnings in calendar year of 18th birthday (%) | 32.4 | 31.1 | 1.2 | 0.43 |
| Youth earnings in calendar year of 18th birthday (\$) | 1,319 | 1,376 | -73 | 0.53 |
| Youth SSA payments in calendar year of 18th birthday (\$) | 6,267 | 6,271 | 124 | 0.31 |
| Youth SSI payments in calendar year of 18th birthday (\$) | 5,819 | 5,867 | 82 | 0.52 |
| Youth OASDI payments in calendar year of 18th birthday (\$) | 448 | 404 | 43 | 0.41 |
| Number of youth | 975 | 12,690 | | |

Source: SSA administrative records, PROMISE RA system.

Note: The sample includes all youth who were eligible to enroll in PROMISE except those who were randomly assigned to the treatment group. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories. When comparing outcomes between the control group and non-enrollees, we control for the calendar year in which the youth turned age 18.

*/**/*** Difference is significantly different from zero (p-value is less than .10/.05/.01) using a two-tailed t-test.

+/++/+++ Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

Appendix Table L.1.c. CaPROMISE: Baseline characteristics of youth enrollees and non-enrollees (percentages, unless otherwise noted)

| Characteristic or outcome | Control group (A) | Non- enrollees (B) | Difference (A – B) | <i>p</i> -value |
|---|-------------------------|--------------------------|-----------------------|-----------------|
| Baseline characteristics | | | | |
| Youth is female | 33.3 | 33.3 | 0.0 | 0.98 |
| Calendar year of 18th birthday (%) | | | <u>+++</u> | 0.00 |
| 2015 | 3.5 | 8.8 | -5.3 | |
| 2016 | 19.2 | 20.1 | -0.9 | |
| 2017 | 28.2 | 20.7 | 7.5 | |
| 2018 | 28.4 | 21.5 | 7.0 | |
| 2019 | 18.2 | 22.2 | -4.0 | |
| 2020 | 2.5 | 6.8 | -4.3 | |
| Youth language preference at SSI application | | | | |
| Prefers English for written language | 65.1 | 72.6 | -7.5*** | 0.00 |
| Prefers English for spoken language | 65.3 | 74.1 | -8.8*** | 0.00 |
| Youth primary impairment | | | | 0.14 |
| Intellectual or developmental disability | 47.8 | 45.7 | 2.2 | |
| Speech, hearing, or visual impairment | 2.6 | 3.2 | -0.5 | |
| Physical disability | 19.5 | 19.0 | 0.5 | |
| Other mental impairment | 23.1 | 25.6 | -2.5 | |
| Other or unknown disability | 6.9 | 6.5 | 0.4 | |
| Youth age at most recent SSI application | 6.8 | 6.4 | 0.4*** | 0.00 |
| Household had multiple SSI-eligible children | 14.6 | 15.8 | -1.2 | 0.20 |
| Outcomes | | | | |
| Youth had earnings in calendar year of 18th birthday (%) | 30.8 | 27.4 | 2.7** | 0.02 |
| Youth earnings in calendar year of 18th birthday (\$) | 806 | 809 | -14 | 0.84 |
| Youth SSA payments in calendar year of 18th birthday (\$) | 7,857 | 7,614 | 306*** | 0.00 |
| Youth SSI payments in calendar year of 18th birthday (\$) | 7,537 | 7,313 | 285*** | 0.01 |
| Youth OASDI payments in calendar year of 18th birthday (\$) | 320 | 301 | 21 | 0.55 |
| Number of youth | 1,549 | 18,347 | | |

Source: SSA administrative records, PROMISE RA system.

Note: The sample includes all youth who were eligible to enroll in PROMISE except those who were randomly assigned to the treatment group. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories. When comparing outcomes between the control group and non-enrollees, we control for the calendar year in which the youth turned age 18.

*/**/*** Difference is significantly different from zero (p-value is less than .10/.05/.01) using a two-tailed t-test.

