

Report to Congress

**T-MSIS Substance Use Disorder (SUD) Data Book**

**Treatment of SUD in Medicaid, 2020**

As Required by the

Substance Use-Disorder Prevention that Promotes Opioid Recovery and Treatment for Patients  
and Communities Act (P.L. 115-271)

Xavier Becerra, Secretary  
U.S. Department of Health and Human Services  
**December 2, 2022**

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## EXECUTIVE SUMMARY

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On October 24, 2018, the Substance Use-Disorder Prevention that Promotes Opioid Recovery and Treatment (SUPPORT) for Patients and Communities Act (P.L. 115-271) (hereafter, the SUPPORT Act) was signed into law to address, among other issues, the pressing need for substance use disorder (SUD)<sup>1</sup> treatment and prevention services, with a focus on treatment for opioid use disorder (OUD). In 2020, approximately 40.3 million Americans ages 12 and older had a SUD, but only about 2.6 million (or 6.5 percent) received treatment (Substance Abuse and Mental Health Services Administration [SAMHSA] 2021a).<sup>2</sup> For the Medicaid population, section 1015(a)(1) of the SUPPORT Act directs the U.S. Department of Health and Human Services (HHS) to publish a report—the Transformed Medicaid Statistical Information System (T-MSIS) SUD Data Book (hereafter, SUD Data Book)—about the number of Medicaid beneficiaries with a SUD and the services they received. The first T-MSIS SUD Data Book was published on October 24, 2019, exactly one year after the passage of the law. Section 1015(a)(3) of the SUPPORT Act also requires HHS to issue an updated version of the SUD Data Book no later than January 1 of each calendar year thereafter through 2024 (see Appendix A for the full text of section 1015 of the SUPPORT Act). The second annual SUD Data Book, based on data from calendar year 2018, was published on January 19, 2021, and the third annual SUD Data Book, based on data from calendar year 2019, was published on January 21, 2022. This fourth annual SUD Data Book reports the number of Medicaid beneficiaries with a SUD and the services they received during calendar year 2020. Due to major improvements in the quality and completeness of the data, as well as a small number of minor methodological updates, the findings from this report should not be compared with the findings from the first or second SUD Data Books, which report the number of Medicaid beneficiaries with a SUD and the services they received during calendar years 2017 and 2018, respectively.<sup>3</sup> This report contains a comparison of the findings to the results from 2019 for several key measures.

Using T-MSIS data, we identified 56 million Medicaid beneficiaries ages 12 and older who had full or comprehensive benefits in 2020. Of these, 4.6 million (8 percent) were treated for any SUD, and 1.6 million (3 percent) were specifically treated for an OUD. Of the five major enrollment categories assessed, the prevalence of SUD treatment is highest in the expansion

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<sup>1</sup> SUD conditions include Alcohol, Cannabis, Opioids, Polysubstance, Stimulants, Tobacco, and Other Category which includes treatment for caffeine; hallucinogens; sedatives, hypnotics, and anxiolytics; inhalants; and unspecified or unknown SUD. The counts of beneficiaries presented in this SUD Data Book underestimate the true prevalence of SUD because the reported counts exclude beneficiaries with a SUD who do not seek treatment.

<sup>2</sup> These counts exclude individuals with a tobacco use disorder, included in this SUD Data Book.

<sup>3</sup> Between the 2019 and 2020 SUD Data Books, two changes to the methodology of the SUD Data Book were made to update the identification of Medicaid beneficiaries with a SUD and the services they received: (1) the method used to identify inpatient and long-term care services and (2) how claims for methadone prescriptions from the RX file were used to identify beneficiaries with a SUD. Code lists were updated between the 2018 and 2019 SUD Data Books and the 2019 and 2020 SUD Data Books. In addition, updates made between the 2017 and 2018 SUD Data Books are retained in the 2019 and 2020 SUD Data Books. Changes between the 2017 and 2018 SUD Data Books include adding the Virgin Islands; revising Tables A.5 and A.6 to focus on individuals eligible for Medicaid due to disability rather than the larger aged, blind, or disabled group; combining Tables A.7 and A.8; updating National Drug Codes and other code lists required to identify beneficiaries with a SUD; and using two T-MSIS fields rather than one for identifying Medicaid beneficiaries with comprehensive benefits.

adult enrollment category (10 percent) and the aged, blind, and disabled category<sup>4</sup> (10 percent); the expansion adults enrollment category accounts for the largest proportion (43 percent) of beneficiaries treated for a SUD. The enrollment category with the smallest proportion treated (excluding the beneficiaries whose enrollment category is unknown) were eligible for Medicaid on the basis of being pregnant (less than 3 percent). Of the states that did not expand Medicaid, the largest share of beneficiaries treated for a SUD were in the aged, blind, or disabled enrollment category with the exception of Wisconsin, whose largest share of beneficiaries treated for a SUD were in the adult enrollment category.

More than three-quarters (78 percent) of Medicaid beneficiaries treated for a SUD in 2020 received at least one service in an outpatient setting, and 42 percent received at least one service in an inpatient setting during the year. Nearly half of Medicaid beneficiaries treated for a SUD (42 percent) in 2020 received emergency services, which was the most common type of SUD service provided during the year. Less than one-third (29 percent) of beneficiaries treated for a SUD who received care in an inpatient or residential setting in 2020 also received at least one outpatient or home- or community-based SUD service within 30 days of being discharged.

Approximately three-quarters (78 percent) of the beneficiaries treated for an OUD received medication-assisted treatment (MAT), and in all states and territories, more than 50 percent of the beneficiaries treated for an OUD received MAT. Beneficiaries treated for OUD received more outpatient services and fewer inpatient services than beneficiaries treated for other SUDs. Ninety-six percent of the Medicaid beneficiaries treated for an OUD received one or more services in an outpatient setting in 2020 compared to 78 percent of all Medicaid beneficiaries treated for a SUD, and 27 percent of beneficiaries treated for an OUD received one or more services in an inpatient setting, compared to 42 percent of Medicaid beneficiaries treated for any SUD. Among the Medicaid beneficiaries treated for an OUD who received any SUD service in an inpatient or residential setting during 2020, 60 percent received at least one outpatient or home- or community-based service within 30 days of discharge; 49 percent of this same group received two or more of these services. These rates of follow-up care after discharge from an inpatient or residential setting are substantially higher than for Medicaid beneficiaries treated for a SUD more generally.

The COVID-19 pandemic created conditions which exacerbated SUDs for some individuals and increased the risk of new SUDs (Government Accountability Office (GAO), 2021). Simultaneously, the initial months of the COVID-19 public health emergency (PHE) strained the SUD care system due to provider closures and restrictions, which contributed to challenges in accessing treatment for individuals with a SUD. During the same time period, overall Medicaid enrollment increased, allowing more individuals with a SUD to be eligible to receive SUD treatment through Medicaid. This increase in the number of Medicaid beneficiaries overall was linked to changes in Medicaid eligibility renewal practices in response to the COVID-19 PHE.

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<sup>4</sup> The aged, blind, and disabled eligibility category refers to individuals eligible for Medicaid on the basis of being 65 or older, blind, or disabled, and includes those receiving supplemental security income (SSI) benefits. For a full list of Medicaid eligibility groups included in each enrollment category, see Appendix E.

Changes between 2019 and 2020 should be interpreted in light of the changes in total Medicaid enrollment and access to treatment during the COVID-19 PHE.

The percentage of Medicaid beneficiaries treated for a SUD decreased by 0.5 percentage points from 2019 to 2020, from 8.6 to 8.1 percent. This decrease represents 135,000 fewer beneficiaries treated for a SUD in 2020 compared to 2019. The percentage of Medicaid beneficiaries treated for an OUD did not change between 2019 to 2020, remaining at 2.9 percent. The percentage of beneficiaries treated for a SUD who received any MAT<sup>5</sup> increased by 1.7 percentage points from 2019 to 2020, from 31.3 percent to 33.0 percent nationally. This increase represents more than 35,000 additional beneficiaries treated for a SUD who received MAT in 2020 compared to 2019. Nationally, the percentage of Medicaid beneficiaries treated for a SUD who received emergency services decreased by 2.6 percentage points from 2019 to 2020, from 44.6 percent to 42.0 percent; the percentage of Medicaid beneficiaries treated for a SUD who received services in an inpatient setting increased by 0.5 percentage points between 2019 and 2020, from 39.9 percent to 40.4 percent. The percentage of Medicaid beneficiaries treated for a SUD who received treatment in a residential setting increased by 0.3 percentage points from 2019 to 2020, from 5.2 percent to 5.5 percent. The percentage of Medicaid beneficiaries treated for a SUD who received treatment in an outpatient setting decreased by 0.7 percentage points from 2019 to 2020, from 78.6 percent to 77.9 percent. This decrease represents almost 140,000 fewer Medicaid beneficiaries treated for a SUD who received treatment in an outpatient setting in 2020 compared to 2019. The percentage of Medicaid beneficiaries treated for a SUD who received inpatient or residential treatment and an outpatient or a community-based follow-up within 30 days of discharge increased by 0.4 percentage points from 2019 to 2020, from 28.3 percent to 28.7 percent. All changes between 2019 and 2020 at the national level were statistically significant, and the majority of state-level changes were statistically significant as well.<sup>6</sup>

The information in the SUD Data Book is derived from a research-ready version of the T-MSIS data—the T-MSIS Analytic Files (TAF). The T-MSIS and TAF data contain national data on Medicaid and the Children’s Health Insurance Program (CHIP), and states continue to improve the quality and completeness of their T-MSIS submissions. This SUD Data Book is based on the 2020 preliminary TAF release 1, in which the data from some states had quality

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<sup>5</sup> For the purposes of this SUD Data Book, MAT consists of medications intended to reduce the symptoms of a SUD, including alcohol use disorder (AUD), OUD, and TUD. This treatment is often augmented with counseling or other behavioral therapeutic interventions, which are counted separately. MAT also includes medication used to counteract an overdose.

<sup>6</sup> For more information on the methodology used to calculate statistical significance, see “Methods and limitations” in Chapter VI. “Results, Section G. Changes over time in key metrics.”

issues.<sup>7, 8, 9</sup> One state (Tennessee) was not included in the analysis.<sup>10</sup> Other states and territories included in the analysis had less severe but still problematic data issues. For example, in some states, the reporting of Medicaid enrollment data, eligibility for benefits, or age may be incomplete, inconsistent, or inaccurate. As a result, the estimates in this SUD Data Book of the number of Medicaid beneficiaries who were eligible for SUD services in 2020 may not be correct. Other data quality issues include an unexpectedly low or high volume of claims, and claims that are missing essential information regarding services rendered. The 2020 preliminary TAF release 1 data are nearly identical to the publicly available preliminary TAF Research Identifiable Files (RIFs), which became available in November 2021.

The results reported in this SUD Data Book are based on beneficiaries ages 12 and older<sup>11</sup> who were enrolled in Medicaid for at least one day in 2020 and had full or comprehensive benefits. We excluded beneficiaries who were enrolled only in CHIP throughout 2020. Because the TAF data provide information on the services Medicaid beneficiaries receive, we identified beneficiaries as having a SUD based on Medicaid claims and managed care encounter records. With these data, it is not possible to identify beneficiaries with a SUD who did not receive Medicaid-covered services for their condition, including, for dually eligible individuals, Medicare-covered services.

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<sup>7</sup> The SUPPORT Act also requires that the report include, to the extent available, data for Puerto Rico, the Virgin Islands, Guam, the Northern Mariana Islands, and American Samoa. At the time of the analysis, Guam, the Northern Mariana Islands, and American Samoa were not submitting T-MSIS data and therefore are not included in this SUD Data Book. Puerto Rico and the Virgin Islands are submitting T-MSIS data and therefore are included in this SUD Data Book.

<sup>8</sup> The preliminary version of the 2020 TAF data has at least six months of runout for each month of the year. Although the data are not fully mature because states continue to submit service use records, the vast majority of records were received within six months after the service end date. For information on the quality and completeness of the version of the TAF used for this report, please refer to Appendix B.

<sup>9</sup> <https://www.cms.gov/newsroom/press-releases/cms-releases-medicaid-and-chip-t-msis-data-provide-public-access-and-transparency-program>.

<sup>10</sup> Tennessee had a very low number of Medicaid claims that linked to the enrollment file, which made it difficult to correctly identify not only beneficiaries treated for a SUD but also the services they received. Tennessee will be included in future versions of the SUD Data Book if its data are of sufficient completeness and quality. More information on TAF data quality is available in Appendix B.

<sup>11</sup> The SUD Data Book excludes Medicaid beneficiaries ages 11 and younger on December 31, 2020, and newborns with fetal alcohol syndrome and neonatal abstinence syndrome, neither of which, by definition, would qualify as a SUD per the *Diagnostic Statistical Manual of Mental Disorders-V*.

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## I. INTRODUCTION

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On October 24, 2018, the Substance Use-Disorder Prevention that Promotes Opioid Recovery and Treatment (SUPPORT) for Patients and Communities Act (P.L. 115-271) (hereafter, the SUPPORT Act) was signed into law to address, among other issues, the pressing need for substance use disorder (SUD) treatment and prevention services, with a focus on treatment for an opioid use disorder (OUD).

Section 1015(a)(1) of the SUPPORT Act directs the U.S. Department of Health and Human Services (HHS) to publish a “report with comprehensive data on the prevalence of substance use disorders in the Medicaid beneficiary population and services provided for the treatment of substance use disorders under Medicaid,” referred to here as the Transformed Medicaid Statistical Information System (T-MSIS) SUD Data Book.<sup>12</sup> This document is the fourth annual SUD Data Book, and includes, to the extent possible, the required content as set forth in section 1015(a)(2) of the SUPPORT Act:

(A) The number and percentage of individuals enrolled in the State Medicaid plan or waiver of such plan in each of the major enrollment categories (as defined in a public letter from the Medicaid and CHIP Payment and Access Commission to the Secretary) who have been diagnosed with a substance use disorder and whether such individuals are enrolled under the State Medicaid plan or a waiver of such plan, including the specific waiver authority under which they are enrolled, to the extent available.<sup>13</sup>

- Of the approximately 56 million Medicaid beneficiaries ages 12 and older with full or comprehensive benefits in the states included in this analysis, 4.6 million, or 8 percent, were treated for a SUD in 2020.
- Adult beneficiaries in the expansion adult enrollment category (Medicaid expansion) accounted for the largest share of beneficiaries treated for a SUD (43 percent) in 2020, followed by those in the aged, blind, or disabled enrollment category (29 percent) and the adult enrollment category (21 percent).<sup>14</sup> Of the states that did not expand Medicaid, the largest share of beneficiaries treated for a SUD were in the aged, blind, or disabled enrollment category, with the exception of Wisconsin, whose largest share of beneficiaries treated for a SUD were in the adult enrollment category. For full results, see Section A.

(B) A list of the substance use disorder treatment services by each major type of service, such as counseling, medication-assisted treatment, peer support, residential treatment, and

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<sup>12</sup> Appendix A includes a copy of the sections of the law that correspond to the SUD Data Book.

<sup>13</sup> In a letter to the HHS secretary, dated March 21, 2019, the Medicaid and CHIP Payment and Access Commission (MACPAC) defined several enrollment categories for stratifying the data, including some special populations that cannot currently be supported by the data because the number of beneficiaries in the enrollment categories is too small or there are data quality issues. The special populations not included in this SUD Data Book are children who qualify for Medicaid on the basis of child welfare assistance, dually eligible beneficiaries (Medicare and Medicaid) younger than 65, and older adolescents. In addition, the quality of the 2020 TAF data are not good enough to support the reporting of beneficiaries by state Medicaid plan or waiver authority. See Appendix B for TAF data quality issues, by state.

<sup>14</sup> Eligibility group is missing for more than 10 percent of the beneficiaries with a SUD in Kansas, North Dakota, Oregon, and West Virginia, which may affect the results for these states.

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inpatient care, for which beneficiaries in each State received at least 1 service under the State Medicaid plan or a waiver of such plan.

- Most states provided the following services to at least one Medicaid beneficiary: case management, community support, consultation, counseling, detoxification, emergency services, inpatient care, intervention services, medication-assisted treatment (MAT), medication management, observation care, partial hospitalization, peer supports, physician services, pharmacotherapy, screening and assessment, or services from a treatment program. For full results, see Section B.

(C) The number and percentage of individuals with a substance use disorder diagnosis enrolled in the State Medicaid plan or waiver of such plan who received substance use disorder treatment services under such plan or waiver by each major type of service under subparagraph (B) within each major setting type, such as outpatient, inpatient, residential, and other home-based and community-based settings.<sup>15</sup>

- Acute care services, which includes inpatient care and emergency services, were the most common SUD treatment service received by Medicaid beneficiaries treated for a SUD. Forty-two percent of beneficiaries received emergency services (the most common SUD treatment service among beneficiaries treated for a SUD), followed by inpatient care (40 percent).
- Approximately three-quarters (78 percent) of the Medicaid beneficiaries treated for a SUD received at least one service in an outpatient setting in 2020, and 42 percent received at least one service in an inpatient setting. A much smaller percentage of beneficiaries treated for a SUD received services in a residential setting (6 percent) or a home- or community-based setting (4 percent and 2 percent, respectively). For full results, see Section C.

(D) The number of services provided under the State Medicaid plan or waiver of such plan per individual with a substance use disorder diagnosis enrolled in such plan or waiver for each major type of service under subparagraph (B).

- Beneficiaries who were treated for a SUD and received counseling services attended an average of 10 sessions in 2020. Those who received inpatient care for a SUD received an average of 10 days of inpatient care over the course of the year. Beneficiaries who received MAT for a SUD received medication for an average of 131 days, or more than 4 months' worth. Beneficiaries who received observation care for a SUD received this type of care for an average of almost four days during 2020, and those who received partial hospitalization services for a SUD received an average of 16 days of these services. For full results, see Section D.

(E) The number and percentage of individuals enrolled in the State Medicaid plan or waiver, by major enrollment category, who received substance use disorder treatment through a

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<sup>15</sup> We present tabulations by service setting and type separately to avoid data quality issues related to examining cross-tabulations of multiple variables simultaneously.



Medicaid managed care entity, a fee-for-service payment model, or an alternative payment model, to the extent available.<sup>16</sup>

- Seventy-four percent of the Medicaid beneficiaries treated for a SUD received at least one SUD service through a managed care organization in 2020, and 40 percent of the Medicaid beneficiaries treated for a SUD received at least one service through a state's fee-for-service (FFS) system in 2020. For full results, see Section E.

(F) The number and percentage of individuals with a substance use disorder who receive substance use disorder treatment services in an outpatient or home-based and community-based setting after receiving treatment in an inpatient or residential setting, and the number of services received by such individuals in the outpatient or home-based and community-based setting.<sup>17</sup>

- Of the Medicaid beneficiaries who were treated for a SUD and received SUD services in an inpatient or a residential setting during 2020, 29 percent received at least one service in an outpatient or home- or community-based setting within 30 days of discharge, and 20 percent received two or more services in these settings. For full results, see Section F.

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<sup>16</sup> We do not present results for alternative payment models because it is not currently possible to identify alternative payment models in the TAF data.

<sup>17</sup> Due to variation in service types and timing and patterns of care, we could not consistently count the number of outpatient or home- or community-based services. We therefore present the number and percentage of Medicaid beneficiaries who received at least one or two or more outpatient or home- or community-based services after receiving services in an inpatient or residential setting during 2020.

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## II. BACKGROUND

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Substance use disorders are characterized by a problematic pattern of alcohol and/or drug use leading to clinically significant impairment or distress as manifested by more than one symptom, such as difficulty controlling use; risk of self-harm; withdrawal; social or interpersonal problems; or failure to meet major responsibilities at work, school, or home (American Psychiatric Association 2013). In 2020, approximately 40.3 million Americans ages 12 and older needed treatment for a SUD, but only about 2.6 million (or 6.5 percent) received treatment (SAMHSA 2021a).<sup>18</sup> The mortality associated with SUD has become a major public health concern, with nearly 92,000 deaths nationwide from a drug overdose in 2020—a 31 percent increase from 2019 (Hedegaard et al. 2021). Additionally, people with SUD often have one or more physical or mental health conditions, which further contributes to the public health concern (NIDA, 2022).

The COVID-19 pandemic created conditions which exacerbated SUDs for some individuals and increased the risk of new SUDs: 13.3 percent of adults surveyed reported beginning or increasing substance use to cope with the stress of the COVID-19 pandemic (Czeisler et al. 2020, GAO 2021). Individuals with a SUD have also been at increased risk of adverse outcomes during the COVID-19 pandemic. Research using electronic health record data has demonstrated that individuals with OUD, tobacco use disorder (TUD), those who were diagnosed with a SUD within the last year, and individuals who were Black were at the highest risk of contracting COVID-19, and individuals with a SUD who contracted COVID-19 had worse health outcomes than those without a SUD (Wang et al. 2021). Survey data collected by the Addiction Policy Forum during April and May 2020 showed that individuals with a history of polysubstance use reported greater challenges in accessing treatment, including telehealth services, and that 14 percent of individuals in SUD treatment were unable to continue receiving treatment because of the pandemic (Hulsey et al. 2020). During the same time period that individuals with a SUD were experiencing increased risk of adverse health outcomes due to the COVID-19 PHE, overall Medicaid enrollment increased, allowing more individuals with a SUD to be eligible to receive SUD treatment through Medicaid. The increase in the number of Medicaid beneficiaries overall was linked to changes in Medicaid eligibility renewal practices in response to the COVID-19 PHE.

The initial months of the COVID-19 pandemic and COVID-19 PHE also strained the SUD care system. Social distancing requirements, increased costs for protective equipment, patient testing, and staff time, coupled with declines in revenue from decreased service provision, contributed to many SUD providers reducing operations and closing programs.<sup>19</sup> To address these challenges, the Centers for Medicare & Medicaid Services (CMS) issued a set of blanket waivers to offer Medicaid providers flexibility in delivering care, including waiving some requirements related to discharge planning, staffing, and prior authorization, pausing some

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<sup>18</sup> These counts reported by SAMHSA exclude individuals with tobacco use disorder (TUD) diagnoses. Tobacco use is included in the definition of a SUD in the Data Book. The estimates reported by SAMHSA in the National Survey on Drug Use and Health (NSDUH) in 2020 for substance use disorder (SUD) are based on criteria from the Diagnostic and Statistical Manual of Mental Disorders, 5th edition. SUD and related estimates are not comparable between 2020 and prior years of NSDUH, because prior years' estimates were based on DSM-IV criteria.

<sup>19</sup> <https://www.nga.org/wp-content/uploads/2020/07/NGA-Issue-Brief-SUD-Treatment-Access-COVID-19.pdf>

provider enrollment activities, and allowing Medicaid providers to deliver care to beneficiaries in other states in which the provider was not licensed.<sup>20</sup> At the same time, as required by the SUPPORT Act, CMS also expanded telehealth access for Medicare—an action replicated across many state Medicaid programs as states introduced a range of changes to telehealth policies.<sup>21</sup>

Several provisions of the SUPPORT Act, many of which are intended to enhance access to SUD treatment services, took effect during 2020. Effective January 1, 2020, Medicare expanded coverage to Opioid Treatment Programs (OTPs) that provide MAT, among other services, to beneficiaries with OUD, as required by section 2005 of the SUPPORT Act.<sup>22</sup> In April 2020, CMS published guidance to fulfill requirements of section 1009(b)(1) of the SUPPORT Act. This guidance outlines state options for SUD treatment through telehealth for assessment, counseling, medication management, and MAT to fulfill requirements of section 1009(b)(1) of the SUPPORT Act.<sup>23</sup> This guidance coincided with policy changes by the U.S. Department of Justice Drug Enforcement Administration (DEA) to extend allowances for MAT providers to prescribe medication for MAT through telehealth without a prior in-person evaluation.<sup>24</sup> On December 30, 2020, CMS released guidance to states on section 1006(b) of the SUPPORT Act, which required states to provide Medicaid coverage of MAT to treat OUD. The guidance also described available opportunities for increasing treatment options for SUD generally.<sup>25</sup> CMS provided guidance for states interested in establishing SUD health homes in December 2020, as required under section 1006(a)(2) of the SUPPORT Act.<sup>26</sup>

Other provisions of the SUPPORT Act that took effect in 2019 continued throughout 2020. In September 2019, CMS awarded planning grants to 15 states to increase their provider capacity to deliver SUD treatment (section 1003), with plans to release additional funding opportunities in 2021 for the states who received planning grants.<sup>27, 28, 29</sup> The SUPPORT Act created several opportunities to address opioid misuse and other SUDs through other federal agencies: under Medicare-related provisions, the SUPPORT Act authorized payments to federally qualified health centers and rural health clinics to offset the cost of training providers in MAT (section

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<sup>20</sup> <https://www.cms.gov/files/document/summary-covid-19-emergency-declaration-waivers.pdf>.

<sup>21</sup> <https://www.macpac.gov/publication/changes-in-medicaid-telehealth-policies-due-to-covid-19-catalog-overview-and-findings/>.

<sup>22</sup> <https://www.cms.gov/newsroom/fact-sheets/finalized-policy-payment-and-quality-provisions-changes-medicare-physician-fee-schedule-calendar>.

<sup>23</sup> <https://www.medicaid.gov/sites/default/files/2020-04/cib040220.pdf>.

<sup>24</sup> [https://www.deadiversion.usdoj.gov/GDP/\(DEA-DC-022\)\(DEA068\)%20DEA%20SAMHSA%20buprenorphine%20telemedicine%20\(Final\)%20+Esign.pdf](https://www.deadiversion.usdoj.gov/GDP/(DEA-DC-022)(DEA068)%20DEA%20SAMHSA%20buprenorphine%20telemedicine%20(Final)%20+Esign.pdf).

<sup>25</sup> <https://www.medicaid.gov/federal-policy-guidance/downloads/sho20005.pdf>.

<sup>26</sup> <https://www.medicaid.gov/sites/default/files/2020-12/best-practices-health-homes-support-act-section-1006a.pdf>.

<sup>27</sup> <https://www.medicaid.gov/medicaid/benefits/behavioral-health-services/substance-use-disorder-prevention-promotes-opioid-recovery-and-treatment-patients-and-communities-support-act-section-1003/index.html>.

<sup>28</sup> The 15 states with planning grants through section 1003 of the SUPPORT Act for expanding SUD provider capacity are Alabama, Connecticut, Delaware, the District of Columbia, Illinois, Indiana, Kentucky, Maine, Michigan, Nevada, New Mexico, Rhode Island, Virginia, Washington, and West Virginia. Of these states, Connecticut, Delaware, Illinois, Nevada, and West Virginia received further support for SUD projects in 2021.

<sup>29</sup> In addition to the states with planning grants through section 1003 of the SUPPORT Act for expanding SUD provider capacity, in 2021 CMS awarded the following states with enhanced federal reimbursement for Medicaid expenditures for substance use disorder treatment and recovery services: Connecticut, Delaware, Illinois, Nevada, and West Virginia

6083), reauthorized grants to train first responders<sup>30</sup> (section 7002), and created various opportunities to increase safe drug disposal (sections 3032, 3222, 3252, and 6103). Grants have also been made to increase access to long-term recovery supports (section 7151).<sup>31</sup>

CMS allowed states to expand access to a comprehensive array of SUD treatment services including medication assisted treatment, intensive outpatient programs as well as services in settings that qualify as Institutions for Mental Diseases (IMDs) that are as a result ordinarily excluded from Medicaid coverage with its section 1115 demonstration authority.<sup>32</sup> The section 1115 SUD demonstrations also encourage states to increase SUD provider capacity; use evidence-based, SUD-specific patient placement criteria; improve access to the continuum of SUD care; implement evidence-based nationally recognized program standards to establish provider qualifications in residential settings; and improve care coordination between levels of care (CMS 2017). CMS authorizes states under section 1115(a)(2) of the Social Security Act to receive federal financial participation (FFP) in state expenditures for which FFP would otherwise not be available.<sup>33</sup> The IMD exclusion ordinarily prohibits FFP for expenditures associated with residential treatment in IMDs for individuals.<sup>34</sup> As of the end of 2020, 29 states had active section 1115 Medicaid demonstration projects to help improve access to and quality of SUD treatment along the continuum of care.<sup>35, 36</sup> As of the end of 2020, CMS had approved 31 SUD demonstrations.<sup>37</sup>

The SUPPORT Act supplements efforts already underway to provide services to Medicaid beneficiaries with a SUD. In addition to waiving the IMD exclusion through 1115 demonstrations, according to the Medicaid and CHIP Managed Care Final Rule (42 C.F.R. §438.6(e)), states may use federal Medicaid funds for capitation payments to managed care plans

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<sup>30</sup> <https://www.samhsa.gov/grants/grant-announcements/ti-19-004>.

<sup>31</sup> <https://www.samhsa.gov/grants/grant-announcements/ti-19-003>.

<sup>32</sup> <https://www.medicaid.gov/sites/default/files/federal-policy-guidance/downloads/smd17003.pdf>.

<sup>33</sup> An IMD is a hospital, nursing facility, or other institution with more than 16 beds primarily engaged in providing diagnoses, treatments, or care of persons with mental diseases, including medical attention, nursing care, and related services (section 1905(i) of the Social Security Act [the Act]). Medicaid coverage of services provided in IMDs is governed by specific rules for federal funding under section 1905(a) of the Act. The facilities cannot receive federal funding for services provided to anyone ages 21 to 64 (subdivision B following section 1905(a)(30) of the Act). States have the option to cover IMD services for people ages 21 and younger (section 1905(a)(16) of the Act, C.F.R. §440.160), and ages 65 and older (section 1905(a)(14) of the Act, 42 C.F.R. §440.140). According to the President's Commission on Combating Drug Addiction and the Opioid Crisis (2017), removing the federal IMD exclusion could eliminate critical barriers to SUD treatment and expand treatment capacity.

<sup>34</sup> Section 5052 of the SUPPORT Act creates a new limited exception to the IMD exclusion for individuals ages 21 to 64 with at least one SUD. Section 5052 amended the Act and added a new subsection (1) to section 1915, which permits states to provide medical assistance for up to 30 days annually per qualifying beneficiary beginning on October 1, 2019, and ending on September 30, 2023. Starting on October 1, 2019, states can amend their Medicaid state plans to include coverage provided to Medicaid beneficiaries residing in IMD facilities for up to 30 days annually. Section 1012 of the SUPPORT Act creates a new limited exception to the IMD exclusion as well. Specifically, section 1012(a) states that for a woman who is eligible on the basis of being pregnant (and up to 60 days postpartum), who is a patient in an IMD for purposes of receiving treatment for a SUD, who is either enrolled under the state plan immediately before becoming a patient in the IMD, or who becomes eligible to enroll while a patient in an IMD, the IMD exclusion shall not be construed to prohibit federal financial participation for medical assistance for items and services provided outside of the IMD to such women.

<sup>35</sup> The 29 states are Alaska, California, District of Columbia, Delaware, Idaho, Illinois, Indiana, Kansas, Kentucky, Louisiana, Maryland, Massachusetts, Michigan, Minnesota, Nebraska, New Hampshire, New Jersey, New Mexico, North Carolina, Ohio, Oklahoma, Pennsylvania, Rhode Island, Utah, Vermont, Virginia, Wisconsin, Washington, and West Virginia.

<sup>36</sup> <https://www.medicaid.gov/medicaid/section-1115-demonstrations/1115-substance-use-disorder-demonstrations/section-1115-demonstrations-substance-use-disorders-serious-mental-illness-and-serious-emotional-disturbance/index.html>.

<sup>37</sup> In addition to the states with active section 1115 SUD demonstrations in 2020, the additional states with approved demonstrations in 2020 are Colorado and Maine.

that cover IMD services in lieu of other services covered under the state plan for up to 15 days per month.<sup>38</sup> In 2018, CMS announced the Maternal Opioid Misuse (MOM) Model, which provides resources to states to support delivery system transformation for pregnant and postpartum Medicaid beneficiaries with OUD,<sup>39</sup> and the Integrated Care for Kids (InCK) Model, which provides resources to states to improve identification and treatment of behavioral and physical health needs of children enrolled in Medicaid.<sup>40, 41</sup>

Other federal and state initiatives under Medicaid also support effective SUD treatment. Some states are focusing on integrating physical and behavioral healthcare to improve care for beneficiaries with a SUD. Dozens of states are also implementing innovative approaches to improving service delivery and reforming payment models through accountable care organizations (ACOs), certified community behavioral health clinics (CCBHCs),<sup>42</sup> Health Homes, and patient-centered medical homes, among others. In 2020, CMS provided guidance to states on prevention, screening, and treatment of infants with neonatal abstinence syndrome (NAS), and guidance on identifying infants with NAS in claims data, and in May 2020, published a report on utilizing telehealth to support treatment of SUD in pediatric Medicaid beneficiaries.<sup>43, 44</sup> CMS has also worked with states through the Medicaid Innovation Accelerator Program, an initiative designed to address healthcare costs and quality in Medicaid for certain target populations, such as beneficiaries with a SUD. In November 2020, CMS published a report on utilizing Medicaid to support housing-related services for beneficiaries with SUD.<sup>45</sup>

Medicaid beneficiaries may also benefit from other federal initiatives, such as a grant program sponsored by the Health Resources and Services Administration (HRSA) to reduce opioid use. In 2020, \$91 million in implementation grants was awarded to 91 community-based grantees across 38 states to support access to SUD prevention, treatment, and recovery services in rural areas through HRSA's Rural Communities Opioid Response Program (RCORP).<sup>46, 47</sup> An additional \$10 million in RCORP funds were awarded as planning grants to 50 community-based grantees in 32 states; these awards supported capacity building to enhance the provision of SUD

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<sup>38</sup> <https://www.govinfo.gov/content/pkg/FR-2016-05-06/pdf/2016-09581.pdf>.

<sup>39</sup> <https://innovation.cms.gov/innovation-models/maternal-opioid-misuse-model>.

<sup>40</sup> <https://innovation.cms.gov/innovation-models/integrated-care-for-kids-model>.

<sup>41</sup> The six states that received funding through the InCK Model in 2020 are Connecticut, Illinois, North Carolina, New Jersey, New York, and Ohio.

<sup>42</sup> <https://www.samhsa.gov/grants/grant-announcements/sm-18-019>.

<sup>43</sup> <https://www.medicaid.gov/sites/default/files/2020-09/cib090420.pdf>.

<sup>44</sup> <https://www.medicaid.gov/sites/default/files/2020-08/rte-reducing-barriers-may-2020.pdf>.

<sup>45</sup> <https://www.medicaid.gov/sites/default/files/2020-11/rte111320-1017.pdf>.

<sup>46</sup> The states that received implementation grants through HRSA's Rural Communities Opioid Response Program (RCORP) in 2020 are Alabama, Arkansas, Arizona, California, Colorado, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kentucky, Louisiana, Massachusetts, Maryland, Maine, Michigan, Minnesota, Missouri, Mississippi, Montana, North Carolina, New Mexico, New York, Ohio, Oklahoma, Oregon, Pennsylvania, South Carolina, South Dakota, Texas, Utah, Virginia, Vermont, Washington, West Virginia, and Wisconsin.

<sup>47</sup> <https://www.hrsa.gov/rural-health/rcorp/implementation/fy20-awards>.

services in rural communities.<sup>48, 49</sup> HRSA awarded nearly \$15 million to 30 community-based grantees in 21 states in a newly established program to improve care for pregnant individuals, mothers, and their children.<sup>50, 51</sup> HRSA also supported the provider workforce by awarding 18 grants of \$150,000 each to Centers of Excellence to expand the telehealth workforce during the COVID-19 pandemic,<sup>52</sup> awarding \$20.1 million to 44 Addiction Medicine Fellowship recipients to train addiction specialists through accredited addiction medicine and psychiatry programs,<sup>53</sup> and \$12.5 million to 28 Opioid-Impacted Family Support recipients to support training programs for peer support specialists and other behavioral health professionals who work with families impacted by SUD.<sup>54</sup>

The Substance Abuse and Mental Health Services Administration (SAMHSA) awarded \$110 million in emergency funding to support SUD treatment and behavioral healthcare during the COVID-19 pandemic.<sup>55</sup> In March 2020, SAMHSA announced \$1.5 billion in funding through the State Opioid Response and Tribal Opioid Response programs, which fund community-level approaches to SUD treatment,<sup>56, 57</sup> and provided an additional \$15 million for SUD and other behavioral health services to tribal communities through Tribal Behavioral Health grants in response to the COVID-19 pandemic.<sup>58</sup> Additionally in 2020, the CCBHC program was awarded its appropriated \$200 million plus an additional \$250 million in emergency funding to address behavioral health during the COVID-19 pandemic.<sup>59</sup>

In addition to these federal efforts, 45 bills were enacted in 21 states in 2020 to improve SUD treatment (National Conference of State Legislatures 2022).

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<sup>48</sup> The 32 states and territories that received RCORP planning grants from HRSA in 2020 are Alabama, Arkansas, Arizona, California, Colorado, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Kansas, Kentucky, Maine, Michigan, Minnesota, Missouri, Mariana Islands, North Carolina, New York, Nebraska, Ohio, Oklahoma, Oregon, Pennsylvania, Puerto Rico, Tennessee, Texas, Virginia, Washington, Wisconsin, and West Virginia.

<sup>49</sup> <https://www.hrsa.gov/rural-health/rcorp/planning/fy20-awards>.

<sup>50</sup> The states that received RCORP grants to improve care for pregnant mothers and their children from HRSA in 2020 are California, Colorado, Illinois, Indiana, Maryland, Michigan, Minnesota, Missouri, New Hampshire, New Mexico, New York, North Carolina, Ohio, Oklahoma, Pennsylvania, South Carolina, South Dakota, Tennessee, Texas, Utah, West Virginia, and Wisconsin.

<sup>51</sup> <https://www.hrsa.gov/rural-health/rcorp/neonatal-abstinence-syndrome>.

<sup>52</sup> <https://bhw.hrsa.gov/funding/covid19-telehealth-fy2020-awards/centers-excellence>.

<sup>53</sup> <https://bhw.hrsa.gov/funding/addiction-medicine-fellowship-fy2020-awards>.

<sup>54</sup> <https://bhw.hrsa.gov/funding/opioid-impacted-family-support-fy2020-awards>.

<sup>55</sup> <https://www.samhsa.gov/newsroom/press-announcements/202004200430>.

<sup>56</sup> <https://www.samhsa.gov/newsroom/press-announcements/202003200500>.

<sup>57</sup> <https://www.samhsa.gov/grants/grant-announcements/ti-20-012>.

<sup>58</sup> <https://www.samhsa.gov/newsroom/press-announcements/202005011645>.

<sup>59</sup> <https://www.samhsa.gov/newsroom/press-announcements/202004271200>.

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### III. DATA

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Each state reports data on Medicaid and CHIP enrollment, service utilization, payment, providers, and other information on a monthly basis through T-MSIS. The size, complexity, and frequency of updates to T-MSIS data make the files very challenging to use for analytic purposes. To facilitate use of these data, CMS creates a series of data sets optimized for analytics and basic research, known as the T-MSIS Analytic Files, or TAF. The information in this SUD Data Book is derived from five research-ready files in the 2020 preliminary TAF release 1: annual Demographic and Eligibility (DE), inpatient (IP), long-term care (LT), other services (OT), and pharmacy (RX) files. The 2020 preliminary TAF release 1 data are nearly identical to the publicly available preliminary TAF Research Identifiable Files (RIFs), which became available in November 2021. The preliminary version of the 2020 TAF data has at least six months of runout for each month of the year. Once the TAF data for a year are fully mature and include at least 12 months of runout, CMS releases the corresponding final RIF.<sup>60</sup>

The COVID-19 pandemic and COVID-19 PHE may have impacted the completeness of TAF claims data. Ordinarily, although the data are not fully mature because states continue to submit service use records, the vast majority of records have been received by six months after the end of the calendar year, with pharmacy records nearly complete within 6 months and more complex inpatient and long-term care records requiring additional months to reach completeness. Due to staffing shortages and office closures, especially at the beginning of the COVID-19 PHE, the rate at which providers submitted service use records to the state, and the rate at which states submitted service use records to CMS, may have slowed during the COVID-19 PHE. Additionally, evidence suggests Medicaid beneficiaries postponed care during the early months of the year in response to the COVID-19 PHE.<sup>61</sup> Increased processing times and beneficiary's postponement of service utilization during 2020 may result in an underestimation of the number of beneficiaries with a SUD.

T-MSIS and the TAF represent a national data set for Medicaid and CHIP. T-MSIS data are continually improving in completeness and quality as states receive and respond to communications about data quality issues, including during the period when the analytic work presented in this report was conducted. Only Tennessee continued to have severe data quality issues when this SUD Data Book was compiled. The state had a very low number of Medicaid claims linking to the enrollment file, which made it difficult to correctly identify not only beneficiaries who were treated for a SUD but also the services they received. For this reason, Tennessee is not included in the analyses presented in this SUD Data Book. Numerous less severe data quality issues related to enrollment, claims volume, and diagnosis code did not exclude other states from the analysis but might affect the validity of the results. These data quality issues include the following, and they are organized by state in Appendix Table B.1:

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<sup>60</sup> Due to lags in the submission of service use records and improvements in state data quality since the initial submission of these data, CMS reran the 2020 TAF in February 2022 and released the updated data in April 2022, after the data for this report were generated.

<sup>61</sup> <https://www.cms.gov/newsroom/press-releases/cms-data-shows-vulnerable-americans-forgoing-mental-health-care-during-covid-19-pandemic>.

- Missing information about Medicaid enrollment or eligibility for full or comprehensive Medicaid benefits, which may result in inaccurate estimates of the number of Medicaid beneficiaries eligible for SUD services.
- An unexpectedly low volume of claims that link to enrollment records, which may result in an underestimate in the number of Medicaid beneficiaries treated for a SUD and the services they received.
- An unexpectedly low or high volume of claims compared with other states. A low volume of claims may result in an underestimate of the number of beneficiaries treated for a SUD and the services they received. The implications of a high volume of claims are less clear due to the various methods by which this may occur, including the submission of duplicate claims, the placement of claims in the incorrect file, or claim lines submitted as claim headers, among other possibilities.
- Claims that are missing information, which can result in an underestimate of the number of Medicaid beneficiaries treated for a SUD and the services they received, particularly when the information is missing for key variables such as diagnosis code, which is an essential component for identifying beneficiaries with a SUD.

Additional information on the completeness and quality of TAF data is available online in the *DQ Atlas* (CMS n.d.). CMS continues to work with states to improve the quality of their underlying T-MSIS data. States have access to data quality tools for this purpose to identify, track, and prioritize potential T-MSIS data quality issues. CMS is also providing one-on-one technical assistance to each state to improve states' T-MSIS data submissions. Through this ongoing technical assistance, states and CMS are working to resolve priority issues.<sup>62</sup> CMS also releases guidance documents to clarify reporting requirements when states have identified challenges in reporting information.<sup>63</sup> We expect future annual SUD Data Books to include more complete and accurate results as states' T-MSIS submissions improve and as they continue to address data quality issues.

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<sup>62</sup> CMS tracks and publishes state data quality issues related to a set of critical and high-priority Data Quality checks under the T-MSIS Outcomes Based Assessment framework. This information is available at <https://www.medicaid.gov/medicaid/data-systems/macbis/transformed-medicaid-statistical-information-system-t-msis/index.html>.

<sup>63</sup> T-MSIS coding guidance is available at <https://www.medicaid.gov/medicaid/data-and-systems/macbis/tmsis/tmsis-blog/index.html>.