+/++/+++ Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

Appendix Table L.1.d. MD PROMISE: Baseline characteristics of youth enrollees and nonenrollees (percentages, unless otherwise noted)

| Characteristic or outcome | Control group (A) | Non- enrollees (B) | Difference (A – B) | <i>p</i> -value |
|---|-------------------------|--------------------------|-----------------------|-----------------|
| Baseline characteristics | | | | |
| Youth is female | 36.6 | 31.5 | 5.0*** | 0.00 |
| Calendar year of 18th birthday (%) | | | <u>†††</u> | 0.00 |
| 2015 | 16.1 | 11.8 | 4.3 | |
| 2016 | 20.1 | 20.4 | -0.3 | |
| 2017 | 24.9 | 20.3 | 4.6 | |
| 2018 | 22.8 | 20.9 | 1.9 | |
| 2019 | 15.4 | 23.3 | -7.9 | |
| 2020 | 0.6 | 3.3 | -2.6 | |
| Youth language preference at SSI application | | | | |
| Prefers English for written language | 96.9 | 97.8 | -1.0* | 0.07 |
| Prefers English for spoken language | 96.6 | 97.6 | -1.0* | 0.06 |
| Youth primary impairment | | | | 0.40 |
| Intellectual or developmental disability | 36.6 | 35.6 | 1.0 | |
| Speech, hearing, or visual impairment | 1.4 | 1.6 | -0.2 | |
| Physical disability | 11.3 | 11.9 | -0.7 | |
| Other mental impairment | 47.6 | 46.5 | 1.2 | |
| Other or unknown disability | 3.1 | 4.4 | -1.3 | |
| Youth age at most recent SSI application | 7.8 | 7.5 | 0.4*** | 0.01 |
| Household had multiple SSI-eligible children | 17.4 | 19.6 | -2.2 | 0.11 |
| Outcomes | | | | |
| Youth had earnings in calendar year of 18th birthday (%) | 34.8 | 36.3 | -0.9 | 0.62 |
| Youth earnings in calendar year of 18th birthday (\$) | 1,154 | 1,321 | -95 | 0.35 |
| Youth SSA payments in calendar year of 18th birthday (\$) | 7,004 | 6,637 | 276** | 0.02 |
| Youth SSI payments in calendar year of 18th birthday (\$) | 6,559 | 6,223 | 245* | 0.05 |
| Youth OASDI payments in calendar year of 18th birthday (\$) | 445 | 414 | 31 | 0.57 |
| Number of youth | 930 | 5,661 | | |

Source: SSA administrative records, PROMISE RA system.

Note: The sample includes all youth who were eligible to enroll in PROMISE except those who were randomly assigned to the treatment group. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories. When comparing outcomes between the control group and non-enrollees, we control for the calendar year in which the youth turned age 18.

*/**/*** Difference is significantly different from zero (p-value is less than .10/.05/.01) using a two-tailed t-test.

+/++/+++ Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

Appendix Table L.1.e. NYS PROMISE: Baseline characteristics of youth enrollees and nonenrollees (percentages, unless otherwise noted)

| Characteristic or outcome | Control group (A) | Non- enrollees (B) | Difference (A – B) | <i>p-</i> value |
|--|-------------------------|--------------------------|-----------------------|-----------------|
| Baseline characteristics | | | | |
| Youth is female | 32.7 | 32.6 | 0.1 | 0.94 |
| Calendar year of 18th birthday (%) | | | <u>†††</u> | 0.00 |
| 2015 | 0.0 | 5.2 | -5.2 | |
| 2016 | 9.9 | 21.5 | -11.6 | |
| 2017 | 28.8 | 21.4 | 7.5 | |
| 2018 | 30.8 | 22.5 | 8.3 | |
| 2019 | 27.6 | 22.3 | 5.3 | |
| 2020 | 2.9 | 7.1 | -4.2 | |
| Youth language preference at SSI application | | | | |
| Prefers English for written language | 85.7 | 82.4 | 3.4*** | 0.01 |
| Prefers English for spoken language | 85.0 | 82.5 | 2.5** | 0.04 |
| Youth primary impairment | | | <u>+++</u> | 0.00 |
| Intellectual or developmental disability | 57.8 | 48.2 | 9.6 | |
| Speech, hearing, or visual impairment | 1.6 | 1.6 | 0.0 | |
| Physical disability | 11.4 | 14.4 | -3.0 | |
| Other mental impairment | 25.1 | 31.9 | -6.8 | |
| Other or unknown disability | 4.1 | 3.9 | 0.2 | |
| Youth age at most recent SSI application | 6.3 | 6.2 | 0.1 | 0.55 |
| Household had multiple SSI-eligible children | 19.1 | 20.7 | -1.6 | 0.22 |
| Outcomes | | | | |
| Youth had earnings in calendar year of 18th birthday (%) | 34.0 | 32.0 | 0.8 | 0.62 |
| Youth earnings in calendar year of 18th birthday (\$) | 1,011 | 1,028 | -123 | 0.13 |
| Youth SSA payments in calendar year of 18th birthday (\$) | 7,208 | 6,671 | 778*** | 0.00 |
| Youth SSI payments in calendar year of 18th birthday (\$) | 6,747 | 6,324 | 654*** | 0.00 |
| Youth OASDI payments in calendar year of 18th birthday (\$) | 461 | 347 | 124*** | 0.01 |
| Number of youth | 981 | 18,198 | | |

Source: SSA administrative records, PROMISE RA system.

Note: The sample includes all youth who were eligible to enroll in PROMISE except those who were randomly assigned to the treatment group. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories. When comparing outcomes between the control group and non-enrollees, we control for the calendar year in which the youth turned age 18.

*/**/*** Difference is significantly different from zero (p-value is less than .10/.05/.01) using a two-tailed t-test.

+/++/+++ Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

Appendix Table L.1.f. WI PROMISE: Baseline characteristics of youth enrollees and non-enrollees (percentages, unless otherwise noted)

| Characteristic or outcome | Control group (A) | Non- enrollees (B) | Difference (A – B) | <i>p</i> -value |
|---|-------------------------|--------------------------|-----------------------|-----------------|
| Baseline characteristics | | • | | |
| Youth is female | 33.3 | 31.6 | 1.7 | 0.29 |
| Calendar year of 18th birthday (%) | | | <u>†††</u> | 0.00 |
| 2015 | 3.9 | 14.1 | -10.2 | |
| 2016 | 20.3 | 18.9 | 1.4 | |
| 2017 | 24.3 | 19.3 | 5.0 | |
| 2018 | 24.8 | 19.5 | 5.3 | |
| 2019 | 22.3 | 21.0 | 1.3 | |
| 2020 | 4.3 | 7.2 | -2.9 | |
| Youth language preference at SSI application | | | | |
| Prefers English for written language | 95.9 | 96.1 | -0.3 | 0.70 |
| Prefers English for spoken language | 95.7 | 96.1 | -0.5 | 0.48 |
| Youth primary impairment | | | | 0.32 |
| Intellectual or developmental disability | 38.1 | 36.6 | 1.4 | |
| Speech, hearing, or visual impairment | 1.1 | 1.5 | -0.4 | |
| Physical disability | 11.9 | 13.0 | -1.0 | |
| Other mental impairment | 45.3 | 44.2 | 1.1 | |
| Other or unknown disability | 3.6 | 4.7 | -1.1 | |
| Youth age at most recent SSI application | 7.4 | 7.0 | 0.4*** | 0.01 |
| Household had multiple SSI-eligible children | 23.1 | 21.7 | 1.4 | 0.32 |
| Outcomes | | | | |
| Youth had earnings in calendar year of 18th birthday (%) | 53.4 | 47.9 | 4.8*** | 0.01 |
| Youth earnings in calendar year of 18th birthday (\$) | 1,818 | 1,761 | -1 | 1.00 |
| Youth SSA payments in calendar year of 18th birthday (\$) | 6,914 | 6,626 | 435*** | 0.00 |
| Youth SSI payments in calendar year of 18th birthday (\$) | 6,445 | 6,177 | 421*** | 0.00 |
| Youth OASDI payments in calendar year of 18th birthday (\$) | 469 | 449 | 13 | 0.81 |
| Number of youth | 946 | 7,132 | | |

Source: SSA administrative records, PROMISE RA system.