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## IV. METHODS

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The results reported in this SUD Data Book are based on beneficiaries ages 12 and older enrolled in Medicaid for at least one day in 2020 and receiving full or comprehensive benefits. The SUPPORT Act focuses on “individuals enrolled under the State Medicaid plan or waiver of such plan,” so the SUD Data Book excludes Medicaid Expansion CHIP and separate CHIP beneficiaries enrolled in only these programs throughout 2020. In general, we identified a beneficiary as having a SUD if he or she had in 2020 (1) at least one qualifying inpatient claim for a SUD, (2) two outpatient or long-term care claims for SUD treatment on different dates, or (3) one pharmacy claim for MAT for a SUD (see Appendix B for details).<sup>64</sup> The substance use categories include alcohol; caffeine; cannabis; hallucinogens, hypnotics and anxiolytics; inhalants; opioids; sedatives; stimulants; tobacco; and other unspecified or unknown substances. These categories are consistent with the 10 classes of drugs encompassed by SUD in the Diagnostic and Statistical Manual of Mental Disorders (5th ed.; DSM-5; American Psychiatric Association 2013). Once we identified beneficiaries who received treatment for a SUD, we grouped them into five enrollment categories (adults; children; pregnant women; aged, blind, disabled;<sup>65</sup> and expansion adults). We also provided a breakdown of beneficiaries who qualified for Medicaid on the basis of disability, by age group. We then examined the settings in which they received SUD services, the types and volume of services they received, and whether the services were delivered through a managed care entity or a state’s FFS system.<sup>66</sup>

This SUD Data Book does not identify all Medicaid beneficiaries who had a SUD in 2020 because the algorithm used to identify beneficiaries treated for a SUD is based on claims data. Therefore, it can identify only those beneficiaries treated for a SUD as part of a Medicaid- or CHIP-funded service.<sup>67</sup> Beneficiaries with a SUD often do not seek treatment because of factors such as the stigma associated with having a SUD and the difficulty of locating a treatment provider (Medicaid and CHIP Payment and Access Commission [MACPAC] 2017). The research literature indicates that fewer than one in five individuals with a SUD received treatment, and in 2020, 97.5 percent of individuals with a SUD who did not receive treatment at a speciality facility did not perceive any need for treatment (SAMHSA 2021a). Because this SUD Data Book reflects information provided by states for Medicaid beneficiaries who were treated for a SUD, our methods are therefore likely to underestimate the overall number of Medicaid beneficiaries with a SUD.

In 2020, two changes to the methodology of the SUD Data Book were made to update the identification of Medicaid beneficiaries with a SUD and the services they received: (1) the

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<sup>64</sup> This approach uses SUD Tool 1, Identifying Beneficiaries with a SUD (identification tool), developed for CMS’s Innovation Accelerator Program. The SUD Technical Specifications and SUD Reference Codes used in SUD Tool 1 are available at <https://www.medicaid.gov/medicaid/data-systems/macbis/medicaid-chip-research-files/transformed-medicaid-statistical-information-system-t-msis-analytic-files-taf/index.html>.

<sup>65</sup> The aged, blind, and disabled eligibility category refers to individuals eligible for Medicaid on the basis of being 65 or older, blind, or disabled, and includes those receiving supplemental security income (SSI) benefits. For a full list of Medicaid eligibility groups included in each enrollment category, see Appendix E.

<sup>66</sup> This approach is consistent with the methodology used in previous editions of the SUD Data Book (2017, 2018, and 2019).

<sup>67</sup> Beneficiaries enrolled in Medicaid for at least one day in 2020 could have had a CHIP-funded SUD service during the year.

method used to identify inpatient and long-term care services,<sup>68</sup> and (2) how claims for methadone prescriptions from the RX file were used to identify beneficiaries with a SUD.<sup>69</sup> To ensure results in Section G (Changes over time in key measures) are comparable from year to year, the 2019 results reported in this section were recalculated using the 2020 methodology and therefore may not exactly match results from the 2019 SUD Data Book.

In fall 2021, CMS developed the Federally Assigned Service Category for TAF,<sup>70</sup> which provides users with a method to identify and select records by service category across states. States are known to use different methods and criteria for assigning values to T-MSIS data elements that classify a claim by type of service, making it challenging to develop service categories that are uniform across states. Using the Federally Assigned Service Category in place of state-assigned values to classify claims by type of service will result in a more consistent and comparable set of type-of-service metrics across states. Beginning with the 2020 SUD Data Book, inpatient and long-term care claims will be identified based on type of bill code, billing provider taxonomy code, place of service code, and revenue center code values. In the 2017, 2018, and 2019 SUD Data Books, inpatient claims were identified as all claims on the IP file; long-term care claims were identified as all claims on the LT file. Because the type of claim is used to identify the number of beneficiaries with a SUD and the service settings where they receive treatment, this change is relevant for Tables A.1–A.7 and C.2.

To identify beneficiaries who were treated for a SUD, we first identified qualifying claims indicating treatment for a SUD as those that had (1) a diagnosis code indicating a SUD and (2) a relevant service code. We then determined whether a beneficiary had enough claims to be identified as having a SUD. The prior SUD Data Books allow beneficiaries to be identified as having a SUD based only on a prescription for methadone. However, this risks including beneficiaries who use methadone for purposes other than the treatment of a SUD, such as for pain relief. Only opioid treatment programs certified by SAMHSA are allowed to administer methadone for the treatment of a SUD.<sup>71</sup> Beginning in the 2020 SUD Data Book, claims for methadone from the RX file will be excluded from the method to identify beneficiaries with a SUD to avoid counting beneficiaries using methadone for reasons other than to treat a SUD. This change is relevant for identifying the number of beneficiaries with an OUD in Tables A.1, A.2, and Appendix tables D.1–D.11.

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<sup>68</sup> This change resulted in an addition of 4,000 beneficiaries treated for a SUD nationally, with state-specific changes ranging from no change in the majority of states to a 2.0 percent increase in Florida.

<sup>69</sup> This change resulted in approximately 10,000 fewer beneficiaries treated for a SUD, with state-specific changes ranging from no change in the majority of states to a 2.0 percent decrease in Hawaii.

<sup>70</sup> For more information on the Federally Assigned Service Category, see the related brief in the *DQ Atlas*: [https://www.medicaid.gov/dq-atlas/downloads/supplemental/5241\\_Fed\\_Assigned\\_Service\\_Cat.pdf](https://www.medicaid.gov/dq-atlas/downloads/supplemental/5241_Fed_Assigned_Service_Cat.pdf).

<sup>71</sup> <https://www.samhsa.gov/medication-assisted-treatment/become-accredited-opioid-treatment-program>.

## V. KEY FINDINGS

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- Of the approximately 56 million Medicaid beneficiaries ages 12 and older with full or comprehensive benefits who could be identified in the states included in this analysis,<sup>72</sup> 4.6 million, or 8 percent, were treated for a SUD in 2020 (see Appendix C for a comparison between these estimates and publicly available estimates for Medicare beneficiaries and commercially insured individuals).
- Approximately 1.6 million of the beneficiaries treated for a SUD in 2020 were treated for an OUD (OUD-specific tables are in Appendix D).
  - The percentage of Medicaid beneficiaries treated for a SUD decreased between 2019 and 2020 by 0.4 percentage points; the percentage treated for an OUD remained the same between 2019 and 2020, at 2.9 percent.
- Among the five enrollment categories assessed,<sup>73</sup> the highest proportion (43 percent) of beneficiaries treated for a SUD were covered by Medicaid through the expansion of benefits to adults under the authority of the Patient Protection and Affordable Care Act (P.L. 111-148 [ACA]), which requires coverage of SUD treatment services. The lowest proportion treated (excluding the beneficiaries for which the enrollment category is unknown) were eligible for Medicaid on the basis of being pregnant (less than 3 percent).<sup>74, 75</sup> In almost all states that did not expand Medicaid through the ACA, the largest share of beneficiaries treated for a SUD were eligible for Medicaid because they were aged, blind, or disabled.
- Forty-two percent of Medicaid beneficiaries treated for a SUD in 2020 (nearly 2 million beneficiaries) received emergency services—the most common SUD service provided during that year.
  - Approximately three-quarters (78 percent) of the beneficiaries treated for an OUD received MAT, and in all states and territories, more than 50 percent of the beneficiaries treated for an OUD received MAT. For more information on beneficiaries treated for OUD, see Appendix D.
  - The percentage of Medicaid beneficiaries treated for a SUD who received MAT increased from about 31.3 percent to 33.0 percent between 2019 and 2020. Fewer Medicaid beneficiaries treated for a SUD received emergency services in 2020 as compared to 2019 (a 2.6 percentage point decrease).

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<sup>72</sup> Tennessee was not included in these analyses because of a severe data quality issue. All numbers and percentages for the U.S. overall exclude Tennessee.

<sup>73</sup> These enrollment categories are adults; children; pregnant women; beneficiaries eligible on the basis of being aged, blind, or disabled; and expansion adults. More information about these groups is available in Section A of Chapter VI: Results.

<sup>74</sup> Slightly different U.S. totals across the tables are a function of differences in the need to suppress data because of small cell sizes from one table to the next.

<sup>75</sup> In most states, beneficiaries eligible for Medicaid on the basis of being pregnant do receive some SUD benefits, although they may not receive a specific pregnancy-related SUD benefit (MACPAC 2020).

- Approximately three-quarters (78 percent) of the Medicaid beneficiaries treated for a SUD received at least one service in an outpatient setting in 2020; 42 percent received at least one service in an inpatient setting during that year.
  - Beneficiaries treated for OUD received more outpatient services and fewer inpatient services than beneficiaries treated for other SUDs: Ninety-six percent of the Medicaid beneficiaries treated for an OUD received one or more services in an outpatient setting in 2020 compared to 78 percent of all Medicaid beneficiaries treated for a SUD; 27 percent of beneficiaries treated for an OUD received one or more services in an inpatient setting, compared to 42 percent of Medicaid beneficiaries treated for any SUD. For more information on beneficiaries treated for OUD, see Appendix D.
  - The percentage of Medicaid beneficiaries treated for a SUD who received services in an inpatient setting increased by 0.5 percentage points between 2019 and 2020. Similarly, the percentage of Medicaid beneficiaries treated for a SUD who received treatment in a residential setting increased by 0.3 percentage points from 2019 to 2020, from 5.2 percent to 5.5 percent; the percentage of Medicaid beneficiaries treated for a SUD in an outpatient setting decreased by 0.7 percentage points from 2019 to 2020, from 78.6 percent to 77.9 percent. Across states, there was large variation in the service setting in which Medicaid beneficiaries received treatment for a SUD.
- More than one in four beneficiaries (29 percent) treated for a SUD who received care in an inpatient or residential setting in 2020 received at least one outpatient or home- or community-based SUD service within 30 days of discharge.
  - Among the Medicaid beneficiaries treated for an OUD who received any SUD service in an inpatient or residential setting during 2020, 60 percent received at least one outpatient or home- or community-based service within 30 days of discharge; 49 percent of this same group received two or more of these services. For more information on beneficiaries treated for OUD, see Appendix D.
  - Nationally, the percentage of Medicaid beneficiaries treated for a SUD who received inpatient or residential treatment and an outpatient or a community-based follow-up within 30 days of discharge increased by 0.4 percentage points from 2019 to 2020, from 28.3 percent to 28.7 percent.



## VI. RESULTS

### A. The number and percentage of individuals enrolled in Medicaid who have a SUD

Section 1015(a)(2)(A) of the SUPPORT Act requires the SUD Data Book to provide information on the number and percentage of individuals enrolled in Medicaid who have been diagnosed with a SUD by major enrollment category. The data in Tables A.1 through A.7 address this section of the law. As required by the law, the reporting of these enrollment categories is largely consistent with those identified by MACPAC in its letter to HHS (see Appendix E for the composition of enrollment categories and Appendix F for a copy of the letter).<sup>76</sup>

This section presents the results of our analysis of the five major enrollment categories in Medicaid: adults; children; pregnant women; beneficiaries eligible on the basis of being aged, blind, or disabled; and expansion adults. We examined these enrollment categories in two ways. First, we looked at the number and percentage of Medicaid beneficiaries in each major enrollment category treated for a SUD (the denominator for these analyses being the number of Medicaid beneficiaries in each enrollment category; Table A.3). Next, we examined the number and percentage of Medicaid beneficiaries treated for a SUD who fell into each enrollment category (the denominator for these analyses being the number of Medicaid beneficiaries with a SUD; Table A.4). Using a similar table structure, we further examined the number of beneficiaries treated for a SUD by age group and whether they were eligible for Medicaid on the basis of a disability (Tables A.5 and A.6). Separately, we examined individuals dually eligible for Medicaid and Medicare who received Medicaid-financed treatment for a SUD (Table A.7). Although the SUPPORT Act does not specifically require data on OUD, this SUD Data Book includes a series of OUD-specific data tables in Appendix D, given the importance of the opioid epidemic.

#### Table A.1. Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by disorder

- Of the approximately 56 million Medicaid beneficiaries ages 12 and older with full or comprehensive benefits in the states included in this analysis, 4.6 million, or 8 percent, were treated for a SUD in 2020.<sup>77</sup>
- TUD was the most commonly treated SUD in Medicaid beneficiaries; 2.4 million, or more than 4 percent of Medicaid beneficiaries were treated for this condition. TUD was followed

<sup>76</sup> MACPAC suggests including a number of special populations, such as children who qualify for Medicaid on the basis of child welfare; full-benefit, dually eligible beneficiaries younger than 65; and older adolescents. These populations are either not identifiable in the data or too small to report separately. Additionally, MACPAC suggests including infants with neonatal abstinence syndrome. However, this Data Book follows the research literature and focuses only on Medicaid beneficiaries who have been treated for a SUD and are at least 12 years of age. This age group is consistent with the age range used in the National Survey of Drug Use and Health (<https://www.samhsa.gov/data/sites/default/files/reports/rpt35325/NSDUHFPRPDFWHTMLFiles2020/2020NSDUHFPR1PDFW102121.pdf>).

<sup>77</sup> Prevalence estimates based on these data should be considered lower-bound estimates that may underestimate the proportion of Medicaid beneficiaries with a SUD. These estimates do not include beneficiaries who had a SUD but did not seek treatment for the condition. Only those treated for a SUD and 12 or older in 2020 are included in our analyses.

by OUD (approximately 1.6 million, or 3 percent), polysubstance use disorder<sup>78</sup> (approximately 1.5 million, or 3 percent), and alcohol use disorder (approximately 1 million, or 2 percent).

- In 10 states, the proportion of Medicaid beneficiaries treated for an OUD was higher than the proportion of Medicaid beneficiaries treated for TUD (Connecticut, Delaware, Maine, Maryland, New Hampshire, New Mexico, Rhode Island, Utah, Vermont, and West Virginia).
- The proportion of Medicaid beneficiaries treated for a SUD varied considerably across states and territories, although some of this variation may be the result of differences in the quality of state T-MSIS submissions and coverage of SUD treatment. Ohio (16 percent), Maine, and Vermont (14 percent in each) had the highest proportion of Medicaid beneficiaries with a SUD; Puerto Rico and the Virgin Islands had the lowest proportion (about 1 percent in each).<sup>79</sup>

**Table A.2. Distribution of Medicaid beneficiaries treated for a SUD in 2020, by disorder**

- Of the approximately 4.6 million Medicaid beneficiaries treated for a SUD in 2020, 52 percent were treated for a TUD, and 35 percent were treated for an OUD.
- The other common disorders were alcohol use disorder, at 23 percent of Medicaid beneficiaries treated for a SUD in 2020; stimulant use disorder, at almost 15 percent; cannabis use disorder, at 14 percent; and all other SUDs, at 10 percent. Thirty-two percent of Medicaid beneficiaries were treated for more than one substance (polysubstance use disorder).
- In several states, 50 percent or more of the beneficiaries treated for any SUD were treated for an OUD (Delaware, Maine, Maryland, Massachusetts, New Hampshire, Rhode Island, Vermont, and West Virginia).
- The distribution of Medicaid beneficiaries treated for each condition varied widely across states and territories. Beneficiaries treated for alcohol use disorder accounted for more than 35 percent of beneficiaries treated for any SUD in Alaska, South Dakota, and the Virgin Islands, and as low as 13 percent of beneficiaries treated for any SUD in Alabama. Beneficiaries treated for TUD accounted for more than 70 percent of beneficiaries treated for any SUD in Alabama, Arkansas, and Mississippi, and as low as 21 percent of beneficiaries treated for any SUD in Rhode Island.

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<sup>78</sup> A polysubstance use disorder involves treatment for two or more disorders or a polysubstance diagnosis code. Because beneficiaries can be treated for more than one SUD, they may be captured in multiple SUD categories, including treatment for a polysubstance use disorder.

<sup>79</sup> Data quality issues, particularly a low volume of (i.e., potentially missing) claims, may partly explain the low proportion of Medicaid beneficiaries with a SUD in Puerto Rico and the Virgin Islands. The territories may also have different coverage policies for SUD than states.



**Table A.3. Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by major enrollment category**

Table A.3 presents the percentage of beneficiaries within each enrollment category who were treated for a SUD.<sup>80</sup> Table A.4 presents the distribution of beneficiaries treated for a SUD across the major Medicaid enrollment categories.

- Of the five major enrollment categories examined, beneficiaries eligible on the basis of being aged, blind, or disabled, and beneficiaries eligible due to Medicaid expansion (i.e., expansion adults<sup>81</sup>) had the highest prevalence of treatment for a SUD (10 percent in each).<sup>82</sup>
- The states with the highest prevalence of treatment for a SUD in the aged, blind, and disabled enrollment category were Maine and Massachusetts (15 percent in each), and Ohio (18 percent).
- The states with the highest prevalence of treatment for a SUD in the expansion adult enrollment category were Maine, Minnesota (18 percent in each), Ohio (21 percent), and Utah (20 percent).
- The next-highest enrollment category was the adult enrollment category (9 percent) and beneficiaries eligible on the basis of being pregnant (8 percent).

**Table A.4. Distribution of Medicaid beneficiaries treated for a SUD in 2020, by major enrollment category**

- Adult beneficiaries in the expansion adult enrollment category accounted for the largest share of beneficiaries treated for a SUD (43 percent) in 2020, followed by those in the aged, blind, or disabled enrollment category (29 percent), and the adult enrollment category (21 percent).
- Of the states that did not expand Medicaid, the largest share of beneficiaries treated for a SUD were in the aged, blind, or disabled enrollment category, with the exception of Wisconsin, whose largest share of beneficiaries treated for a SUD were in the adult enrollment category.
- In two states, the expansion adult enrollment category represented two-thirds or more of beneficiaries treated for a SUD (Illinois [76 percent] and Montana [66 percent]).
- In six states or territories, more than 10 percent of the beneficiaries treated for a SUD were enrolled in Medicaid on the basis of being pregnant: Mississippi (10 percent), Missouri (13

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<sup>80</sup> Slightly different totals across the tables are a function of differences in the need to suppress data because of small cell sizes from one table to the next.

<sup>81</sup> Virginia expanded Medicaid in 2019 but did not have any beneficiaries in the expansion adults in the 2020 data, indicating that the state's reporting has lagged behind the policy change. Idaho expanded Medicaid in 2020 but did not report any beneficiaries in the expansion adult enrollment category in 2020. Nebraska expanded Medicaid in October 2021 but the state reported some beneficiaries in the expansion adult enrollment category in 2020. Texas has not expanded Medicaid but did report a small number of expansion adult beneficiaries in 2020. These categorizations likely represent data errors.

<sup>82</sup> Eligibility group is missing for more than 10 percent of the beneficiaries with a SUD in Kansas, North Dakota, Oregon, and West Virginia, which may affect the results for these states.

percent), Oklahoma (13 percent), Texas (18 percent), Virgin Islands (13 percent), and Wyoming (14 percent).

- In two states, more than 10 percent of the beneficiaries treated for a SUD were enrolled in Medicaid on the basis of a child-related enrollment category: Arkansas (24 percent)<sup>83</sup> and South Dakota (16 percent).

**Table A.5. Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by age group and disability status**

Table A.5 presents the percentage of beneficiaries within each age group and disability status who were treated for a SUD. Table A.6 presents the distribution of beneficiaries treated for a SUD by age and disability status. For both tables, the number and percentage of beneficiaries older than 65 is not broken out by disability status because most beneficiaries older than 65 are dually eligible for Medicare and Medicaid.

- Sixteen percent of Medicaid beneficiaries ages 19 to 64 eligible on the basis of disability in 2020 were treated for a SUD, compared with 10 percent of others in this age group. This difference may be an underestimate for beneficiaries eligible for Medicaid on the basis of disability because Medicare may have financed some of the SUD services for beneficiaries in this group who also were eligible and enrolled in Medicare on the basis of disability through Social Security Disability Insurance benefits.
- Five percent of Medicaid beneficiaries ages 65 and older were treated for a SUD. This percentage may be an underestimate because Medicare may have financed SUD services for some of these beneficiaries.
- Less than 2 percent of children ages 12 to 18 eligible for Medicaid on the basis of disability were treated for a SUD in 2020; 1 percent of all other children ages 12 to 18 covered by Medicaid during the year were treated for a SUD.

**Table A.6. Distribution of Medicaid beneficiaries treated for a SUD in 2020, by age group and disability status**

- Adults ages 19 to 64 accounted for most beneficiaries treated for a SUD in 2020. Adults eligible on the basis of disability accounted for 23 percent of Medicaid beneficiaries treated for a SUD; others in this age group accounted for 68 percent of Medicaid beneficiaries treated for a SUD.
- In six states, the percentage of adults ages 19 to 64 and eligible for Medicaid on the basis of disability accounted for a larger share of beneficiaries treated for a SUD compared with adults not eligible on the basis of disability (Alabama, Georgia, Mississippi, Missouri, North Carolina, and Texas). None of these states had expanded Medicaid by January 1, 2020.

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<sup>83</sup> In Arkansas, 0.2 percent of all Medicaid beneficiaries treated for a SUD in 2020 were in the adult enrollment group; 24 percent of all Medicaid beneficiaries treated for a SUD in 2020 were in the child-related enrollment group. This pattern may indicate errors in the state's reporting of an individual's eligibility group.

- Adults 65 and older accounted for 6 percent of all Medicaid beneficiaries treated for a SUD in 2020; children not eligible on the basis of disability accounted for 2 percent of beneficiaries treated for a SUD.

**Table A.7. Number and percentage of Medicaid beneficiaries treated for a SUD in 2020 who were dually eligible for Medicare, and beneficiaries who were dually eligible and treated for a SUD<sup>84</sup>**

- Fourteen percent of Medicaid beneficiaries treated for a SUD in 2020 were dually eligible for Medicare. At 31 percent, Puerto Rico and Massachusetts had the highest proportion of dually eligible beneficiaries among those treated for a SUD in 2020, followed by Mississippi (30 percent). West Virginia had the lowest proportion of dually eligible beneficiaries among those treated for SUD, at less than 1 percent.
- Seven percent of dually eligible beneficiaries were treated for a SUD in 2020. The highest percentage of dually eligible beneficiaries treated for a SUD was 14 percent in Ohio and Massachusetts; the lowest was in Puerto Rico and the Virgin Islands (approximately 1 percent).

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<sup>84</sup> Table A.7 includes both (1) the percentage of beneficiaries treated for a SUD who were dually eligible out of the total number of Medicaid beneficiaries treated for a SUD in 2020, and (2) the percentage of dually eligible beneficiaries who were treated for a SUD out of the total number of dually eligible beneficiaries in 2020.

**Table A.1.i. Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by disorder<sup>85</sup>**

| State                 | Total number of Medicaid beneficiaries | Any SUD          |            | Alcohol          |            | Cannabis       |            | Opioids          |            |
|-----------------------|--|------------------|------------|------------------|------------|----------------|------------|------------------|------------|
|                       |  | Number           | Percent    | Number           | Percent    | Number         | Percent    | Number           | Percent    |
| <b>United States</b>  | <b>55,966,131</b>                      | <b>4,560,513</b> | <b>8.1</b> | <b>1,058,751</b> | <b>1.9</b> | <b>646,143</b> | <b>1.2</b> | <b>1,614,639</b> | <b>2.9</b> |
| Alabama               | 477,178                                | 47,599           | 10.0       | 6,363            | 1.3        | 6,084          | 1.3        | 10,906           | 2.3        |
| Alaska*               | 186,109                                | 18,566           | 10.0       | 6,919            | 3.7        | 2,406          | 1.3        | 7,064            | 3.8        |
| Arizona*              | 1,475,790                              | 152,920          | 10.4       | 44,835           | 3.0        | 25,860         | 1.8        | 59,161           | 4.0        |
| Arkansas*             | 670,555                                | 33,268           | 5.0        | 4,944            | 0.7        | 4,853          | 0.7        | 5,312            | 0.8        |
| California*           | 9,663,915                              | 423,543          | 4.4        | 99,258           | 1.0        | 51,210         | 0.5        | 121,887          | 1.3        |
| Colorado*             | 1,084,839                              | 88,453           | 8.2        | 26,943           | 2.5        | 8,121          | 0.7        | 31,049           | 2.9        |
| Connecticut*          | 750,119                                | 82,251           | 11.0       | 22,476           | 3.0        | 12,381         | 1.7        | 39,099           | 5.2        |
| Delaware*             | 180,501                                | 21,115           | 11.7       | 4,711            | 2.6        | 2,631          | 1.5        | 12,337           | 6.8        |
| District of Columbia* | 200,599                                | 12,430           | 6.2        | 3,078            | 1.5        | 1,957          | 1.0        | 4,537            | 2.3        |
| Florida               | 2,521,141                              | 131,723          | 5.2        | 23,422           | 0.9        | 20,886         | 0.8        | 35,444           | 1.4        |
| Georgia               | 1,116,235                              | 64,291           | 5.8        | 9,940            | 0.9        | 7,537          | 0.7        | 11,820           | 1.1        |
| Hawaii*               | 298,360                                | 15,795           | 5.3        | 3,104            | 1.0        | 1,616          | 0.5        | 3,282            | 1.1        |
| Idaho*                | 246,888                                | 26,269           | 10.6       | 6,647            | 2.7        | 3,302          | 1.3        | 7,826            | 3.2        |
| Illinois*             | 2,302,746                              | 168,025          | 7.3        | 44,067           | 1.9        | 28,850         | 1.3        | 44,444           | 1.9        |
| Indiana*              | 1,153,729                              | 108,280          | 9.4        | 23,623           | 2.0        | 10,921         | 0.9        | 46,564           | 4.0        |
| Iowa*                 | 518,468                                | 52,380           | 10.1       | 13,306           | 2.6        | 9,230          | 1.8        | 8,671            | 1.7        |
| Kansas                | 227,732                                | 21,008           | 9.2        | 3,804            | 1.7        | 3,495          | 1.5        | 2,686            | 1.2        |
| Kentucky*             | 1,244,580                              | 155,342          | 12.5       | 24,266           | 1.9        | 17,919         | 1.4        | 69,543           | 5.6        |
| Louisiana*            | 1,203,280                              | 112,636          | 9.4        | 22,013           | 1.8        | 19,255         | 1.6        | 31,903           | 2.7        |
| Maine*                | 243,750                                | 33,988           | 13.9       | 7,365            | 3.0        | 3,001          | 1.2        | 16,923           | 6.9        |
| Maryland*             | 1,019,693                              | 111,371          | 10.9       | 24,337           | 2.4        | 14,062         | 1.4        | 67,737           | 6.6        |
| Massachusetts*        | 1,343,550                              | 161,018          | 12.0       | 48,667           | 3.6        | 18,172         | 1.4        | 80,804           | 6.0        |
| Michigan*             | 2,144,205                              | 184,390          | 8.6        | 45,504           | 2.1        | 24,546         | 1.1        | 50,001           | 2.3        |
| Minnesota*            | 870,206                                | 96,796           | 11.1       | 29,857           | 3.4        | 14,783         | 1.7        | 28,654           | 3.3        |
| Mississippi           | 376,004                                | 25,712           | 6.8        | 3,911            | 1.0        | 3,470          | 0.9        | 4,237            | 1.1        |
| Missouri              | 640,704                                | 62,980           | 9.8        | 11,930           | 1.9        | 9,158          | 1.4        | 15,597           | 2.4        |
| Montana*              | 204,723                                | 25,771           | 12.6       | 8,236            | 4.0        | 3,497          | 1.7        | 7,558            | 3.7        |
| Nebraska              | 188,521                                | 13,221           | 7.0        | 3,230            | 1.7        | 1,961          | 1.0        | 1,842            | 1.0        |
| Nevada*               | 554,846                                | 49,372           | 8.9        | 11,871           | 2.1        | 7,287          | 1.3        | 15,489           | 2.8        |
| New Hampshire*        | 159,972                                | 20,144           | 12.6       | 4,882            | 3.1        | 1,675          | 1.0        | 11,986           | 7.5        |

<sup>85</sup> Tables split across multiple pages are given lower-case Roman numerals at the end of the table number to indicate whether the “component table” is the first (i), second (ii), and so on. The source and notes for each table are located after the final component table.

Table A.1.i. (continued)

| State           | Total number of Medicaid beneficiaries | Any SUD |         | Alcohol |         | Cannabis |         | Opioids |         |
|-----------------|--|---------|---------|---------|---------|----------|---------|---------|---------|
|                 |  | Number  | Percent | Number  | Percent | Number   | Percent | Number  | Percent |
| New Jersey*     | 1,273,197                              | 99,031  | 7.8     | 23,136  | 1.8     | 11,733   | 0.9     | 45,322  | 3.6     |
| New Mexico*     | 600,496                                | 65,171  | 10.9    | 19,895  | 3.3     | 6,700    | 1.1     | 31,455  | 5.2     |
| New York*       | 4,991,831                              | 377,100 | 7.6     | 100,412 | 2.0     | 71,712   | 1.4     | 126,757 | 2.5     |
| North Carolina  | 1,097,581                              | 105,873 | 9.6     | 16,386  | 1.5     | 14,345   | 1.3     | 30,114  | 2.7     |
| North Dakota*   | 78,841                                 | 9,240   | 11.7    | 2,982   | 3.8     | 1,499    | 1.9     | 2,149   | 2.7     |
| Ohio*           | 2,182,908                              | 354,713 | 16.2    | 77,651  | 3.6     | 66,692   | 3.1     | 118,446 | 5.4     |
| Oklahoma        | 486,831                                | 39,590  | 8.1     | 5,195   | 1.1     | 4,396    | 0.9     | 9,952   | 2.0     |
| Oregon*         | 855,040                                | 98,373  | 11.5    | 26,510  | 3.1     | 12,171   | 1.4     | 33,767  | 3.9     |
| Pennsylvania*   | 2,311,819                              | 268,946 | 11.6    | 56,036  | 2.4     | 37,264   | 1.6     | 122,252 | 5.3     |
| Puerto Rico*    | 1,235,769                              | 12,499  | 1.0     | 2,091   | 0.2     | 1,636    | 0.1     | 4,424   | 0.4     |
| Rhode Island*   | 241,697                                | 21,371  | 8.8     | 6,075   | 2.5     | 1,629    | 0.7     | 13,425  | 5.6     |
| South Carolina  | 678,920                                | 42,224  | 6.2     | 6,828   | 1.0     | 5,760    | 0.8     | 10,685  | 1.6     |
| South Dakota    | 66,215                                 | 5,394   | 8.1     | 1,975   | 3.0     | 1,107    | 1.7     | 687     | 1.0     |
| Tennessee       | DQ                                     | DQ      | DQ      | DQ      | DQ      | DQ       | DQ      | DQ      | DQ      |
| Texas           | 2,285,299                              | 100,163 | 4.4     | 18,067  | 0.8     | 17,899   | 0.8     | 14,847  | 0.6     |
| Utah*           | 256,550                                | 29,545  | 11.5    | 7,766   | 3.0     | 3,322    | 1.3     | 14,090  | 5.5     |
| Vermont*        | 135,064                                | 18,710  | 13.9    | 4,389   | 3.2     | 1,774    | 1.3     | 10,357  | 7.7     |
| Virginia*       | 1,109,619                              | 105,802 | 9.5     | 21,520  | 1.9     | 12,115   | 1.1     | 46,846  | 4.2     |
| Virgin Islands* | 22,229                                 | 284     | 1.3     | 109     | 0.5     | 65       | 0.3     | 13      | 0.1     |
| Washington*     | 1,438,197                              | 144,777 | 10.1    | 35,582  | 2.5     | 19,489   | 1.4     | 64,410  | 4.5     |
| West Virginia*  | 434,982                                | 55,656  | 12.8    | 9,154   | 2.1     | 4,263    | 1.0     | 31,485  | 7.2     |
| Wisconsin       | 873,848                                | 81,842  | 9.4     | 22,599  | 2.6     | 9,968    | 1.1     | 28,192  | 3.2     |
| Wyoming         | 40,260                                 | 3,552   | 8.8     | 884     | 2.2     | 478      | 1.2     | 601     | 1.5     |

**Table A.1.ii. Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by disorder**

| State                 | Total number of Medicaid beneficiaries | Polysubstance    |            | Stimulants     |            | Tobacco          |            | Other          |            |
|-----------------------|--|------------------|------------|----------------|------------|------------------|------------|----------------|------------|
|                       |  | Number           | Percent    | Number         | Percent    | Number           | Percent    | Number         | Percent    |
| <b>United States</b>  | <b>55,966,131</b>                      | <b>1,457,735</b> | <b>2.6</b> | <b>670,566</b> | <b>1.2</b> | <b>2,364,774</b> | <b>4.2</b> | <b>457,494</b> | <b>0.8</b> |
| Alabama               | 477,178                                | 12,783           | 2.7        | 4,809          | 1.0        | 34,545           | 7.2        | 4,748          | 1.0        |
| Alaska*               | 186,109                                | 6,722            | 3.6        | 2,707          | 1.5        | 7,544            | 4.1        | 1,847          | 1.0        |
| Arizona*              | 1,475,790                              | 56,570           | 3.8        | 38,670         | 2.6        | 60,169           | 4.1        | 15,337         | 1.0        |
| Arkansas*             | 670,555                                | 8,910            | 1.3        | 4,426          | 0.7        | 23,854           | 3.6        | 2,970          | 0.4        |
| California*           | 9,663,915                              | 114,224          | 1.2        | 84,561         | 0.9        | 189,406          | 2.0        | 36,406         | 0.4        |
| Colorado*             | 1,084,839                              | 27,343           | 2.5        | 12,535         | 1.2        | 42,259           | 3.9        | 6,356          | 0.6        |
| Connecticut*          | 750,119                                | 28,545           | 3.8        | 8,864          | 1.2        | 35,204           | 4.7        | 7,459          | 1.0        |
| Delaware*             | 180,501                                | 8,731            | 4.8        | 3,114          | 1.7        | 9,259            | 5.1        | 2,310          | 1.3        |
| District of Columbia* | 200,599                                | 4,506            | 2.2        | 1,369          | 0.7        | 6,716            | 3.3        | 1,951          | 1.0        |
| Florida               | 2,521,141                              | 38,395           | 1.5        | 12,630         | 0.5        | 80,090           | 3.2        | 18,033         | 0.7        |
| Georgia               | 1,116,235                              | 14,473           | 1.3        | 6,609          | 0.6        | 41,053           | 3.7        | 5,748          | 0.5        |
| Hawaii*               | 298,360                                | 4,332            | 1.5        | 4,502          | 1.5        | 7,971            | 2.7        | 1,329          | 0.4        |
| Idaho*                | 246,888                                | 8,161            | 3.3        | 5,565          | 2.3        | 13,233           | 5.4        | 1,596          | 0.6        |
| Illinois*             | 2,302,746                              | 53,597           | 2.3        | 19,688         | 0.9        | 97,040           | 4.2        | 18,038         | 0.8        |
| Indiana*              | 1,153,729                              | 29,484           | 2.6        | 13,358         | 1.2        | 48,820           | 4.2        | 8,704          | 0.8        |
| Iowa*                 | 518,468                                | 16,367           | 3.2        | 10,646         | 2.1        | 31,598           | 6.1        | 3,859          | 0.7        |
| Kansas                | 227,732                                | 5,663            | 2.5        | 3,179          | 1.4        | 14,299           | 6.3        | 1,685          | 0.7        |
| Kentucky*             | 1,244,580                              | 52,245           | 4.2        | 26,894         | 2.2        | 83,593           | 6.7        | 17,709         | 1.4        |
| Louisiana*            | 1,203,280                              | 37,993           | 3.2        | 20,416         | 1.7        | 68,483           | 5.7        | 15,861         | 1.3        |
| Maine*                | 243,750                                | 9,942            | 4.1        | 2,049          | 0.8        | 16,218           | 6.7        | 2,888          | 1.2        |
| Maryland*             | 1,019,693                              | 37,876           | 3.7        | 12,623         | 1.2        | 40,622           | 4.0        | 10,960         | 1.1        |
| Massachusetts*        | 1,343,550                              | 61,818           | 4.6        | 18,425         | 1.4        | 82,173           | 6.1        | 19,864         | 1.5        |
| Michigan*             | 2,144,205                              | 51,467           | 2.4        | 19,069         | 0.9        | 101,413          | 4.7        | 14,747         | 0.7        |
| Minnesota*            | 870,206                                | 34,652           | 4.0        | 19,551         | 2.2        | 48,997           | 5.6        | 10,311         | 1.2        |
| Mississippi           | 376,004                                | 5,993            | 1.6        | 2,475          | 0.7        | 18,110           | 4.8        | 2,300          | 0.6        |
| Missouri              | 640,704                                | 18,189           | 2.8        | 9,602          | 1.5        | 35,411           | 5.5        | 8,407          | 1.3        |
| Montana*              | 204,723                                | 9,908            | 4.8        | 5,712          | 2.8        | 13,854           | 6.8        | 2,373          | 1.2        |
| Nebraska              | 188,521                                | 3,372            | 1.8        | 1,734          | 0.9        | 8,314            | 4.4        | 964            | 0.5        |
| Nevada*               | 554,846                                | 16,606           | 3.0        | 9,972          | 1.8        | 25,342           | 4.6        | 5,445          | 1.0        |
| New Hampshire*        | 159,972                                | 6,834            | 4.3        | 2,188          | 1.4        | 7,380            | 4.6        | 2,056          | 1.3        |
| New Jersey*           | 1,273,197                              | 28,956           | 2.3        | 7,527          | 0.6        | 46,381           | 3.6        | 9,827          | 0.8        |
| New Mexico*           | 600,496                                | 20,656           | 3.4        | 10,305         | 1.7        | 21,222           | 3.5        | 5,584          | 0.9        |

Table A.1.ii. (continued)

| State           | Total number of Medicaid beneficiaries | Polysubstance |         | Stimulants |         | Tobacco |         | Other  |         |
|-----------------|--|---------------|---------|------------|---------|---------|---------|--------|---------|
|                 |  | Number        | Percent | Number     | Percent | Number  | Percent | Number | Percent |
| New York*       | 4,991,831                              | 133,080       | 2.7     | 49,870     | 1.0     | 210,477 | 4.2     | 42,512 | 0.9     |
| North Carolina  | 1,097,581                              | 28,650        | 2.6     | 10,997     | 1.0     | 65,648  | 6.0     | 10,608 | 1.0     |
| North Dakota*   | 78,841                                 | 3,576         | 4.5     | 2,033      | 2.6     | 5,373   | 6.8     | 968    | 1.2     |
| Ohio*           | 2,182,908                              | 128,425       | 5.9     | 49,314     | 2.3     | 214,931 | 9.8     | 36,045 | 1.7     |
| Oklahoma        | 486,831                                | 9,629         | 2.0     | 4,614      | 0.9     | 24,736  | 5.1     | 3,903  | 0.8     |
| Oregon*         | 855,040                                | 34,237        | 4.0     | 20,028     | 2.3     | 47,082  | 5.5     | 6,238  | 0.7     |
| Pennsylvania*   | 2,311,819                              | 89,747        | 3.9     | 36,947     | 1.6     | 127,464 | 5.5     | 28,576 | 1.2     |
| Puerto Rico*    | 1,235,769                              | 2,518         | 0.2     | 1,804      | 0.1     | 4,461   | 0.4     | 1,416  | 0.1     |
| Rhode Island*   | 241,697                                | 5,158         | 2.1     | 1,478      | 0.6     | 4,572   | 1.9     | 1,270  | 0.5     |
| South Carolina  | 678,920                                | 11,009        | 1.6     | 4,323      | 0.6     | 26,153  | 3.9     | 3,723  | 0.5     |
| South Dakota    | 66,215                                 | 1,815         | 2.7     | 739        | 1.1     | 3,071   | 4.6     | 478    | 0.7     |
| Tennessee       | DQ                                     | DQ            | DQ      | DQ         | DQ      | DQ      | DQ      | DQ     | DQ      |
| Texas           | 2,285,299                              | 26,302        | 1.2     | 12,580     | 0.6     | 62,883  | 2.8     | 12,798 | 0.6     |
| Utah*           | 256,550                                | 11,625        | 4.5     | 7,805      | 3.0     | 12,090  | 4.7     | 3,313  | 1.3     |
| Vermont*        | 135,064                                | 5,825         | 4.3     | 1,357      | 1.0     | 7,697   | 5.7     | 1,241  | 0.9     |
| Virginia*       | 1,109,619                              | 31,764        | 2.9     | 12,115     | 1.1     | 53,023  | 4.8     | 9,365  | 0.8     |
| Virgin Islands* | 22,229                                 | 68            | 0.3     | 40         | 0.2     | 129     | 0.6     | 14     | 0.1     |
| Washington*     | 1,438,197                              | 54,515        | 3.8     | 30,447     | 2.1     | 65,743  | 4.6     | 11,895 | 0.8     |
| West Virginia*  | 434,982                                | 19,135        | 4.4     | 8,172      | 1.9     | 24,468  | 5.6     | 8,013  | 1.8     |
| Wisconsin       | 873,848                                | 24,507        | 2.8     | 9,794      | 1.1     | 42,100  | 4.8     | 7,215  | 0.8     |
| Wyoming         | 40,260                                 | 837           | 2.1     | 335        | 0.8     | 2,100   | 5.2     | 231    | 0.6     |

Source: Analysis of the 2020 preliminary TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits.

Notes: The U.S. average is an overall average of the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims. A polysubstance use disorder involves a diagnosis in which there are two or more SUDs or a polysubstance diagnosis code. Appendix B includes detailed information on how we identified SUD treatment.

The "Other" category includes treatment for caffeine; hallucinogens; sedatives, hypnotics, and anxiolytics; inhalants; and unspecified or unknown SUD.

\*The state implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

DS = Data suppressed for confidentiality reasons because the group included fewer than 11 beneficiaries. If the size of a group that a state did not report because of confidentiality can be identified by using other numbers from that state, we did not report a second group within that state. Slightly different totals across the tables are a function of differences in the need to suppress data from one table to the next.

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.

**Table A.2.i. Distribution of Medicaid beneficiaries treated for a SUD in 2020, by disorder**

| State                 | Total number of Medicaid beneficiaries with a SUD | Alcohol          |             | Cannabis       |             | Opioids          |             |
|-----------------------|---|------------------|-------------|----------------|-------------|------------------|-------------|
|                       |   | Number           | Percent     | Number         | Percent     | Number           | Percent     |
| <b>United States</b>  | <b>4,560,513</b>                                  | <b>1,058,751</b> | <b>23.2</b> | <b>646,143</b> | <b>14.2</b> | <b>1,614,639</b> | <b>35.4</b> |
| Alabama               | 47,599  | 6,363            | 13.4        | 6,084          | 12.8        | 10,906           | 22.9        |
| Alaska*               | 18,566  | 6,919            | 37.3        | 2,406          | 13.0        | 7,064            | 38.0        |
| Arizona*              | 152,920   | 44,835           | 29.3        | 25,860         | 16.9        | 59,161           | 38.7        |
| Arkansas*             | 33,268  | 4,944            | 14.9        | 4,853          | 14.6        | 5,312            | 16.0        |
| California*           | 423,543   | 99,258           | 23.4        | 51,210         | 12.1        | 121,887          | 28.8        |
| Colorado*             | 88,453  | 26,943           | 30.5        | 8,121          | 9.2         | 31,049           | 35.1        |
| Connecticut*          | 82,251  | 22,476           | 27.3        | 12,381         | 15.1        | 39,099           | 47.5        |
| Delaware*             | 21,115  | 4,711            | 22.3        | 2,631          | 12.5        | 12,337           | 58.4        |
| District of Columbia* | 12,430  | 3,078            | 24.8        | 1,957          | 15.7        | 4,537            | 36.5        |
| Florida               | 131,723   | 23,422           | 17.8        | 20,886         | 15.9        | 35,444           | 26.9        |
| Georgia               | 64,291  | 9,940            | 15.5        | 7,537          | 11.7        | 11,820           | 18.4        |
| Hawaii*               | 15,795  | 3,104            | 19.7        | 1,616          | 10.2        | 3,282            | 20.8        |
| Idaho*                | 26,269  | 6,647            | 25.3        | 3,302          | 12.6        | 7,826            | 29.8        |
| Illinois*             | 168,025   | 44,067           | 26.2        | 28,850         | 17.2        | 44,444           | 26.5        |
| Indiana*              | 108,280   | 23,623           | 21.8        | 10,921         | 10.1        | 46,564           | 43.0        |
| Iowa*                 | 52,380  | 13,306           | 25.4        | 9,230          | 17.6        | 8,671            | 16.6        |
| Kansas                | 21,008  | 3,804            | 18.1        | 3,495          | 16.6        | 2,686            | 12.8        |
| Kentucky*             | 155,342   | 24,266           | 15.6        | 17,919         | 11.5        | 69,543           | 44.8        |
| Louisiana*            | 112,636   | 22,013           | 19.5        | 19,255         | 17.1        | 31,903           | 28.3        |
| Maine*                | 33,988  | 7,365            | 21.7        | 3,001          | 8.8         | 16,923           | 49.8        |
| Maryland*             | 111,371   | 24,337           | 21.9        | 14,062         | 12.6        | 67,737           | 60.8        |
| Massachusetts*        | 161,018   | 48,667           | 30.2        | 18,172         | 11.3        | 80,804           | 50.2        |
| Michigan*             | 184,390   | 45,504           | 24.7        | 24,546         | 13.3        | 50,001           | 27.1        |
| Minnesota*            | 96,796  | 29,857           | 30.8        | 14,783         | 15.3        | 28,654           | 29.6        |
| Mississippi           | 25,712  | 3,911            | 15.2        | 3,470          | 13.5        | 4,237            | 16.5        |
| Missouri              | 62,980  | 11,930           | 18.9        | 9,158          | 14.5        | 15,597           | 24.8        |
| Montana*              | 25,771  | 8,236            | 32.0        | 3,497          | 13.6        | 7,558            | 29.3        |
| Nebraska              | 13,221  | 3,230            | 24.4        | 1,961          | 14.8        | 1,842            | 13.9        |
| Nevada*               | 49,372  | 11,871           | 24.0        | 7,287          | 14.8        | 15,489           | 31.4        |
| New Hampshire*        | 20,144  | 4,882            | 24.2        | 1,675          | 8.3         | 11,986           | 59.5        |
| New Jersey*           | 99,031  | 23,136           | 23.4        | 11,733         | 11.8        | 45,322           | 45.8        |
| New Mexico*           | 65,171  | 19,895           | 30.5        | 6,700          | 10.3        | 31,455           | 48.3        |



Table A.2.i. (continued)

| State           | Total number of Medicaid beneficiaries with a SUD | Alcohol |         | Cannabis |         | Opioids |         |
|-----------------|---|---------|---------|----------|---------|---------|---------|
|                 |   | Number  | Percent | Number   | Percent | Number  | Percent |
| New York*       | 377,100   | 100,412 | 26.6    | 71,712   | 19.0    | 126,757 | 33.6    |
| North Carolina  | 105,873   | 16,386  | 15.5    | 14,345   | 13.5    | 30,114  | 28.4    |
| North Dakota*   | 9,240   | 2,982   | 32.3    | 1,499    | 16.2    | 2,149   | 23.3    |
| Ohio*           | 354,713   | 77,651  | 21.9    | 66,692   | 18.8    | 118,446 | 33.4    |
| Oklahoma        | 39,590  | 5,195   | 13.1    | 4,396    | 11.1    | 9,952   | 25.1    |
| Oregon*         | 98,373  | 26,510  | 26.9    | 12,171   | 12.4    | 33,767  | 34.3    |
| Pennsylvania*   | 268,946   | 56,036  | 20.8    | 37,264   | 13.9    | 122,252 | 45.5    |
| Puerto Rico*    | 12,499  | 2,091   | 16.7    | 1,636    | 13.1    | 4,424   | 35.4    |
| Rhode Island*   | 21,371  | 6,075   | 28.4    | 1,629    | 7.6     | 13,425  | 62.8    |
| South Carolina  | 42,224  | 6,828   | 16.2    | 5,760    | 13.6    | 10,685  | 25.3    |
| South Dakota    | 5,394   | 1,975   | 36.6    | 1,107    | 20.5    | 687     | 12.7    |
| Tennessee       | DQ  | DQ      | DQ      | DQ       | DQ      | DQ      | DQ      |
| Texas           | 100,163   | 18,067  | 18.0    | 17,899   | 17.9    | 14,847  | 14.8    |
| Utah*           | 29,545  | 7,766   | 26.3    | 3,322    | 11.2    | 14,090  | 47.7    |
| Vermont*        | 18,710  | 4,389   | 23.5    | 1,774    | 9.5     | 10,357  | 55.4    |
| Virginia*       | 105,802   | 21,520  | 20.3    | 12,115   | 11.5    | 46,846  | 44.3    |
| Virgin Islands* | 284   | 109     | 38.4    | 65       | 22.9    | 13      | 4.6     |
| Washington*     | 144,777   | 35,582  | 24.6    | 19,489   | 13.5    | 64,410  | 44.5    |
| West Virginia*  | 55,656  | 9,154   | 16.4    | 4,263    | 7.7     | 31,485  | 56.6    |
| Wisconsin       | 81,842  | 22,599  | 27.6    | 9,968    | 12.2    | 28,192  | 34.4    |
| Wyoming         | 3,552   | 884     | 24.9    | 478      | 13.5    | 601     | 16.9    |

**Table A.2.ii. Distribution of Medicaid beneficiaries treated for a SUD in 2020, by disorder**

| State                 | Total number of Medicaid beneficiaries with a SUD | Polysubstance    |             | Stimulants     |             | Tobacco          |             | Other          |             |
|-----------------------|---|------------------|-------------|----------------|-------------|------------------|-------------|----------------|-------------|
|                       |   | Number           | Percent     | Number         | Percent     | Number           | Percent     | Number         | Percent     |
| <b>United States</b>  | <b>4,560,513</b>                                  | <b>1,457,735</b> | <b>32.0</b> | <b>670,566</b> | <b>14.7</b> | <b>2,364,774</b> | <b>51.9</b> | <b>457,494</b> | <b>10.0</b> |
| Alabama               | 47,599  | 12,783           | 26.9        | 4,809          | 10.1        | 34,545           | 72.6        | 4,748          | 10.0        |
| Alaska*               | 18,566  | 6,722            | 36.2        | 2,707          | 14.6        | 7,544            | 40.6        | 1,847          | 9.9         |
| Arizona*              | 152,920   | 56,570           | 37.0        | 38,670         | 25.3        | 60,169           | 39.3        | 15,337         | 10.0        |
| Arkansas*             | 33,268  | 8,910            | 26.8        | 4,426          | 13.3        | 23,854           | 71.7        | 2,970          | 8.9         |
| California*           | 423,543   | 114,224          | 27.0        | 84,561         | 20.0        | 189,406          | 44.7        | 36,406         | 8.6         |
| Colorado*             | 88,453  | 27,343           | 30.9        | 12,535         | 14.2        | 42,259           | 47.8        | 6,356          | 7.2         |
| Connecticut*          | 82,251  | 28,545           | 34.7        | 8,864          | 10.8        | 35,204           | 42.8        | 7,459          | 9.1         |
| Delaware*             | 21,115  | 8,731            | 41.3        | 3,114          | 14.7        | 9,259            | 43.9        | 2,310          | 10.9        |
| District of Columbia* | 12,430  | 4,506            | 36.3        | 1,369          | 11.0        | 6,716            | 54.0        | 1,951          | 15.7        |
| Florida               | 131,723   | 38,395           | 29.1        | 12,630         | 9.6         | 80,090           | 60.8        | 18,033         | 13.7        |
| Georgia               | 64,291  | 14,473           | 22.5        | 6,609          | 10.3        | 41,053           | 63.9        | 5,748          | 8.9         |
| Hawaii*               | 15,795  | 4,332            | 27.4        | 4,502          | 28.5        | 7,971            | 50.5        | 1,329          | 8.4         |
| Idaho*                | 26,269  | 8,161            | 31.1        | 5,565          | 21.2        | 13,233           | 50.4        | 1,596          | 6.1         |
| Illinois*             | 168,025   | 53,597           | 31.9        | 19,688         | 11.7        | 97,040           | 57.8        | 18,038         | 10.7        |
| Indiana*              | 108,280   | 29,484           | 27.2        | 13,358         | 12.3        | 48,820           | 45.1        | 8,704          | 8.0         |
| Iowa*                 | 52,380  | 16,367           | 31.2        | 10,646         | 20.3        | 31,598           | 60.3        | 3,859          | 7.4         |
| Kansas                | 21,008  | 5,663            | 27.0        | 3,179          | 15.1        | 14,299           | 68.1        | 1,685          | 8.0         |
| Kentucky*             | 155,342   | 52,245           | 33.6        | 26,894         | 17.3        | 83,593           | 53.8        | 17,709         | 11.4        |
| Louisiana*            | 112,636   | 37,993           | 33.7        | 20,416         | 18.1        | 68,483           | 60.8        | 15,861         | 14.1        |
| Maine*                | 33,988  | 9,942            | 29.3        | 2,049          | 6.0         | 16,218           | 47.7        | 2,888          | 8.5         |
| Maryland*             | 111,371   | 37,876           | 34.0        | 12,623         | 11.3        | 40,622           | 36.5        | 10,960         | 9.8         |
| Massachusetts*        | 161,018   | 61,818           | 38.4        | 18,425         | 11.4        | 82,173           | 51.0        | 19,864         | 12.3        |
| Michigan*             | 184,390   | 51,467           | 27.9        | 19,069         | 10.3        | 101,413          | 55.0        | 14,747         | 8.0         |
| Minnesota*            | 96,796  | 34,652           | 35.8        | 19,551         | 20.2        | 48,997           | 50.6        | 10,311         | 10.7        |
| Mississippi           | 25,712  | 5,993            | 23.3        | 2,475          | 9.6         | 18,110           | 70.4        | 2,300          | 8.9         |
| Missouri              | 62,980  | 18,189           | 28.9        | 9,602          | 15.2        | 35,411           | 56.2        | 8,407          | 13.3        |
| Montana*              | 25,771  | 9,908            | 38.4        | 5,712          | 22.2        | 13,854           | 53.8        | 2,373          | 9.2         |
| Nebraska              | 13,221  | 3,372            | 25.5        | 1,734          | 13.1        | 8,314            | 62.9        | 964            | 7.3         |
| Nevada*               | 49,372  | 16,606           | 33.6        | 9,972          | 20.2        | 25,342           | 51.3        | 5,445          | 11.0        |
| New Hampshire*        | 20,144  | 6,834            | 33.9        | 2,188          | 10.9        | 7,380            | 36.6        | 2,056          | 10.2        |
| New Jersey*           | 99,031  | 28,956           | 29.2        | 7,527          | 7.6         | 46,381           | 46.8        | 9,827          | 9.9         |
| New Mexico*           | 65,171  | 20,656           | 31.7        | 10,305         | 15.8        | 21,222           | 32.6        | 5,584          | 8.6         |

Table A.2.ii. (continued)

| State           | Total number of Medicaid beneficiaries with a SUD | Polysubstance |         | Stimulants |         | Tobacco |         | Other  |         |
|-----------------|---|---------------|---------|------------|---------|---------|---------|--------|---------|
|                 |   | Number        | Percent | Number     | Percent | Number  | Percent | Number | Percent |
| New York*       | 377,100   | 133,080       | 35.3    | 49,870     | 13.2    | 210,477 | 55.8    | 42,512 | 11.3    |
| North Carolina  | 105,873   | 28,650        | 27.1    | 10,997     | 10.4    | 65,648  | 62.0    | 10,608 | 10.0    |
| North Dakota*   | 9,240   | 3,576         | 38.7    | 2,033      | 22.0    | 5,373   | 58.1    | 968    | 10.5    |
| Ohio*           | 354,713   | 128,425       | 36.2    | 49,314     | 13.9    | 214,931 | 60.6    | 36,045 | 10.2    |
| Oklahoma        | 39,590  | 9,629         | 24.3    | 4,614      | 11.7    | 24,736  | 62.5    | 3,903  | 9.9     |
| Oregon*         | 98,373  | 34,237        | 34.8    | 20,028     | 20.4    | 47,082  | 47.9    | 6,238  | 6.3     |
| Pennsylvania*   | 268,946   | 89,747        | 33.4    | 36,947     | 13.7    | 127,464 | 47.4    | 28,576 | 10.6    |
| Puerto Rico*    | 12,499  | 2,518         | 20.1    | 1,804      | 14.4    | 4,461   | 35.7    | 1,416  | 11.3    |
| Rhode Island*   | 21,371  | 5,158         | 24.1    | 1,478      | 6.9     | 4,572   | 21.4    | 1,270  | 5.9     |
| South Carolina  | 42,224  | 11,009        | 26.1    | 4,323      | 10.2    | 26,153  | 61.9    | 3,723  | 8.8     |
| South Dakota    | 5,394   | 1,815         | 33.6    | 739        | 13.7    | 3,071   | 56.9    | 478    | 8.9     |
| Tennessee       | DQ  | DQ            | DQ      | DQ         | DQ      | DQ      | DQ      | DQ     | DQ      |
| Texas           | 100,163   | 26,302        | 26.3    | 12,580     | 12.6    | 62,883  | 62.8    | 12,798 | 12.8    |
| Utah*           | 29,545  | 11,625        | 39.3    | 7,805      | 26.4    | 12,090  | 40.9    | 3,313  | 11.2    |
| Vermont*        | 18,710  | 5,825         | 31.1    | 1,357      | 7.3     | 7,697   | 41.1    | 1,241  | 6.6     |
| Virginia*       | 105,802   | 31,764        | 30.0    | 12,115     | 11.5    | 53,023  | 50.1    | 9,365  | 8.9     |
| Virgin Islands* | 284   | 68            | 23.9    | 40         | 14.1    | 129     | 45.4    | 14     | 4.9     |
| Washington*     | 144,777   | 54,515        | 37.7    | 30,447     | 21.0    | 65,743  | 45.4    | 11,895 | 8.2     |
| West Virginia*  | 55,656  | 19,135        | 34.4    | 8,172      | 14.7    | 24,468  | 44.0    | 8,013  | 14.4    |
| Wisconsin       | 81,842  | 24,507        | 29.9    | 9,794      | 12.0    | 42,100  | 51.4    | 7,215  | 8.8     |
| Wyoming         | 3,552   | 837           | 23.6    | 335        | 9.4     | 2,100   | 59.1    | 231    | 6.5     |

Source: Analysis of the 2020 preliminary TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits.

Notes: The U.S. average is an overall average of the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims. A polysubstance use disorder involves a diagnosis in which there are two or more SUDs or a polysubstance diagnosis code. Appendix B includes detailed information on how we identified SUD treatment.

The "Other" category includes treatment for caffeine; hallucinogens; sedatives, hypnotics, and anxiolytics; inhalants; and unspecified or unknown SUD.

The percentages in this table may not sum to 100 within a state because of the polysubstance category and because beneficiaries can be treated for more than one SUD.

\*The state implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

DS = Data suppressed for confidentiality reasons because the group included fewer than 11 beneficiaries. If the size of a group that a state did not report because of confidentiality can be identified by using other numbers from that state, we did not report a second group within that state. Slightly different totals across the tables are a function of differences in the need to suppress data from one table to the next.

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.

**Table A.3.i. Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by major enrollment category**

| State                 | Total number of Medicaid beneficiaries | Adult             |                   |            | Children          |                   |            | Pregnant         |                   |            |
|-----------------------|--|-------------------|-------------------|------------|-------------------|-------------------|------------|------------------|-------------------|------------|
|                       |  | Total number      | Number with a SUD | Percent    | Total number      | Number with a SUD | Percent    | Total number     | Number with a SUD | Percent    |
| <b>United States</b>  | <b>55,966,131</b>                      | <b>10,746,272</b> | <b>936,686</b>    | <b>8.7</b> | <b>10,196,225</b> | <b>118,887</b>    | <b>1.2</b> | <b>1,253,001</b> | <b>103,473</b>    | <b>8.3</b> |
| Alabama               | 477,178                                | 108,854           | 17,231            | 15.8       | 152,527           | 1,719             | 1.1        | 23,862           | 2,085             | 8.7        |
| Alaska*               | 186,109                                | 47,672            | 4,351             | 9.1        | 39,634            | 767               | 1.9        | 3,358            | 654               | 19.5       |
| Arizona*              | 1,475,790                              | 369,865           | 31,138            | 8.4        | 260,683           | 4,987             | 1.9        | 24,205           | 2,590             | 10.7       |
| Arkansas*             | 670,555                                | 523               | 61                | 11.7       | 192,628           | 8,059             | 4.2        | 2,065            | 233               | 11.3       |
| California*           | 9,663,915                              | 2,025,829         | 77,860            | 3.8        | 1,224,785         | 9,339             | 0.8        | 108,848          | 1,531             | 1.4        |
| Colorado*             | 1,084,839                              | 208,160           | 16,244            | 7.8        | 186,864           | DS                | DS         | 39,941           | 4,307             | 10.8       |
| Connecticut*          | 750,119                                | 188,623           | 16,290            | 8.6        | 136,204           | 1,447             | 1.1        | 13,005           | 1,357             | 10.4       |
| Delaware*             | 180,501                                | 39,236            | 4,907             | 12.5       | 35,309            | 248               | 0.7        | 3,952            | 709               | 17.9       |
| District of Columbia* | 200,599                                | 56,512            | 2,173             | 3.8        | 26,937            | 164               | 0.6        | 465              | 25                | 5.4        |
| Florida               | 2,521,141                              | 698,882           | 46,619            | 6.7        | 699,853           | 6,915             | 1.0        | 140,369          | 12,603            | 9.0        |
| Georgia               | 1,116,235                              | 382,707           | 19,353            | 5.1        | 320,730           | 2,657             | 0.8        | 79,481           | 5,749             | 7.2        |
| Hawaii*               | 298,360                                | 32,445            | 1,402             | 4.3        | 48,927            | 336               | 0.7        | 17,926           | 858               | 4.8        |
| Idaho*                | 246,888                                | 143,190           | 17,682            | 12.3       | 49,869            | 1,043             | 2.1        | 0                | .                 | .          |
| Illinois*             | 2,302,746                              | 113,818           | 5,230             | 4.6        | 221,050           | DS                | DS         | 27,741           | 2,662             | 9.6        |
| Indiana*              | 1,153,729                              | 111,055           | 9,591             | 8.6        | 213,195           | 1,867             | 0.9        | 55,065           | 7,916             | 14.4       |
| Iowa*                 | 518,468                                | 95,941            | 10,828            | 11.3       | 75,827            | DS                | DS         | 22,150           | 1,934             | 8.7        |
| Kansas                | 227,732                                | 73,893            | 7,124             | 9.6        | 52,149            | 826               | 1.6        | 12,065           | 1,355             | 11.2       |
| Kentucky*             | 1,244,580                              | 135,580           | 24,161            | 17.8       | 157,915           | 1,841             | 1.2        | 16,347           | 1,772             | 10.8       |
| Louisiana*            | 1,203,280                              | 90,085            | 10,887            | 12.1       | 229,066           | 2,465             | 1.1        | DS               | DS                | DS         |
| Maine*                | 243,750                                | 47,477            | 7,646             | 16.1       | 38,968            | 684               | 1.8        | 3,957            | 919               | 23.2       |
| Maryland*             | 1,019,693                              | 248,318           | 24,454            | 9.8        | 200,464           | 2,411             | 1.2        | 15,632           | 1,542             | 9.9        |
| Massachusetts*        | 1,343,550                              | 318,070           | 25,688            | 8.1        | 145,333           | 1,734             | 1.2        | 8,552            | 594               | 6.9        |
| Michigan*             | 2,144,205                              | 413,512           | 40,958            | 9.9        | 303,358           | 2,159             | 0.7        | 15,035           | 1,485             | 9.9        |
| Minnesota*            | 870,206                                | 190,503           | 19,482            | 10.2       | 228,954           | 4,858             | 2.1        | 20,857           | 2,388             | 11.4       |
| Mississippi           | 376,004                                | 60,793            | 5,499             | 9.0        | 129,767           | 1,100             | 0.8        | 25,332           | 2,576             | 10.2       |
| Missouri              | 640,704                                | 104,197           | 13,337            | 12.8       | 223,429           | 3,744             | 1.7        | 51,879           | 8,085             | 15.6       |
| Montana*              | 204,723                                | 23,580            | 2,987             | 12.7       | 35,319            | 994               | 2.8        | 2,009            | 413               | 20.6       |
| Nebraska              | 188,521                                | 41,212            | 4,004             | 9.7        | 52,014            | 975               | 1.9        | 8,655            | DS                | DS         |
| Nevada*               | 554,846                                | 72,312            | 6,069             | 8.4        | 109,563           | 1,323             | 1.2        | 12,449           | 1,405             | 11.3       |
| New Hampshire*        | 159,972                                | 14,747            | 2,634             | 17.9       | 34,136            | 276               | 0.8        | 3,277            | 441               | 13.5       |
| New Jersey*           | 1,273,197                              | 112,517           | 10,264            | 9.1        | 226,735           | 2,228             | 1.0        | 16,394           | 527               | 3.2        |
| New Mexico*           | 600,496                                | 90,442            | 12,146            | 13.4       | 127,084           | 2,644             | 2.1        | 6,644            | 775               | 11.7       |

Table A.3.i. (continued)

| State           | Total number of Medicaid beneficiaries | Adult        |                   |         | Children     |                   |         | Pregnant     |                   |         |
|-----------------|--|--------------|-------------------|---------|--------------|-------------------|---------|--------------|-------------------|---------|
|                 |  | Total number | Number with a SUD | Percent | Total number | Number with a SUD | Percent | Total number | Number with a SUD | Percent |
| New York*       | 4,991,831                              | 699,295      | 54,942            | 7.9     | 645,730      | 6,525             | 1.0     | 59,344       | DS                | DS      |
| North Carolina  | 1,097,581                              | 465,515      | 41,311            | 8.9     | 172,338      | DS                | DS      | 29,897       | 3,541             | 11.8    |
| North Dakota*   | 78,841                                 | 11,680       | 1,560             | 13.4    | 14,766       | 450               | 3.0     | 2,722        | 656               | 24.1    |
| Ohio*           | 2,182,908                              | 471,890      | 85,145            | 18.0    | 414,038      | 12,790            | 3.1     | DS           | DS                | DS      |
| Oklahoma        | 486,831                                | 127,113      | 11,668            | 9.2     | 169,458      | 1,532             | 0.9     | DS           | DS                | DS      |
| Oregon*         | 855,040                                | 3,188        | 572               | 17.9    | 9,876        | 406               | 4.1     | 822          | 77                | 9.4     |
| Pennsylvania*   | 2,311,819                              | 292,190      | 40,243            | 13.8    | 315,291      | 4,693             | 1.5     | 26,964       | 3,867             | 14.3    |
| Puerto Rico*    | 1,235,769                              | 199,934      | 872               | 0.4     | 125,845      | 279               | 0.2     | 3,482        | 17                | 0.5     |
| Rhode Island*   | 241,697                                | 54,498       | 3,932             | 7.2     | 40,266       | 728               | 1.8     | 597          | 35                | 5.9     |
| South Carolina  | 678,920                                | 185,461      | 18,219            | 9.8     | 220,014      | 3,083             | 1.4     | 24,643       | DS                | DS      |
| South Dakota    | 66,215                                 | 18,717       | 1,967             | 10.5    | 23,568       | 856               | 3.6     | DS           | DS                | DS      |
| Tennessee       | DQ                                     | DQ           | DQ                | DQ      | DQ           | DQ                | DQ      | DQ           | DQ                | DQ      |
| Texas           | 2,285,299                              | 204,800      | 14,710            | 7.2     | 1,040,293    | 8,387             | 0.8     | 244,729      | 17,967            | 7.3     |
| Utah*           | 256,550                                | 37,817       | 3,748             | 9.9     | 60,950       | 752               | 1.2     | DS           | DS                | DS      |
| Vermont*        | 135,064                                | 9,934        | 2,092             | 21.1    | 25,640       | 480               | 1.9     | DS           | DS                | DS      |
| Virginia*       | 1,109,619                              | 640,781      | 74,712            | 11.7    | 210,815      | 2,060             | 1.0     | 28,129       | 3,602             | 12.8    |
| Virgin Islands* | 22,229                                 | 5,971        | DS                | DS      | 352          | 0                 | 0.0     | 988          | 36                | 3.6     |
| Washington*     | 1,438,197                              | 145,970      | 21,240            | 14.6    | 305,345      | 3,951             | 1.3     | 17,932       | DS                | DS      |
| West Virginia*  | 434,982                                | 42,639       | 7,308             | 17.1    | 66,735       | 684               | 1.0     | 4,284        | 680               | 15.9    |
| Wisconsin       | 873,848                                | 458,981      | 53,078            | 11.6    | 141,914      | 1,421             | 1.0     | 23,882       | 2,996             | 12.5    |
| Wyoming         | 40,260                                 | 9,348        | 1,067             | 11.4    | 13,715       | DS                | DS      | 3,069        | 509               | 16.6    |

**Table A.3.ii. Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by major enrollment category**

| State                 | Total number of Medicaid beneficiaries | Aged, blind, disabled |                   |             | Expansion adult   |                   |             | Unknown          |                   |             |
|-----------------------|--|-----------------------|-------------------|-------------|-------------------|-------------------|-------------|------------------|-------------------|-------------|
|                       |  | Total number          | Number with a SUD | Percent     | Total number      | Number with a SUD | Percent     | Total number     | Number with a SUD | Percent     |
| <b>United States</b>  | <b>55,966,131</b>                      | <b>13,214,564</b>     | <b>1,321,970</b>  | <b>10.0</b> | <b>19,404,801</b> | <b>1,944,546</b>  | <b>10.0</b> | <b>1,052,975</b> | <b>105,516</b>    | <b>10.0</b> |
| Alabama               | 477,178                                | 191,497               | 26,530            | 13.9        | 0                 | .                 | .           | 438              | 34                | 7.8         |
| Alaska*               | 186,109                                | 27,636                | 3,034             | 11.0        | 67,809            | 9,760             | 14.4        | 0                | .                 | .           |
| Arizona*              | 1,475,790                              | 278,693               | 29,961            | 10.8        | 542,344           | 84,244            | 15.5        | 0                | .                 | .           |
| Arkansas*             | 670,555                                | 138,486               | 14,473            | 10.5        | 334,470           | 10,269            | 3.1         | 2,383            | 173               | 7.3         |
| California*           | 9,663,915                              | 2,162,455             | 133,341           | 6.2         | 4,141,998         | 201,472           | 4.9         | 0                | .                 | .           |
| Colorado*             | 1,084,839                              | 143,469               | 14,993            | 10.5        | 505,824           | 51,000            | 10.1        | 581              | DS                | DS          |
| Connecticut*          | 750,119                                | 84,853                | 10,251            | 12.1        | 327,434           | 52,906            | 16.2        | 0                | .                 | .           |
| Delaware*             | 180,501                                | 22,877                | 2,724             | 11.9        | 79,127            | 12,527            | 15.8        | 0                | .                 | .           |
| District of Columbia* | 200,599                                | 39,485                | 5,224             | 13.2        | 77,200            | 4,844             | 6.3         | 0                | .                 | .           |
| Florida               | 2,521,141                              | 852,044               | 64,850            | 7.6         | 0                 | .                 | .           | 129,993          | 736               | 0.6         |
| Georgia               | 1,116,235                              | 332,975               | 36,511            | 11.0        | 0                 | .                 | .           | 342              | 21                | 6.1         |
| Hawaii*               | 298,360                                | 51,900                | 3,837             | 7.4         | 147,162           | 9,362             | 6.4         | 0                | .                 | .           |
| Idaho*                | 246,888                                | 53,829                | 7,544             | 14.0        | 0                 | .                 | .           | 0                | .                 | .           |
| Illinois*             | 2,302,746                              | 389,969               | 29,452            | 7.6         | 1,550,111         | 128,321           | 8.3         | 57               | DS                | DS          |
| Indiana*              | 1,153,729                              | 205,139               | 18,725            | 9.1         | 568,864           | 70,153            | 12.3        | 411              | 28                | 6.8         |
| Iowa*                 | 518,468                                | 102,364               | 10,767            | 10.5        | 222,136           | 27,752            | 12.5        | 50               | DS                | DS          |
| Kansas                | 227,732                                | 55,590                | 8,198             | 14.7        | 0                 | .                 | .           | 34,035           | 3,505             | 10.3        |
| Kentucky*             | 1,244,580                              | 212,460               | 30,412            | 14.3        | 722,278           | 97,156            | 13.5        | 0                | .                 | .           |
| Louisiana*            | 1,203,280                              | 258,726               | 30,291            | 11.7        | 604,729           | 66,831            | 11.1        | DS               | DS                | DS          |
| Maine*                | 243,750                                | 76,530                | 12,052            | 15.7        | 72,403            | 12,663            | 17.5        | 4,415            | 24                | 0.5         |
| Maryland*             | 1,019,693                              | 167,036               | 23,657            | 14.2        | 388,243           | 59,307            | 15.3        | 0                | .                 | .           |
| Massachusetts*        | 1,343,550                              | 489,770               | 75,226            | 15.4        | 380,145           | 57,712            | 15.2        | 1,680            | 64                | 3.8         |
| Michigan*             | 2,144,205                              | 495,131               | 44,774            | 9.0         | 917,169           | 95,014            | 10.4        | 0                | .                 | .           |
| Minnesota*            | 870,206                                | 181,823               | 24,655            | 13.6        | 248,069           | 45,413            | 18.3        | 0                | .                 | .           |
| Mississippi           | 376,004                                | 160,112               | 16,537            | 10.3        | 0                 | .                 | .           | 0                | .                 | .           |
| Missouri              | 640,704                                | 261,199               | 37,814            | 14.5        | 0                 | .                 | .           | 0                | .                 | .           |
| Montana*              | 204,723                                | 30,867                | 4,344             | 14.1        | 112,928           | 17,033            | 15.1        | 20               | 0                 | 0.0         |
| Nebraska              | 188,521                                | 58,678                | 5,528             | 9.4         | 27,872            | 1,759             | 6.3         | 90               | DS                | DS          |
| Nevada*               | 554,846                                | 62,469                | 8,963             | 14.3        | 298,053           | 31,612            | 10.6        | 0                | .                 | .           |
| New Hampshire*        | 159,972                                | 30,380                | 3,932             | 12.9        | 77,417            | 12,861            | 16.6        | 15               | 0                 | 0.0         |
| New Jersey*           | 1,273,197                              | 251,334               | 26,974            | 10.7        | 654,119           | 57,996            | 8.9         | 12,098           | 1,042             | 8.6         |
| New Mexico*           | 600,496                                | 76,576                | 11,207            | 14.6        | 299,750           | 38,399            | 12.8        | 0                | .                 | .           |

Table A.3.ii. (continued)

| State           | Total number of Medicaid beneficiaries | Aged, blind, disabled |                   |         | Expansion adult |                   |         | Unknown      |                   |         |
|-----------------|--|-----------------------|-------------------|---------|-----------------|-------------------|---------|--------------|-------------------|---------|
|                 |  | Total number          | Number with a SUD | Percent | Total number    | Number with a SUD | Percent | Total number | Number with a SUD | Percent |
| New York*       | 4,991,831                              | 1,073,827             | 103,177           | 9.6     | 2,513,613       | 209,494           | 8.3     | 22           | DS                | DS      |
| North Carolina  | 1,097,581                              | 429,695               | 59,565            | 13.9    | 0               | .                 | .       | 136          | DS                | DS      |
| North Dakota*   | 78,841                                 | 18,892                | 1,979             | 10.5    | 30,144          | 4,504             | 14.9    | 637          | 91                | 14.3    |
| Ohio*           | 2,182,908                              | 476,843               | 86,265            | 18.1    | 791,817         | 165,652           | 20.9    | DS           | DS                | DS      |
| Oklahoma        | 486,831                                | 160,299               | 21,435            | 13.4    | 0               | .                 | .       | DS           | DS                | DS      |
| Oregon*         | 855,040                                | 3,290                 | 436               | 13.3    | 4,483           | 723               | 16.1    | 833,381      | 96,159            | 11.5    |
| Pennsylvania*   | 2,311,819                              | 706,016               | 79,537            | 11.3    | 971,358         | 140,606           | 14.5    | 0            | .                 | .       |
| Puerto Rico*    | 1,235,769                              | 372,614               | 4,358             | 1.2     | 533,894         | 6,973             | 1.3     | 0            | .                 | .       |
| Rhode Island*   | 241,697                                | 53,276                | 6,204             | 11.6    | 93,060          | 10,472            | 11.3    | 0            | .                 | .       |
| South Carolina  | 678,920                                | 247,836               | 18,403            | 7.4     | 0               | .                 | .       | 966          | DS                | DS      |
| South Dakota    | 66,215                                 | 23,377                | 2,464             | 10.5    | 0               | .                 | .       | DS           | DS                | DS      |
| Tennessee       | DQ                                     | DQ                    | DQ                | DQ      | DQ              | DQ                | DQ      | DQ           | DQ                | DQ      |
| Texas           | 2,285,299                              | 792,770               | 58,999            | 7.4     | DS              | DS                | DS      | DS           | DS                | DS      |
| Utah*           | 256,550                                | 56,098                | 6,266             | 11.2    | 86,394          | 16,880            | 19.5    | DS           | DS                | DS      |
| Vermont*        | 135,064                                | 29,259                | 4,369             | 14.9    | 69,444          | 11,750            | 16.9    | DS           | DS                | DS      |
| Virginia*       | 1,109,619                              | 228,423               | 25,399            | 11.1    | 36              | 0                 | 0.0     | 1,435        | 29                | 2.0     |
| Virgin Islands* | 22,229                                 | 4,095                 | 56                | 1.4     | 10,439          | 156               | 1.5     | 384          | DS                | DS      |
| Washington*     | 1,438,197                              | 233,321               | 28,953            | 12.4    | 729,563         | 89,049            | 12.2    | 6,066        | DS                | DS      |
| West Virginia*  | 434,982                                | 95,215                | 11,453            | 12.0    | 202,902         | 31,921            | 15.7    | 23,207       | 3,610             | 15.6    |
| Wisconsin       | 873,848                                | 249,071               | 24,347            | 9.8     | 0               | .                 | .       | 0            | .                 | .       |
| Wyoming         | 40,260                                 | 13,995                | 1,524             | 10.9    | 0               | .                 | .       | 133          | DS                | DS      |

Source: Analysis of the 2020 preliminary TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits.

Notes: For a definition of each Medicaid eligibility category, see Appendix E.

The U.S. average is an overall average of the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims. A polysubstance use disorder involves a diagnosis in which there are two or more SUDs or a polysubstance diagnosis code. Appendix B includes detailed information on how we identified SUD treatment.

Virginia expanded Medicaid in 2019 but did not have any beneficiaries in the expansion adult enrollment category in the 2020 data, indicating that the state's reporting has lagged behind the policy change. Idaho expanded Medicaid in 2020 but did not report any beneficiaries in the expansion adult enrollment category in 2020. Nebraska expanded Medicaid in October 2021 but the state reported some beneficiaries in the expansion adult enrollment category in 2020. Texas has not expanded Medicaid but reported a small number of expansion adult beneficiaries in 2020. These categorizations likely represent data errors.

In Arkansas, 0.2 percent of all Medicaid beneficiaries treated for a SUD in 2020 were in the adult enrollment category and 24 percent of all Medicaid beneficiaries treated for a SUD in 2020 were in the child-related enrollment category. This pattern may indicate errors in the state's reporting of an individual's eligibility group.

\*The state implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

Table A.3.ii. *(continued)*

DS = Data suppressed for confidentiality reasons because the group included fewer than 11 beneficiaries. If the size of a group that a state did not report because of confidentiality can be identified by using other numbers from that state, we did not report a second group within that state. Slightly different totals across the tables are a function of differences in the need to suppress data from one table to the next.

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.



**Table A.4. Distribution of Medicaid beneficiaries treated for a SUD in 2020, by major enrollment category**

| State                 | Total number of Medicaid beneficiaries with a SUD | Adult          |             | Children       |            | Pregnant       |            | Aged, blind, disabled |             | Expansion adult  |             | Unknown        |            |
|-----------------------|---|----------------|-------------|----------------|------------|----------------|------------|-----------------------|-------------|------------------|-------------|----------------|------------|
|                       |   | Number         | Percent     | Number         | Percent    | Number         | Percent    | Number                | Percent     | Number           | Percent     | Number         | Percent    |
| <b>United States</b>  | <b>4,560,513</b>                                  | <b>936,686</b> | <b>20.5</b> | <b>118,887</b> | <b>2.6</b> | <b>112,495</b> | <b>2.5</b> | <b>1,321,970</b>      | <b>29.0</b> | <b>1,944,546</b> | <b>42.6</b> | <b>105,516</b> | <b>2.3</b> |
| Alabama               | 47,599  | 17,231         | 36.2        | 1,719          | 3.6        | 2,085          | 4.4        | 26,530                | 55.7        | 0                | 0.0         | 34             | 0.1        |
| Alaska*               | 18,566  | 4,351          | 23.4        | 767            | 4.1        | 654            | 3.5        | 3,034                 | 16.3        | 9,760            | 52.6        | 0              | 0.0        |
| Arizona*              | 152,920   | 31,138         | 20.4        | 4,987          | 3.3        | 2,590          | 1.7        | 29,961                | 19.6        | 84,244           | 55.1        | 0              | 0.0        |
| Arkansas*             | 33,268  | 61             | 0.2         | 8,059          | 24.2       | 233            | 0.7        | 14,473                | 43.5        | 10,269           | 30.9        | 173            | 0.5        |
| California*           | 423,543   | 77,860         | 18.4        | 9,339          | 2.2        | 1,531          | 0.4        | 133,341               | 31.5        | 201,472          | 47.6        | 0              | 0.0        |
| Colorado*             | 88,453  | 16,244         | 18.4        | DS             | DS         | 4,307          | 4.9        | 14,993                | 17.0        | 51,000           | 57.7        | DS             | DS         |
| Connecticut*          | 82,251  | 16,290         | 19.8        | 1,447          | 1.8        | 1,357          | 1.6        | 10,251                | 12.5        | 52,906           | 64.3        | 0              | 0.0        |
| Delaware*             | 21,115  | 4,907          | 23.2        | 248            | 1.2        | 709            | 3.4        | 2,724                 | 12.9        | 12,527           | 59.3        | 0              | 0.0        |
| District of Columbia* | 12,430  | 2,173          | 17.5        | 164            | 1.3        | 25             | 0.2        | 5,224                 | 42.0        | 4,844            | 39.0        | 0              | 0.0        |
| Florida               | 131,723   | 46,619         | 35.4        | 6,915          | 5.2        | 12,603         | 9.6        | 64,850                | 49.2        | 0                | 0.0         | 736            | 0.6        |
| Georgia               | 64,291  | 19,353         | 30.1        | 2,657          | 4.1        | 5,749          | 8.9        | 36,511                | 56.8        | 0                | 0.0         | 21             | 0.0        |
| Hawaii*               | 15,795  | 1,402          | 8.9         | 336            | 2.1        | 858            | 5.4        | 3,837                 | 24.3        | 9,362            | 59.3        | 0              | 0.0        |
| Idaho*                | 26,269  | 17,682         | 67.3        | 1,043          | 4.0        | 0              | 0.0        | 7,544                 | 28.7        | 0                | 0.0         | 0              | 0.0        |
| Illinois*             | 168,025   | 5,230          | 3.1         | DS             | DS         | 2,662          | 1.6        | 29,452                | 17.5        | 128,321          | 76.4        | DS             | DS         |
| Indiana*              | 108,280   | 9,591          | 8.9         | 1,867          | 1.7        | 7,916          | 7.3        | 18,725                | 17.3        | 70,153           | 64.8        | 28             | 0.0        |
| Iowa*                 | 52,380  | 10,828         | 20.7        | DS             | DS         | 1,934          | 3.7        | 10,767                | 20.6        | 27,752           | 53.0        | DS             | DS         |
| Kansas                | 21,008  | 7,124          | 33.9        | 826            | 3.9        | 1,355          | 6.4        | 8,198                 | 39.0        | 0                | 0.0         | 3,505          | 16.7       |
| Kentucky*             | 155,342   | 24,161         | 15.6        | 1,841          | 1.2        | 1,772          | 1.1        | 30,412                | 19.6        | 97,156           | 62.5        | 0              | 0.0        |
| Louisiana*            | 112,636   | 10,887         | 9.7         | 2,465          | 2.2        | 2,162          | 1.9        | 30,291                | 26.9        | 66,831           | 59.3        | 0              | 0.0        |
| Maine*                | 33,988  | 7,646          | 22.5        | 684            | 2.0        | 919            | 2.7        | 12,052                | 35.5        | 12,663           | 37.3        | 24             | 0.1        |
| Maryland*             | 111,371   | 24,454         | 22.0        | 2,411          | 2.2        | 1,542          | 1.4        | 23,657                | 21.2        | 59,307           | 53.3        | 0              | 0.0        |
| Massachusetts*        | 161,018   | 25,688         | 16.0        | 1,734          | 1.1        | 594            | 0.4        | 75,226                | 46.7        | 57,712           | 35.8        | 64             | 0.0        |
| Michigan*             | 184,390   | 40,958         | 22.2        | 2,159          | 1.2        | 1,485          | 0.8        | 44,774                | 24.3        | 95,014           | 51.5        | 0              | 0.0        |
| Minnesota*            | 96,796  | 19,482         | 20.1        | 4,858          | 5.0        | 2,388          | 2.5        | 24,655                | 25.5        | 45,413           | 46.9        | 0              | 0.0        |
| Mississippi           | 25,712  | 5,499          | 21.4        | 1,100          | 4.3        | 2,576          | 10.0       | 16,537                | 64.3        | 0                | 0.0         | 0              | 0.0        |
| Missouri              | 62,980  | 13,337         | 21.2        | 3,744          | 5.9        | 8,085          | 12.8       | 37,814                | 60.0        | 0                | 0.0         | 0              | 0.0        |
| Montana*              | 25,771  | 2,987          | 11.6        | 994            | 3.9        | 413            | 1.6        | 4,344                 | 16.9        | 17,033           | 66.1        | 0              | 0.0        |
| Nebraska              | 13,221  | 4,004          | 30.3        | 975            | 7.4        | DS             | DS         | 5,528                 | 41.8        | 1,759            | 13.3        | DS             | DS         |
| Nevada*               | 49,372  | 6,069          | 12.3        | 1,323          | 2.7        | 1,405          | 2.8        | 8,963                 | 18.2        | 31,612           | 64.0        | 0              | 0.0        |
| New Hampshire*        | 20,144  | 2,634          | 13.1        | 276            | 1.4        | 441            | 2.2        | 3,932                 | 19.5        | 12,861           | 63.8        | 0              | 0.0        |
| New Jersey*           | 99,031  | 10,264         | 10.4        | 2,228          | 2.2        | 527            | 0.5        | 26,974                | 27.2        | 57,996           | 58.6        | 1,042          | 1.1        |

Table A.4 (continued)

| State           | Total number of Medicaid beneficiaries with a SUD | Adult  |         | Children |         | Pregnant |         | Aged, blind, disabled |         | Expansion adult |         | Unknown |         |
|-----------------|---|--------|---------|----------|---------|----------|---------|-----------------------|---------|-----------------|---------|---------|---------|
|                 |   | Number | Percent | Number   | Percent | Number   | Percent | Number                | Percent | Number          | Percent | Number  | Percent |
| New Mexico*     | 65,171  | 12,146 | 18.6    | 2,644    | 4.1     | 775      | 1.2     | 11,207                | 17.2    | 38,399          | 58.9    | 0       | 0.0     |
| New York*       | 377,100   | 54,942 | 14.6    | 6,525    | 1.7     | DS       | DS      | 103,177               | 27.4    | 209,494         | 55.6    | DS      | DS      |
| North Carolina  | 105,873   | 41,311 | 39.0    | DS       | DS      | 3,541    | 3.3     | 59,565                | 56.3    | 0               | 0.0     | DS      | DS      |
| North Dakota*   | 9,240   | 1,560  | 16.9    | 450      | 4.9     | 656      | 7.1     | 1,979                 | 21.4    | 4,504           | 48.7    | 91      | 1.0     |
| Ohio*           | 354,713   | 85,145 | 24.0    | 12,790   | 3.6     | DS       | DS      | 86,265                | 24.3    | 165,652         | 46.7    | DS      | DS      |
| Oklahoma        | 39,590  | 11,668 | 29.5    | 1,532    | 3.9     | 4,955    | 12.5    | 21,435                | 54.1    | 0               | 0.0     | DS      | DS      |
| Oregon*         | 98,373  | 572    | 0.6     | 406      | 0.4     | 77       | 0.1     | 436                   | 0.4     | 723             | 0.7     | 96,159  | 97.7    |
| Pennsylvania*   | 268,946   | 40,243 | 15.0    | 4,693    | 1.7     | 3,867    | 1.4     | 79,537                | 29.6    | 140,606         | 52.3    | 0       | 0.0     |
| Puerto Rico*    | 12,499  | 872    | 7.0     | 279      | 2.2     | 17       | 0.1     | 4,358                 | 34.9    | 6,973           | 55.8    | 0       | 0.0     |
| Rhode Island*   | 21,371  | 3,932  | 18.4    | 728      | 3.4     | 35       | 0.2     | 6,204                 | 29.0    | 10,472          | 49.0    | 0       | 0.0     |
| South Carolina  | 42,224  | 18,219 | 43.1    | 3,083    | 7.3     | DS       | DS      | 18,403                | 43.6    | 0               | 0.0     | DS      | DS      |
| South Dakota    | 5,394   | 1,967  | 36.5    | 856      | 15.9    | DS       | DS      | 2,464                 | 45.7    | 0               | 0.0     | DS      | DS      |
| Tennessee       | DQ  | DQ     | DQ      | DQ       | DQ      | DQ       | DQ      | DQ                    | DQ      | DQ              | DQ      | DQ      | DQ      |
| Texas           | 100,163   | 14,710 | 14.7    | 8,387    | 8.4     | 17,967   | 17.9    | 58,999                | 58.9    | 0               | 0.0     | 100     | 0.1     |
| Utah*           | 29,545  | 3,748  | 12.7    | 752      | 2.5     | 1,899    | 6.4     | 6,266                 | 21.2    | 16,880          | 57.1    | 0       | 0.0     |
| Vermont*        | 18,710  | 2,092  | 11.2    | 480      | 2.6     | DS       | DS      | 4,369                 | 23.4    | 11,750          | 62.8    | DS      | DS      |
| Virginia*       | 105,802   | 74,712 | 70.6    | 2,060    | 1.9     | 3,602    | 3.4     | 25,399                | 24.0    | 0               | 0.0     | 29      | 0.0     |
| Virgin Islands* | 284   | DS     | DS      | 0        | 0.0     | 36       | 12.7    | 56                    | 19.7    | 156             | 54.9    | DS      | DS      |
| Washington*     | 144,777   | 21,240 | 14.7    | 3,951    | 2.7     | DS       | DS      | 28,953                | 20.0    | 89,049          | 61.5    | DS      | DS      |
| West Virginia*  | 55,656  | 7,308  | 13.1    | 684      | 1.2     | 680      | 1.2     | 11,453                | 20.6    | 31,921          | 57.4    | 3,610   | 6.5     |
| Wisconsin       | 81,842  | 53,078 | 64.9    | 1,421    | 1.7     | 2,996    | 3.7     | 24,347                | 29.7    | 0               | 0.0     | 0       | 0.0     |
| Wyoming         | 3,552   | 1,067  | 30.0    | DS       | DS      | 509      | 14.3    | 1,524                 | 42.9    | 0               | 0.0     | DS      | DS      |

Source: Analysis of the 2020 preliminary TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits.