Note: The sample includes all youth who were eligible to enroll in PROMISE except those who were randomly assigned to the treatment group. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories. When comparing outcomes between the control group and non-enrollees, we control for the calendar year in which the youth turned age 18.

*/**/*** Difference is significantly different from zero (p-value is less than .10/.05/.01) using a two-tailed t-test.

+/++/+++ Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

Appendix Table L.1.g. All PROMISE programs: Baseline characteristics of youth enrollees and non-enrollees (percentages, unless otherwise noted)

| Characteristic or outcome | Control group (A) | Non- enrollees (B) | Difference (A – B) | <i>p-</i> value |
|--|-------------------------|--------------------------|-----------------------|-----------------|
| Baseline characteristics | | | | |
| Youth is female | 34.0 | 32.5 | 1.5*** | 0.01 |
| Calendar year of 18th birthday (%) | | | <u>†††</u> | 0.00 |
| 2015 | 6.0 | 8.1 | -2.1 | |
| 2016 | 18.0 | 20.4 | -2.4 | |
| 2017 | 26.5 | 20.7 | 5.8 | |
| 2018 | 26.9 | 21.8 | 5.1 | |
| 2019 | 20.0 | 22.4 | -2.4 | |
| 2020 | 2.5 | 6.5 | -4.0 | |
| Youth language preference at SSI application | | | | |
| Prefers English for written language | 90.7 | 89.2 | 1.4*** | 0.00 |
| Prefers English for spoken language | 90.5 | 89.5 | 1.0*** | 0.01 |
| Youth primary impairment | | | <u>+++</u> | 0.00 |
| Intellectual or developmental disability | 42.1 | 41.3 | 0.8 | |
| Speech, hearing, or visual impairment | 1.6 | 2.0 | -0.3 | |
| Physical disability | 13.2 | 14.6 | -1.4 | |
| Other mental impairment | 39.1 | 37.2 | 1.9 | |
| Other or unknown disability | 3.9 | 4.9 | -1.0 | |
| Youth age at most recent SSI application | 7.3 | 6.8 | 0.5*** | 0.00 |
| Household had multiple SSI-eligible children | 20.4 | 20.1 | 0.3 | 0.57 |
| Outcomes | | | | |
| Youth had earnings in calendar year of 18th birthday (%) | 38.9 | 35.4 | 3.4*** | 0.00 |
| Youth earnings in calendar year of 18th birthday (\$) | 1,328 | 1,293 | 45 | 0.24 |
| Youth SSA payments in calendar year of 18th birthday (\$) | 6,967 | 6,652 | 355*** | 0.00 |
| Youth SSI payments in calendar year of 18th birthday (\$) | 6,513 | 6,244 | 310*** | 0.00 |
| Youth OASDI payments in calendar year of 18th birthday (\$) | 453 | 407 | 44** | 0.02 |
| Number of youth | 6,282 | 69,898 | | |

Source: SSA administrative records, PROMISE RA system.

Note: The sample includes all youth who were eligible to enroll in PROMISE except those who were randomly assigned to the treatment group. The *p*-value for a continuous or binary variable is based on a two-tailed *t*-test. The *p*-value for a multinomial categorical variable, which we present in the row for the variable label, is based on a chi-square test across all categories. When comparing outcomes between the control group and non-enrollees, we control for the calendar year in which the youth turned age 18.

*/**/*** Difference is significantly different from zero (p-value is less than .10/.05/.01) using a two-tailed t-test.

+/++/+++ Difference is significantly different from zero (p-value is less than .10/.05/.01) using a chi-square test.

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