Notes: For a definition of each Medicaid eligibility category, see Appendix E.

The U.S. average is an overall average of the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims.

Virginia expanded Medicaid in 2019 but did not have any beneficiaries in the expansion adult enrollment category in the 2020 data, indicating that the state's reporting has lagged behind the policy change. Idaho expanded Medicaid in 2020 but did not report any beneficiaries in the expansion adult enrollment category in 2020. Nebraska expanded Medicaid in October 2021 but the state reported some beneficiaries in the expansion adult enrollment category in 2020. Texas has not expanded Medicaid but reported a small number of expansion adult beneficiaries in 2020. These categorizations likely represent data errors.

In Arkansas, 0.2 percent of all Medicaid beneficiaries treated for a SUD in 2020 were in the adult enrollment category and 24 percent of all Medicaid beneficiaries treated for a SUD in 2020 were in the child-related enrollment category. This pattern may indicate errors in the state's reporting of an individual's eligibility group.

The percentages in this table may not sum to 100 within a state because of the polysubstance category and because beneficiaries can be treated for more than one SUD.

\*The state implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

Table A.4 (*continued*)

DS = Data suppressed for confidentiality reasons because the group included fewer than 11 beneficiaries. If the size of a group that a state did not report because of confidentiality can be identified by using other numbers from that state, we did not report a second group within that state. Slightly different totals across the tables are a function of differences in the need to suppress data from one table to the next.

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.

**Table A.5.i. Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by age group and disability status**

| State                 | Total number of Medicaid beneficiaries | Children (ages 12–18)                                      |                          |            |  |                          |            |
|-----------------------|--|--|--------------------------|------------|--|--------------------------|------------|
|                       |  | Eligible for Medicaid due to reasons other than disability |                          |            | Eligible for Medicaid on the basis of disability |                          |            |
|                       |  | Total number   | Number treated for a SUD | Percent    | Total number                                     | Number treated for a SUD | Percent    |
| <b>United States</b>  | <b>55,966,131</b>                      | <b>10,294,713</b>  | <b>101,683</b>           | <b>1.0</b> | <b>708,347</b>                                   | <b>11,012</b>            | <b>1.6</b> |
| Alabama               | 477,178                                | 141,942  | 1,327                    | 0.9        | 11,763   | 185                      | 1.6        |
| Alaska*               | 186,109                                | 30,031   | 471                      | 1.6        | 1,318  | 21                       | 1.6        |
| Arizona*              | 1,475,790                              | 267,455  | 4,672                    | 1.7        | 15,215   | 263                      | 1.7        |
| Arkansas*             | 670,555                                | 114,642  | 1,157                    | 1.0        | 14,105   | 266                      | 1.9        |
| California*           | 9,663,915                              | 1,356,930  | 9,554                    | 0.7        | 62,015   | 710                      | 1.1        |
| Colorado*             | 1,084,839                              | 187,503  | 1,616                    | 0.9        | 7,020  | 77                       | 1.1        |
| Connecticut*          | 750,119                                | 128,089  | 1,186                    | 0.9        | 385  | DS                       | DS         |
| Delaware*             | 180,501                                | 33,562   | 197                      | 0.6        | 2,688  | 36                       | 1.3        |
| District of Columbia* | 200,599                                | 19,340   | 69                       | 0.4        | 2,128  | 21                       | 1.0        |
| Florida               | 2,521,141                              | 682,054  | 4,585                    | 0.7        | 51,669   | 762                      | 1.5        |
| Georgia               | 1,116,235                              | 411,385  | 2,651                    | 0.6        | 23,461   | 244                      | 1.0        |
| Hawaii*               | 298,360                                | 45,461   | 273                      | 0.6        | 795  | DS                       | DS         |
| Idaho*                | 246,888                                | 50,217   | 992                      | 2.0        | 4,247  | 201                      | 4.7        |
| Illinois*             | 2,302,746                              | 400,324  | 3,836                    | 1.0        | 13,208   | 233                      | 1.8        |
| Indiana*              | 1,153,729                              | 208,628  | 1,605                    | 0.8        | 14,227   | 128                      | 0.9        |
| Iowa*                 | 518,468                                | 92,379   | 1,494                    | 1.6        | 6,744  | 186                      | 2.8        |
| Kansas                | 227,732                                | 70,226   | 1,306                    | 1.9        | 6,145  | 202                      | 3.3        |
| Kentucky*             | 1,244,580                              | 164,917  | 2,150                    | 1.3        | 15,520   | 328                      | 2.1        |
| Louisiana*            | 1,203,280                              | 211,072  | 1,873                    | 0.9        | 19,035   | 317                      | 1.7        |
| Maine*                | 243,750                                | 36,167   | 508                      | 1.4        | 3,101  | 57                       | 1.8        |
| Maryland*             | 1,019,693                              | 165,477  | 1,269                    | 0.8        | 11,535   | 169                      | 1.5        |
| Massachusetts*        | 1,343,550                              | 142,491  | 1,105                    | 0.8        | 30,671   | 322                      | 1.0        |
| Michigan*             | 2,144,205                              | 331,678  | 2,397                    | 0.7        | 19,606   | 235                      | 1.2        |
| Minnesota*            | 870,206                                | 182,170  | 2,551                    | 1.4        | 7,846  | 126                      | 1.6        |
| Mississippi           | 376,004                                | 118,491  | 924                      | 0.8        | 11,300   | 205                      | 1.8        |
| Missouri              | 640,704                                | 202,218  | 3,172                    | 1.6        | 1,638  | 20                       | 1.2        |
| Montana*              | 204,723                                | 33,211   | 849                      | 2.6        | 1,256  | 29                       | 2.3        |
| Nebraska              | 188,521                                | 50,428   | 855                      | 1.7        | 2,003  | 32                       | 1.6        |
| Nevada*               | 554,846                                | 103,453  | 1,121                    | 1.1        | 5,171  | 86                       | 1.7        |
| New Hampshire*        | 159,972                                | 31,668   | 214                      | 0.7        | 792  | DS                       | DS         |
| New Jersey*           | 1,273,197                              | 188,178  | 1,355                    | 0.7        | 14,910   | 285                      | 1.9        |

Table A.5.i (continued)

| State           | Total number of Medicaid beneficiaries | Children (ages 12–18)                                      |                          |         |  |                          |         |
|-----------------|--|--|--------------------------|---------|--|--------------------------|---------|
|                 |  | Eligible for Medicaid due to reasons other than disability |                          |         | Eligible for Medicaid on the basis of disability |                          |         |
|                 |  | Total number   | Number treated for a SUD | Percent | Total number                                     | Number treated for a SUD | Percent |
| New Mexico*     | 600,496                                | 116,295  | 2,219                    | 1.9     | 4,608  | 209                      | 4.5     |
| New York*       | 4,991,831                              | 575,104  | 4,821                    | 0.8     | 55,592   | 721                      | 1.3     |
| North Carolina  | 1,097,581                              | 326,778  | 2,794                    | 0.9     | 21,721   | 312                      | 1.4     |
| North Dakota*   | 78,841                                 | 13,668   | 396                      | 2.9     | 411  | DS                       | DS      |
| Ohio*           | 2,182,908                              | 334,580  | 6,681                    | 2.0     | 25,440   | 642                      | 2.5     |
| Oklahoma        | 486,831                                | 163,056  | 1,398                    | 0.9     | 962  | 14                       | 1.5     |
| Oregon*         | 855,040                                | 113,239  | 2,006                    | 1.8     | 62   | DS                       | DS      |
| Pennsylvania*   | 2,311,819                              | 311,692  | 4,168                    | 1.3     | 76,343   | 1,212                    | 1.6     |
| Puerto Rico*    | 1,235,769                              | 108,199  | 215                      | 0.2     | DS   | DS                       | DS      |
| Rhode Island*   | 241,697                                | 27,909   | 191                      | 0.7     | 2,687  | 32                       | 1.2     |
| South Carolina  | 678,920                                | 193,344  | 2,337                    | 1.2     | 11,531   | 180                      | 1.6     |
| South Dakota    | 66,215                                 | 23,090   | 796                      | 3.4     | 1,566  | 36                       | 2.3     |
| Tennessee       | DQ                                     | DQ   | DQ                       | DQ      | DQ   | DQ                       | DQ      |
| Texas           | 2,285,299                              | 989,797  | 7,866                    | 0.8     | 77,856   | 1,228                    | 1.6     |
| Utah*           | 256,550                                | 62,015   | 727                      | 1.2     | 2,925  | 40                       | 1.4     |
| Vermont*        | 135,064                                | 23,524   | 336                      | 1.4     | 667  | 11                       | 1.6     |
| Virginia*       | 1,109,619                              | 194,895  | 1,654                    | 0.8     | 14,113   | 184                      | 1.3     |
| Virgin Islands* | 22,229                                 | 748  | DS                       | DS      | DS   | DS                       | DS      |
| Washington*     | 1,438,197                              | 281,921  | 3,348                    | 1.2     | 9,776  | 142                      | 1.5     |
| West Virginia*  | 434,982                                | 65,112   | 635                      | 1.0     | 4,454  | 42                       | 0.9     |
| Wisconsin       | 873,848                                | 155,101  | 1,346                    | 0.9     | 15,302   | 244                      | 1.6     |
| Wyoming         | 40,260                                 | 12,859   | 415                      | 3.2     | 814  | 17                       | 2.1     |

**Table A.5.ii. Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by age group and disability status**

| State                 | Total number of Medicaid beneficiaries | Adults (ages 19–64)  |                          |            | Adults (ages 19–64)                              |                          |             | Aged (ages 65+)                                       |                          |            |
|-----------------------|--|--|--------------------------|------------|--|--------------------------|-------------|---|--------------------------|------------|
|                       |  | Eligible for Medicaid due to reasons other than disability |                          |            | Eligible for Medicaid on the basis of disability |                          |             | All aged beneficiaries, including the dually eligible |                          |            |
|                       |  | Total number   | Number treated for a SUD | Percent    | Total number                                     | Number treated for a SUD | Percent     | Total number  | Number treated for a SUD | Percent    |
| <b>United States</b>  | <b>55,966,131</b>                      | <b>32,033,320</b>  | <b>3,113,020</b>         | <b>9.7</b> | <b>6,636,663</b>                                 | <b>1,041,555</b>         | <b>15.7</b> | <b>6,293,081</b>                                      | <b>293,215</b>           | <b>4.7</b> |
| Alabama               | 477,178                                | 143,534  | 19,730                   | 13.7       | 128,482  | 23,165                   | 18.0        | 51,457  | 3,192                    | 6.2        |
| Alaska*               | 186,109                                | 127,356  | 15,004                   | 11.8       | 13,586   | 2,199                    | 16.2        | 13,818  | 871                      | 6.3        |
| Arizona*              | 1,475,790                              | 921,677  | 117,790                  | 12.8       | 127,458  | 22,922                   | 18.0        | 143,985   | 7,273                    | 5.1        |
| Arkansas*             | 670,555                                | 413,693  | 17,505                   | 4.2        | 79,633   | 11,159                   | 14.0        | 48,482  | 3,181                    | 6.6        |
| California*           | 9,663,915                              | 6,075,462  | 278,226                  | 4.6        | 762,902  | 93,370                   | 12.2        | 1,406,606   | 41,683                   | 3.0        |
| Colorado*             | 1,084,839                              | 746,524  | 71,437                   | 9.6        | 81,208   | 11,801                   | 14.5        | 62,584  | 3,522                    | 5.6        |
| Connecticut*          | 750,119                                | 532,098  | 70,298                   | 13.2       | 35,827   | 6,927                    | 19.3        | 53,720  | 3,836                    | 7.1        |
| Delaware*             | 180,501                                | 121,005  | 17,968                   | 14.8       | 13,331   | 2,320                    | 17.4        | 9,915   | 594                      | 6.0        |
| District of Columbia* | 200,599                                | 140,486  | 7,077                    | 5.0        | 22,551   | 3,859                    | 17.1        | 16,094  | 1,404                    | 8.7        |
| Florida               | 2,521,141                              | 962,507  | 61,393                   | 6.4        | 389,872  | 53,674                   | 13.8        | 435,039   | 11,309                   | 2.6        |
| Georgia               | 1,116,235                              | 371,684  | 25,123                   | 6.8        | 203,129  | 29,867                   | 14.7        | 106,576   | 6,406                    | 6.0        |
| Hawaii*               | 298,360                                | 199,360  | 11,596                   | 5.8        | 19,107   | 2,446                    | 12.8        | 33,637  | 1,472                    | 4.4        |
| Idaho*                | 246,888                                | 142,391  | 17,703                   | 12.4       | 32,416   | 5,796                    | 17.9        | 17,617  | 1,577                    | 9.0        |
| Illinois*             | 2,302,746                              | 1,498,360  | 133,550                  | 8.9        | 148,862  | 17,110                   | 11.5        | 241,992   | 13,296                   | 5.5        |
| Indiana*              | 1,153,729                              | 713,740  | 86,501                   | 12.1       | 121,864  | 14,378                   | 11.8        | 95,270  | 5,668                    | 5.9        |
| Iowa*                 | 518,468                                | 321,603  | 40,005                   | 12.4       | 61,832   | 8,657                    | 14.0        | 35,910  | 2,038                    | 5.7        |
| Kansas                | 227,732                                | 87,299   | 10,445                   | 12.0       | 36,736   | 6,909                    | 18.8        | 27,326  | 2,146                    | 7.9        |
| Kentucky*             | 1,244,580                              | 847,920  | 122,170                  | 14.4       | 135,306  | 25,779                   | 19.1        | 80,917  | 4,915                    | 6.1        |
| Louisiana*            | 1,203,280                              | 729,906  | 80,178                   | 11.0       | 159,904  | 24,835                   | 15.5        | 83,363  | 5,433                    | 6.5        |
| Maine*                | 243,750                                | 129,911  | 21,371                   | 16.5       | 46,290   | 9,845                    | 21.3        | 28,281  | 2,207                    | 7.8        |
| Maryland*             | 1,019,693                              | 680,964  | 86,005                   | 12.6       | 96,654   | 20,305                   | 21.0        | 65,063  | 3,623                    | 5.6        |
| Massachusetts*        | 1,343,550                              | 704,225  | 84,272                   | 12.0       | 277,254  | 59,466                   | 21.4        | 188,909   | 15,853                   | 8.4        |
| Michigan*             | 2,144,205                              | 1,310,046  | 136,671                  | 10.4       | 295,969  | 38,993                   | 13.2        | 186,906   | 6,094                    | 3.3        |
| Minnesota*            | 870,206                                | 501,789  | 69,280                   | 13.8       | 96,863   | 17,473                   | 18.0        | 81,538  | 7,366                    | 9.0        |
| Mississippi           | 376,004                                | 97,440   | 8,249                    | 8.5        | 99,701   | 12,963                   | 13.0        | 49,072  | 3,371                    | 6.9        |
| Missouri              | 640,704                                | 176,972  | 21,984                   | 12.4       | 173,187  | 33,843                   | 19.5        | 86,689  | 3,961                    | 4.6        |
| Montana*              | 204,723                                | 139,419  | 20,473                   | 14.7       | 17,714   | 3,220                    | 18.2        | 13,123  | 1,200                    | 9.1        |
| Nebraska              | 188,521                                | 79,319   | 6,838                    | 8.6        | 34,028   | 4,463                    | 13.1        | 22,743  | 1,033                    | 4.5        |
| Nevada*               | 554,846                                | 386,306  | 39,061                   | 10.1       | 34,953   | 6,894                    | 19.7        | 24,963  | 2,210                    | 8.9        |

Table A.5.ii (continued)

| State           | Total number of Medicaid beneficiaries | Adults (ages 19–64)  |                          |         | Adults (ages 19–64)                              |                          |         | Aged (ages 65+)                                       |                          |         |
|-----------------|--|--|--------------------------|---------|--|--------------------------|---------|---|--------------------------|---------|
|                 |  | Eligible for Medicaid due to reasons other than disability |                          |         | Eligible for Medicaid on the basis of disability |                          |         | All aged beneficiaries, including the dually eligible |                          |         |
|                 |  | Total number   | Number treated for a SUD | Percent | Total number                                     | Number treated for a SUD | Percent | Total number  | Number treated for a SUD | Percent |
| New Hampshire*  | 159,972                                | 97,250   | 15,943                   | 16.4    | 17,770   | 3,242                    | 18.2    | 12,492  | 736                      | 5.9     |
| New Jersey*     | 1,273,197                              | 825,396  | 70,169                   | 8.5     | 112,902  | 20,409                   | 18.1    | 131,811   | 6,813                    | 5.2     |
| New Mexico*     | 600,496                                | 404,796  | 51,531                   | 12.7    | 44,503   | 9,279                    | 20.9    | 30,294  | 1,933                    | 6.4     |
| New York*       | 4,991,831                              | 3,292,327  | 266,980                  | 8.1     | 437,442  | 76,323                   | 17.4    | 631,366   | 28,255                   | 4.5     |
| North Carolina  | 1,097,581                              | 341,034  | 43,504                   | 12.8    | 267,644  | 49,045                   | 18.3    | 140,404   | 10,218                   | 7.3     |
| North Dakota*   | 78,841                                 | 46,115   | 6,842                    | 14.8    | 9,918  | 1,467                    | 14.8    | 8,729   | 531                      | 6.1     |
| Ohio*           | 2,182,908                              | 1,359,762  | 260,450                  | 19.2    | 283,783  | 68,156                   | 24.0    | 179,343   | 18,784                   | 10.5    |
| Oklahoma        | 486,831                                | 163,256  | 16,757                   | 10.3    | 98,833   | 16,482                   | 16.7    | 60,724  | 4,939                    | 8.1     |
| Oregon*         | 855,040                                | 678,005  | 90,747                   | 13.4    | 1,714  | 281                      | 16.4    | 62,020  | 5,337                    | 8.6     |
| Pennsylvania*   | 2,311,819                              | 1,288,547  | 184,819                  | 14.3    | 390,330  | 65,908                   | 16.9    | 244,907   | 12,839                   | 5.2     |
| Puerto Rico*    | 1,235,769                              | 743,186  | 7,787                    | 1.0     | 99,589   | 1,722                    | 1.7     | 284,789   | 2,775                    | 1.0     |
| Rhode Island*   | 241,697                                | 152,922  | 14,753                   | 9.6     | 32,087   | 5,331                    | 16.6    | 26,092  | 1,064                    | 4.1     |
| South Carolina  | 678,920                                | 236,715  | 21,471                   | 9.1     | 139,976  | 15,610                   | 11.2    | 97,354  | 2,626                    | 2.7     |
| South Dakota    | 66,215                                 | 19,690   | 2,128                    | 10.8    | 13,143   | 1,853                    | 14.1    | 8,726   | 581                      | 6.7     |
| Tennessee       | DQ                                     | DQ   | DQ                       | DQ      | DQ   | DQ                       | DQ      | DQ  | DQ                       | DQ      |
| Texas           | 2,285,299                              | 502,524  | 33,287                   | 6.6     | 417,694  | 49,219                   | 11.8    | 297,428   | 8,563                    | 2.9     |
| Utah*           | 256,550                                | 138,184  | 22,525                   | 16.3    | 34,916   | 5,245                    | 15.0    | 18,510  | 1,008                    | 5.4     |
| Vermont*        | 135,064                                | 81,319   | 13,930                   | 17.1    | 17,513   | 3,511                    | 20.0    | 12,041  | 922                      | 7.7     |
| Virginia*       | 1,109,619                              | 680,881  | 78,348                   | 11.5    | 122,639  | 20,173                   | 16.4    | 97,091  | 5,443                    | 5.6     |
| Virgin Islands* | 22,229                                 | 17,217   | 225                      | 1.3     | 537  | 15                       | 2.8     | 3,726   | 43                       | 1.2     |
| Washington*     | 1,438,197                              | 912,500  | 111,996                  | 12.3    | 128,657  | 23,161                   | 18.0    | 105,343   | 6,130                    | 5.8     |
| West Virginia*  | 434,982                                | 271,305  | 43,308                   | 16.0    | 62,951   | 9,419                    | 15.0    | 31,160  | 2,252                    | 7.2     |
| Wisconsin       | 873,848                                | 464,014  | 56,006                   | 12.1    | 147,314  | 19,920                   | 13.5    | 92,117  | 4,326                    | 4.7     |
| Wyoming         | 40,260                                 | 13,379   | 1,611                    | 12.0    | 8,189  | 1,146                    | 14.0    | 5,019   | 363                      | 7.2     |

Source: Analysis of the 2020 preliminary TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits.

Notes: The U.S. average is an overall average of the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims.

We used eligibility group and age to identify beneficiaries who were eligible for Medicaid on the basis of disability. Beneficiaries whose eligibility was unknown were considered “not disabled” for this analysis.

Results for the aged group (65 and older) are not broken out by enrollment category because virtually all of these beneficiaries are dually eligible.

\*The state implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

Table A.5.ii (*continued*)

DS = Data suppressed for confidentiality reasons because the group included fewer than 11 beneficiaries. If the size of a group that a state did not report because of confidentiality can be identified by using other numbers from that state, we did not report a second group within that state. Slightly different totals across the tables are a function of differences in the need to suppress data from one table to the next.

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.



**Table A.6. Distribution of Medicaid beneficiaries treated for a SUD in 2020, by age group and disability status**

| State                 | Total number of Medicaid beneficiaries treated for a SUD | Children (ages 12–18)                                      |            |  |            | Adults (ages 19–64)  |             |  |             | Aged (ages 65+)                          |            |
|-----------------------|--|--|------------|--|------------|--|-------------|--|-------------|--|------------|
|                       |  | Eligible for Medicaid due to reasons other than disability |            | Eligible for Medicaid on the basis of disability |            | Eligible for Medicaid due to reasons other than disability |             | Eligible for Medicaid on the basis of disability |             | All aged beneficiaries treated for a SUD |            |
|                       |  | Number treated for a SUD                                   | Percent    | Number treated for a SUD                         | Percent    | Number treated for a SUD                                   | Percent     | Number treated for a SUD                         | Percent     | Number treated for a SUD                 | Percent    |
| <b>United States</b>  | <b>4,560,513</b>   | <b>99,614</b>  | <b>2.2</b> | <b>11,012</b>                                    | <b>0.2</b> | <b>3,113,020</b>   | <b>68.3</b> | <b>1,041,259</b>                                 | <b>22.8</b> | <b>293,215</b>                           | <b>6.4</b> |
| Alabama               | 47,599   | 1,327  | 2.8        | 185  | 0.4        | 19,730   | 41.5        | 23,165   | 48.7        | 3,192                                    | 6.7        |
| Alaska*               | 18,566   | 471  | 2.5        | 21   | 0.1        | 15,004   | 80.8        | 2,199  | 11.8        | 871                                      | 4.7        |
| Arizona*              | 152,920  | 4,672  | 3.1        | 263  | 0.2        | 117,790  | 77.0        | 22,922   | 15.0        | 7,273                                    | 4.8        |
| Arkansas*             | 33,268   | 1,157  | 3.5        | 266  | 0.8        | 17,505   | 52.6        | 11,159   | 33.5        | 3,181                                    | 9.6        |
| California*           | 423,543  | 9,554  | 2.3        | 710  | 0.2        | 278,226  | 65.7        | 93,370   | 22.0        | 41,683                                   | 9.8        |
| Colorado*             | 88,453   | 1,616  | 1.8        | 77   | 0.1        | 71,437   | 80.8        | 11,801   | 13.3        | 3,522                                    | 4.0        |
| Connecticut*          | 82,251   | DS   | DS         | DS   | DS         | 70,298   | 85.5        | 6,927  | 8.4         | 3,836                                    | 4.7        |
| Delaware*             | 21,115   | 197  | 0.9        | 36   | 0.2        | 17,968   | 85.1        | 2,320  | 11.0        | 594                                      | 2.8        |
| District of Columbia* | 12,430   | 69   | 0.6        | 21   | 0.2        | 7,077  | 56.9        | 3,859  | 31.0        | 1,404                                    | 11.3       |
| Florida               | 131,723  | 4,585  | 3.5        | 762  | 0.6        | 61,393   | 46.6        | 53,674   | 40.7        | 11,309                                   | 8.6        |
| Georgia               | 64,291   | 2,651  | 4.1        | 244  | 0.4        | 25,123   | 39.1        | 29,867   | 46.5        | 6,406                                    | 10.0       |
| Hawaii*               | 15,795   | DS   | DS         | DS   | DS         | 11,596   | 73.4        | 2,446  | 15.5        | 1,472                                    | 9.3        |
| Idaho*                | 26,269   | 992  | 3.8        | 201  | 0.8        | 17,703   | 67.4        | 5,796  | 22.1        | 1,577                                    | 6.0        |
| Illinois*             | 168,025  | 3,836  | 2.3        | 233  | 0.1        | 133,550  | 79.5        | 17,110   | 10.2        | 13,296                                   | 7.9        |
| Indiana*              | 108,280  | 1,605  | 1.5        | 128  | 0.1        | 86,501   | 79.9        | 14,378   | 13.3        | 5,668                                    | 5.2        |
| Iowa*                 | 52,380   | 1,494  | 2.9        | 186  | 0.4        | 40,005   | 76.4        | 8,657  | 16.5        | 2,038                                    | 3.9        |
| Kansas                | 21,008   | 1,306  | 6.2        | 202  | 1.0        | 10,445   | 49.7        | 6,909  | 32.9        | 2,146                                    | 10.2       |
| Kentucky*             | 155,342  | 2,150  | 1.4        | 328  | 0.2        | 122,170  | 78.6        | 25,779   | 16.6        | 4,915                                    | 3.2        |
| Louisiana*            | 112,636  | 1,873  | 1.7        | 317  | 0.3        | 80,178   | 71.2        | 24,835   | 22.0        | 5,433                                    | 4.8        |
| Maine*                | 33,988   | 508  | 1.5        | 57   | 0.2        | 21,371   | 62.9        | 9,845  | 29.0        | 2,207                                    | 6.5        |
| Maryland*             | 111,371  | 1,269  | 1.1        | 169  | 0.2        | 86,005   | 77.2        | 20,305   | 18.2        | 3,623                                    | 3.3        |
| Massachusetts*        | 161,018  | 1,105  | 0.7        | 322  | 0.2        | 84,272   | 52.3        | 59,466   | 36.9        | 15,853                                   | 9.8        |
| Michigan*             | 184,390  | 2,397  | 1.3        | 235  | 0.1        | 136,671  | 74.1        | 38,993   | 21.1        | 6,094                                    | 3.3        |
| Minnesota*            | 96,796   | 2,551  | 2.6        | 126  | 0.1        | 69,280   | 71.6        | 17,473   | 18.1        | 7,366                                    | 7.6        |
| Mississippi           | 25,712   | 924  | 3.6        | 205  | 0.8        | 8,249  | 32.1        | 12,963   | 50.4        | 3,371                                    | 13.1       |
| Missouri              | 62,980   | 3,172  | 5.0        | 20   | 0.0        | 21,984   | 34.9        | 33,843   | 53.7        | 3,961                                    | 6.3        |
| Montana*              | 25,771   | 849  | 3.3        | 29   | 0.1        | 20,473   | 79.4        | 3,220  | 12.5        | 1,200                                    | 4.7        |
| Nebraska              | 13,221   | 855  | 6.5        | 32   | 0.2        | 6,838  | 51.7        | 4,463  | 33.8        | 1,033                                    | 7.8        |

Table A.6 (continued)

| State           | Total number of Medicaid beneficiaries treated for a SUD | Children (ages 12–18)                                      |         |  |         | Adults (ages 19–64)  |         |  |         | Aged (ages 65+)                          |         |
|-----------------|--|--|---------|--|---------|--|---------|--|---------|--|---------|
|                 |  | Eligible for Medicaid due to reasons other than disability |         | Eligible for Medicaid on the basis of disability |         | Eligible for Medicaid due to reasons other than disability |         | Eligible for Medicaid on the basis of disability |         | All aged beneficiaries treated for a SUD |         |
|                 |  | Number treated for a SUD                                   | Percent | Number treated for a SUD                         | Percent | Number treated for a SUD                                   | Percent | Number treated for a SUD                         | Percent | Number treated for a SUD                 | Percent |
| Nevada*         | 49,372   | 1,121  | 2.3     | 86   | 0.2     | 39,061   | 79.1    | 6,894  | 14.0    | 2,210                                    | 4.5     |
| New Hampshire*  | 20,144   | DS   | DS      | DS   | DS      | 15,943   | 79.1    | 3,242  | 16.1    | 736                                      | 3.7     |
| New Jersey*     | 99,031   | 1,355  | 1.4     | 285  | 0.3     | 70,169   | 70.9    | 20,409   | 20.6    | 6,813                                    | 6.9     |
| New Mexico*     | 65,171   | 2,219  | 3.4     | 209  | 0.3     | 51,531   | 79.1    | 9,279  | 14.2    | 1,933                                    | 3.0     |
| New York*       | 377,100  | 4,821  | 1.3     | 721  | 0.2     | 266,980  | 70.8    | 76,323   | 20.2    | 28,255                                   | 7.5     |
| North Carolina  | 105,873  | 2,794  | 2.6     | 312  | 0.3     | 43,504   | 41.1    | 49,045   | 46.3    | 10,218                                   | 9.7     |
| North Dakota*   | 9,240  | DS   | DS      | DS   | DS      | 6,842  | 74.0    | 1,467  | 15.9    | 531                                      | 5.7     |
| Ohio*           | 354,713  | 6,681  | 1.9     | 642  | 0.2     | 260,450  | 73.4    | 68,156   | 19.2    | 18,784                                   | 5.3     |
| Oklahoma        | 39,590   | 1,398  | 3.5     | 14   | 0.0     | 16,757   | 42.3    | 16,482   | 41.6    | 4,939                                    | 12.5    |
| Oregon*         | 98,373   | 2,006  | 2.0     | DS   | DS      | 90,747   | 92.2    | DS   | DS      | 5,337                                    | 5.4     |
| Pennsylvania*   | 268,946  | 4,168  | 1.5     | 1,212  | 0.5     | 184,819  | 68.7    | 65,908   | 24.5    | 12,839                                   | 4.8     |
| Puerto Rico*    | 12,499   | 215  | 1.7     | 0  | 0.0     | 7,787  | 62.3    | 1,722  | 13.8    | 2,775                                    | 22.2    |
| Rhode Island*   | 21,371   | 191  | 0.9     | 32   | 0.1     | 14,753   | 69.0    | 5,331  | 24.9    | 1,064                                    | 5.0     |
| South Carolina  | 42,224   | 2,337  | 5.5     | 180  | 0.4     | 21,471   | 50.9    | 15,610   | 37.0    | 2,626                                    | 6.2     |
| South Dakota    | 5,394  | 796  | 14.8    | 36   | 0.7     | 2,128  | 39.5    | 1,853  | 34.4    | 581                                      | 10.8    |
| Tennessee       | DQ   | DQ   | DQ      | DQ   | DQ      | DQ   | DQ      | DQ   | DQ      | DQ                                       | DQ      |
| Texas           | 100,163  | 7,866  | 7.9     | 1,228  | 1.2     | 33,287   | 33.2    | 49,219   | 49.1    | 8,563                                    | 8.5     |
| Utah*           | 29,545   | 727  | 2.5     | 40   | 0.1     | 22,525   | 76.2    | 5,245  | 17.8    | 1,008                                    | 3.4     |
| Vermont*        | 18,710   | 336  | 1.8     | 11   | 0.1     | 13,930   | 74.5    | 3,511  | 18.8    | 922                                      | 4.9     |
| Virginia*       | 105,802  | 1,654  | 1.6     | 184  | 0.2     | 78,348   | 74.1    | 20,173   | 19.1    | 5,443                                    | 5.1     |
| Virgin Islands* | 284  | DS   | DS      | 0  | 0.0     | 225  | 79.2    | DS   | DS      | 43                                       | 15.1    |
| Washington*     | 144,777  | 3,348  | 2.3     | 142  | 0.1     | 111,996  | 77.4    | 23,161   | 16.0    | 6,130                                    | 4.2     |
| West Virginia*  | 55,656   | 635  | 1.1     | 42   | 0.1     | 43,308   | 77.8    | 9,419  | 16.9    | 2,252                                    | 4.0     |
| Wisconsin       | 81,842   | 1,346  | 1.6     | 244  | 0.3     | 56,006   | 68.4    | 19,920   | 24.3    | 4,326                                    | 5.3     |
| Wyoming         | 3,552  | 415  | 11.7    | 17   | 0.5     | 1,611  | 45.4    | 1,146  | 32.3    | 363                                      | 10.2    |

Source: Analysis of the 2020 preliminary TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits.

Notes: The U.S. average is an overall average of the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims. Appendix B includes detailed information on how we identified SUD treatment.

We used eligibility group and age to identify beneficiaries who were eligible for Medicaid on the basis of disability. Beneficiaries whose eligibility was unknown were considered “not disabled” for this analysis.

Table A.6 (*continued*)

Results for the aged group (65 and older) are not broken down by enrollment category because virtually all of these beneficiaries are dually eligible.

\*The state implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

DS = Data suppressed for confidentiality reasons because the group included fewer than 11 beneficiaries. If the size of a group that a state did not report because of confidentiality can be identified by using other numbers from that state, we did not report a second group within that state. Slightly different totals across the tables are a function of differences in the need to suppress data from one table to the next.

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.

**Table A.7. Number and percentage of Medicaid beneficiaries treated for a SUD in 2020 who were dually eligible for Medicare, and beneficiaries who were dually eligible and treated for a SUD**

| State                 | Total number of Medicaid beneficiaries treated for a SUD (1) | Number of full-benefit dually eligible beneficiaries (2) | Number of full-benefit dually eligible beneficiaries treated for a SUD (3) | Percentage of beneficiaries who were treated for a SUD who were dually eligible (3)/(1) | Percentage of dually eligible beneficiaries who were treated for a SUD (3)/(2) |
|-----------------------|--|--|--|---|--|
| <b>United States</b>  | <b>4,560,513</b>   | <b>8,975,543</b>   | <b>632,199</b>   | <b>13.9</b>   | <b>7.0</b>   |
| Alabama               | 47,599   | 93,668   | 7,387  | 15.5  | 7.9  |
| Alaska*               | 18,566   | 20,799   | 1,845  | 9.9   | 8.9  |
| Arizona*              | 152,920  | 217,467  | 18,130   | 11.9  | 8.3  |
| Arkansas*             | 33,268   | 79,446   | 6,711  | 20.2  | 8.4  |
| California*           | 423,543  | 1,646,883  | 65,715   | 15.5  | 4.0  |
| Colorado*             | 88,453   | 99,739   | 7,493  | 8.5   | 7.5  |
| Connecticut*          | 82,251   | 73,791   | 7,194  | 8.7   | 9.7  |
| Delaware*             | 21,115   | 16,323   | 1,303  | 6.2   | 8.0  |
| District of Columbia* | 12,430   | 22,679   | 2,249  | 18.1  | 9.9  |
| Florida               | 131,723  | 557,433  | 20,737   | 15.7  | 3.7  |
| Georgia               | 64,291   | 162,240  | 11,920   | 18.5  | 7.3  |
| Hawaii*               | 15,795   | 43,024   | 2,480  | 15.7  | 5.8  |
| Idaho*                | 26,269   | 31,406   | 3,951  | 15.0  | 12.6   |
| Illinois*             | 168,025  | 335,656  | 24,568   | 14.6  | 7.3  |
| Indiana*              | 108,280  | 176,528  | 14,543   | 13.4  | 8.2  |
| Iowa*                 | 52,380   | 78,161   | 7,164  | 13.7  | 9.2  |
| Kansas                | 21,008   | 45,699   | 4,639  | 22.1  | 10.2   |
| Kentucky*             | 155,342  | 141,680  | 12,607   | 8.1   | 8.9  |
| Louisiana*            | 112,636  | 146,608  | 12,272   | 10.9  | 8.4  |
| Maine*                | 33,988   | 57,132   | 7,614  | 22.4  | 13.3   |
| Maryland*             | 111,371  | 102,073  | 8,832  | 7.9   | 8.7  |
| Massachusetts*        | 161,018  | 342,214  | 49,390   | 30.7  | 14.4   |
| Michigan*             | 184,390  | 292,128  | 14,730   | 8.0   | 5.0  |
| Minnesota*            | 96,796   | 137,470  | 17,645   | 18.2  | 12.8   |
| Mississippi           | 25,712   | 91,136   | 7,821  | 30.4  | 8.6  |
| Missouri              | 62,980   | 165,203  | 13,839   | 22.0  | 8.4  |
| Montana*              | 25,771   | 23,096   | 2,818  | 10.9  | 12.2   |
| Nebraska              | 13,221   | 39,819   | 2,970  | 22.5  | 7.5  |
| Nevada*               | 49,372   | 39,551   | 4,487  | 9.1   | 11.3   |
| New Hampshire*        | 20,144   | 24,073   | 2,747  | 13.6  | 11.4   |
| New Jersey*           | 99,031   | 186,380  | 16,789   | 17.0  | 9.0  |
| New Mexico*           | 65,171   | 47,613   | 4,367  | 6.7   | 9.2  |
| New York*             | 377,100  | 813,812  | 55,323   | 14.7  | 6.8  |
| North Carolina        | 105,873  | 253,003  | 25,546   | 24.1  | 10.1   |
| North Dakota*         | 9,240  | 15,205   | 1,435  | 15.5  | 9.4  |
| Ohio*                 | 354,713  | 270,564  | 39,068   | 11.0  | 14.4   |
| Oklahoma              | 39,590   | 105,302  | 10,701   | 27.0  | 10.2   |
| Oregon*               | 98,373   | 89,044   | 9,255  | 9.4   | 10.4   |
| Pennsylvania*         | 268,946  | 358,330  | 26,699   | 9.9   | 7.5  |
| Puerto Rico*          | 12,499   | 358,458  | 3,860  | 30.9  | 1.1  |
| Rhode Island*         | 21,371   | 43,578   | 3,324  | 15.6  | 7.6  |
| South Carolina        | 42,224   | 174,858  | 7,431  | 17.6  | 4.2  |

Table A.7 (continued)

| State           | Total number of Medicaid beneficiaries treated for a SUD (1) | Number of full-benefit dually eligible beneficiaries (2) | Number of full-benefit dually eligible beneficiaries treated for a SUD (3) | Percentage of beneficiaries who were treated for a SUD who were dually eligible (3)/(1) | Percentage of dually eligible beneficiaries who were treated for a SUD (3)/(2) |
|-----------------|--|--|--|---|--|
| South Dakota    | 5,394  | 14,641   | 1,178  | 21.8  | 8.0  |
| Tennessee       | DQ   | DQ   | DQ   | DQ  | DQ   |
| Texas           | 100,163  | 408,854  | 16,732   | 16.7  | 4.1  |
| Utah*           | 29,545   | 32,598   | 2,622  | 8.9   | 8.0  |
| Vermont*        | 18,710   | 21,790   | 2,838  | 15.2  | 13.0   |
| Virginia*       | 105,802  | 141,892  | 11,418   | 10.8  | 8.0  |
| Virgin Islands* | 284  | 4,131  | 56   | 19.7  | 1.4  |
| Washington*     | 144,777  | 151,656  | 13,583   | 9.4   | 9.0  |
| West Virginia*  | 55,656   | 217  | 18   | 0.0   | 8.3  |
| Wisconsin       | 81,842   | 173,610  | 13,458   | 16.4  | 7.8  |
| Wyoming         | 3,552  | 6,882  | 697  | 19.6  | 10.1   |

Source: Analysis of the 2020 preliminary TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits.

Notes: The U.S. average is an overall average of the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims. Appendix B includes detailed information on how we identified SUD treatment.

\*The state implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

DS = Data suppressed for confidentiality reasons because the group included fewer than 11 beneficiaries. If the size of a group that a state did not report because of confidentiality can be identified by using other numbers from that state, we did not report a second group within that state. Slightly different totals across the tables are a function of differences in the need to suppress data from one table to the next.

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.

## B. SUD services provided by state Medicaid programs

Section 1015(a)(2)(B) of the SUPPORT Act requires the SUD Data Book to provide a list of the SUD treatment services by each major type of service for which beneficiaries in each state received at least one service under the state Medicaid plan or a waiver of such plan.<sup>86</sup> Table B.1 provides information on the types of services available to Medicaid beneficiaries generally (and reported in this SUD Data Book); Table B.2 provides information on the number of states that do not provide the services. These tables and the analysis that follows are based on information available in the T-MSIS claims and managed care encounter records that states report to CMS, and represent services provided to Medicaid beneficiaries. This analysis does not necessarily represent what is included in a state’s Medicaid plan, its section 1115 demonstration, or its Medicaid and CHIP Program data.

Most states have at least one Medicaid beneficiary who received each type of service. There were 10 services that all states provided to at least one Medicaid beneficiary.<sup>87</sup> The 2 services most frequently not provided were peer support and partial hospitalization, which fewer states provide to Medicaid beneficiaries compared to other categories of SUD treatment services (Table B.2).

**Table B.1. SUD treatment services used by Medicaid beneficiaries**

| SUD treatment services | Description   |
|------------------------|---|
| Case management        | Offers beneficiaries a single point of contact with the health and social service systems. Promotes continuity of care and provides support and advocacy for beneficiaries.   |
| Community support      | Services that take place in the community, such as assertive community support, personal care services that occur outside of an inpatient or residential facility, halfway house services or mental health clubhouse services.  |
| Consultation           | A procedure in which a patient meets with a provider, and the provider reviews the patient’s medical history, examines the patient, and recommends a course of treatment, in an inpatient or office setting.  |
| Counseling             | Therapeutic interventions intended to improve a beneficiary’s sense of well-being, alleviate feelings of distress, and resolve crises. Includes various types of evidence-based treatments, such as cognitive behavioral therapy, behavior modification strategies, individual psychotherapy, and group counseling for SUD. |
| Detoxification         | A set of services designed to manage acute symptoms and withdrawal following intoxication or dependence on substances. It can include medication and can be a precursor to continued treatment.   |
| Emergency services     | Services delivered in an emergency department.  |
| Inpatient care         | Services delivered in an inpatient hospital setting.  |
| Intervention services  | Crisis intervention services typically offered to patients in acute crisis.   |
| MAT                    | Treatment that consists of medications intended to reduce the symptoms of a SUD; often augmented with counseling or other behavioral therapeutic interventions. For the purposes of this report, MAT also includes medication used to counteract overdose.  |
| Medication management  | Medication training, support, and management services provided by a prescriber to a patient to facilitate adherence to medication.  |
| Observation care       | An observation status in a hospital setting at which point a provider decides whether an inpatient admission is necessary.  |

<sup>86</sup> We use the statutory language “or a waiver of such plan” here and in Appendix Table F.1, and interpret this language as intended to refer to section 1115 demonstration projects that do not necessarily involve the use of “waivers.” See above discussion of section 1115 demonstrations, and the authority under section 1115(a)(2) to provide FFP in payments for which FFP would otherwise not be allowed under the IMD exclusion.

<sup>87</sup> These services are counseling, detoxification, emergency services, inpatient care, intervention services, MAT, observation care, physician services, pharmacotherapy, and screening and assessment.

Table B.1. (continued)

| SUD treatment services   | Description  |
|--------------------------|--|
| Partial hospitalization  | A structured program of outpatient services delivered to a beneficiary in an inpatient setting during the day that do not require an overnight stay. |
| Peer supports            | Nonclinical assistance provided by individuals who are credentialed by states and self-identified as in recovery from mental illness and/or SUD.     |
| Physician services       | Outpatient services—typically evaluation and management—provided by physicians.  |
| Pharmacotherapy          | Pharmacotherapy for SUD that cannot be specifically categorized as MAT.  |
| Screening and assessment | Using validated instruments to identify individuals with a SUD and help determine course of treatment.   |
| Treatment program        | Residential or intensive outpatient treatment for a SUD.   |
| Other services           | These services include those without sufficient detail to be categorized and those that do not fit into any of the other categories.                 |

**Table B.2. SUD treatment service types *not* billed, by state**

| Service                  | Number of states and territories that <i>do not</i> have claims for the service | States and territories that <i>do not</i> have claims for the service  |
|--------------------------|---|--|
| Case management          | 5   | Alabama, Nebraska, Puerto Rico,* South Dakota, Virgin Islands*   |
| Community support        | 1   | Virgin Islands*  |
| Consultation             | 2   | Montana,* Virgin Islands*  |
| Counseling               | 0   | —  |
| Detoxification           | 0   | —  |
| Emergency services       | 0   | —  |
| Inpatient care           | 0   | —  |
| Intervention services    | 0   | —  |
| MAT                      | 0   | —  |
| Medication management    | 5   | Hawaii,* Montana,* Nebraska, South Dakota, Virgin Islands*   |
| Observation care         | 0   | —  |
| Partial hospitalization  | 8   | Colorado,* District of Columbia,* Illinois,* Maine,* South Carolina, Virgin Islands,* Wisconsin,* Wyoming  |
| Peer support             | 13  | Connecticut,* District of Columbia,* Illinois,* Louisiana,* Maine,* Maryland,* North Dakota,* Oklahoma, Puerto Rico,* South Dakota, Vermont,* Virgin Islands,* Wisconsin |
| Physician services       | 0   | —  |
| Pharmacotherapy          | 0   | —  |
| Screening and assessment | 0   | —  |
| Treatment program        | 3   | Oklahoma,* Virgin Islands,* Wyoming  |
| Other services           | 1   | Virgin Islands*  |

Source: Analysis of the 2020 preliminary TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits.

Note: "Other services" are services without sufficient detail to be categorized and services that do not fit into any of the other categories.

\*The state implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.



### C. SUD services provided by state Medicaid programs, by service type and setting

Section 1015(a)(2)(C) of the SUPPORT Act requires the SUD Data Book to provide the number and percentage of individuals with a SUD diagnosis who received SUD treatment services under either the Medicaid plan or a waiver program by major type of service identified in Section B above and by major setting type, such as outpatient, inpatient, residential, and other home- and community-based settings.<sup>88</sup> Table C.1 provides the number and percentage of Medicaid beneficiaries treated for a SUD in 2020 by service type; Table C.2 provides the same information by service setting. We present these tables separately to avoid issues related to examining cross-tabulations of multiple variables simultaneously.<sup>89</sup>

**Table C.1. Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by service type**

- Acute care services, which include inpatient care and emergency services, were the most common SUD treatment service received by Medicaid beneficiaries treated for a SUD. Forty-two percent of beneficiaries received emergency services (the most common SUD treatment service among beneficiaries treated for a SUD), followed by inpatient care (40 percent). The share of beneficiaries who received acute care services for a SUD varied widely across states and territories, from 62 percent in Alabama and the Virgin Islands<sup>90</sup> to 8 percent in Puerto Rico for emergency services; and from 63 percent in Arkansas, Mississippi, South Dakota, and the Virgin Islands to 22 percent in Rhode Island for inpatient care.
- About one-third of the beneficiaries treated for a SUD received MAT (33 percent) in 2020, although there was significant variation across states. More than 40 percent of the beneficiaries treated for a SUD in 16 states received MAT, and less than 20 percent of the beneficiaries treated for a SUD in 13 states received MAT.
  - Approximately three-quarters (78 percent) of the beneficiaries treated for an OUD received MAT, and in all states and territories more than 50 percent of the beneficiaries treated for an OUD received MAT. For more information on beneficiaries treated for OUD, see Appendix D.
- Across states, one-third of the beneficiaries treated for a SUD received physician services (35 percent), and one-fifth received screening or assessment (20 percent).
- More than one-fourth of beneficiaries treated for a SUD received counseling across all states (27 percent). Forty percent or more of beneficiaries treated for a SUD received counseling in

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<sup>88</sup> Appendix B contains information about how service type and setting were defined. A service provided in a residential setting refers to a residential facility setting, identified as a nursing facility, intermediate care facility, or other overnight facility according to the FASC classification, as well as claims reported to the LT file and not classified as inpatient claims according to the FASC classification. Services provided in a community-based setting are services delivered in a school, clubhouse, or other nonmedical setting, and services delivered in home include home health and home visits. We did not analyze whether any services were provided via telehealth.

<sup>89</sup> As noted, because the data in these tables are based on T-MSIS claims reported by the states and represent services provided, they do not necessarily represent what is included in a state's Medicaid plan, section 1115 demonstration, or Medicaid and CHIP Program data.

<sup>90</sup> The population of the Virgin Islands, along with the populations of the District of Columbia and Puerto Rico, is small compared with that of other states, which may make its percentages more likely to be outliers when compared to those of other states.

Maryland (43 percent), Ohio (41 percent), Oregon (41 percent), and West Virginia (43 percent); in Florida, only 8 percent of beneficiaries treated for a SUD received counseling.

- In several states, more than 10 percent of the beneficiaries treated for a SUD received community support (Alaska [19 percent], Florida [11 percent], Missouri [13 percent], and Wyoming [18 percent]).

**Table C.2. Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by service setting**

- Approximately three-quarters (78 percent) of the Medicaid beneficiaries treated for a SUD received at least one service in an outpatient setting in 2020, and 42 percent received at least one service in an inpatient setting. A much smaller percentage of beneficiaries treated for a SUD received services in a residential setting (6 percent)<sup>91</sup> or a home-based (4 percent) or community-based setting (2 percent).<sup>92</sup>
- In six states, more than 60 percent of Medicaid beneficiaries with a SUD received SUD treatment services in an inpatient setting (Arkansas [64 percent], Florida [62 percent], Mississippi [64 percent], South Dakota [63 percent], Texas [61 percent], and the Virgin Islands [70 percent]). In Rhode Island, less than a quarter of beneficiaries treated for a SUD received SUD treatment services in an inpatient setting (23 percent). Rhode Island also had the largest share of beneficiaries with a SUD who received SUD treatment services in an outpatient setting (92 percent).
- Louisiana, Maryland, Michigan, and Utah had the largest share of beneficiaries with a SUD who received SUD treatment services in a residential setting (13, 11, 15, and 30 percent, respectively). Ten percent or fewer of beneficiaries treated for a SUD received services in a residential setting in all other states.
- Receipt of care in community-based settings was uncommon in most states; however, approximately one-fifth of the beneficiaries in Alaska (18 percent) and Wyoming (16 percent) received SUD treatment services in community-based settings.
- Less than 5 percent of beneficiaries received SUD treatment services in a home-based setting in almost all states, with the exception of Arizona, Idaho, and Washington (26, 16, and 16 percent, respectively).

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<sup>91</sup> While the percent of Medicaid beneficiaries treated for a SUD in an inpatient setting may seem high and the percent treated in a residential setting may seem low when compared to other research sources, these percentages are consistent across all years of the SUD Data Book and may reflect challenges with reporting and identifying residential SUD treatment within TAF data.

<sup>92</sup> For 8 percent of the beneficiaries treated for a SUD in 2020, there was not enough information on their claims to identify the service setting. The prevalence of beneficiaries for which the SUD treatment setting was unknown was particularly high in Arizona, Illinois, Pennsylvania, Utah, and Vermont.

**Table C.1.i. Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by service type**

| State                 | Total number of Medicaid beneficiaries with a SUD | Case management |            | Community support |            | Consultation   |            | Counseling       |             | Detoxification |            |
|-----------------------|---|-----------------|------------|-------------------|------------|----------------|------------|------------------|-------------|----------------|------------|
|                       |   | Number          | Percent    | Number            | Percent    | Number         | Percent    | Number           | Percent     | Number         | Percent    |
| <b>United States</b>  | <b>4,560,513</b>                                  | <b>313,040</b>  | <b>6.9</b> | <b>133,578</b>    | <b>2.9</b> | <b>345,366</b> | <b>7.6</b> | <b>1,213,222</b> | <b>26.6</b> | <b>200,588</b> | <b>4.4</b> |
| Alabama               | 47,599  | 0               | 0.0        | 213               | 0.4        | 6,319          | 13.3       | 5,154            | 10.8        | 1,006          | 2.1        |
| Alaska*               | 18,566  | 1,532           | 8.3        | 3,470             | 18.7       | 312            | 1.7        | 2,389            | 12.9        | 501            | 2.7        |
| Arizona*              | 152,920   | 67,265          | 44.0       | 3,813             | 2.5        | 16,188         | 10.6       | 48,300           | 31.6        | 3,509          | 2.3        |
| Arkansas*             | 33,268  | DS              | DS         | 207               | 0.6        | 2,595          | 7.8        | 3,610            | 10.9        | 158            | 0.5        |
| California*           | 423,543   | 47,149          | 11.1       | 11,720            | 2.8        | 43,225         | 10.2       | 103,752          | 24.5        | 9,808          | 2.3        |
| Colorado*             | 88,453  | 6,298           | 7.1        | 1,581             | 1.8        | 71             | 0.1        | 18,493           | 20.9        | 369            | 0.4        |
| Connecticut*          | 82,251  | 212             | 0.3        | 232               | 0.3        | 17,911         | 21.8       | 22,058           | 26.8        | 2,581          | 3.1        |
| Delaware*             | 21,115  | DS              | DS         | 213               | 1.0        | 67             | 0.3        | 8,187            | 38.8        | 1,338          | 6.3        |
| District of Columbia* | 12,430  | 414             | 3.3        | 34                | 0.3        | 775            | 6.2        | 1,392            | 11.2        | 61             | 0.5        |
| Florida               | 131,723   | 660             | 0.5        | 14,028            | 10.6       | 11,802         | 9.0        | 10,946           | 8.3         | 2,375          | 1.8        |
| Georgia               | 64,291  | 926             | 1.4        | 1,921             | 3.0        | 1,630          | 2.5        | 8,794            | 13.7        | 1,069          | 1.7        |
| Hawaii*               | 15,795  | 47              | 0.3        | 115               | 0.7        | 138            | 0.9        | 3,068            | 19.4        | 93             | 0.6        |
| Idaho*                | 26,269  | 3,500           | 13.3       | 257               | 1.0        | 3,868          | 14.7       | 8,300            | 31.6        | 708            | 2.7        |
| Illinois*             | 168,025   | 3,649           | 2.2        | 2,347             | 1.4        | 36,242         | 21.6       | 38,072           | 22.7        | 4,020          | 2.4        |
| Indiana*              | 108,280   | 6,090           | 5.6        | 497               | 0.5        | 703            | 0.6        | 27,211           | 25.1        | 7,991          | 7.4        |
| Iowa*                 | 52,380  | 219             | 0.4        | 1,029             | 2.0        | 5,790          | 11.1       | 14,147           | 27.0        | 935            | 1.8        |
| Kansas                | 21,008  | 652             | 3.1        | 338               | 1.6        | DS             | DS         | 4,188            | 19.9        | 221            | 1.1        |
| Kentucky*             | 155,342   | 18,869          | 12.1       | 3,400             | 2.2        | 6,087          | 3.9        | 59,013           | 38.0        | 13,862         | 8.9        |
| Louisiana*            | 112,636   | DS              | DS         | 4,645             | 4.1        | 7,559          | 6.7        | 13,656           | 12.1        | 4,767          | 4.2        |
| Maine*                | 33,988  | 260             | 0.8        | 419               | 1.2        | 4,813          | 14.2       | 9,380            | 27.6        | 1,326          | 3.9        |
| Maryland*             | 111,371   | 54              | 0.0        | 214               | 0.2        | 4,083          | 3.7        | 48,239           | 43.3        | 1,171          | 1.1        |
| Massachusetts*        | 161,018   | 38              | 0.0        | 11,029            | 6.8        | 17,870         | 11.1       | 40,797           | 25.3        | 9,551          | 5.9        |
| Michigan*             | 184,390   | 13,521          | 7.3        | 9,293             | 5.0        | 7,883          | 4.3        | 53,000           | 28.7        | 10,204         | 5.5        |
| Minnesota*            | 96,796  | 8,922           | 9.2        | 1,284             | 1.3        | 3,835          | 4.0        | 12,905           | 13.3        | 2,627          | 2.7        |
| Mississippi           | 25,712  | 394             | 1.5        | 564               | 2.2        | 409            | 1.6        | 4,824            | 18.8        | 70             | 0.3        |
| Missouri              | 62,980  | DS              | DS         | 8,120             | 12.9       | 3,789          | 6.0        | 16,039           | 25.5        | 1,305          | 2.1        |
| Montana*              | 25,771  | 944             | 3.7        | 103               | 0.4        | 0              | 0.0        | 8,184            | 31.8        | 1,217          | 4.7        |
| Nebraska              | 13,221  | 0               | 0.0        | 377               | 2.9        | 190            | 1.4        | 2,436            | 18.4        | 558            | 4.2        |
| Nevada*               | 49,372  | 2,788           | 5.6        | 324               | 0.7        | 1,293          | 2.6        | 8,357            | 16.9        | 2,224          | 4.5        |
| New Hampshire*        | 20,144  | 1,199           | 6.0        | 1,390             | 6.9        | 2,595          | 12.9       | 6,424            | 31.9        | 961            | 4.8        |
| New Jersey*           | 99,031  | 3,354           | 3.4        | 530               | 0.5        | 4,012          | 4.1        | 27,495           | 27.8        | 8,588          | 8.7        |

Table C.1.i (continued)

| State           | Total number of Medicaid beneficiaries with a SUD | Case management |         | Community support |         | Consultation |         | Counseling |         | Detoxification |         |
|-----------------|---|-----------------|---------|-------------------|---------|--------------|---------|------------|---------|----------------|---------|
|                 |   | Number          | Percent | Number            | Percent | Number       | Percent | Number     | Percent | Number         | Percent |
| New Mexico*     | 65,171  | 501             | 0.8     | 1,851             | 2.8     | 3,435        | 5.3     | 15,969     | 24.5    | 1,613          | 2.5     |
| New York*       | 377,100   | 15              | 0.0     | 363               | 0.1     | 2,966        | 0.8     | 104,050    | 27.6    | 17,859         | 4.7     |
| North Carolina  | 105,873   | 1,624           | 1.5     | 1,246             | 1.2     | 7,758        | 7.3     | 23,989     | 22.7    | 971            | 0.9     |
| North Dakota*   | 9,240   | 651             | 7.0     | 230               | 2.5     | 138          | 1.5     | 2,444      | 26.5    | 192            | 2.1     |
| Ohio*           | 354,713   | 68,975          | 19.4    | 23,463            | 6.6     | 43,198       | 12.2    | 144,721    | 40.8    | 29,941         | 8.4     |
| Oklahoma        | 39,590  | 2,344           | 5.9     | 2,641             | 6.7     | 1,359        | 3.4     | 6,510      | 16.4    | 161            | 0.4     |
| Oregon*         | 98,373  | 10,677          | 10.9    | 350               | 0.4     | 97           | 0.1     | 39,477     | 40.1    | 7,016          | 7.1     |
| Pennsylvania*   | 268,946   | 7,247           | 2.7     | 5,374             | 2.0     | 38,932       | 14.5    | 74,191     | 27.6    | 20,654         | 7.7     |
| Puerto Rico*    | 12,499  | 0               | 0.0     | 40                | 0.3     | 127          | 1.0     | 3,239      | 25.9    | 312            | 2.5     |
| Rhode Island*   | 21,371  | 3,586           | 16.8    | 116               | 0.5     | 406          | 1.9     | 7,298      | 34.1    | 139            | 0.7     |
| South Carolina  | 42,224  | 468             | 1.1     | 360               | 0.9     | 1,961        | 4.6     | 8,634      | 20.4    | 449            | 1.1     |
| South Dakota    | 5,394   | 0               | 0.0     | 248               | 4.6     | 94           | 1.7     | 884        | 16.4    | 18             | 0.3     |
| Tennessee       | DQ  | DQ              | DQ      | DQ                | DQ      | DQ           | DQ      | DQ         | DQ      | DQ             | DQ      |
| Texas           | 100,163   | 3,468           | 3.5     | 1,459             | 1.5     | 4,881        | 4.9     | 12,814     | 12.8    | 2,260          | 2.3     |
| Utah*           | 29,545  | 2,247           | 7.6     | 2,025             | 6.9     | 68           | 0.2     | 5,124      | 17.3    | 1,144          | 3.9     |
| Vermont*        | 18,710  | 1,048           | 5.6     | 643               | 3.4     | 3,227        | 17.2    | 4,960      | 26.5    | 603            | 3.2     |
| Virginia*       | 105,802   | 3,959           | 3.7     | 2,524             | 2.4     | 699          | 0.7     | 34,216     | 32.3    | 9,961          | 9.4     |
| Virgin Islands* | 284   | 0               | 0.0     | 0                 | 0.0     | 0            | 0.0     | 34         | 12.0    | 14             | 4.9     |
| Washington*     | 144,777   | 14,732          | 10.2    | 3,998             | 2.8     | 12,721       | 8.8     | 45,817     | 31.6    | 6,987          | 4.8     |
| West Virginia*  | 55,656  | 1,880           | 3.4     | 117               | 0.2     | 6,271        | 11.3    | 24,166     | 43.4    | 887            | 1.6     |
| Wisconsin       | 81,842  | 485             | 0.6     | 2,179             | 2.7     | 4,603        | 5.6     | 15,459     | 18.9    | 4,233          | 5.2     |
| Wyoming         | 3,552   | 177             | 5.0     | 644               | 18.1    | 371          | 10.4    | 416        | 11.7    | DS             | DS      |

**Table C.1.ii. Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by service type**

| State                 | Total number of Medicaid beneficiaries with a SUD | Emergency services |             | Inpatient care   |             | Intervention   |            | MAT              |             | Medication management |            | Observation care |            | Other          |            |
|-----------------------|---|--------------------|-------------|------------------|-------------|----------------|------------|------------------|-------------|-----------------------|------------|------------------|------------|----------------|------------|
|                       |   | Number             | Percent     | Number           | Percent     | Number         | Percent    | Number           | Percent     | Number                | Percent    | Number           | Percent    | Number         | Percent    |
| <b>United States</b>  | <b>4,560,513</b>                                  | <b>1,914,257</b>   | <b>42.0</b> | <b>1,840,989</b> | <b>40.4</b> | <b>176,480</b> | <b>3.9</b> | <b>1,506,575</b> | <b>33.0</b> | <b>61,153</b>         | <b>1.3</b> | <b>232,113</b>   | <b>5.1</b> | <b>342,836</b> | <b>7.5</b> |
| Alabama               | 47,599  | 29,357             | 61.7        | 22,494           | 47.3        | 512            | 1.1        | 8,727            | 18.3        | 1,071                 | 2.3        | 1,013            | 2.1        | 4,341          | 9.1        |
| Alaska*               | 18,566  | 7,206              | 38.8        | 6,414            | 34.5        | 587            | 3.2        | 6,818            | 36.7        | 388                   | 2.1        | 978              | 5.3        | 3,171          | 17.1       |
| Arizona*              | 152,920   | 58,343             | 38.2        | 64,685           | 42.3        | 14,641         | 9.6        | 50,407           | 33.0        | 19,743                | 12.9       | 10,728           | 7.0        | 32,147         | 21.0       |
| Arkansas*             | 33,268  | 17,145             | 51.5        | 21,058           | 63.3        | 263            | 0.8        | 5,942            | 17.9        | DS                    | DS         | 1,812            | 5.4        | 646            | 1.9        |
| California*           | 423,543   | 198,842            | 46.9        | 170,320          | 40.2        | 9,627          | 2.3        | 109,453          | 25.8        | 11,737                | 2.8        | 12,522           | 3.0        | 13,367         | 3.2        |
| Colorado*             | 88,453  | 45,231             | 51.1        | 33,076           | 37.4        | 2,962          | 3.3        | 31,217           | 35.3        | 537                   | 0.6        | 8,326            | 9.4        | 5,134          | 5.8        |
| Connecticut*          | 82,251  | 24,375             | 29.6        | 26,165           | 31.8        | 2,256          | 2.7        | 39,802           | 48.4        | 45                    | 0.1        | 2,341            | 2.8        | 2,901          | 3.5        |
| Delaware*             | 21,115  | 8,034              | 38.0        | 7,665            | 36.3        | 482            | 2.3        | 11,476           | 54.3        | 38                    | 0.2        | 957              | 4.5        | 1,093          | 5.2        |
| District of Columbia* | 12,430  | 7,345              | 59.1        | 7,447            | 59.9        | 137            | 1.1        | 4,357            | 35.1        | DS                    | DS         | 672              | 5.4        | 961            | 7.7        |
| Florida               | 131,723   | 73,757             | 56.0        | 76,739           | 58.3        | 2,108          | 1.6        | 31,220           | 23.7        | 1,218                 | 0.9        | 13,568           | 10.3       | 11,186         | 8.5        |
| Georgia               | 64,291  | 32,323             | 50.3        | 34,954           | 54.4        | 997            | 1.6        | 10,231           | 15.9        | 261                   | 0.4        | 4,183            | 6.5        | 4,626          | 7.2        |
| Hawaii*               | 15,795  | 8,458              | 53.5        | 7,195            | 45.6        | 125            | 0.8        | 2,921            | 18.5        | 0                     | 0.0        | 1,622            | 10.3       | 395            | 2.5        |
| Idaho*                | 26,269  | 10,510             | 40.0        | 9,118            | 34.7        | 639            | 2.4        | 7,672            | 29.2        | 93                    | 0.4        | 1,041            | 4.0        | 3,402          | 13.0       |
| Illinois*             | 168,025   | 53,570             | 31.9        | 82,277           | 49.0        | 6,575          | 3.9        | 33,133           | 19.7        | 2,775                 | 1.7        | 7,961            | 4.7        | 3,999          | 2.4        |
| Indiana*              | 108,280   | 27,608             | 25.5        | 48,305           | 44.6        | 1,078          | 1.0        | 49,385           | 45.6        | 1,911                 | 1.8        | 4,692            | 4.3        | 8,681          | 8.0        |
| Iowa*                 | 52,380  | 20,460             | 39.1        | 22,984           | 43.9        | 556            | 1.1        | 11,677           | 22.3        | DS                    | DS         | 2,713            | 5.2        | 1,813          | 3.5        |
| Kansas                | 21,008  | 9,161              | 43.6        | 11,548           | 55.0        | 534            | 2.5        | 3,359            | 16.0        | 15                    | 0.1        | 1,275            | 6.1        | 435            | 2.1        |
| Kentucky*             | 155,342   | 61,642             | 39.7        | 52,135           | 33.6        | 5,364          | 3.5        | 68,025           | 43.8        | 277                   | 0.2        | 5,371            | 3.5        | 28,123         | 18.1       |
| Louisiana*            | 112,636   | 60,965             | 54.1        | 52,972           | 47.0        | 927            | 0.8        | 30,627           | 27.2        | DS                    | DS         | 5,080            | 4.5        | 894            | 0.8        |
| Maine*                | 33,988  | 11,674             | 34.3        | 10,171           | 29.9        | 1,140          | 3.4        | 16,093           | 47.3        | 2,598                 | 7.6        | 1,408            | 4.1        | 1,476          | 4.3        |
| Maryland*             | 111,371   | 40,742             | 36.6        | 33,056           | 29.7        | 1,304          | 1.2        | 64,186           | 57.6        | 353                   | 0.3        | 7,807            | 7.0        | 11,007         | 9.9        |
| Massachusetts*        | 161,018   | 68,634             | 42.6        | 60,945           | 37.8        | 11,767         | 7.3        | 77,071           | 47.9        | 244                   | 0.2        | 10,230           | 6.4        | 4,806          | 3.0        |
| Michigan*             | 184,390   | 81,045             | 44.0        | 65,950           | 35.8        | 9,704          | 5.3        | 49,186           | 26.7        | 70                    | 0.0        | 9,971            | 5.4        | 12,804         | 6.9        |
| Minnesota*            | 96,796  | 40,936             | 42.3        | 36,997           | 38.2        | 1,507          | 1.6        | 29,464           | 30.4        | 45                    | 0.0        | 6,202            | 6.4        | 5,285          | 5.5        |
| Mississippi           | 25,712  | 12,930             | 50.3        | 16,141           | 62.8        | 356            | 1.4        | 3,828            | 14.9        | 29                    | 0.1        | 1,980            | 7.7        | 1,469          | 5.7        |
| Missouri              | 62,980  | 22,934             | 36.4        | 24,739           | 39.3        | 416            | 0.7        | 16,551           | 26.3        | 1,085                 | 1.7        | 2,704            | 4.3        | 6,940          | 11.0       |
| Montana*              | 25,771  | 11,062             | 42.9        | 9,257            | 35.9        | 286            | 1.1        | 8,181            | 31.7        | 0                     | 0.0        | 1,401            | 5.4        | 3,739          | 14.5       |
| Nebraska              | 13,221  | 6,238              | 47.2        | 7,396            | 55.9        | 102            | 0.8        | 1,742            | 13.2        | 0                     | 0.0        | 666              | 5.0        | 531            | 4.0        |
| Nevada*               | 49,372  | 21,348             | 43.2        | 23,550           | 47.7        | 2,635          | 5.3        | 12,866           | 26.1        | 1,444                 | 2.9        | 2,806            | 5.7        | 6,411          | 13.0       |
| New Hampshire*        | 20,144  | 5,990              | 29.7        | 5,494            | 27.3        | 930            | 4.6        | 11,509           | 57.1        | 129                   | 0.6        | 623              | 3.1        | 761            | 3.8        |
| New Jersey*           | 99,031  | 42,141             | 42.6        | 35,051           | 35.4        | 2,219          | 2.2        | 42,373           | 42.8        | 553                   | 0.6        | 8,180            | 8.3        | 2,310          | 2.3        |

Table C.1.ii (continued)

| State           | Total number of Medicaid beneficiaries with a SUD | Emergency services |         | Inpatient care |         | Intervention |         | MAT     |         | Medication management |         | Observation care |         | Other  |         |
|-----------------|---|--------------------|---------|----------------|---------|--------------|---------|---------|---------|-----------------------|---------|------------------|---------|--------|---------|
|                 |   | Number             | Percent | Number         | Percent | Number       | Percent | Number  | Percent | Number                | Percent | Number           | Percent | Number | Percent |
| New Mexico*     | 65,171  | 23,870             | 36.6    | 21,368         | 32.8    | 1,014        | 1.6     | 30,609  | 47.0    | 439                   | 0.7     | 2,352            | 3.6     | 8,746  | 13.4    |
| New York*       | 377,100   | 137,220            | 36.4    | 154,228        | 40.9    | 15,362       | 4.1     | 96,906  | 25.7    | 3,817                 | 1.0     | 11,835           | 3.1     | 3,995  | 1.1     |
| North Carolina  | 105,873   | 48,655             | 46.0    | 53,943         | 51.0    | 3,417        | 3.2     | 22,587  | 21.3    | DS                    | DS      | 6,926            | 6.5     | 5,418  | 5.1     |
| North Dakota*   | 9,240   | 4,002              | 43.3    | 4,567          | 49.4    | 93           | 1.0     | 2,225   | 24.1    | 336                   | 3.6     | 715              | 7.7     | 1,026  | 11.1    |
| Ohio*           | 354,713   | 179,290            | 50.5    | 126,490        | 35.7    | 8,289        | 2.3     | 115,438 | 32.5    | 1,050                 | 0.3     | 22,950           | 6.5     | 47,389 | 13.4    |
| Oklahoma        | 39,590  | 12,728             | 32.1    | 20,111         | 50.8    | 373          | 0.9     | 7,849   | 19.8    | 256                   | 0.6     | 1,175            | 3.0     | 3,191  | 8.1     |
| Oregon*         | 98,373  | 38,536             | 39.2    | 28,763         | 29.2    | 3,686        | 3.7     | 37,193  | 37.8    | 1,658                 | 1.7     | 4,672            | 4.7     | 15,423 | 15.7    |
| Pennsylvania*   | 268,946   | 104,036            | 38.7    | 98,106         | 36.5    | 9,780        | 3.6     | 110,095 | 40.9    | 5,120                 | 1.9     | 11,876           | 4.4     | 13,147 | 4.9     |
| Puerto Rico*    | 12,499  | 1,061              | 8.5     | 4,947          | 39.6    | 183          | 1.5     | 2,760   | 22.1    | 15                    | 0.1     | 348              | 2.8     | 314    | 2.5     |
| Rhode Island*   | 21,371  | 5,879              | 27.5    | 4,699          | 22.0    | 1,178        | 5.5     | 13,435  | 62.9    | 59                    | 0.3     | 635              | 3.0     | 3,448  | 16.1    |
| South Carolina  | 42,224  | 19,838             | 47.0    | 19,893         | 47.1    | 385          | 0.9     | 11,308  | 26.8    | 140                   | 0.3     | 2,108            | 5.0     | 6,198  | 14.7    |
| South Dakota    | 5,394   | 2,391              | 44.3    | 3,411          | 63.2    | 49           | 0.9     | 727     | 13.5    | 0                     | 0.0     | 279              | 5.2     | 171    | 3.2     |
| Tennessee       | DQ  | DQ                 | DQ      | DQ             | DQ      | DQ           | DQ      | DQ      | DQ      | DQ                    | DQ      | DQ               | DQ      | DQ     | DQ      |
| Texas           | 100,163   | 42,794             | 42.7    | 59,067         | 59.0    | 1,670        | 1.7     | 15,758  | 15.7    | 1,125                 | 1.1     | 7,023            | 7.0     | 6,831  | 6.8     |
| Utah*           | 29,545  | 10,820             | 36.6    | 10,683         | 36.2    | 64           | 0.2     | 10,041  | 34.0    | 58                    | 0.2     | 593              | 2.0     | 683    | 2.3     |
| Vermont*        | 18,710  | 5,761              | 30.8    | 4,892          | 26.1    | 753          | 4.0     | 9,938   | 53.1    | DS                    | DS      | 350              | 1.9     | 276    | 1.5     |
| Virginia*       | 105,802   | 40,316             | 38.1    | 45,049         | 42.6    | 753          | 0.7     | 47,030  | 44.5    | 100                   | 0.1     | 4,577            | 4.3     | 2,663  | 2.5     |
| Virgin Islands* | 284   | 177                | 62.3    | 180            | 63.4    | DS           | DS      | 18      | 6.3     | 0                     | 0.0     | DS               | DS      | 0      | 0.0     |
| Washington*     | 144,777   | 62,942             | 43.5    | 44,011         | 30.4    | 25,916       | 17.9    | 63,622  | 43.9    | 224                   | 0.2     | 5,750            | 4.0     | 30,180 | 20.8    |
| West Virginia*  | 55,656  | 18,301             | 32.9    | 18,329         | 32.9    | 3,940        | 7.1     | 27,950  | 50.2    | 84                    | 0.2     | 2,263            | 4.1     | 5,521  | 9.9     |
| Wisconsin       | 81,842  | 34,229             | 41.8    | 30,199         | 36.9    | 16,828       | 20.6    | 30,992  | 37.9    | DS                    | DS      | 4,651            | 5.7     | 3,171  | 3.9     |
| Wyoming         | 3,552   | 1,405              | 39.6    | 1,755          | 49.4    | 11           | 0.3     | 595     | 16.8    | 13                    | 0.4     | 202              | 5.7     | 191    | 5.4     |

**Table C.1.iii. Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by service type**

| State                 | Total number of Medicaid beneficiaries with a SUD | Partial hospitalization |            | Peer support  |            | Physician services |             | Pharmacotherapy |            | Screening/assessment |             | Treatment program |            |
|-----------------------|---|-------------------------|------------|---------------|------------|--------------------|-------------|-----------------|------------|----------------------|-------------|-------------------|------------|
|                       |   | Number                  | Percent    | Number        | Percent    | Number             | Percent     | Number          | Percent    | Number               | Percent     | Number            | Percent    |
| <b>United States</b>  | <b>4,560,513</b>                                  | <b>12,876</b>           | <b>0.3</b> | <b>84,532</b> | <b>1.9</b> | <b>1,583,707</b>   | <b>34.7</b> | <b>217,927</b>  | <b>4.8</b> | <b>898,330</b>       | <b>19.7</b> | <b>329,748</b>    | <b>7.2</b> |
| Alabama               | 47,599  | 26                      | 0.1        | 230           | 0.5        | 14,509             | 30.5        | 2,502           | 5.3        | 4,810                | 10.1        | 130               | 0.3        |
| Alaska*               | 18,566  | 13                      | 0.1        | 159           | 0.9        | 9,391              | 50.6        | 1,736           | 9.4        | 3,502                | 18.9        | 63                | 0.3        |
| Arizona*              | 152,920   | 32                      | 0.0        | 17,114        | 11.2       | 57,731             | 37.8        | 5,870           | 3.8        | 57,441               | 37.6        | 15,518            | 10.1       |
| Arkansas*             | 33,268  | DS                      | DS         | 12            | 0.0        | 5,945              | 17.9        | 332             | 1.0        | 2,479                | 7.5         | 731               | 2.2        |
| California*           | 423,543   | 18                      | 0.0        | DS            | DS         | 105,515            | 24.9        | 20,885          | 4.9        | 30,828               | 7.3         | 23,649            | 5.6        |
| Colorado*             | 88,453  | 0                       | 0.0        | 1,202         | 1.4        | 35,749             | 40.4        | 5,021           | 5.7        | 15,459               | 17.5        | 905               | 1.0        |
| Connecticut*          | 82,251  | 649                     | 0.8        | 0             | 0.0        | 21,976             | 26.7        | 4,453           | 5.4        | 20,222               | 24.6        | 7,769             | 9.4        |
| Delaware*             | 21,115  | 495                     | 2.3        | 2,029         | 9.6        | 11,589             | 54.9        | 1,173           | 5.6        | 4,940                | 23.4        | 1,400             | 6.6        |
| District of Columbia* | 12,430  | 0                       | 0.0        | 0             | 0.0        | 1,652              | 13.3        | 337             | 2.7        | 1,619                | 13.0        | DS                | DS         |
| Florida               | 131,723   | 61                      | 0.0        | 32            | 0.0        | 21,847             | 16.6        | 2,670           | 2.0        | 13,403               | 10.2        | 334               | 0.3        |
| Georgia               | 64,291  | 15                      | 0.0        | 314           | 0.5        | 21,543             | 33.5        | 3,853           | 6.0        | 8,605                | 13.4        | 295               | 0.5        |
| Hawaii*               | 15,795  | 202                     | 1.3        | DS            | DS         | 5,577              | 35.3        | 824             | 5.2        | 2,863                | 18.1        | 819               | 5.2        |
| Idaho*                | 26,269  | 343                     | 1.3        | 822           | 3.1        | 9,817              | 37.4        | 704             | 2.7        | 7,788                | 29.6        | 733               | 2.8        |
| Illinois*             | 168,025   | 0                       | 0.0        | 0             | 0.0        | 56,343             | 33.5        | 1,327           | 0.8        | 36,602               | 21.8        | 814               | 0.5        |
| Indiana*              | 108,280   | 375                     | 0.3        | 1,779         | 1.6        | 30,338             | 28.0        | 1,879           | 1.7        | 22,259               | 20.6        | 2,754             | 2.5        |
| Iowa*                 | 52,380  | 262                     | 0.5        | 280           | 0.5        | 20,736             | 39.6        | 2,373           | 4.5        | 15,176               | 29.0        | 3,219             | 6.1        |
| Kansas                | 21,008  | DS                      | DS         | 798           | 3.8        | 5,153              | 24.5        | 1,106           | 5.3        | 3,411                | 16.2        | 1,179             | 5.6        |
| Kentucky*             | 155,342   | 2,363                   | 1.5        | 17,542        | 11.3       | 78,190             | 50.3        | 9,908           | 6.4        | 40,141               | 25.8        | 14,147            | 9.1        |
| Louisiana*            | 112,636   | DS                      | DS         | 0             | 0.0        | 31,276             | 27.8        | 8,051           | 7.1        | 17,896               | 15.9        | 15,970            | 14.2       |
| Maine*                | 33,988  | 0                       | 0.0        | 0             | 0.0        | 15,212             | 44.8        | 1,086           | 3.2        | 11,117               | 32.7        | 1,354             | 4.0        |
| Maryland*             | 111,371   | 72                      | 0.1        | 0             | 0.0        | 48,387             | 43.4        | 1,269           | 1.1        | 35,210               | 31.6        | 13,775            | 12.4       |
| Massachusetts*        | 161,018   | 1,077                   | 0.7        | 29            | 0.0        | 66,997             | 41.6        | 8,233           | 5.1        | 26,501               | 16.5        | 19,927            | 12.4       |
| Michigan*             | 184,390   | 75                      | 0.0        | 8,189         | 4.4        | 72,975             | 39.6        | 15,189          | 8.2        | 49,013               | 26.6        | 17,014            | 9.2        |
| Minnesota*            | 96,796  | 69                      | 0.1        | 3,688         | 3.8        | 38,138             | 39.4        | 5,597           | 5.8        | 32,311               | 33.4        | 28,142            | 29.1       |
| Mississippi           | 25,712  | DS                      | DS         | 416           | 1.6        | 7,431              | 28.9        | 2,074           | 8.1        | 2,531                | 9.8         | 137               | 0.5        |
| Missouri              | 62,980  | 14                      | 0.0        | 2,532         | 4.0        | 25,244             | 40.1        | 982             | 1.6        | 11,957               | 19.0        | 2,812             | 4.5        |
| Montana*              | 25,771  | 53                      | 0.2        | 1,806         | 7.0        | 10,032             | 38.9        | 1,460           | 5.7        | 5,481                | 21.3        | 2,184             | 8.5        |
| Nebraska              | 13,221  | DS                      | DS         | 102           | 0.8        | 2,804              | 21.2        | 788             | 6.0        | 2,157                | 16.3        | 793               | 6.0        |
| Nevada*               | 49,372  | 607                     | 1.2        | 918           | 1.9        | 13,774             | 27.9        | 3,746           | 7.6        | 11,692               | 23.7        | 2,034             | 4.1        |
| New Hampshire*        | 20,144  | DS                      | DS         | 389           | 1.9        | 9,115              | 45.2        | 1,047           | 5.2        | 4,710                | 23.4        | 2,595             | 12.9       |
| New Jersey*           | 99,031  | 1,378                   | 1.4        | 259           | 0.3        | 30,794             | 31.1        | 4,395           | 4.4        | 26,325               | 26.6        | 9,411             | 9.5        |

Table C.1.iii (continued)

| State           | Total number of Medicaid beneficiaries with a SUD | Partial hospitalization |         | Peer support |         | Physician services |         | Pharmacotherapy |         | Screening/assessment |         | Treatment program |         |
|-----------------|---|-------------------------|---------|--------------|---------|--------------------|---------|-----------------|---------|----------------------|---------|-------------------|---------|
|                 |   | Number                  | Percent | Number       | Percent | Number             | Percent | Number          | Percent | Number               | Percent | Number            | Percent |
| New Mexico*     | 65,171  | 253                     | 0.4     | 1,160        | 1.8     | 19,788             | 30.4    | 3,807           | 5.8     | 15,693               | 24.1    | 3,225             | 4.9     |
| New York*       | 377,100   | 629                     | 0.2     | 47           | 0.0     | 101,183            | 26.8    | 3,746           | 1.0     | 31,157               | 8.3     | 6,514             | 1.7     |
| North Carolina  | 105,873   | 43                      | 0.0     | 2,272        | 2.1     | 36,240             | 34.2    | 5,636           | 5.3     | 15,866               | 15.0    | 6,606             | 6.2     |
| North Dakota*   | 9,240   | 473                     | 5.1     | 0            | 0.0     | 3,620              | 39.2    | 560             | 6.1     | 1,919                | 20.8    | 1,188             | 12.9    |
| Ohio*           | 354,713   | 112                     | 0.0     | 7,805        | 2.2     | 171,608            | 48.4    | 43,573          | 12.3    | 95,906               | 27.0    | 39,617            | 11.2    |
| Oklahoma        | 39,590  | DS                      | DS      | 0            | 0.0     | 11,564             | 29.2    | 1,728           | 4.4     | 3,521                | 8.9     | 0                 | 0.0     |
| Oregon*         | 98,373  | 18                      | 0.0     | 4,607        | 4.7     | 39,100             | 39.7    | 5,897           | 6.0     | 27,593               | 28.0    | 6,501             | 6.6     |
| Pennsylvania*   | 268,946   | 167                     | 0.1     | 211          | 0.1     | 89,558             | 33.3    | 9,349           | 3.5     | 56,174               | 20.9    | 44,747            | 16.6    |
| Puerto Rico*    | 12,499  | 113                     | 0.9     | 0            | 0.0     | 4,404              | 35.2    | 31              | 0.2     | 1,958                | 15.7    | DS                | DS      |
| Rhode Island*   | 21,371  | 333                     | 1.6     | 395          | 1.8     | 7,540              | 35.3    | 389             | 1.8     | 4,622                | 21.6    | 720               | 3.4     |
| South Carolina  | 42,224  | 0                       | 0.0     | 716          | 1.7     | 10,492             | 24.8    | 2,602           | 6.2     | 7,524                | 17.8    | 1,027             | 2.4     |
| South Dakota    | 5,394   | DS                      | DS      | 0            | 0.0     | 812                | 15.1    | 177             | 3.3     | 808                  | 15.0    | 435               | 8.1     |
| Tennessee       | DQ  | DQ                      | DQ      | DQ           | DQ      | DQ                 | DQ      | DQ              | DQ      | DQ                   | DQ      | DQ                | DQ      |
| Texas           | 100,163   | 598                     | 0.6     | 72           | 0.1     | 25,468             | 25.4    | 2,022           | 2.0     | 10,807               | 10.8    | 2,771             | 2.8     |
| Utah*           | 29,545  | 11                      | 0.0     | 647          | 2.2     | 6,311              | 21.4    | 1,403           | 4.7     | 4,679                | 15.8    | 1,258             | 4.3     |
| Vermont*        | 18,710  | 13                      | 0.1     | 0            | 0.0     | 9,067              | 48.5    | 205             | 1.1     | 3,380                | 18.1    | 1,255             | 6.7     |
| Virginia*       | 105,802   | 1,853                   | 1.8     | DS           | DS      | 41,721             | 39.4    | 1,589           | 1.5     | 17,950               | 17.0    | 4,614             | 4.4     |
| Virgin Islands* | 284   | 0                       | 0.0     | 0            | 0.0     | 62                 | 21.8    | DS              | DS      | 21                   | 7.4     | 0                 | 0.0     |
| Washington*     | 144,777   | 61                      | 0.0     | 1,717        | 1.2     | 56,526             | 39.0    | 7,004           | 4.8     | 39,967               | 27.6    | 13,090            | 9.0     |
| West Virginia*  | 55,656  | DS                      | DS      | 4,169        | 7.5     | 29,926             | 53.8    | 2,560           | 4.6     | 13,375               | 24.0    | 4,141             | 7.4     |
| Wisconsin       | 81,842  | 0                       | 0.0     | 0            | 0.0     | 31,786             | 38.8    | 4,649           | 5.7     | 16,424               | 20.1    | 1,432             | 1.7     |
| Wyoming         | 3,552   | 0                       | 0.0     | 73           | 2.1     | 1,151              | 32.4    | 130             | 3.7     | 537                  | 15.1    | 0                 | 0.0     |

Source: Analysis of the 2020 preliminary TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits.

Notes: The U.S. average is an overall average of the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims. Appendix B includes detailed information on how we identified SUD treatment.

We determined service types on the basis of National Drug Codes, procedure codes, and revenue codes.

The sum of the percentages across service categories within each state will not be 100 because many Medicaid beneficiaries treated for a SUD received more than one treatment.

\*The state implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

DS = Data suppressed for confidentiality reasons because the group included fewer than 11 beneficiaries. If the size of a group that a state did not report because of confidentiality can be identified by using other numbers from that state, we did not report a second group within that state. Slightly different totals across the tables are a function of differences in the need to suppress data from one table to the next.

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.



**Table C.2. Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by service setting**

| State                 | Total number of Medicaid beneficiaries with a SUD | Treated in an inpatient setting |             | Treated in an outpatient setting |             | Treated in a residential setting |            | Treated in a home-based setting |            | Treated in a community-based setting |            | Treated in an unknown setting |            |
|-----------------------|---|---------------------------------|-------------|----------------------------------|-------------|----------------------------------|------------|---------------------------------|------------|--------------------------------------|------------|-------------------------------|------------|
|                       |   | Number                          | Percent     | Number                           | Percent     | Number                           | Percent    | Number                          | Percent    | Number                               | Percent    | Number                        | Percent    |
| <b>United States</b>  | <b>4,560,513</b>                                  | <b>1,935,561</b>                | <b>42.4</b> | <b>3,550,394</b>                 | <b>77.9</b> | <b>249,006</b>                   | <b>5.5</b> | <b>162,033</b>                  | <b>3.6</b> | <b>102,522</b>                       | <b>2.2</b> | <b>374,493</b>                | <b>8.2</b> |
| Alabama               | 47,599  | 22,803                          | 47.9        | 37,762                           | 79.3        | 1,036                            | 2.2        | 570                             | 1.2        | 181                                  | 0.4        | 404                           | 0.8        |
| Alaska*               | 18,566  | 6,562                           | 35.3        | 15,305                           | 82.4        | 985                              | 5.3        | 262                             | 1.4        | 3,365                                | 18.1       | 621                           | 3.3        |
| Arizona*              | 152,920   | 67,450                          | 44.1        | 122,831                          | 80.3        | 5,727                            | 3.7        | 40,359                          | 26.4       | 2,698                                | 1.8        | 35,358                        | 23.1       |
| Arkansas*             | 33,268  | 21,236                          | 63.8        | 19,795                           | 59.5        | 793                              | 2.4        | 287                             | 0.9        | 168                                  | 0.5        | 420                           | 1.3        |
| California*           | 423,543   | 189,841                         | 44.8        | 307,224                          | 72.5        | 24,005                           | 5.7        | 6,002                           | 1.4        | 9,787                                | 2.3        | 30,752                        | 7.3        |
| Colorado*             | 88,453  | 33,754                          | 38.2        | 72,042                           | 81.4        | 1,692                            | 1.9        | 1,860                           | 2.1        | 1,518                                | 1.7        | 1,345                         | 1.5        |
| Connecticut*          | 82,251  | 27,262                          | 33.1        | 70,982                           | 86.3        | 2,412                            | 2.9        | 1,722                           | 2.1        | 197                                  | 0.2        | 1,495                         | 1.8        |
| Delaware*             | 21,115  | 8,024                           | 38.0        | 17,982                           | 85.2        | 892                              | 4.2        | 304                             | 1.4        | 195                                  | 0.9        | 439                           | 2.1        |
| District of Columbia* | 12,430  | 7,501                           | 60.3        | 7,945                            | 63.9        | 633                              | 5.1        | 33                              | 0.3        | 17                                   | 0.1        | 20                            | 0.2        |
| Florida               | 131,723   | 81,036                          | 61.5        | 80,839                           | 61.4        | 3,468                            | 2.6        | 1,561                           | 1.2        | 13,631                               | 10.3       | 868                           | 0.7        |
| Georgia               | 64,291  | 35,906                          | 55.8        | 41,929                           | 65.2        | 1,089                            | 1.7        | 658                             | 1.0        | 1,704                                | 2.7        | 701                           | 1.1        |
| Hawaii*               | 15,795  | 7,485                           | 47.4        | 11,664                           | 73.8        | 655                              | 4.1        | 90                              | 0.6        | 73                                   | 0.5        | 12                            | 0.1        |
| Idaho*                | 26,269  | 9,897                           | 37.7        | 21,771                           | 82.9        | 651                              | 2.5        | 4,194                           | 16.0       | 148                                  | 0.6        | 1,150                         | 4.4        |
| Illinois*             | 168,025   | 87,651                          | 52.2        | 116,731                          | 69.5        | 8,773                            | 5.2        | 1,436                           | 0.9        | 2,128                                | 1.3        | 46,559                        | 27.7       |
| Indiana*              | 108,280   | 49,717                          | 45.9        | 75,630                           | 69.8        | 6,445                            | 6.0        | 3,585                           | 3.3        | 216                                  | 0.2        | 2,898                         | 2.7        |
| Iowa*                 | 52,380  | 23,472                          | 44.8        | 41,046                           | 78.4        | 1,960                            | 3.7        | 407                             | 0.8        | 653                                  | 1.2        | 809                           | 1.5        |
| Kansas                | 21,008  | 11,802                          | 56.2        | 13,645                           | 65.0        | 1,461                            | 7.0        | 612                             | 2.9        | 223                                  | 1.1        | 848                           | 4.0        |
| Kentucky*             | 155,342   | 54,448                          | 35.1        | 131,990                          | 85.0        | 13,823                           | 8.9        | 1,265                           | 0.8        | 1,923                                | 1.2        | 614                           | 0.4        |
| Louisiana*            | 112,636   | 55,602                          | 49.4        | 81,891                           | 72.7        | 14,069                           | 12.5       | 642                             | 0.6        | 3,479                                | 3.1        | 5,036                         | 4.5        |
| Maine*                | 33,988  | 10,405                          | 30.6        | 29,725                           | 87.5        | 457                              | 1.3        | 665                             | 2.0        | 388                                  | 1.1        | 1,145                         | 3.4        |
| Maryland*             | 111,371   | 33,511                          | 30.1        | 97,098                           | 87.2        | 12,421                           | 11.2       | 561                             | 0.5        | 159                                  | 0.1        | 448                           | 0.4        |
| Massachusetts*        | 161,018   | 70,830                          | 44.0        | 134,351                          | 83.4        | 12,540                           | 7.8        | 4,300                           | 2.7        | 10,419                               | 6.5        | 25,570                        | 15.9       |
| Michigan*             | 184,390   | 67,980                          | 36.9        | 144,903                          | 78.6        | 27,481                           | 14.9       | 5,282                           | 2.9        | 5,549                                | 3.0        | 10,756                        | 5.8        |
| Minnesota*            | 96,796  | 37,458                          | 38.7        | 80,917                           | 83.6        | 3,297                            | 3.4        | 4,343                           | 4.5        | 746                                  | 0.8        | 3,555                         | 3.7        |
| Mississippi           | 25,712  | 16,324                          | 63.5        | 14,751                           | 57.4        | 423                              | 1.6        | 493                             | 1.9        | 327                                  | 1.3        | 2,967                         | 11.5       |
| Missouri              | 62,980  | 26,432                          | 42.0        | 51,694                           | 82.1        | 1,710                            | 2.7        | 2,264                           | 3.6        | 7,657                                | 12.2       | 8,493                         | 13.5       |
| Montana*              | 25,771  | 9,885                           | 38.4        | 21,702                           | 84.2        | 818                              | 3.2        | 469                             | 1.8        | 74                                   | 0.3        | 513                           | 2.0        |
| Nebraska              | 13,221  | 7,601                           | 57.5        | 8,322                            | 62.9        | 994                              | 7.5        | 107                             | 0.8        | 321                                  | 2.4        | 272                           | 2.1        |
| Nevada*               | 49,372  | 24,201                          | 49.0        | 38,017                           | 77.0        | 1,432                            | 2.9        | 764                             | 1.5        | 238                                  | 0.5        | 1,470                         | 3.0        |
| New Hampshire*        | 20,144  | 5,899                           | 29.3        | 17,596                           | 87.4        | 1,920                            | 9.5        | 398                             | 2.0        | 1,117                                | 5.5        | 1,372                         | 6.8        |
| New Jersey*           | 99,031  | 38,058                          | 38.4        | 80,770                           | 81.6        | 1,783                            | 1.8        | 3,047                           | 3.1        | 520                                  | 0.5        | 6,558                         | 6.6        |

Table C.2 (continued)

| State           | Total number of Medicaid beneficiaries with a SUD | Treated in an inpatient setting |         | Treated in an outpatient setting |         | Treated in a residential setting |         | Treated in a home-based setting |         | Treated in a community-based setting |         | Treated in an unknown setting |         |
|-----------------|---|---------------------------------|---------|----------------------------------|---------|----------------------------------|---------|---------------------------------|---------|--------------------------------------|---------|-------------------------------|---------|
|                 |   | Number                          | Percent | Number                           | Percent | Number                           | Percent | Number                          | Percent | Number                               | Percent | Number                        | Percent |
| New Mexico*     | 65,171  | 22,184                          | 34.0    | 56,623                           | 86.9    | 804                              | 1.2     | 625                             | 1.0     | 1,789                                | 2.7     | 624                           | 1.0     |
| New York*       | 377,100   | 162,124                         | 43.0    | 302,127                          | 80.1    | 5,044                            | 1.3     | 3,872                           | 1.0     | 135                                  | 0.0     | 28,911                        | 7.7     |
| North Carolina  | 105,873   | 55,743                          | 52.7    | 73,102                           | 69.0    | 3,108                            | 2.9     | 3,879                           | 3.7     | 888                                  | 0.8     | 2,975                         | 2.8     |
| North Dakota*   | 9,240   | 4,519                           | 48.9    | 7,155                            | 77.4    | 266                              | 2.9     | 181                             | 2.0     | 199                                  | 2.2     | 341                           | 3.7     |
| Ohio*           | 354,713   | 130,210                         | 36.7    | 302,218                          | 85.2    | 34,001                           | 9.6     | 17,323                          | 4.9     | 15,846                               | 4.5     | 23,182                        | 6.5     |
| Oklahoma        | 39,590  | 20,772                          | 52.5    | 26,570                           | 67.1    | 813                              | 2.1     | 906                             | 2.3     | 2,283                                | 5.8     | 3,074                         | 7.8     |
| Oregon*         | 98,373  | 29,408                          | 29.9    | 84,655                           | 86.1    | 9,700                            | 9.9     | 1,297                           | 1.3     | 328                                  | 0.3     | 2,878                         | 2.9     |
| Pennsylvania*   | 268,946   | 102,782                         | 38.2    | 208,092                          | 77.4    | 2,726                            | 1.0     | 10,546                          | 3.9     | 670                                  | 0.2     | 84,557                        | 31.4    |
| Puerto Rico*    | 12,499  | 5,672                           | 45.4    | 8,371                            | 67.0    | 27                               | 0.2     | 78                              | 0.6     | 40                                   | 0.3     | DS                            | DS      |
| Rhode Island*   | 21,371  | 4,822                           | 22.6    | 19,672                           | 92.0    | 393                              | 1.8     | 211                             | 1.0     | 116                                  | 0.5     | 592                           | 2.8     |
| South Carolina  | 42,224  | 20,599                          | 48.8    | 29,460                           | 69.8    | 1,082                            | 2.6     | 408                             | 1.0     | 324                                  | 0.8     | 3,014                         | 7.1     |
| South Dakota    | 5,394   | 3,395                           | 62.9    | 2,908                            | 53.9    | 535                              | 9.9     | 36                              | 0.7     | 182                                  | 3.4     | 655                           | 12.1    |
| Tennessee       | DQ  | DQ                              | DQ      | DQ                               | DQ      | DQ                               | DQ      | DQ                              | DQ      | DQ                                   | DQ      | DQ                            | DQ      |
| Texas           | 100,163   | 61,120                          | 61.0    | 61,342                           | 61.2    | 4,145                            | 4.1     | 4,305                           | 4.3     | 1,149                                | 1.1     | 3,042                         | 3.0     |
| Utah*           | 29,545  | 11,438                          | 38.7    | 22,232                           | 75.2    | 8,847                            | 29.9    | 323                             | 1.1     | 590                                  | 2.0     | 7,686                         | 26.0    |
| Vermont*        | 18,710  | 4,982                           | 26.6    | 16,134                           | 86.2    | 697                              | 3.7     | 364                             | 1.9     | 514                                  | 2.7     | 8,585                         | 45.9    |
| Virginia*       | 105,802   | 46,750                          | 44.2    | 80,867                           | 76.4    | 2,101                            | 2.0     | 1,976                           | 1.9     | 1,920                                | 1.8     | 2,153                         | 2.0     |
| Virgin Islands* | 284   | 196                             | 69.0    | 119                              | 41.9    | 0                                | 0.0     | 0                               | 0.0     | 0                                    | 0.0     | 0                             | 0.0     |
| Washington*     | 144,777   | 45,766                          | 31.6    | 123,854                          | 85.5    | 13,684                           | 9.5     | 23,501                          | 16.2    | 3,124                                | 2.2     | 4,708                         | 3.3     |
| West Virginia*  | 55,656  | 19,708                          | 35.4    | 45,720                           | 82.1    | 3,910                            | 7.0     | 2,022                           | 3.6     | 33                                   | 0.1     | 1,630                         | 2.9     |
| Wisconsin       | 81,842  | 31,567                          | 38.6    | 67,961                           | 83.0    | 1,142                            | 1.4     | 1,582                           | 1.9     | 2,009                                | 2.5     | 2,337                         | 2.9     |
| Wyoming         | 3,552   | 1,771                           | 49.9    | 2,362                            | 66.5    | 136                              | 3.8     | 56                              | 1.6     | 564                                  | 15.9    | 81                            | 2.3     |

Source: Analysis of the 2020 preliminary TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits.

Notes: The U.S. average is an overall average across the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims. Appendix B includes detailed information on how we identified SUD treatment.

We defined service setting on the basis of the FASC value the claim was assigned as well as the type of claim on which the service was submitted; for claims categorized as Other Services (i.e., not inpatient, residential, or pharmacy claims), we defined the setting on the basis of the claim's type of bill, place of service, procedure codes, or revenue codes. We defined a setting as "unknown" when there was not enough information on the claim to categorize the service by setting. We did not analyze whether any services were provided via telehealth.

The sum of the percentages across service settings within each state will not be 100 because many Medicaid beneficiaries treated for a SUD received more than one treatment.

\*The state implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

DS = Data suppressed for confidentiality reasons because the group included fewer than 11 beneficiaries. If the size of a group that a state did not report because of confidentiality can be identified by using other numbers from that state, we did not report a second group within that state. Slightly different totals across the tables are a function of differences in the need to suppress data from one table to the next.

Table C.2 (*continued*)

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.

### **D. Number of SUD services provided by state Medicaid programs**

Section 1015(a)(2)(D) of the SUPPORT Act requires the SUD Data Book to present the number of services provided to Medicaid beneficiaries treated for a SUD. Table D.1 provides this information disaggregated by service type.<sup>93</sup>

**Table D.1. Average number of SUD services received by Medicaid beneficiaries who received a given service in 2020, by service type**

- Across states, beneficiaries who received inpatient care for a SUD received an average of 10 days of inpatient care over the course of the year, ranging from an average of 18 days in Illinois to an average of 4 days in New Mexico. Beneficiaries who received partial hospitalization services for a SUD received an average of 16 days of these services; beneficiaries who received observation care for a SUD received this type of care for an average of almost 4 days during 2020.
- Beneficiaries treated for a SUD in a treatment program spent an average of 34 days in the program. Time spent in a treatment program ranged from less than two weeks in 5 states, to two weeks to a month in 25 states, and to more than one month<sup>94</sup> in 17 states.
- Beneficiaries who received MAT for a SUD received medication for an average of 130 days, or more than four months.<sup>95</sup> The number of days of medication varied substantially across states. In 8 states, beneficiaries treated for a SUD received MAT for an average of three months or fewer; in 40 states, beneficiaries received MAT for an average of three to six months; and in 4 states, beneficiaries received MAT for an average of six months or more.
- Beneficiaries treated for a SUD who received counseling services attended an average of 10 sessions in 2020. The number of sessions ranged from an average of 17 sessions in Oregon to 2 sessions in Florida.<sup>96</sup>

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<sup>93</sup> As noted, because the data in these tables are based on T-MSIS claims reported by the states and represent services provided, they do not necessarily represent what is included in a state's Medicaid plan, section 1115 demonstration, or Medicaid and CHIP data.

<sup>94</sup> A month is defined as 30 days.

<sup>95</sup> For the purposes of this SUD Data Book, MAT consists of medications intended to reduce the symptoms of a SUD, including alcohol use disorder (AUD), OUD, and TUD. This treatment is often augmented with counseling or other behavioral therapeutic interventions, which are counted separately. MAT also includes medication used to counteract overdose.

<sup>96</sup> The average number of counseling claims in a month was greater than 1.0 in all states that provided this service, suggesting that states are billing individually for each counseling session rather than for a month of counseling services.

**Table D.1.i. Average number of SUD services received by Medicaid beneficiaries who received a given service in 2020, by service type**

| State                 | Total number of Medicaid beneficiaries with a SUD | Consultation                        |                         |                           | Counseling                          |                         |                           | Emergency services                  |                         |                           |
|-----------------------|---|-------------------------------------|-------------------------|---------------------------|-------------------------------------|-------------------------|---------------------------|-------------------------------------|-------------------------|---------------------------|
|                       |   | Count of beneficiaries with service | Total count of services | Average # per beneficiary | Count of beneficiaries with service | Total count of services | Average # per beneficiary | Count of beneficiaries with service | Total count of services | Average # per beneficiary |
| <b>United States</b>  | <b>4,560,513</b>                                  | <b>345,366</b>                      | <b>1,621,577</b>        | <b>4.7</b>                | <b>1,213,222</b>                    | <b>12,418,237</b>       | <b>10.2</b>               | <b>1,914,257</b>                    | <b>4,075,492</b>        | <b>2.1</b>                |
| Alabama               | 47,599  | 6,319                               | 13,333                  | 2.1                       | 5,154                               | 60,109                  | 11.7                      | 29,357                              | 74,051                  | 2.5                       |
| Alaska*               | 18,566  | 312                                 | 351                     | 1.1                       | 2,389                               | 16,009                  | 6.7                       | 7,206                               | 16,945                  | 2.4                       |
| Arizona*              | 152,920   | 16,188                              | 40,013                  | 2.5                       | 48,300                              | 433,208                 | 9.0                       | 58,343                              | 117,458                 | 2.0                       |
| Arkansas*             | 33,268  | 2,595                               | 6,540                   | 2.5                       | 3,610                               | 14,484                  | 4.0                       | 17,145                              | 30,855                  | 1.8                       |
| California*           | 423,543   | 43,225                              | 124,623                 | 2.9                       | 103,752                             | 1,433,039               | 13.8                      | 198,842                             | 432,235                 | 2.2                       |
| Colorado*             | 88,453  | 71                                  | 164                     | 2.3                       | 18,493                              | 118,381                 | 6.4                       | 45,231                              | 109,287                 | 2.4                       |
| Connecticut*          | 82,251  | 17,911                              | 136,094                 | 7.6                       | 22,058                              | 176,244                 | 8.0                       | 24,375                              | 60,300                  | 2.5                       |
| Delaware*             | 21,115  | 67                                  | 103                     | 1.5                       | 8,187                               | 83,097                  | 10.1                      | 8,034                               | 17,173                  | 2.1                       |
| District of Columbia* | 12,430  | 775                                 | 2,229                   | 2.9                       | 1,392                               | 14,464                  | 10.4                      | 7,345                               | 16,936                  | 2.3                       |
| Florida               | 131,723   | 11,802                              | 49,041                  | 4.2                       | 10,946                              | 21,918                  | 2.0                       | 73,757                              | 141,568                 | 1.9                       |
| Georgia               | 64,291  | 1,630                               | 2,049                   | 1.3                       | 8,794                               | 43,105                  | 4.9                       | 32,323                              | 61,385                  | 1.9                       |
| Hawaii*               | 15,795  | 138                                 | 149                     | 1.1                       | 3,068                               | 16,905                  | 5.5                       | 8,458                               | 18,260                  | 2.2                       |
| Idaho*                | 26,269  | 3,868                               | 19,232                  | 5.0                       | 8,300                               | 131,535                 | 15.8                      | 10,510                              | 20,079                  | 1.9                       |
| Illinois*             | 168,025   | 36,242                              | 112,464                 | 3.1                       | 38,072                              | 388,886                 | 10.2                      | 53,570                              | 110,122                 | 2.1                       |
| Indiana*              | 108,280   | 703                                 | 1,640                   | 2.3                       | 27,211                              | 246,244                 | 9.0                       | 27,608                              | 46,049                  | 1.7                       |
| Iowa*                 | 52,380  | 5,790                               | 15,631                  | 2.7                       | 14,147                              | 111,699                 | 7.9                       | 20,460                              | 45,635                  | 2.2                       |
| Kansas                | 21,008  | DS                                  | DS                      | DS                        | 4,188                               | 46,685                  | 11.1                      | 9,161                               | 18,371                  | 2.0                       |
| Kentucky*             | 155,342   | 6,087                               | 7,390                   | 1.2                       | 59,013                              | 583,938                 | 9.9                       | 61,642                              | 120,540                 | 2.0                       |
| Louisiana*            | 112,636   | 7,559                               | 20,340                  | 2.7                       | 13,656                              | 67,901                  | 5.0                       | 60,965                              | 115,493                 | 1.9                       |
| Maine*                | 33,988  | 4,813                               | 32,449                  | 6.7                       | 9,380                               | 83,943                  | 8.9                       | 11,674                              | 25,383                  | 2.2                       |
| Maryland*             | 111,371   | 4,083                               | 7,143                   | 1.7                       | 48,239                              | 693,769                 | 14.4                      | 40,742                              | 84,922                  | 2.1                       |
| Massachusetts*        | 161,018   | 17,870                              | 97,470                  | 5.5                       | 40,797                              | 366,871                 | 9.0                       | 68,634                              | 173,997                 | 2.5                       |
| Michigan*             | 184,390   | 7,883                               | 16,344                  | 2.1                       | 53,000                              | 363,566                 | 6.9                       | 81,045                              | 177,128                 | 2.2                       |
| Minnesota*            | 96,796  | 3,835                               | 4,918                   | 1.3                       | 12,905                              | 45,893                  | 3.6                       | 40,936                              | 93,652                  | 2.3                       |
| Mississippi           | 25,712  | 409                                 | 453                     | 1.1                       | 4,824                               | 23,149                  | 4.8                       | 12,930                              | 22,829                  | 1.8                       |
| Missouri              | 62,980  | 3,789                               | 7,024                   | 1.9                       | 16,039                              | 230,581                 | 14.4                      | 22,934                              | 50,608                  | 2.2                       |
| Montana*              | 25,771  | 0                                   | 0                       | .                         | 8,184                               | 69,747                  | 8.5                       | 11,062                              | 26,217                  | 2.4                       |
| Nebraska              | 13,221  | 190                                 | 633                     | 3.3                       | 2,436                               | 15,962                  | 6.6                       | 6,238                               | 12,590                  | 2.0                       |
| Nevada*               | 49,372  | 1,293                               | 2,690                   | 2.1                       | 8,357                               | 73,871                  | 8.8                       | 21,348                              | 54,003                  | 2.5                       |
| New Hampshire*        | 20,144  | 2,595                               | 9,961                   | 3.8                       | 6,424                               | 54,353                  | 8.5                       | 5,990                               | 11,527                  | 1.9                       |
| New Jersey*           | 99,031  | 4,012                               | 9,953                   | 2.5                       | 27,495                              | 226,657                 | 8.2                       | 42,141                              | 87,782                  | 2.1                       |

Table D.1.i (continued)

| State           | Total number of Medicaid beneficiaries with a SUD | Consultation                        |                         |                           | Counseling                          |                         |                           | Emergency services                  |                         |                           |
|-----------------|---|-------------------------------------|-------------------------|---------------------------|-------------------------------------|-------------------------|---------------------------|-------------------------------------|-------------------------|---------------------------|
|                 |   | Count of beneficiaries with service | Total count of services | Average # per beneficiary | Count of beneficiaries with service | Total count of services | Average # per beneficiary | Count of beneficiaries with service | Total count of services | Average # per beneficiary |
| New Mexico*     | 65,171  | 3,435                               | 9,700                   | 2.8                       | 15,969                              | 147,012                 | 9.2                       | 23,870                              | 56,985                  | 2.4                       |
| New York*       | 377,100   | 2,966                               | 3,646                   | 1.2                       | 104,050                             | 1,214,795               | 11.7                      | 137,220                             | 347,421                 | 2.5                       |
| North Carolina  | 105,873   | 7,758                               | 17,707                  | 2.3                       | 23,989                              | 134,042                 | 5.6                       | 48,655                              | 90,063                  | 1.9                       |
| North Dakota*   | 9,240   | 138                                 | 177                     | 1.3                       | 2,444                               | 15,590                  | 6.4                       | 4,002                               | 10,206                  | 2.6                       |
| Ohio*           | 354,713   | 43,198                              | 147,331                 | 3.4                       | 144,721                             | 1,722,455               | 11.9                      | 179,290                             | 387,485                 | 2.2                       |
| Oklahoma        | 39,590  | 1,359                               | 4,680                   | 3.4                       | 6,510                               | 67,602                  | 10.4                      | 12,728                              | 22,794                  | 1.8                       |
| Oregon*         | 98,373  | 97                                  | 206                     | 2.1                       | 39,477                              | 650,246                 | 16.5                      | 38,536                              | 81,332                  | 2.1                       |
| Pennsylvania*   | 268,946   | 38,932                              | 463,158                 | 11.9                      | 74,191                              | 850,392                 | 11.5                      | 104,036                             | 194,614                 | 1.9                       |
| Puerto Rico*    | 12,499  | 127                                 | 142                     | 1.1                       | 3,239                               | 14,186                  | 4.4                       | 1,061                               | 1,576                   | 1.5                       |
| Rhode Island*   | 21,371  | 406                                 | 1,150                   | 2.8                       | 7,298                               | 61,506                  | 8.4                       | 5,879                               | 15,309                  | 2.6                       |
| South Carolina  | 42,224  | 1,961                               | 3,490                   | 1.8                       | 8,634                               | 52,784                  | 6.1                       | 19,838                              | 37,810                  | 1.9                       |
| South Dakota    | 5,394   | 94                                  | 122                     | 1.3                       | 884                                 | 7,694                   | 8.7                       | 2,391                               | 4,588                   | 1.9                       |
| Tennessee       | DQ  | DQ                                  | DQ                      | DQ                        | DQ                                  | DQ                      | DQ                        | DQ                                  | DQ                      | DQ                        |
| Texas           | 100,163   | 4,881                               | 9,690                   | 2.0                       | 12,814                              | 61,947                  | 4.8                       | 42,794                              | 79,901                  | 1.9                       |
| Utah*           | 29,545  | 68                                  | 85                      | 1.3                       | 5,124                               | 62,359                  | 12.2                      | 10,820                              | 20,219                  | 1.9                       |
| Vermont*        | 18,710  | 3,227                               | 16,939                  | 5.2                       | 4,960                               | 56,915                  | 11.5                      | 5,761                               | 11,873                  | 2.1                       |
| Virginia*       | 105,802   | 699                                 | 810                     | 1.2                       | 34,216                              | 288,873                 | 8.4                       | 40,316                              | 74,973                  | 1.9                       |
| Virgin Islands* | 284   | 0                                   | 0                       | .                         | 34                                  | 67                      | 2.0                       | 177                                 | 243                     | 1.4                       |
| Washington*     | 144,777   | 12,721                              | 128,921                 | 10.1                      | 45,817                              | 297,654                 | 6.5                       | 62,942                              | 137,628                 | 2.2                       |
| West Virginia*  | 55,656  | 6,271                               | 63,155                  | 10.1                      | 24,166                              | 358,626                 | 14.8                      | 18,301                              | 31,671                  | 1.7                       |
| Wisconsin       | 81,842  | 4,603                               | 8,738                   | 1.9                       | 15,459                              | 94,923                  | 6.1                       | 34,229                              | 72,690                  | 2.1                       |
| Wyoming         | 3,552   | 371                                 | 1,306                   | 3.5                       | 416                                 | 2,356                   | 5.7                       | 1,405                               | 2,731                   | 1.9                       |

**Table D.1.ii. Average number of SUD services received by Medicaid beneficiaries who received a given service in 2020, by service type**

| State                 | Total number of Medicaid beneficiaries with a SUD | Inpatient care                      |                                |                           | MAT                                 |                                |                           | Observation care                    |                                |                           | Partial hospitalization             |                                |                           |
|-----------------------|---|-------------------------------------|--------------------------------|---------------------------|-------------------------------------|--------------------------------|---------------------------|-------------------------------------|--------------------------------|---------------------------|-------------------------------------|--------------------------------|---------------------------|
|                       |   | Count of beneficiaries with service | Total count of days of service | Average # per beneficiary | Count of beneficiaries with service | Total count of days of service | Average # per beneficiary | Count of beneficiaries with service | Total count of days of service | Average # per beneficiary | Count of beneficiaries with service | Total count of days of service | Average # per beneficiary |
| <b>United States</b>  | <b>4,560,513</b>                                  | <b>1,840,989</b>                    | <b>18,790,924</b>              | <b>10.2</b>               | <b>1,506,575</b>                    | <b>196,691,171</b>             | <b>130.6</b>              | <b>232,113</b>                      | <b>827,594</b>                 | <b>3.6</b>                | <b>12,876</b>                       | <b>207,245</b>                 | <b>16.1</b>               |
| Alabama               | 47,599  | 22,494                              | 300,606                        | 13.4                      | 8,727                               | 1,741,366                      | 199.5                     | 1,013                               | 3,554                          | 3.5                       | 26                                  | 880                            | 33.8                      |
| Alaska*               | 18,566  | 6,414                               | 58,680                         | 9.1                       | 6,818                               | 760,263                        | 111.5                     | 978                                 | 3,932                          | 4.0                       | 13                                  | 74                             | 5.7                       |
| Arizona*              | 152,920   | 64,685                              | 600,513                        | 9.3                       | 50,407                              | 4,332,660                      | 86.0                      | 10,728                              | 45,266                         | 4.2                       | 32                                  | 609                            | 19.0                      |
| Arkansas*             | 33,268  | 21,058                              | 292,226                        | 13.9                      | 5,942                               | 454,034                        | 76.4                      | 1,812                               | 7,399                          | 4.1                       | DS                                  | DS                             | DS                        |
| California*           | 423,543   | 170,320                             | 1,355,758                      | 8.0                       | 109,453                             | 12,596,264                     | 115.1                     | 12,522                              | 41,889                         | 3.3                       | 18                                  | 179                            | 9.9                       |
| Colorado*             | 88,453  | 33,076                              | 408,823                        | 12.4                      | 31,217                              | 2,837,732                      | 90.9                      | 8,326                               | 37,578                         | 4.5                       | 0                                   | .                              | .                         |
| Connecticut*          | 82,251  | 26,165                              | 369,087                        | 14.1                      | 39,802                              | 7,657,230                      | 192.4                     | 2,341                               | 6,881                          | 2.9                       | 649                                 | 4,895                          | 7.5                       |
| Delaware*             | 21,115  | 7,665                               | 96,382                         | 12.6                      | 11,476                              | 1,983,910                      | 172.9                     | 957                                 | 5,640                          | 5.9                       | 495                                 | 9,971                          | 20.1                      |
| District of Columbia* | 12,430  | 7,447                               | 94,945                         | 12.7                      | 4,357                               | 482,683                        | 110.8                     | 672                                 | 3,764                          | 5.6                       | 0                                   | .                              | .                         |
| Florida               | 131,723   | 76,739                              | 715,032                        | 9.3                       | 31,220                              | 2,054,699                      | 65.8                      | 13,568                              | 61,856                         | 4.6                       | 61                                  | 908                            | 14.9                      |
| Georgia               | 64,291  | 34,954                              | 379,814                        | 10.9                      | 10,231                              | 1,080,774                      | 105.6                     | 4,183                               | 18,479                         | 4.4                       | 15                                  | 70                             | 4.7                       |
| Hawaii*               | 15,795  | 7,195                               | 54,987                         | 7.6                       | 2,921                               | 399,264                        | 136.7                     | 1,622                               | 5,849                          | 3.6                       | 202                                 | 3,033                          | 15.0                      |
| Idaho*                | 26,269  | 9,118                               | 62,463                         | 6.9                       | 7,672                               | 753,001                        | 98.1                      | 1,041                               | 1,823                          | 1.8                       | 343                                 | 7,646                          | 22.3                      |
| Illinois*             | 168,025   | 82,277                              | 1,463,676                      | 17.8                      | 33,133                              | 3,334,531                      | 100.6                     | 7,961                               | 18,958                         | 2.4                       | 0                                   | .                              | .                         |
| Indiana*              | 108,280   | 48,305                              | 443,789                        | 9.2                       | 49,385                              | 7,162,473                      | 145.0                     | 4,692                               | 17,202                         | 3.7                       | 375                                 | 5,392                          | 14.4                      |
| Iowa*                 | 52,380  | 22,984                              | 195,185                        | 8.5                       | 11,677                              | 1,281,951                      | 109.8                     | 2,713                               | 9,911                          | 3.7                       | 262                                 | 4,983                          | 19.0                      |
| Kansas                | 21,008  | 11,548                              | 134,596                        | 11.7                      | 3,359                               | 265,625                        | 79.1                      | 1,275                               | 5,578                          | 4.4                       | DS                                  | DS                             | DS                        |
| Kentucky*             | 155,342   | 52,135                              | 462,523                        | 8.9                       | 68,025                              | 10,959,011                     | 161.1                     | 5,371                               | 19,621                         | 3.7                       | 2,363                               | 32,998                         | 14.0                      |
| Louisiana*            | 112,636   | 52,972                              | 519,203                        | 9.8                       | 30,627                              | 3,904,205                      | 127.5                     | 5,080                               | 14,370                         | 2.8                       | DS                                  | DS                             | DS                        |
| Maine*                | 33,988  | 10,171                              | 87,578                         | 8.6                       | 16,093                              | 3,094,973                      | 192.3                     | 1,408                               | 2,460                          | 1.7                       | 0                                   | .                              | .                         |
| Maryland*             | 111,371   | 33,056                              | 330,064                        | 10.0                      | 64,186                              | 5,665,835                      | 88.3                      | 7,807                               | 32,276                         | 4.1                       | 72                                  | 424                            | 5.9                       |
| Massachusetts*        | 161,018   | 60,945                              | 871,723                        | 14.3                      | 77,071                              | 14,677,234                     | 190.4                     | 10,230                              | 26,829                         | 2.6                       | 1,077                               | 12,597                         | 11.7                      |
| Michigan*             | 184,390   | 65,950                              | 555,362                        | 8.4                       | 49,186                              | 6,016,546                      | 122.3                     | 9,971                               | 34,387                         | 3.4                       | 75                                  | 394                            | 5.3                       |
| Minnesota*            | 96,796  | 36,997                              | 497,922                        | 13.5                      | 29,464                              | 3,837,576                      | 130.2                     | 6,202                               | 29,091                         | 4.7                       | 69                                  | 638                            | 9.2                       |
| Mississippi           | 25,712  | 16,141                              | 163,051                        | 10.1                      | 3,828                               | 473,920                        | 123.8                     | 1,980                               | 9,192                          | 4.6                       | DS                                  | DS                             | DS                        |
| Missouri              | 62,980  | 24,739                              | 188,015                        | 7.6                       | 16,551                              | 1,792,481                      | 108.3                     | 2,704                               | 6,376                          | 2.4                       | 14                                  | 133                            | 9.5                       |
| Montana*              | 25,771  | 9,257                               | 89,868                         | 9.7                       | 8,181                               | 1,120,321                      | 136.9                     | 1,401                               | 4,592                          | 3.3                       | 53                                  | 1,510                          | 28.5                      |
| Nebraska              | 13,221  | 7,396                               | 56,548                         | 7.6                       | 1,742                               | 159,236                        | 91.4                      | 666                                 | 3,358                          | 5.0                       | DS                                  | DS                             | DS                        |
| Nevada*               | 49,372  | 23,550                              | 237,090                        | 10.1                      | 12,866                              | 1,197,203                      | 93.1                      | 2,806                               | 10,485                         | 3.7                       | 607                                 | 5,383                          | 8.9                       |
| New Hampshire*        | 20,144  | 5,494                               | 59,507                         | 10.8                      | 11,509                              | 1,852,865                      | 161.0                     | 623                                 | 2,147                          | 3.4                       | DS                                  | DS                             | DS                        |

Table D.1.ii (continued)

| State           | Total number of Medicaid beneficiaries with a SUD | Inpatient care                      |                                |                           | MAT                                 |                                |                           | Observation care                    |                                |                           | Partial hospitalization             |                                |                           |
|-----------------|---|-------------------------------------|--------------------------------|---------------------------|-------------------------------------|--------------------------------|---------------------------|-------------------------------------|--------------------------------|---------------------------|-------------------------------------|--------------------------------|---------------------------|
|                 |   | Count of beneficiaries with service | Total count of days of service | Average # per beneficiary | Count of beneficiaries with service | Total count of days of service | Average # per beneficiary | Count of beneficiaries with service | Total count of days of service | Average # per beneficiary | Count of beneficiaries with service | Total count of days of service | Average # per beneficiary |
| New Jersey*     | 99,031  | 35,051                              | 424,726                        | 12.1                      | 42,373                              | 4,026,500                      | 95.0                      | 8,180                               | 32,091                         | 3.9                       | 1,378                               | 46,872                         | 34.0                      |
| New Mexico*     | 65,171  | 21,368                              | 88,847                         | 4.2                       | 30,609                              | 3,704,340                      | 121.0                     | 2,352                               | 3,417                          | 1.5                       | 253                                 | 1,615                          | 6.4                       |
| New York*       | 377,100   | 154,228                             | 2,024,202                      | 13.1                      | 96,906                              | 13,027,061                     | 134.4                     | 11,835                              | 43,889                         | 3.7                       | 629                                 | 13,959                         | 22.2                      |
| North Carolina  | 105,873   | 53,943                              | 489,795                        | 9.1                       | 22,587                              | 1,800,312                      | 79.7                      | 6,926                               | 34,716                         | 5.0                       | 43                                  | 334                            | 7.8                       |
| North Dakota*   | 9,240   | 4,567                               | 53,722                         | 11.8                      | 2,225                               | 207,466                        | 93.2                      | 715                                 | 1,443                          | 2.0                       | 473                                 | 5,485                          | 11.6                      |
| Ohio*           | 354,713   | 126,490                             | 890,646                        | 7.0                       | 115,438                             | 14,885,337                     | 128.9                     | 22,950                              | 45,536                         | 2.0                       | 112                                 | 1,226                          | 10.9                      |
| Oklahoma        | 39,590  | 20,111                              | 217,092                        | 10.8                      | 7,849                               | 883,850                        | 112.6                     | 1,175                               | 4,553                          | 3.9                       | DS                                  | DS                             | DS                        |
| Oregon*         | 98,373  | 28,763                              | 262,994                        | 9.1                       | 37,193                              | 4,974,090                      | 133.7                     | 4,672                               | 21,409                         | 4.6                       | 18                                  | 243                            | 13.5                      |
| Pennsylvania*   | 268,946   | 98,106                              | 1,017,641                      | 10.4                      | 110,095                             | 16,552,238                     | 150.3                     | 11,876                              | 37,065                         | 3.1                       | 167                                 | 2,191                          | 13.1                      |
| Puerto Rico*    | 12,499  | 4,947                               | 41,453                         | 8.4                       | 2,760                               | 297,290                        | 107.7                     | 348                                 | 1,616                          | 4.6                       | 113                                 | 539                            | 4.8                       |
| Rhode Island*   | 21,371  | 4,699                               | 63,708                         | 13.6                      | 13,435                              | 1,769,596                      | 131.7                     | 635                                 | 1,981                          | 3.1                       | 333                                 | 2,442                          | 7.3                       |
| South Carolina  | 42,224  | 19,893                              | 165,232                        | 8.3                       | 11,308                              | 1,484,045                      | 131.2                     | 2,108                               | 11,213                         | 5.3                       | 0                                   | .                              | .                         |
| South Dakota    | 5,394   | 3,411                               | 33,995                         | 10.0                      | 727                                 | 70,572                         | 97.1                      | 279                                 | 1,396                          | 5.0                       | DS                                  | DS                             | DS                        |
| Tennessee       | DQ  | DQ                                  | DQ                             | DQ                        | DQ                                  | DQ                             | DQ                        | DQ                                  | DQ                             | DQ                        | DQ                                  | DQ                             | DQ                        |
| Texas           | 100,163   | 59,067                              | 531,942                        | 9.0                       | 15,758                              | 1,707,923                      | 108.4                     | 7,023                               | 31,429                         | 4.5                       | 598                                 | 7,583                          | 12.7                      |
| Utah*           | 29,545  | 10,683                              | 102,868                        | 9.6                       | 10,041                              | 975,261                        | 97.1                      | 593                                 | 2,519                          | 4.2                       | 11                                  | 214                            | 19.5                      |
| Vermont*        | 18,710  | 4,892                               | 48,841                         | 10.0                      | 9,938                               | 1,620,239                      | 163.0                     | 350                                 | 1,575                          | 4.5                       | 13                                  | 121                            | 9.3                       |
| Virginia*       | 105,802   | 45,049                              | 247,571                        | 5.5                       | 47,030                              | 6,529,361                      | 138.8                     | 4,577                               | 8,113                          | 1.8                       | 1,853                               | 30,897                         | 16.7                      |
| Virgin Islands* | 284   | 180                                 | 1,603                          | 8.9                       | 18                                  | 996                            | 55.3                      | DS                                  | DS                             | DS                        | 0                                   | .                              | .                         |
| Washington*     | 144,777   | 44,011                              | 495,163                        | 11.3                      | 63,622                              | 8,653,774                      | 136.0                     | 5,750                               | 24,610                         | 4.3                       | 61                                  | 807                            | 13.2                      |
| West Virginia*  | 55,656  | 18,329                              | 167,651                        | 9.1                       | 27,950                              | 4,695,054                      | 168.0                     | 2,263                               | 9,050                          | 4.0                       | DS                                  | DS                             | DS                        |
| Wisconsin       | 81,842  | 30,199                              | 264,986                        | 8.8                       | 30,992                              | 4,857,151                      | 156.7                     | 4,651                               | 18,990                         | 4.1                       | 0                                   | .                              | .                         |
| Wyoming         | 3,552   | 1,755                               | 11,230                         | 6.4                       | 595                                 | 38,849                         | 65.3                      | 202                                 | 240                            | 1.2                       | 0                                   | .                              | .                         |



**Table D.1.iii. Average number of SUD services received by Medicaid beneficiaries who received a given service in 2020, by service type**

| State                 | Total number of Medicaid beneficiaries with a SUD | Physician services                  |                         |                           | Screening/assessment                |                         |                           | Treatment program                   |                                |                           |
|-----------------------|---|-------------------------------------|-------------------------|---------------------------|-------------------------------------|-------------------------|---------------------------|-------------------------------------|--------------------------------|---------------------------|
|                       |   | Count of beneficiaries with service | Total count of services | Average # per beneficiary | Count of beneficiaries with service | Total count of services | Average # per beneficiary | Count of beneficiaries with service | Total count of days of service | Average # per beneficiary |
| <b>United States</b>  | <b>4,560,513</b>                                  | <b>1,583,707</b>                    | <b>7,735,665</b>        | <b>4.9</b>                | <b>898,330</b>                      | <b>1,793,856</b>        | <b>2.0</b>                | <b>329,748</b>                      | <b>11,411,889</b>              | <b>34.6</b>               |
| Alabama               | 47,599  | 14,509                              | 42,328                  | 2.9                       | 4,810                               | 6,682                   | 1.4                       | 130                                 | 9,695                          | 74.6                      |
| Alaska*               | 18,566  | 9,391                               | 40,982                  | 4.4                       | 3,502                               | 5,292                   | 1.5                       | 63                                  | 1,612                          | 25.6                      |
| Arizona*              | 152,920   | 57,731                              | 247,235                 | 4.3                       | 57,441                              | 113,728                 | 2.0                       | 15,518                              | 652,249                        | 42.0                      |
| Arkansas*             | 33,268  | 5,945                               | 14,210                  | 2.4                       | 2,479                               | 3,542                   | 1.4                       | 731                                 | 13,718                         | 18.8                      |
| California*           | 423,543   | 105,515                             | 295,407                 | 2.8                       | 30,828                              | 48,822                  | 1.6                       | 23,649                              | 989,477                        | 41.8                      |
| Colorado*             | 88,453  | 35,749                              | 142,106                 | 4.0                       | 15,459                              | 25,037                  | 1.6                       | 905                                 | 13,092                         | 14.5                      |
| Connecticut*          | 82,251  | 21,976                              | 110,596                 | 5.0                       | 20,222                              | 38,875                  | 1.9                       | 7,769                               | 117,650                        | 15.1                      |
| Delaware*             | 21,115  | 11,589                              | 83,953                  | 7.2                       | 4,940                               | 9,468                   | 1.9                       | 1,400                               | 40,804                         | 29.1                      |
| District of Columbia* | 12,430  | 1,652                               | 5,849                   | 3.5                       | 1,619                               | 3,332                   | 2.1                       | DS                                  | DS                             | DS                        |
| Florida               | 131,723   | 21,847                              | 50,882                  | 2.3                       | 13,403                              | 21,289                  | 1.6                       | 334                                 | 4,239                          | 12.7                      |
| Georgia               | 64,291  | 21,543                              | 64,660                  | 3.0                       | 8,605                               | 23,564                  | 2.7                       | 295                                 | 2,907                          | 9.9                       |
| Hawaii*               | 15,795  | 5,577                               | 16,111                  | 2.9                       | 2,863                               | 4,626                   | 1.6                       | 819                                 | 22,213                         | 27.1                      |
| Idaho*                | 26,269  | 9,817                               | 35,942                  | 3.7                       | 7,788                               | 30,594                  | 3.9                       | 733                                 | 19,473                         | 26.6                      |
| Illinois*             | 168,025   | 56,343                              | 159,512                 | 2.8                       | 36,602                              | 70,990                  | 1.9                       | 814                                 | 8,983                          | 11.0                      |
| Indiana*              | 108,280   | 30,338                              | 253,451                 | 8.4                       | 22,259                              | 32,854                  | 1.5                       | 2,754                               | 31,024                         | 11.3                      |
| Iowa*                 | 52,380  | 20,736                              | 65,416                  | 3.2                       | 15,176                              | 26,646                  | 1.8                       | 3,219                               | 77,697                         | 24.1                      |
| Kansas                | 21,008  | 5,153                               | 12,238                  | 2.4                       | 3,411                               | 4,770                   | 1.4                       | 1,179                               | 31,430                         | 26.7                      |
| Kentucky*             | 155,342   | 78,190                              | 784,950                 | 10.0                      | 40,141                              | 96,290                  | 2.4                       | 14,147                              | 310,229                        | 21.9                      |
| Louisiana*            | 112,636   | 31,276                              | 88,753                  | 2.8                       | 17,896                              | 26,973                  | 1.5                       | 15,970                              | 433,979                        | 27.2                      |
| Maine*                | 33,988  | 15,212                              | 68,618                  | 4.5                       | 11,117                              | 30,011                  | 2.7                       | 1,354                               | 42,406                         | 31.3                      |
| Maryland*             | 111,371   | 48,387                              | 270,273                 | 5.6                       | 35,210                              | 54,316                  | 1.5                       | 13,775                              | 455,745                        | 33.1                      |
| Massachusetts*        | 161,018   | 66,997                              | 500,238                 | 7.5                       | 26,501                              | 45,033                  | 1.7                       | 19,927                              | 906,093                        | 45.5                      |
| Michigan*             | 184,390   | 72,975                              | 267,275                 | 3.7                       | 49,013                              | 109,550                 | 2.2                       | 17,014                              | 450,921                        | 26.5                      |
| Minnesota*            | 96,796  | 38,138                              | 116,636                 | 3.1                       | 32,311                              | 61,994                  | 1.9                       | 28,142                              | 1,425,431                      | 50.7                      |
| Mississippi           | 25,712  | 7,431                               | 25,492                  | 3.4                       | 2,531                               | 4,064                   | 1.6                       | 137                                 | 1,594                          | 11.6                      |
| Missouri              | 62,980  | 25,244                              | 80,913                  | 3.2                       | 11,957                              | 19,317                  | 1.6                       | 2,812                               | 63,803                         | 22.7                      |
| Montana*              | 25,771  | 10,032                              | 35,603                  | 3.5                       | 5,481                               | 8,167                   | 1.5                       | 2,184                               | 62,965                         | 28.8                      |
| Nebraska              | 13,221  | 2,804                               | 5,998                   | 2.1                       | 2,157                               | 2,965                   | 1.4                       | 793                                 | 27,640                         | 34.9                      |
| Nevada*               | 49,372  | 13,774                              | 40,339                  | 2.9                       | 11,692                              | 31,632                  | 2.7                       | 2,034                               | 40,215                         | 19.8                      |

Table D.1.iii (continued)

| State           | Total number of Medicaid beneficiaries with a SUD | Physician services                  |                         |                           | Screening/assessment                |                         |                           | Treatment program                   |                                |                           |
|-----------------|---|-------------------------------------|-------------------------|---------------------------|-------------------------------------|-------------------------|---------------------------|-------------------------------------|--------------------------------|---------------------------|
|                 |   | Count of beneficiaries with service | Total count of services | Average # per beneficiary | Count of beneficiaries with service | Total count of services | Average # per beneficiary | Count of beneficiaries with service | Total count of days of service | Average # per beneficiary |
| New Hampshire*  | 20,144  | 9,115                               | 50,821                  | 5.6                       | 4,710                               | 9,620                   | 2.0                       | 2,595                               | 59,920                         | 23.1                      |
| New Jersey*     | 99,031  | 30,794                              | 117,412                 | 3.8                       | 26,325                              | 82,777                  | 3.1                       | 9,411                               | 343,822                        | 36.5                      |
| New Mexico*     | 65,171  | 19,788                              | 74,251                  | 3.8                       | 15,693                              | 27,811                  | 1.8                       | 3,225                               | 85,599                         | 26.5                      |
| New York*       | 377,100   | 101,183                             | 308,437                 | 3.0                       | 31,157                              | 55,943                  | 1.8                       | 6,514                               | 219,208                        | 33.7                      |
| North Carolina  | 105,873   | 36,240                              | 187,976                 | 5.2                       | 15,866                              | 24,987                  | 1.6                       | 6,606                               | 272,617                        | 41.3                      |
| North Dakota*   | 9,240   | 3,620                               | 14,652                  | 4.0                       | 1,919                               | 2,994                   | 1.6                       | 1,188                               | 17,601                         | 14.8                      |
| Ohio*           | 354,713   | 171,608                             | 1,035,341               | 6.0                       | 95,906                              | 173,991                 | 1.8                       | 39,617                              | 1,423,649                      | 35.9                      |
| Oklahoma        | 39,590  | 11,564                              | 36,193                  | 3.1                       | 3,521                               | 5,170                   | 1.5                       | 0                                   | .                              | .                         |
| Oregon*         | 98,373  | 39,100                              | 138,712                 | 3.5                       | 27,593                              | 41,591                  | 1.5                       | 6,501                               | 281,741                        | 43.3                      |
| Pennsylvania*   | 268,946   | 89,558                              | 502,511                 | 5.6                       | 56,174                              | 155,316                 | 2.8                       | 44,747                              | 1,641,604                      | 36.7                      |
| Puerto Rico*    | 12,499  | 4,404                               | 15,196                  | 3.5                       | 1,958                               | 3,122                   | 1.6                       | DS                                  | DS                             | DS                        |
| Rhode Island*   | 21,371  | 7,540                               | 35,667                  | 4.7                       | 4,622                               | 8,274                   | 1.8                       | 720                                 | 14,522                         | 20.2                      |
| South Carolina  | 42,224  | 10,492                              | 39,946                  | 3.8                       | 7,524                               | 13,217                  | 1.8                       | 1,027                               | 21,811                         | 21.2                      |
| South Dakota    | 5,394   | 812                                 | 2,494                   | 3.1                       | 808                                 | 1,124                   | 1.4                       | 435                                 | 19,423                         | 44.7                      |
| Tennessee       | DQ  | DQ                                  | DQ                      | DQ                        | DQ                                  | DQ                      | DQ                        | DQ                                  | DQ                             | DQ                        |
| Texas           | 100,163   | 25,468                              | 67,257                  | 2.6                       | 10,807                              | 16,560                  | 1.5                       | 2,771                               | 60,021                         | 21.7                      |
| Utah*           | 29,545  | 6,311                               | 23,173                  | 3.7                       | 4,679                               | 10,507                  | 2.2                       | 1,258                               | 55,469                         | 44.1                      |
| Vermont*        | 18,710  | 9,067                               | 71,187                  | 7.9                       | 3,380                               | 4,769                   | 1.4                       | 1,255                               | 30,052                         | 23.9                      |
| Virginia*       | 105,802   | 41,721                              | 284,945                 | 6.8                       | 17,950                              | 37,910                  | 2.1                       | 4,614                               | 71,721                         | 15.5                      |
| Virgin Islands* | 284   | 62                                  | 112                     | 1.8                       | 21                                  | 24                      | 1.1                       | 0                                   | .                              | .                         |
| Washington*     | 144,777   | 56,526                              | 294,547                 | 5.2                       | 39,967                              | 71,518                  | 1.8                       | 13,090                              | 370,315                        | 28.3                      |
| West Virginia*  | 55,656  | 29,926                              | 368,102                 | 12.3                      | 13,375                              | 18,563                  | 1.4                       | 4,141                               | 141,260                        | 34.1                      |
| Wisconsin       | 81,842  | 31,786                              | 136,917                 | 4.3                       | 16,424                              | 66,956                  | 4.1                       | 1,432                               | 24,250                         | 16.9                      |
| Wyoming         | 3,552   | 1,151                               | 3,850                   | 3.3                       | 537                                 | 689                     | 1.3                       | 0                                   | .                              | .                         |

Source: Analysis of the 2020 preliminary TAF data release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits.

Notes: The U.S. average is an overall average across the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims. Detailed information on how SUD treatment was identified is reported in Appendix B.

The count of beneficiaries for each service type represents the count of beneficiaries *with a SUD* who received the service.

We counted certain service types by days (inpatient care, MAT, observation care, partial hospitalization, and treatment program), but we counted other service types by claims (consultation, counseling, emergency services, physician services, screening/assessment). A claim roughly represents a single service, such as a physician service or a screening/assessment. For MAT days, we counted the number of unique days for which a beneficiary was covered by a prescription for a SUD.

Service types counted by claims are for claims on different dates of service.

Table D.1.iii (*continued*)

We did not count claims with missing dates of service, procedure codes, or other information. The services presented in the table are for a SUD; if the claim did not have a SUD diagnosis code, we did not count the service.

Variation across states in the number of services beneficiaries received may be a result of billing practices, policies, or programs (for instance, if a state covers specific services), or data quality issues.

\*The state implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

DS = Data suppressed for confidentiality reasons because the group included fewer than 11 beneficiaries. If the size of a group that a state did not report because of confidentiality can be identified by using other numbers from that state, we did not report a second group within that state. Slightly different totals across the tables are a function of differences in the need to suppress data from one table to the next.

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.

### **E. Delivery system for SUD services provided by state Medicaid programs**

Section 1015(a)(2)(E) of the SUPPORT Act requires the SUD Data Book to provide the number and percentage of Medicaid beneficiaries treated for a SUD through managed care entities,<sup>97</sup> FFS payment models, or an alternative payment model, by enrollment category. We split the tables that show this information by enrollment category (Tables A.3 and A.4) and delivery system (Table E.1). We did so to avoid not only small groups, which would have required us to suppress information to maintain the confidentiality of beneficiaries, but also data quality issues that arise when cross-tabulating multiple variables simultaneously. Furthermore, we do not present results for alternative payment models because it is not currently possible to identify alternative payment models in the TAF data.

#### **Table E.1. Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by delivery system**

- Seventy-four percent of the Medicaid beneficiaries treated for a SUD received at least one SUD service through a managed care organization in 2020, and 40 percent of the Medicaid beneficiaries treated for a SUD received at least one service through a state's FFS system in 2020. Because some states use both types of delivery systems to serve beneficiaries with a SUD, they are not mutually exclusive, and some beneficiaries receive SUD services through both managed care and the FFS system.
- In eight states and territories (Delaware, Hawaii, Iowa, Kansas, Nebraska, Pennsylvania, Puerto Rico, and Rhode Island), 95 percent or more of the beneficiaries treated for a SUD received at least one service through a managed care organization.
- In nine states and territories, none of the beneficiaries treated for a SUD received any services through managed care (Alabama, Alaska, Connecticut, Maine, Montana, Oklahoma, South Dakota, the Virgin Islands, and Wyoming).<sup>98</sup>

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<sup>97</sup> Managed care entities may include both risk-based managed care, including comprehensive managed care plans and behavioral health organizations, as well as primary care case management entities.

<sup>98</sup> A number of these states enroll Medicaid beneficiaries in managed care but may not provide SUD services through managed care (CMS 2018).

**Table E.1. Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by delivery system**

| State                 | Total number of Medicaid beneficiaries with a SUD | Total with a managed care SUD encounter claim |             | Total with an FFS SUD claim |             |
|-----------------------|---|---|-------------|-----------------------------|-------------|
|                       |   | Number  | Percent     | Number                      | Percent     |
| <b>United States</b>  | <b>4,560,513</b>                                  | <b>3,359,668</b>                              | <b>73.7</b> | <b>1,829,625</b>            | <b>40.1</b> |
| Alabama               | 47,599  | 0   | 0.0         | 47,599                      | 100.0       |
| Alaska*               | 18,566  | 0   | 0.0         | 18,566                      | 100.0       |
| Arizona*              | 152,920   | 140,029                                       | 91.6        | 15,325                      | 10.0        |
| Arkansas*             | 33,268  | 2,687   | 8.1         | 31,028                      | 93.3        |
| California*           | 423,543   | 297,390                                       | 70.2        | 218,599                     | 51.6        |
| Colorado*             | 88,453  | 27,638  | 31.2        | 75,207                      | 85.0        |
| Connecticut*          | 82,251  | 0   | 0.0         | 82,251                      | 100.0       |
| Delaware*             | 21,115  | 20,177  | 95.6        | 2,496                       | 11.8        |
| District of Columbia* | 12,430  | 7,346   | 59.1        | 6,705                       | 53.9        |
| Florida               | 131,723   | 112,735                                       | 85.6        | 24,402                      | 18.5        |
| Georgia               | 64,291  | 27,400  | 42.6        | 37,926                      | 59.0        |
| Hawaii*               | 15,795  | 15,750  | 99.7        | 128                         | 0.8         |
| Idaho*                | 26,269  | 11,872  | 45.2        | 19,641                      | 74.8        |
| Illinois*             | 168,025   | 135,698                                       | 80.8        | 46,534                      | 27.7        |
| Indiana*              | 108,280   | 84,392  | 77.9        | 35,405                      | 32.7        |
| Iowa*                 | 52,380  | 50,946  | 97.3        | 2,329                       | 4.4         |
| Kansas                | 21,008  | 20,903  | 99.5        | 211                         | 1.0         |
| Kentucky*             | 155,342   | 143,885                                       | 92.6        | 14,859                      | 9.6         |
| Louisiana*            | 112,636   | 102,796                                       | 91.3        | 11,274                      | 10.0        |
| Maine*                | 33,988  | 0   | 0.0         | 33,988                      | 100.0       |
| Maryland*             | 111,371   | 53,508  | 48.0        | 93,022                      | 83.5        |
| Massachusetts*        | 161,018   | 106,352                                       | 66.0        | 83,026                      | 51.6        |
| Michigan*             | 184,390   | 167,436                                       | 90.8        | 43,026                      | 23.3        |
| Minnesota*            | 96,796  | 80,649  | 83.3        | 39,231                      | 40.5        |
| Mississippi           | 25,712  | 15,521  | 60.4        | 12,067                      | 46.9        |
| Missouri              | 62,980  | 18,877  | 30.0        | 51,487                      | 81.8        |
| Montana*              | 25,771  | 0   | 0.0         | 25,771                      | 100.0       |
| Nebraska              | 13,221  | 13,030  | 98.6        | 331                         | 2.5         |
| Nevada*               | 49,372  | 32,014  | 64.8        | 21,771                      | 44.1        |
| New Hampshire*        | 20,144  | 18,949  | 94.1        | 2,836                       | 14.1        |
| New Jersey*           | 99,031  | 76,088  | 76.8        | 48,921                      | 49.4        |
| New Mexico*           | 65,171  | 60,667  | 93.1        | 4,991                       | 7.7         |
| New York*             | 377,100   | 303,351                                       | 80.4        | 202,542                     | 53.7        |
| North Carolina        | 105,873   | 37,416  | 35.3        | 91,738                      | 86.6        |
| North Dakota*         | 9,240   | 4,393   | 47.5        | 6,037                       | 65.3        |
| Ohio*                 | 354,713   | 326,545                                       | 92.1        | 77,016                      | 21.7        |
| Oklahoma              | 39,590  | 0   | 0.0         | 39,590                      | 100.0       |
| Oregon*               | 98,373  | 91,014  | 92.5        | 17,931                      | 18.2        |
| Pennsylvania*         | 268,946   | 259,982                                       | 96.7        | 22,965                      | 8.5         |
| Puerto Rico*          | 12,499  | 12,499  | 100.0       | 0                           | 0.0         |
| Rhode Island*         | 21,371  | 20,295  | 95.0        | 2,687                       | 12.6        |
| South Carolina        | 42,224  | 32,601  | 77.2        | 12,634                      | 29.9        |
| South Dakota          | 5,394   | 0   | 0.0         | 5,394                       | 100.0       |
| Tennessee             | DQ  | DQ  | DQ          | DQ                          | DQ          |
| Texas                 | 100,163   | 82,484  | 82.3        | 23,588                      | 23.5        |

Table E.1 (continued)

| State           | Total number of Medicaid beneficiaries with a SUD | Total with a managed care SUD encounter claim |         | Total with an FFS SUD claim |         |
|-----------------|---|---|---------|-----------------------------|---------|
|                 |   | Number  | Percent | Number                      | Percent |
| Utah*           | 29,545  | 17,625  | 59.7    | 21,801                      | 73.8    |
| Vermont*        | 18,710  | 781   | 4.2     | 18,694                      | 99.9    |
| Virginia*       | 105,802   | 99,694  | 94.2    | 13,565                      | 12.8    |
| Virgin Islands* | 284   | 0   | 0.0     | 284                         | 100.0   |
| Washington*     | 144,777   | 129,306                                       | 89.3    | 26,824                      | 18.5    |
| West Virginia*  | 55,656  | 41,790  | 75.1    | 38,143                      | 68.5    |
| Wisconsin       | 81,842  | 55,157  | 67.4    | 53,687                      | 65.6    |
| Wyoming         | 3,552   | 0   | 0.0     | 3,552                       | 100.0   |

Source: Analysis of the 2020 preliminary TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits.

Notes: The U.S. average is an overall average across the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims. Appendix B includes detailed information on how we identified SUD treatment.

We categorized a SUD service use record as covered under managed care if it was a managed care encounter or contained a managed care plan ID. Beneficiaries could have one or both types of claims during the year.

\*The state implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

DS = Data suppressed for confidentiality reasons because the group included fewer than 11 beneficiaries. If the size of a group that a state did not report because of confidentiality can be identified by using other numbers from that state, we did not report a second group within that state. Slightly different totals across the tables are a function of differences in the need to suppress data from one table to the next.

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.

## **F. Progression of care for Medicaid beneficiaries treated for a SUD**

Section 1015(a)(2)(F) of the SUPPORT Act requires the SUD Data Book to provide the number and percentage of Medicaid beneficiaries with a SUD who receive SUD treatment services in an outpatient or home- or a community-based setting after receiving treatment in an inpatient or residential setting; the statute also requires the SUD Data Book to provide the number of services received by these individuals in these settings. However, the number of outpatient or home- or community-based services provided after beneficiaries have received services in an inpatient or a residential setting cannot be calculated consistently across beneficiaries because of different individual patterns of care and because of the time within a care episode at which the services in the inpatient or residential setting were received. Furthermore, different methodologies are used to count different types of services (for instance, by claims and by days). Therefore, in Table F.1, we present the number and percentage of Medicaid beneficiaries who received at least one, or two or more, outpatient or home- or community-based services after receiving services in an inpatient or residential setting during 2020.<sup>99</sup>

**Table F.1. Progression of care for Medicaid beneficiaries treated for a SUD who received services in an inpatient or a residential setting in 2020**

- Among the Medicaid beneficiaries treated for a SUD and who received SUD services in an inpatient or residential setting during 2020, 29 percent received at least one service in an outpatient or home- or community-based setting within 30 days of discharge, and 20 percent received two services or more in these settings.
- The proportion of Medicaid beneficiaries treated for a SUD in an inpatient or residential setting during 2020 who received a SUD service in an outpatient or home- or community-based setting within 30 days of discharge ranged from 14 percent or less in Arkansas, Mississippi, Oklahoma, and the Virgin Islands to 47 percent in Rhode Island. Delaware, Maryland, Massachusetts, New Hampshire, and Rhode Island had the highest percentage of beneficiaries who received two or more SUD services in an outpatient or home- or community-based setting within 30 days of discharge (more than 30 percent).

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<sup>99</sup> As noted, because the data in this table are based on T-MSIS claims reported by the states and represent services provided, they do not necessarily represent what is included in a state's Medicaid plan, section 1115 demonstration, or Medicaid and CHIP Program data.

**Table F.1. Progression of care for Medicaid beneficiaries treated for a SUD who received services in an inpatient or a residential setting in 2020**

| State                 | Number of beneficiaries with a SUD who received services in an inpatient or a residential setting | Received at least one outpatient or home- or community-based SUD service within 30 days of discharge |             | Received more than one outpatient or home- or community-based service within 30 days of discharge |             |
|-----------------------|---|--|-------------|---|-------------|
|                       |   | Number   | Percent     | Number  | Percent     |
| <b>United States</b>  | <b>1,957,365</b>  | <b>562,633</b>   | <b>28.7</b> | <b>395,323</b>  | <b>20.2</b> |
| Alabama               | 21,926  | 5,619  | 25.6        | 2,858   | 13.0        |
| Alaska*               | 6,797   | 2,164  | 31.8        | 1,433   | 21.1        |
| Arizona*              | 65,945  | 25,443   | 38.6        | 19,473  | 29.5        |
| Arkansas*             | 20,348  | 2,835  | 13.9        | 1,371   | 6.7         |
| California*           | 193,618   | 44,641   | 23.1        | 28,924  | 14.9        |
| Colorado*             | 32,605  | 8,081  | 24.8        | 4,949   | 15.2        |
| Connecticut*          | 26,565  | 10,092   | 38.0        | 7,662   | 28.8        |
| Delaware*             | 8,139   | 3,255  | 40.0        | 2,443   | 30.0        |
| District of Columbia* | 7,325   | 1,344  | 18.3        | 861   | 11.8        |
| Florida               | 77,635  | 12,989   | 16.7        | 6,894   | 8.9         |
| Georgia               | 34,333  | 5,038  | 14.7        | 2,533   | 7.4         |
| Hawaii*               | 7,446   | 1,807  | 24.3        | 1,045   | 14.0        |
| Idaho*                | 9,489   | 2,777  | 29.3        | 1,756   | 18.5        |
| Illinois*             | 86,455  | 21,432   | 24.8        | 11,613  | 13.4        |
| Indiana*              | 49,741  | 10,466   | 21.0        | 7,523   | 15.1        |
| Iowa*                 | 23,027  | 6,248  | 27.1        | 4,203   | 18.3        |
| Kansas                | 11,838  | 2,210  | 18.7        | 1,536   | 13.0        |
| Kentucky*             | 58,929  | 21,990   | 37.3        | 16,149  | 27.4        |
| Louisiana*            | 58,276  | 14,898   | 25.6        | 11,480  | 19.7        |
| Maine*                | 9,986   | 3,188  | 31.9        | 2,388   | 23.9        |
| Maryland*             | 39,509  | 16,175   | 40.9        | 13,286  | 33.6        |
| Massachusetts*        | 71,330  | 31,979   | 44.8        | 26,771  | 37.5        |
| Michigan*             | 82,949  | 25,297   | 30.5        | 16,888  | 20.4        |
| Minnesota*            | 36,648  | 12,474   | 34.0        | 9,006   | 24.6        |
| Mississippi           | 15,603  | 1,896  | 12.2        | 877   | 5.6         |
| Missouri              | 26,017  | 7,213  | 27.7        | 4,902   | 18.8        |
| Montana*              | 9,711   | 3,313  | 34.1        | 2,324   | 23.9        |
| Nebraska              | 7,420   | 1,384  | 18.7        | 789   | 10.6        |
| Nevada*               | 23,391  | 6,774  | 29.0        | 4,568   | 19.5        |
| New Hampshire*        | 6,731   | 2,910  | 43.2        | 2,209   | 32.8        |
| New Jersey*           | 36,389  | 11,317   | 31.1        | 9,082   | 25.0        |
| New Mexico*           | 21,075  | 6,881  | 32.7        | 4,535   | 21.5        |
| New York*             | 154,029   | 52,632   | 34.2        | 40,353  | 26.2        |
| North Carolina        | 54,410  | 10,087   | 18.5        | 5,786   | 10.6        |
| North Dakota*         | 4,386   | 1,426  | 32.5        | 976   | 22.3        |
| Ohio*                 | 141,884   | 54,783   | 38.6        | 41,845  | 29.5        |
| Oklahoma              | 19,965  | 2,665  | 13.3        | 1,313   | 6.6         |
| Oregon*               | 34,492  | 12,860   | 37.3        | 9,503   | 27.6        |
| Pennsylvania*         | 97,504  | 22,981   | 23.6        | 14,854  | 15.2        |
| Puerto Rico*          | 5,283   | 806  | 15.3        | 445   | 8.4         |
| Rhode Island*         | 4,701   | 2,208  | 47.0        | 1,779   | 37.8        |
| South Carolina        | 19,785  | 3,174  | 16.0        | 1,900   | 9.6         |
| South Dakota          | 3,479   | 565  | 16.2        | 360   | 10.3        |



Table F.1 (continued)

| State           | Number of beneficiaries with a SUD who received services in an inpatient or a residential setting | Received at least one outpatient or home- or community-based SUD service within 30 days of discharge |         | Received more than one outpatient or home- or community-based service within 30 days of discharge |         |
|-----------------|---|--|---------|---|---------|
|                 |   | Number   | Percent | Number  | Percent |
| Tennessee       | DQ  | DQ   | DQ      | DQ  | DQ      |
| Texas           | 59,586  | 9,180  | 15.4    | 4,968   | 8.3     |
| Utah*           | 16,171  | 6,713  | 41.5    | 4,563   | 28.2    |
| Vermont*        | 5,086   | 1,796  | 35.3    | 1,324   | 26.0    |
| Virginia*       | 44,830  | 11,005   | 24.5    | 7,351   | 16.4    |
| Virgin Islands* | 183   | 15   | 8.2     | DS  | DS      |
| Washington*     | 51,651  | 19,390   | 37.5    | 14,375  | 27.8    |
| West Virginia*  | 20,886  | 6,284  | 30.1    | 4,534   | 21.7    |
| Wisconsin       | 30,099  | 9,642  | 32.0    | 6,601   | 21.9    |
| Wyoming         | 1,759   | 291  | 16.5    | 162   | 9.2     |

Source: Analysis of the 2020 preliminary TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits.

Notes: The U.S. average is an overall average across the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims. Appendix B includes detailed information on how we identified SUD treatment.

\*The state implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

DS = Data suppressed for confidentiality reasons because the group included fewer than 11 beneficiaries. If the size of a group that a state did not report because of confidentiality can be identified by using other numbers from that state, we did not report a second group within that state. Slightly different totals across the tables are a function of differences in the need to suppress data from one table to the next.

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.

## G. Changes over time in key measures

With multiple years of T-MSIS and TAF data now available, the SUD Data Book includes an assessment of changes over time. To provide an analysis of year-over-year changes in the number of Medicaid beneficiaries treated for a SUD and the services they received, we compared the results presented in this report to the results from 2019<sup>100</sup> for several key measures.<sup>101</sup>

This section presents the results from an analysis of changes over time from 2019 to 2020, by state, for eight key measures from the report:<sup>102</sup> change in the percentage of Medicaid beneficiaries treated for a SUD and the percentage of Medicaid beneficiaries treated for an OUD (Source Table A.1); change in the percentage of Medicaid beneficiaries treated for a SUD who received MAT or emergency services (Source Table C.1); change in the percentage of Medicaid beneficiaries treated for a SUD who received treatment in an inpatient, residential, or outpatient setting (Source Table C.2);<sup>103</sup> and change in the percentage of Medicaid beneficiaries treated for a SUD who received inpatient or residential treatment and an outpatient or community-based follow-up within 30 days of discharge (Source Table F.1).

These measures were chosen to highlight areas of interest to policymakers, researchers, advocates, and other stakeholders. In addition, they touch on key aims of the SUPPORT Act and 1115 SUD demonstrations, as well as other federal grant programs. Although we include only a sample of measures from the Results section, similar comparisons could be conducted for other measures in this report.

### Methods and limitations

To compare key results from the 2019 and 2020 SUD Data Books, we conducted a series of hypothesis tests.<sup>104</sup> Each test was a two-sample test for the equality of proportions that compared the proportion of individuals with each condition or service type in 2020 to that proportion in 2019.<sup>105</sup> When the confidence interval for the difference between the two proportions did not

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<sup>100</sup> The 2019 results presented in this section differ slightly from those published in the 2019 SUD Data Book due to slight changes in the methodology. To ensure results are comparable from year to year in this report, the 2019 results were recalculated using the 2020 report methodology. The 2019 SUD Data Book is available at <https://www.medicaid.gov/medicaid/data-systems/downloads/2019-sud-data-book.pdf>.

<sup>101</sup> The 2019 report was the first SUD Data Book to undertake a longitudinal analysis because 2019 was the first year the data were of sufficient completeness and quality for at least two years (2018 and 2019). Due to methodological updates mentioned in Chapter IV: Methods of this report, we do not recommend comparing the 2018 and 2020 results.

<sup>102</sup> For more information about the calculation of the measures used in these tables, refer to Chapter IV: Methods.

<sup>103</sup> Appendix B contains information about how service type and setting were defined. A service provided in a residential setting refers to a residential facility setting, identified as a nursing facility, intermediate care facility, or other overnight facility according to the FASC classification, as well as claims reported to the LT file and not classified as inpatient claims according to the FASC classification. Services provided in a community-based setting are services delivered in a school, clubhouse, or other nonmedical setting. We did not analyze whether any services were provided via telehealth.

<sup>104</sup> The null hypothesis (no change) was that the measures in 2019 and 2020 would be the same. The alternative hypothesis was that they would be different.

<sup>105</sup> The two-sample binomial test of proportions is a standard statistical test. It consists of first calculating the proportion associated with each outcome and each state (these numerators and denominators are provided in each table) for each year and then calculating the difference between the two (2020 minus 2019, or  $\hat{P}_{2020-2019}$ ). The difference between the proportions in the two years was represented as follows:

include zero, the difference in proportions between the two years was considered statistically significant.

There are a number of challenges to interpreting changes over time in the SUD Data Book. First, because the quality and quantity of these data have improved over the years, it is difficult to disentangle data improvements from true changes in the population of Medicaid beneficiaries treated for SUD and the services they received. Although the magnitude and pace of improvements in the data have slowed somewhat since the creation of T-MSIS, they do continue. For example, if a state's claims submissions became more complete over time and thus contained more claims for behavioral health, this change alone could result in the identification of more beneficiaries with a SUD in recent years, even though services have not been expanded and the number of beneficiaries treated for a SUD has not changed. Second, the statistical significance of many of the changes over time is driven at least in part by very large sample sizes in some states, which causes even small differences to be statistically significant but not necessarily clinically significant. Therefore, the results should be interpreted with caution. Third, each state has a unique Medicaid population and policy environment that may explain the changes in SUD diagnosis and treatment over time. However, it is outside the scope of this report to delve into the drivers of these changes over time. Fourth, because beneficiaries were identified for this report using claims, it was not possible to distinguish whether an increase in the number of beneficiaries treated for a SUD was due to higher rates of treatment or an increase in the prevalence of SUD in the Medicaid population.

Finally, changes in the proportion of Medicaid beneficiaries should be interpreted within the context of an increasing denominator between 2019 and 2020: the total number of Medicaid beneficiaries was substantially greater in 2020 compared to 2019. Some states had a decline in the proportion of beneficiaries with a SUD or in the proportion receiving a particular service from 2019 to 2020 despite an increase in the absolute number of beneficiaries overall or use of a particular service in the state.

We present the results in both tabular and chart format. The first two tables and charts (for changes in the percentage of beneficiaries) have a different range of percentage point change than the other six (for changes in the percentage of beneficiaries receiving particular services). This approach balances the comparability across figures with the visibility and interpretability of the results. We did not provide changes over time for Tennessee because it had a very low number of Medicaid claims that linked to the enrollment file in both 2019 and 2020, which made

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$\hat{P}_{2020-2019} = \frac{X_{2020}}{N_{2020}} - \frac{X_{2019}}{N_{2019}}$ . Here,  $X$  and  $N$  indicate the numerator and denominator, respectively, in each year. The standard error of this

difference was given by the following formula:  $SE(\hat{P}_{2020-2019}) = \sqrt{\hat{p}(1-\hat{p})\left(\frac{1}{N_{2019}} + \frac{1}{N_{2020}}\right)}$ , where  $\hat{p} = \frac{X_{2019} + X_{2020}}{N_{2019} + N_{2020}}$ . We then

calculated the Z-statistic associated with the hypothesis test for the null hypothesis that  $\hat{P}_{2020-2019} = 0$ , as well as the 95 percent confidence interval for  $\hat{P}_{2020-2019}$ . We also calculated the  $p$ -value associated with this test. Because this test was repeated for all states, we adjusted the calculations using the Benjamini-Hochberg correction (Benjamini and Hochberg 1995). We considered the difference to be statistically significant when the  $p$ -value associated with the test was less than 0.05.

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it difficult to correctly identify not only beneficiaries treated for a SUD but also the services they received.

## Results

Nationally, the total number of Medicaid beneficiaries who met the inclusion criteria for the SUD Data Book increased by nearly 1.3 million beneficiaries between 2019 and 2020. Some of the observed changes in proportions can be explained by a change in the total number of Medicaid beneficiaries (the denominator) rather than a change in the number of beneficiaries receiving treatment for a SUD (the numerator). The number of beneficiaries enrolled in Medicaid increased during the COVID-19 pandemic, and by extension, so did the number eligible for SUD treatment. For example, in New Mexico, the percentage of Medicaid beneficiaries treated for an OUD decreased by 0.3 percentage points between 2019 and 2020, from 5.5 percent to 5.2 percent, although the absolute number of Medicaid beneficiaries treated for an OUD in the state was greater in 2020 compared to 2019. Additionally, the magnitude of changes from year to year should be interpreted with caution: even a small percentage point change in treatment can represent a large number of beneficiaries. For example, a difference of 0.3 percentage points in the number of Medicaid beneficiaries treated for an OUD in New Mexico represents an additional 671 beneficiaries, whereas a 0.3 percentage point decrease in the number of beneficiaries treated for an OUD in California translates to just over 31,000 fewer beneficiaries treated for an OUD in the state in 2020 compared to 2019.

### Table and Figure G.1. Change in the percentage of Medicaid beneficiaries treated for a SUD<sup>106</sup>

- Nationally, the percentage of Medicaid beneficiaries treated for a SUD decreased by 0.5 percentage points from 2019 to 2020, from 8.6 to 8.1 percent. Although the percentage point change was small, the overall decrease in the number of beneficiaries treated for a SUD represents a large number of people. Approximately 135,000 fewer beneficiaries were treated for a SUD in 2020 compared to 2019.<sup>107</sup>
- Overall, the majority of states experienced a decrease in the percentage of beneficiaries treated for a SUD. These decreases were statistically significant in 32 states. The size of the decrease did not vary substantially across states. The decrease was 1 percentage point or greater in nine states: Kentucky, Oklahoma, Connecticut (–1.4 percentage points in each), Alaska (–1.3 percentage points), Michigan and Hawaii (–1.2 percentage points in each), Iowa (–1.1 percentage points), and Ohio and Wisconsin (–1.0 percentage point in each).
- Fourteen states experienced a statistically significant increase in the percentage of beneficiaries treated for a SUD. The increase was 1 percentage point or greater in six states:

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<sup>106</sup> This analysis was adapted from a revised Table A.1, “Number and percentage of Medicaid beneficiaries treated for a SUD in 2019, by disorder,” and Table A.1, “Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by disorder,” in the 2020 SUD Data Book.

<sup>107</sup> This section describes the net change in the number of beneficiaries treated for any SUD in 2020 compared to 2019 across all SUDs in Table A.1. There may be increases or decreases in treatment for individual SUDs. However, that detail was not noted here.

North Dakota (2.1 percentage points), Utah (1.6 percentage points), Alabama, Idaho, and West Virginia, (1.3 percentage points in each), and Nebraska (1.2 percentage point in each).

- There was either no change or the change was not statistically significant in seven other states.

**Table and Figure G.2. Change in the percentage of Medicaid beneficiaries treated for an OUD<sup>108</sup>**

- Nearly 45,000 additional beneficiaries were treated for an OUD in 2020 compared to 2019, although there was no percentage point change year over year. Nationally, the percentage of Medicaid beneficiaries treated for an OUD remained the same from 2019 to 2020, at 2.9 percent.
- The percentage of Medicaid beneficiaries treated for an OUD increased in 29 states, and the increases in 22 states were statistically significant. The increase was greater than 1 percentage point in two states: Utah (+1.2 percentage points) and West Virginia (+1.1 percentage points).
- Sixteen states had a statistically significant decrease in the percentage of Medicaid beneficiaries treated for an OUD, although the decreases were all less than 1 percentage point. Maryland had the largest decrease in the percentage of Medicaid beneficiaries treated for an OUD (-0.4 percentage points).
- In 14 states, there was either no change or the change was not statistically significant.

**Table and Figure G.3. Change in the percentage of Medicaid beneficiaries treated for a SUD who received MAT<sup>109</sup>**

- Nationally, the percentage of beneficiaries treated for a SUD who received any MAT increased by 1.7 percentage points from 2019 to 2020, from 31.3 percent to 33.0 percent. This increase represents more than 35,000 additional beneficiaries treated for a SUD who received MAT in 2020 compared to 2019.
- Forty-three states had an increase in the percentage of beneficiaries treated for a SUD who received any MAT, and increases in 36 states were statistically significant.
- Statistically significant increases in the percentage of beneficiaries treated for a SUD who received MAT varied widely: from statistically significant increases of less than 1 percentage point in Florida and Kansas to more than 17 percentage points in North Dakota.

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<sup>108</sup> This analysis was adapted from a revised Table A.1, “Number and percentage of Medicaid beneficiaries treated for a SUD in 2019, by disorder,” and Table A.1, “Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by disorder,” in the 2020 SUD Data Book.

<sup>109</sup> This analysis was adapted from a revised Table C.1, “Number and percentage of Medicaid beneficiaries treated for a SUD in 2019, by service type,” and Table C.1, “Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by service type,” in the 2020 SUD Data Book.

- Nine states had a decrease in the percentage of beneficiaries treated for a SUD who received MAT, and the decreases were statistically significant in five states or territories. California, Maine, and the Virgin Islands had the largest decreases (approximately 6 percentage points in each). In 11 states, there was either no change or the change was not statistically significant.

**Table and Figure G.4. Change in the percentage of Medicaid beneficiaries treated for a SUD who received emergency services<sup>110</sup>**

- Nationally, the percentage of Medicaid beneficiaries treated for a SUD who received emergency services decreased by 2.6 percentage points from 2019 to 2020, from 44.6 percent to 42.0 percent. This decline represents nearly 178,000 fewer beneficiaries treated for a SUD who received emergency services in 2020 compared to 2019.
- Nearly all states experienced a decrease in the percentage of Medicaid beneficiaries treated for a SUD who received emergency services. The decreases in 36 states were statistically significant. The percentage of beneficiaries treated for a SUD who received emergency services declined by more than 5 percentage points in four states: New York (–8.3 percentage points), Texas (–7.7 percentage points), Connecticut, and Kentucky (–5.1 percentage points in each).
- Six states and territories (California, Maine, Rhode Island, Utah, the Virgin Islands, and West Virginia) experienced a statistically significant increase in the percentage of Medicaid beneficiaries treated for a SUD who received emergency services.
- In 10 states, there was either no change or the change was not statistically significant.

**Table and Figure G.5. Change in the percentage of Medicaid beneficiaries treated for a SUD who received treatment in an inpatient setting<sup>111</sup>**

- Nationally, the percentage of Medicaid beneficiaries treated for a SUD who received services in an inpatient setting increased slightly between 2019 and 2020, from 39.9 percent to 40.4 percent. Due to changes in the overall number of Medicaid beneficiaries with a SUD, this change represents about 31,000 fewer beneficiaries treated for a SUD who received services in an inpatient setting in 2020 compared to 2019. In the majority of states, the difference between 2019 and 2020 was less than 3 percentage points.
- Half of states experienced an increase in the percentage of beneficiaries who received treatment in an inpatient setting, with 24 states experiencing a statistically significant increase. The states and territories with the largest percentage point increases were the Virgin

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<sup>110</sup> This analysis was adapted from a revised Table C.1, “Number and percentage of Medicaid beneficiaries treated for a SUD in 2019, by service type,” and Table C.1, “Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by service type,” in the 2020 SUD Data Book.

<sup>111</sup> This analysis was adapted from a revised Table C.2, “Number and percentage of Medicaid beneficiaries treated for a SUD in 2019, by service setting,” and Table C.2, “Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by service setting,” in the 2020 SUD Data Book.

Islands (+14.7 percentage points), Maine (+13.5 percentage points), and Nebraska (+11.6 percentage points).

- Thirteen states and territories experienced a statistically significant decrease in the percentage of beneficiaries who received treatment in an inpatient setting. For all 13 states with a statistically significant decrease, the difference in the percentage of beneficiaries who received treatment in an inpatient setting between 2019 and 2020 was less than 4 percentage points.
- In 15 states, there was either no change or the change was not statistically significant.
- In four states and territories, an increase in the total number of Medicaid beneficiaries treated for a SUD resulted in an increase in the number who received treatment in an inpatient setting, but a decrease in the percentage receiving this type of care (Alabama, Indiana, Puerto Rico, and Virginia). For example, in Virginia, 6,751 additional Medicaid beneficiaries received SUD treatment in an inpatient setting, whereas the percentage of Medicaid beneficiaries with a SUD who received treatment in an inpatient setting declined by about 1.5 percentage points.

**Table and Figure G.6. Change in the percentage of Medicaid beneficiaries treated for a SUD who received treatment in a residential setting<sup>112</sup>**

- Nationally, the percentage of Medicaid beneficiaries treated for a SUD receiving treatment in a residential setting increased by 0.3 percentage points from 2019 to 2020, from 5.2 percent to 5.5 percent. This increase represents an additional 5,000 beneficiaries treated for a SUD who received treatment in a residential setting in 2020 compared to 2019.
- Twenty-one states experienced a statistically significant increase in the percentage of beneficiaries who received treatment for a SUD in a residential setting. Utah had a statistically significant increase of 6.0 percentage points between 2019 and 2020, followed by New Hampshire (+3.9 percentage points) and West Virginia (+3.2 percentage points).
- Fifteen states experienced a statistically significant decrease in residential treatment. The largest decreases were for Massachusetts (-2.2 percentage points) and Alaska (-2.0 percentage points).
- In 14 states, there was either no change or the change was not statistically significant.

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<sup>112</sup> This analysis was adapted from a revised Table C.2, “Number and percentage of Medicaid beneficiaries treated for a SUD in 2019, by service setting,” and Table C. 2, “Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by service setting,” in the 2020 SUD Data Book.

**Table and Figure G.7. Change in the percentage of Medicaid beneficiaries treated for a SUD who received treatment in an outpatient setting<sup>113</sup>**

- Nationally, the percentage of Medicaid beneficiaries treated for a SUD in an outpatient setting decreased by 0.7 percentage points from 2019 to 2020, from 78.6 percent to 77.9 percent. This decrease represents almost 140,000 fewer beneficiaries treated for a SUD in an outpatient setting in 2020 compared to 2019.
- Nine states and territories experienced a statistically significant increase in the percentage of beneficiaries who received treatment in an outpatient setting. The increase was greater than 3 percentage points between 2019 and 2020 in Idaho (+4.9 percentage points), West Virginia (+4.8 percentage points), Utah (+3.9 percentage points), Puerto Rico (+3.7 percentage points), and New Jersey (+3.6 percentage points).
- In a majority of states, the percentage of beneficiaries who received treatment in an outpatient setting decreased. This decrease was statistically significant in 31 states. States and territories with a statistically significant decrease greater than 5 percentage points between 2019 and 2020 were the Virgin Islands (–15.2 percentage points), Nebraska (–8.5 percentage points), Maine and Mississippi (–5.7 percentage points in each).
- In 12 states, there was either no change or the change was not statistically significant.

**Table and Figure G.8. Change in the percentage of Medicaid beneficiaries treated for a SUD who received an inpatient or a residential treatment and received an outpatient or a community-based follow-up within 30 days of discharge<sup>114</sup>**

- Nationally, the percentage of Medicaid beneficiaries treated for a SUD who received inpatient or residential treatment and an outpatient or community-based follow-up within 30 days of discharge increased by 0.4 percentage points from 2019 to 2020, from 28.3 percent to 28.7 percent. Due to changes in the overall number of Medicaid beneficiaries with a SUD, this percentage point change actually represents about 2,500 fewer beneficiaries treated for a SUD who received an inpatient or residential treatment and an outpatient or community-based follow-up within 30 days of discharge in 2020 compared to 2019.
- Sixteen states experienced a statistically significant increase in the percentage of beneficiaries treated for a SUD who received follow-up care after discharge. In 3 states the percentage of beneficiaries treated for a SUD who received follow-up care increased by more than 5 percentage points from 2019 to 2020: West Virginia (+8.8 percentage points), New Hampshire (+7.1 percentage points), and Idaho (+5.8 percentage points).

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<sup>113</sup> This analysis was adapted from a revised Table C.2, “Number and percentage of Medicaid beneficiaries treated for a SUD in 2019, by service setting,” and Table C.2, “Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by service setting,” in the 2020 SUD Data Book.

<sup>114</sup> This analysis was adapted from a revised Table F.1, “Progression of care for Medicaid beneficiaries treated for a SUD who received services in an inpatient or a residential setting in 2019,” and Table F.1, “Progression of care for Medicaid beneficiaries treated for a SUD who received services in an inpatient or a residential setting in 2020,” in the 2020 SUD Data Book.



- Seventeen states experienced a statistically significant decrease in the percentage of beneficiaries treated for a SUD who received follow-up care after inpatient or residential treatment. Three of these states had decreases of greater than 3 percentage points: Maine (−6.9 percentage points), Rhode Island (−5.9 percentage points), and Vermont (−4.2 percentage points).
- In 19 states, the percentage of beneficiaries treated for a SUD who received follow-up care after inpatient or residential treatment either did not change or the change was not statistically significant.

**Table G.1. Change in the percentage of Medicaid beneficiaries treated for a SUD, 2019 to 2020**

| State                 | Total number of Medicaid beneficiaries |                   | Number of Medicaid beneficiaries treated for any SUD |                  | Percentage of Medicaid beneficiaries treated for any SUD |            | Difference in number of Medicaid beneficiaries treated for any SUD, 2020–2019 | Difference in percentage, 2020–2019 (percentage points) | 95% confidence interval | Adjusted <i>p</i> -value <sup>#</sup> |
|-----------------------|--|-------------------|--|------------------|--|------------|---|---|-------------------------|---------------------------------------|
|                       | 2019                                   | 2020              | 2019   | 2020             | 2019   | 2020       |   |   |                         |                                       |
| <b>United States</b>  | <b>54,711,677</b>                      | <b>55,966,131</b> | <b>4,695,555</b>                                     | <b>4,560,513</b> | <b>8.6</b>   | <b>8.1</b> | <b>-135,042</b>   | <b>-0.43</b>  | <b>(-0.44, -0.42)</b>   | <b>&lt;0.001</b>                      |
| Alabama               | 465,639                                | 477,178           | 40,648   | 47,599           | 8.7  | 10.0       | 6,951   | 1.25  | (1.13, 1.36)            | <0.001                                |
| Alaska*               | 178,405                                | 186,109           | 20,077   | 18,566           | 11.3   | 10.0       | -1,511  | -1.28   | (-1.48, -1.08)          | <0.001                                |
| Arizona*              | 1,482,702                              | 1,475,790         | 149,974  | 152,920          | 10.1   | 10.4       | 2,946   | 0.25  | (0.18, 0.32)            | <0.001                                |
| Arkansas*             | 670,950                                | 670,555           | 36,346   | 33,268           | 5.4  | 5.0        | -3,078  | -0.46   | (-0.53, -0.38)          | <0.001                                |
| California*           | 9,686,822                              | 9,663,915         | 473,927  | 423,543          | 4.9  | 4.4        | -50,384   | -0.51   | (-0.53, -0.49)          | <0.001                                |
| Colorado*             | 1,063,969                              | 1,084,839         | 86,011   | 88,453           | 8.1  | 8.2        | 2,442   | 0.07  | (-0.00, 0.14)           | 0.068                                 |
| Connecticut*          | 728,689                                | 750,119           | 89,899   | 82,251           | 12.3   | 11.0       | -7,648  | -1.37   | (-1.48, -1.27)          | <0.001                                |
| Delaware*             | 181,529                                | 180,501           | 21,989   | 21,115           | 12.1   | 11.7       | -874  | -0.42   | (-0.63, -0.20)          | <0.001                                |
| District of Columbia* | 195,704                                | 200,599           | 13,074   | 12,430           | 6.7  | 6.2        | -644  | -0.48   | (-0.64, -0.33)          | <0.001                                |
| Florida               | 2,413,428                              | 2,521,141         | 130,705  | 131,723          | 5.4  | 5.2        | 1,018   | -0.19   | (-0.23, -0.15)          | <0.001                                |
| Georgia               | 1,103,052                              | 1,116,235         | 68,951   | 64,291           | 6.3  | 5.8        | -4,660  | -0.49   | (-0.55, -0.43)          | <0.001                                |
| Hawaii*               | 282,423                                | 298,360           | 18,256   | 15,795           | 6.5  | 5.3        | -2,461  | -1.17   | (-1.29, -1.05)          | <0.001                                |
| Idaho*                | 152,191                                | 246,888           | 14,153   | 26,269           | 9.3  | 10.6       | 12,116  | 1.34  | (1.15, 1.53)            | <0.001                                |
| Illinois*             | 2,252,736                              | 2,302,746         | 172,275  | 168,025          | 7.6  | 7.3        | -4,250  | -0.35   | (-0.40, -0.30)          | <0.001                                |
| Indiana*              | 1,096,126                              | 1,153,729         | 100,490  | 108,280          | 9.2  | 9.4        | 7,790   | 0.22  | (0.14, 0.29)            | <0.001                                |
| Iowa*                 | 509,894                                | 518,468           | 56,960   | 52,380           | 11.2   | 10.1       | -4,580  | -1.07   | (-1.19, -0.95)          | <0.001                                |
| Kansas                | 232,393                                | 227,732           | 22,288   | 21,008           | 9.6  | 9.2        | -1,280  | -0.37   | (-0.53, -0.20)          | <0.001                                |
| Kentucky*             | 1,104,410                              | 1,244,580         | 153,345  | 155,342          | 13.9   | 12.5       | 1,997   | -1.40   | (-1.49, -1.32)          | <0.001                                |
| Louisiana*            | 1,162,031                              | 1,203,280         | 112,218  | 112,636          | 9.7  | 9.4        | 418   | -0.30   | (-0.37, -0.22)          | <0.001                                |
| Maine*                | 197,115                                | 243,750           | 25,785   | 33,988           | 13.1   | 13.9       | 8,203   | 0.86  | (0.66, 1.07)            | <0.001                                |
| Maryland*             | 983,562                                | 1,019,693         | 116,420  | 111,371          | 11.8   | 10.9       | -5,049  | -0.91   | (-1.00, -0.83)          | <0.001                                |
| Massachusetts*        | 1,346,535                              | 1,343,550         | 173,987  | 161,018          | 12.9   | 12.0       | -12,969   | -0.94   | (-1.02, -0.86)          | <0.001                                |
| Michigan*             | 2,041,368                              | 2,144,205         | 200,161  | 184,390          | 9.8  | 8.6        | -15,771   | -1.21   | (-1.26, -1.15)          | <0.001                                |
| Minnesota*            | 883,301                                | 870,206           | 103,545  | 96,796           | 11.7   | 11.1       | -6,749  | -0.60   | (-0.69, -0.51)          | <0.001                                |
| Mississippi           | 289,334                                | 376,004           | 18,687   | 25,712           | 6.5  | 6.8        | 7,025   | 0.38  | (0.26, 0.50)            | <0.001                                |
| Missouri              | 673,909                                | 640,704           | 66,363   | 62,980           | 9.8  | 9.8        | -3,383  | -0.02   | (-0.12, 0.08)           | 0.746                                 |
| Montana*              | 215,284                                | 204,723           | 27,329   | 25,771           | 12.7   | 12.6       | -1,558  | -0.11   | (-0.31, 0.09)           | 0.318                                 |
| Nebraska              | 155,889                                | 188,521           | 8,992  | 13,221           | 5.8  | 7.0        | 4,229   | 1.24  | (1.08, 1.41)            | <0.001                                |
| Nevada*               | 535,470                                | 554,846           | 50,011   | 49,372           | 9.3  | 8.9        | -639  | -0.44   | (-0.55, -0.33)          | <0.001                                |
| New Hampshire*        | 157,267                                | 159,972           | 18,243   | 20,144           | 11.6   | 12.6       | 1,901   | 0.99  | (0.77, 1.22)            | <0.001                                |

Table G.1 (continued)

| State          | Total number of Medicaid beneficiaries |           | Number of Medicaid beneficiaries treated for any SUD |         | Percentage of Medicaid beneficiaries treated for any SUD |      | Difference in number of Medicaid beneficiaries treated for any SUD, 2020–2019 | Difference in percentage, 2020–2019 (percentage points) | 95% confidence interval | Adjusted $p$ -value <sup>#</sup> |
|----------------|--|-----------|--|---------|--|------|---|---|-------------------------|----------------------------------|
|                | 2019                                   | 2020      | 2019   | 2020    | 2019   | 2020 |   |   |                         |                                  |
| New Jersey*    | 1,276,088                              | 1,273,197 | 93,100   | 99,031  | 7.3  | 7.8  | 5,931   | 0.48  | (0.42, 0.55)            | <0.001                           |
| New Mexico*    | 561,836                                | 600,496   | 64,356   | 65,171  | 11.5   | 10.9 | 815   | -0.60   | (-0.72, -0.49)          | <0.001                           |
| New York*      | 4,954,034                              | 4,991,831 | 420,247  | 377,100 | 8.5  | 7.6  | -43,147   | -0.93   | (-0.96, -0.89)          | <0.001                           |
| North Carolina | 1,037,947                              | 1,097,581 | 109,129  | 105,873 | 10.5   | 9.6  | -3,256  | -0.87   | (-0.95, -0.79)          | <0.001                           |
| North Dakota*  | 77,118                                 | 78,841    | 7,427  | 9,240   | 9.6  | 11.7 | 1,813   | 2.09  | (1.78, 2.40)            | <0.001                           |
| Ohio*          | 2,167,402                              | 2,182,908 | 374,342  | 354,713 | 17.3   | 16.2 | -19,629   | -1.02   | (-1.09, -0.95)          | <0.001                           |
| Oklahoma       | 453,719                                | 486,831   | 43,181   | 39,590  | 9.5  | 8.1  | -3,591  | -1.38   | (-1.50, -1.27)          | <0.001                           |
| Oregon*        | 796,701                                | 855,040   | 99,539   | 98,373  | 12.5   | 11.5 | -1,166  | -0.99   | (-1.09, -0.89)          | <0.001                           |
| Pennsylvania*  | 2,280,755                              | 2,311,819 | 283,800  | 268,946 | 12.4   | 11.6 | -14,854   | -0.81   | (-0.87, -0.75)          | <0.001                           |
| Puerto Rico*   | 1,225,738                              | 1,235,769 | 11,394   | 12,499  | 0.9  | 1.0  | 1,105   | 0.08  | (0.06, 0.11)            | <0.001                           |
| Rhode Island*  | 232,352                                | 241,697   | 20,872   | 21,371  | 9.0  | 8.8  | 499   | -0.14   | (-0.30, 0.02)           | 0.096                            |
| South Carolina | 667,861                                | 678,920   | 43,485   | 42,224  | 6.5  | 6.2  | -1,261  | -0.29   | (-0.37, -0.21)          | <0.001                           |
| South Dakota   | 66,960                                 | 66,215    | 5,531  | 5,394   | 8.3  | 8.1  | -137  | -0.11   | (-0.41, 0.18)           | 0.466                            |
| Tennessee      | DQ                                     | DQ        | DQ   | DQ      | DQ   | DQ   | DQ  | DQ  | DQ                      | DQ                               |
| Texas          | 2,442,975                              | 2,285,299 | 113,523  | 100,163 | 4.6  | 4.4  | -13,360   | -0.26   | (-0.30, -0.23)          | <0.001                           |
| Utah*          | 224,947                                | 256,550   | 22,242   | 29,545  | 9.9  | 11.5 | 7,303   | 1.63  | (1.45, 1.80)            | <0.001                           |
| Vermont*       | 133,931                                | 135,064   | 19,857   | 18,710  | 14.8   | 13.9 | -1,147  | -0.97   | (-1.24, -0.71)          | <0.001                           |
| Virginia*      | 1,009,203                              | 1,109,619 | 86,971   | 105,802 | 8.6  | 9.5  | 18,831  | 0.92  | (0.84, 0.99)            | <0.001                           |
| Virgin Islands | 19,590                                 | 22,229    | 317  | 284     | 1.6  | 1.3  | -33   | -0.34   | (-0.57, -0.11)          | 0.004                            |
| Washington*    | 1,327,811                              | 1,438,197 | 144,513  | 144,777 | 10.9   | 10.1 | 264   | -0.82   | (-0.89, -0.74)          | <0.001                           |
| West Virginia* | 454,892                                | 434,982   | 52,234   | 55,656  | 11.5   | 12.8 | 3,422   | 1.31  | (1.18, 1.45)            | <0.001                           |
| Wisconsin      | 813,406                                | 873,848   | 84,507   | 81,842  | 10.4   | 9.4  | -2,665  | -1.02   | (-1.11, -0.93)          | <0.001                           |
| Wyoming        | 44,284                                 | 40,260    | 3,879  | 3,552   | 8.8  | 8.8  | -327  | 0.06  | (-0.32, 0.45)           | 0.746                            |

Source: Analysis of the 2020 preliminary TAF release 1 and 2019 TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits. Source Table A.1: Number and percentage of Medicaid beneficiaries treated for a SUD, by disorder.

Note: The U.S. average is an overall average of the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims. Appendix B includes detailed information on how we identified SUD treatment.

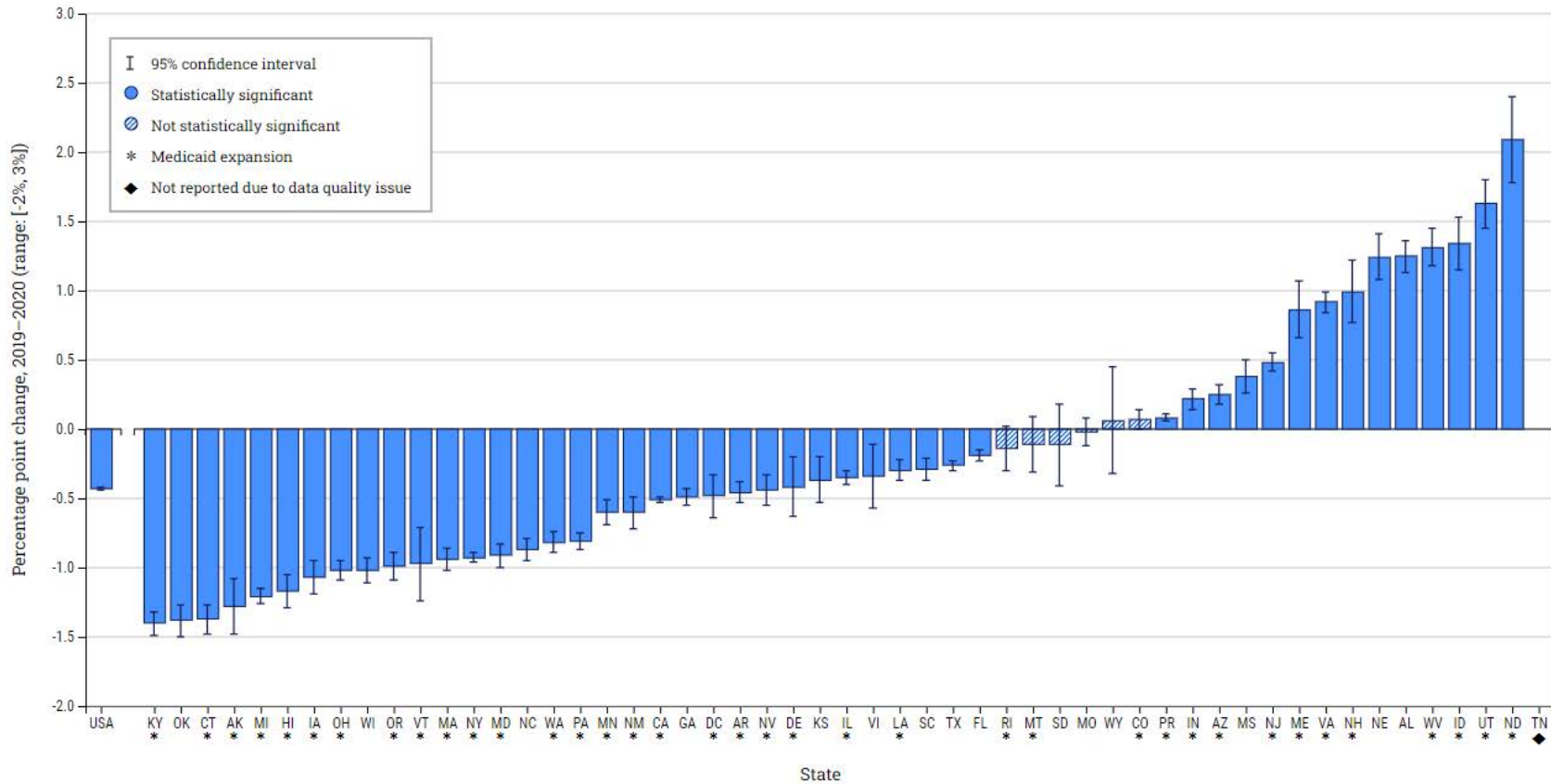
The 2019 results presented in this section differ slightly from the results published in the 2019 SUD Data Book due to slight changes in the methodology. To ensure results are comparable from year to year, the 2019 results were recalculated using the 2020 methodology. For more information, refer to Chapter IV: Methods.

\* States that implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

<sup>#</sup> Adjusted for multiple comparisons using the Benjamini-Hochberg correction.

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2019 and 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.

**Figure G.1. Change in the percentage of Medicaid beneficiaries treated for a SUD, 2019 to 2020**



Source: Analysis of the 2020 preliminary TAF release 1 and 2019 TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits. Source Table A.1: Number and percentage of Medicaid beneficiaries treated for a SUD, by disorder.

Note: The U.S. average is an overall average of the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims. Appendix B includes detailed information on how we identified SUD treatment.

The 2019 results presented in this section differ slightly from the results published in the 2019 SUD Data Book due to slight changes in the methodology. To ensure results are comparable from year to year, the 2019 results were recalculated using the 2020 methodology. For more information, refer to Chapter IV: Methods.

\* States that implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020. Idaho and Utah expanded Medicaid between January 1, 2019, and January 1, 2020.

Figure G.1 (*continued*)

◆ Tennessee was excluded from the 2020 report because the state had a very low number of Medicaid claims from all four claims files that linked to the enrollment file in 2019 and 2020, making the state's data unusable.

**Table G.2. Change in the percentage of Medicaid beneficiaries treated for an OUD, 2019 to 2020**

| State                 | Total number of Medicaid beneficiaries |                   | Number of Medicaid beneficiaries treated for an OUD |                  | Percentage of Medicaid beneficiaries treated for an OUD |            | Difference in number of Medicaid beneficiaries treated for an OUD, 2020–2019 | Difference in percentage, 2020–2019 (percentage points) | 95% confidence interval | Adjusted p-value <sup>#</sup> |
|-----------------------|--|-------------------|---|------------------|---|------------|--|---|-------------------------|-------------------------------|
|                       | 2019                                   | 2020              | 2019  | 2020             | 2019  | 2020       |  |   |                         |                               |
| <b>United States</b>  | <b>54,711,677</b>                      | <b>55,966,131</b> | <b>1,569,951</b>                                    | <b>1,614,639</b> | <b>2.9</b>  | <b>2.9</b> | <b>44,688</b>  | <b>0.02</b>   | <b>(0.01, 0.02)</b>     | <b>&lt;0.001</b>              |
| Alabama               | 465,639                                | 477,178           | 8,836   | 10,906           | 1.9   | 2.3        | 2,070  | 0.39  | (0.33, 0.45)            | <0.001                        |
| Alaska*               | 178,405                                | 186,109           | 6,891   | 7,064            | 3.9   | 3.8        | 173  | -0.07   | (-0.19, 0.06)           | 0.329                         |
| Arizona*              | 1,482,702                              | 1,475,790         | 52,887  | 59,161           | 3.6   | 4.0        | 6,274  | 0.44  | (0.40, 0.49)            | <0.001                        |
| Arkansas*             | 670,950                                | 670,555           | 4,602   | 5,312            | 0.7   | 0.8        | 710  | 0.11  | (0.08, 0.14)            | <0.001                        |
| California*           | 9,686,822                              | 9,663,915         | 153,271   | 121,887          | 1.6   | 1.3        | -31,384  | -0.32   | (-0.33, -0.31)          | <0.001                        |
| Colorado*             | 1,063,969                              | 1,084,839         | 27,527  | 31,049           | 2.6   | 2.9        | 3,522  | 0.27  | (0.23, 0.32)            | <0.001                        |
| Connecticut*          | 728,689                                | 750,119           | 40,033  | 39,099           | 5.5   | 5.2        | -934   | -0.28   | (-0.35, -0.21)          | <0.001                        |
| Delaware*             | 181,529                                | 180,501           | 12,558  | 12,337           | 6.9   | 6.8        | -221   | -0.08   | (-0.25, 0.08)           | 0.357                         |
| District of Columbia* | 195,704                                | 200,599           | 4,035   | 4,537            | 2.1   | 2.3        | 502  | 0.20  | (0.11, 0.29)            | <0.001                        |
| Florida               | 2,413,428                              | 2,521,141         | 33,581  | 35,444           | 1.4   | 1.4        | 1,863  | 0.01  | (-0.01, 0.04)           | 0.211                         |
| Georgia               | 1,103,052                              | 1,116,235         | 12,091  | 11,820           | 1.1   | 1.1        | -271   | -0.04   | (-0.06, -0.01)          | 0.010                         |
| Hawaii*               | 282,423                                | 298,360           | 3,753   | 3,282            | 1.3   | 1.1        | -471   | -0.23   | (-0.29, -0.17)          | <0.001                        |
| Idaho*                | 152,191                                | 246,888           | 3,985   | 7,826            | 2.6   | 3.2        | 3,841  | 0.55  | (0.45, 0.66)            | <0.001                        |
| Illinois*             | 2,252,736                              | 2,302,746         | 43,961  | 44,444           | 2.0   | 1.9        | 483  | -0.02   | (-0.05, 0.00)           | 0.126                         |
| Indiana*              | 1,096,126                              | 1,153,729         | 40,236  | 46,564           | 3.7   | 4.0        | 6,328  | 0.37  | (0.31, 0.42)            | <0.001                        |
| Iowa*                 | 509,894                                | 518,468           | 8,528   | 8,671            | 1.7   | 1.7        | 143  | 0.00  | (-0.05, 0.05)           | 0.998                         |
| Kansas                | 232,393                                | 227,732           | 2,927   | 2,686            | 1.3   | 1.2        | -241   | -0.08   | (-0.14, -0.02)          | 0.018                         |
| Kentucky*             | 1,104,410                              | 1,244,580         | 60,366  | 69,543           | 5.5   | 5.6        | 9,177  | 0.12  | (0.06, 0.18)            | <0.001                        |
| Louisiana*            | 1,162,031                              | 1,203,280         | 26,423  | 31,903           | 2.3   | 2.7        | 5,480  | 0.38  | (0.34, 0.42)            | <0.001                        |
| Maine*                | 197,115                                | 243,750           | 13,613  | 16,923           | 6.9   | 6.9        | 3,310  | 0.04  | (-0.11, 0.19)           | 0.646                         |
| Maryland*             | 983,562                                | 1,019,693         | 69,479  | 67,737           | 7.1   | 6.6        | -1,742   | -0.42   | (-0.49, -0.35)          | <0.001                        |
| Massachusetts*        | 1,346,535                              | 1,343,550         | 83,948  | 80,804           | 6.2   | 6.0        | -3,144   | -0.22   | (-0.28, -0.16)          | <0.001                        |
| Michigan*             | 2,041,368                              | 2,144,205         | 52,271  | 50,001           | 2.6   | 2.3        | -2,270   | -0.23   | (-0.26, -0.20)          | <0.001                        |
| Minnesota*            | 883,301                                | 870,206           | 27,801  | 28,654           | 3.1   | 3.3        | 853  | 0.15  | (0.09, 0.20)            | <0.001                        |
| Mississippi           | 289,334                                | 376,004           | 3,145   | 4,237            | 1.1   | 1.1        | 1,092  | 0.04  | (-0.01, 0.09)           | 0.155                         |
| Missouri              | 673,909                                | 640,704           | 15,519  | 15,597           | 2.3   | 2.4        | 78   | 0.13  | (0.08, 0.18)            | <0.001                        |
| Montana*              | 215,284                                | 204,723           | 7,371   | 7,558            | 3.4   | 3.7        | 187  | 0.27  | (0.16, 0.38)            | <0.001                        |
| Nebraska              | 155,889                                | 188,521           | 1,460   | 1,842            | 0.9   | 1.0        | 382  | 0.04  | (-0.02, 0.11)           | 0.259                         |
| Nevada*               | 535,470                                | 554,846           | 14,508  | 15,489           | 2.7   | 2.8        | 981  | 0.08  | (0.02, 0.14)            | 0.012                         |
| New Hampshire*        | 157,267                                | 159,972           | 10,783  | 11,986           | 6.9   | 7.5        | 1,203  | 0.64  | (0.46, 0.82)            | <0.001                        |

Table G.2 (continued)

| State          | Total number of Medicaid beneficiaries |           | Number of Medicaid beneficiaries treated for an OUD |         | Percentage of Medicaid beneficiaries treated for an OUD |      | Difference in number of Medicaid beneficiaries treated for an OUD, 2020–2019 | Difference in percentage, 2020–2019 (percentage points) | 95% confidence interval | Adjusted p-value# |
|----------------|--|-----------|---|---------|---|------|--|---|-------------------------|-------------------|
|                | 2019                                   | 2020      | 2019  | 2020    | 2019  | 2020 |  |   |                         |                   |
| New Jersey*    | 1,276,088                              | 1,273,197 | 33,741  | 45,322  | 2.6   | 3.6  | 11,581   | 0.92  | (0.87, 0.96)            | <0.001            |
| New Mexico*    | 561,836                                | 600,496   | 30,784  | 31,455  | 5.5   | 5.2  | 671  | -0.24   | (-0.32, -0.16)          | <0.001            |
| New York*      | 4,954,034                              | 4,991,831 | 130,779   | 126,757 | 2.6   | 2.5  | -4,022   | -0.10   | (-0.12, -0.08)          | <0.001            |
| North Carolina | 1,037,947                              | 1,097,581 | 26,786  | 30,114  | 2.6   | 2.7  | 3,328  | 0.16  | (0.12, 0.21)            | <0.001            |
| North Dakota*  | 77,118                                 | 78,841    | 1,327   | 2,149   | 1.7   | 2.7  | 822  | 1.00  | (0.86, 1.15)            | <0.001            |
| Ohio*          | 2,167,402                              | 2,182,908 | 119,917   | 118,446 | 5.5   | 5.4  | -1,471   | -0.11   | (-0.15, -0.06)          | <0.001            |
| Oklahoma       | 453,719                                | 486,831   | 10,406  | 9,952   | 2.3   | 2.0  | -454   | -0.25   | (-0.31, -0.19)          | <0.001            |
| Oregon*        | 796,701                                | 855,040   | 31,316  | 33,767  | 3.9   | 3.9  | 2,451  | 0.02  | (-0.04, 0.08)           | 0.574             |
| Pennsylvania*  | 2,280,755                              | 2,311,819 | 123,034   | 122,252 | 5.4   | 5.3  | -782   | -0.11   | (-0.15, -0.07)          | <0.001            |
| Puerto Rico*   | 1,225,738                              | 1,235,769 | 3,603   | 4,424   | 0.3   | 0.4  | 821  | 0.06  | (0.05, 0.08)            | <0.001            |
| Rhode Island*  | 232,352                                | 241,697   | 12,989  | 13,425  | 5.6   | 5.6  | 436  | -0.04   | (-0.17, 0.09)           | 0.614             |
| South Carolina | 667,861                                | 678,920   | 9,990   | 10,685  | 1.5   | 1.6  | 695  | 0.08  | (0.04, 0.12)            | <0.001            |
| South Dakota   | 66,960                                 | 66,215    | 661   | 687     | 1.0   | 1.0  | 26   | 0.05  | (-0.06, 0.16)           | 0.387             |
| Tennessee      | DQ                                     | DQ        | DQ  | DQ      | DQ  | DQ   | DQ   | DQ  | DQ                      | DQ                |
| Texas          | 2,442,975                              | 2,285,299 | 16,705  | 14,847  | 0.7   | 0.6  | -1,858   | -0.03   | (-0.05, -0.02)          | <0.001            |
| Utah*          | 224,947                                | 256,550   | 9,661   | 14,090  | 4.3   | 5.5  | 4,429  | 1.20  | (1.08, 1.32)            | <0.001            |
| Vermont*       | 133,931                                | 135,064   | 10,551  | 10,357  | 7.9   | 7.7  | -194   | -0.21   | (-0.41, -0.01)          | 0.056             |
| Virginia*      | 1,009,203                              | 1,109,619 | 34,607  | 46,846  | 3.4   | 4.2  | 12,239   | 0.79  | (0.74, 0.84)            | <0.001            |
| Virgin Islands | 19,590                                 | 22,229    | 18  | 13      | 0.1   | 0.1  | -5   | -0.03   | (-0.09, 0.02)           | 0.253             |
| Washington*    | 1,327,811                              | 1,438,197 | 60,864  | 64,410  | 4.6   | 4.5  | 3,546  | -0.11   | (-0.15, -0.06)          | <0.001            |
| West Virginia* | 454,892                                | 434,982   | 27,817  | 31,485  | 6.1   | 7.2  | 3,668  | 1.12  | (1.02, 1.23)            | <0.001            |
| Wisconsin      | 813,406                                | 873,848   | 27,389  | 28,192  | 3.4   | 3.2  | 803  | -0.14   | (-0.19, -0.09)          | <0.001            |
| Wyoming        | 44,284                                 | 40,260    | 617   | 601     | 1.4   | 1.5  | -16  | 0.10  | (-0.06, 0.26)           | 0.259             |

Source: Analysis of the 2020 preliminary TAF release 1 and 2019 TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits. Source Table A.1: Number and percentage of Medicaid beneficiaries treated for a SUD, by disorder.

Note: The U.S. average is an overall average of the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims. Appendix B includes detailed information on how we identified SUD treatment.

The 2019 results presented in this section differ slightly from the results published in the 2019 SUD Data Book due to slight changes in the methodology. To ensure results are comparable from year to year, the 2019 results were recalculated using the 2020 methodology. For more information, refer to Chapter IV: Methods.

\* States that implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

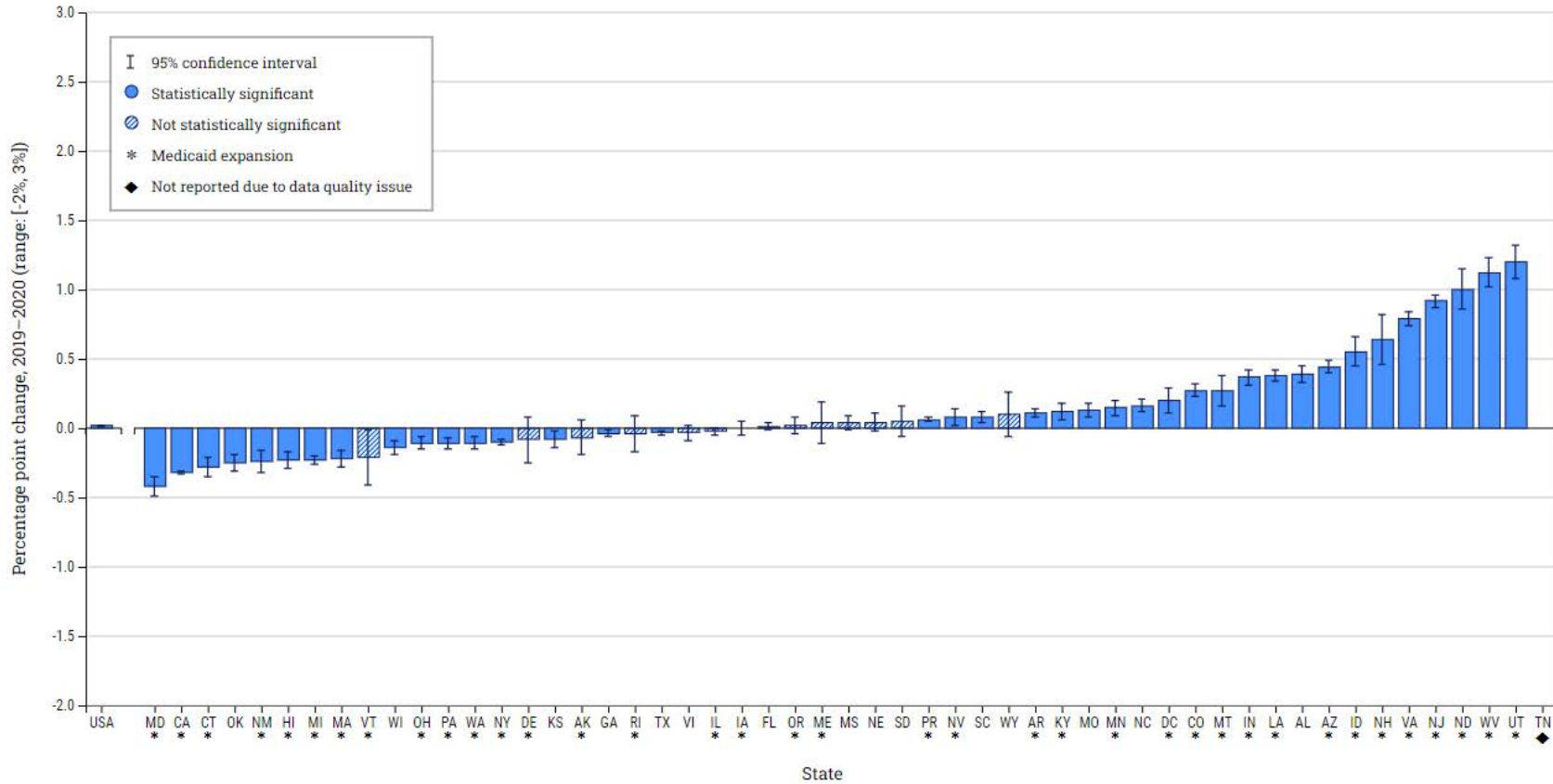
# Adjusted for multiple comparisons using the Benjamini-Hochberg correction.

Table G.2 (*continued*)

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2019 and 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.



**Figure G.2. Change in the percentage of Medicaid beneficiaries treated for an OUD, 2019 to 2020**



Source: Analysis of the 2020 preliminary TAF release 1 and 2019 TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits. Source Table A.1: Number and percentage of Medicaid beneficiaries treated for a SUD, by disorder.

Note: The U.S. average is an overall average of the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims. A polysubstance use disorder involves a diagnosis in which there are two or more SUDs or a polysubstance diagnosis code. Appendix B includes detailed information on how we identified SUD treatment.

The 2019 results presented in this section differ slightly from the results published in the 2019 SUD Data Book due to slight changes in the methodology. To ensure results are comparable from year to year, the 2019 results were recalculated using the 2020 methodology. For more information, refer to Chapter IV: Methods.

\* States that implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020. Idaho and Utah expanded Medicaid between January 1, 2019, and January 1, 2020.

◆ Tennessee was excluded from the 2020 report because the state had a very low number of Medicaid claims from all four claims files that linked to the enrollment file in 2019 and 2020, making the state's data unusable.

**Table G.3. Change in the percentage of Medicaid beneficiaries treated for a SUD who received MAT, 2019 to 2020**

| State                 | Total number of Medicaid beneficiaries with a SUD |                  | Number of Medicaid beneficiaries treated for SUD who received MAT |                  | Percentage of Medicaid beneficiaries treated for SUD who received MAT |             | Difference in the number of Medicaid beneficiaries treated for SUD with MAT, 2020–2019 | Difference in percentage, 2020–2019 (percentage points) | 95% confidence interval | Adjusted <i>p</i> -value <sup>#</sup> |
|-----------------------|---|------------------|---|------------------|---|-------------|--|---|-------------------------|---------------------------------------|
|                       | 2019  | 2020             | 2019  | 2020             | 2019  | 2020        |  |   |                         |                                       |
| <b>United States</b>  | <b>4,695,555</b>                                  | <b>4,560,513</b> | <b>1,471,305</b>  | <b>1,506,575</b> | <b>31.3</b>   | <b>33.0</b> | <b>35,270</b>  | <b>1.70</b>   | <b>(1.65, 1.75)</b>     | <b>&lt;0.001</b>                      |
| Alabama               | 40,648  | 47,599           | 6,314   | 8,727            | 15.5  | 18.3        | 2,413  | 2.80  | (2.31, 3.30)            | <0.001                                |
| Alaska*               | 20,077  | 18,566           | 6,557   | 6,818            | 32.7  | 36.7        | 261  | 4.06  | (3.11, 5.01)            | <0.001                                |
| Arizona*              | 149,974   | 152,920          | 45,995  | 50,407           | 30.7  | 33.0        | 4,412  | 2.29  | (1.96, 2.63)            | <0.001                                |
| Arkansas*             | 36,346  | 33,268           | 5,192   | 5,942            | 14.3  | 17.9        | 750  | 3.58  | (3.03, 4.12)            | <0.001                                |
| California*           | 473,927   | 423,543          | 150,265   | 109,453          | 31.7  | 25.8        | -40,812  | -5.86   | (-6.05, -5.68)          | <0.001                                |
| Colorado*             | 86,011  | 88,453           | 27,500  | 31,217           | 32.0  | 35.3        | 3,717  | 3.32  | (2.88, 3.76)            | <0.001                                |
| Connecticut*          | 89,899  | 82,251           | 41,438  | 39,802           | 46.1  | 48.4        | -1,636   | 2.30  | (1.82, 2.77)            | <0.001                                |
| Delaware*             | 21,989  | 21,115           | 11,126  | 11,476           | 50.6  | 54.3        | 350  | 3.75  | (2.81, 4.69)            | <0.001                                |
| District of Columbia* | 13,074  | 12,430           | 3,986   | 4,357            | 30.5  | 35.1        | 371  | 4.56  | (3.41, 5.72)            | <0.001                                |
| Florida               | 130,705   | 131,723          | 30,505  | 31,220           | 23.3  | 23.7        | 715  | 0.36  | (0.04, 0.69)            | 0.036                                 |
| Georgia               | 68,951  | 64,291           | 10,808  | 10,231           | 15.7  | 15.9        | -577   | 0.24  | (-0.15, 0.63)           | 0.251                                 |
| Hawaii*               | 18,256  | 15,795           | 3,231   | 2,921            | 17.7  | 18.5        | -310   | 0.79  | (-0.03, 1.62)           | 0.070                                 |
| Idaho*                | 14,153  | 26,269           | 3,011   | 7,672            | 21.3  | 29.2        | 4,661  | 7.93  | (7.06, 8.80)            | <0.001                                |
| Illinois*             | 172,275   | 168,025          | 29,965  | 33,133           | 17.4  | 19.7        | 3,168  | 2.33  | (2.06, 2.59)            | <0.001                                |
| Indiana*              | 100,490   | 108,280          | 43,469  | 49,385           | 43.3  | 45.6        | 5,916  | 2.35  | (1.93, 2.78)            | <0.001                                |
| Iowa*                 | 56,960  | 52,380           | 11,124  | 11,677           | 19.5  | 22.3        | 553  | 2.76  | (2.28, 3.25)            | <0.001                                |
| Kansas                | 22,288  | 21,008           | 3,348   | 3,359            | 15.0  | 16.0        | 11   | 0.97  | (0.29, 1.65)            | 0.007                                 |
| Kentucky*             | 153,345   | 155,342          | 60,851  | 68,025           | 39.7  | 43.8        | 7,174  | 4.11  | (3.76, 4.46)            | <0.001                                |
| Louisiana*            | 112,218   | 112,636          | 24,841  | 30,627           | 22.1  | 27.2        | 5,786  | 5.05  | (4.70, 5.41)            | <0.001                                |
| Maine*                | 25,785  | 33,988           | 13,752  | 16,093           | 53.3  | 47.3        | 2,341  | -5.98   | (-6.79, -5.18)          | <0.001                                |
| Maryland*             | 116,420   | 111,371          | 67,318  | 64,186           | 57.8  | 57.6        | -3,132   | -0.19   | (-0.60, 0.22)           | 0.371                                 |
| Massachusetts*        | 173,987   | 161,018          | 79,766  | 77,071           | 45.8  | 47.9        | -2,695   | 2.02  | (1.68, 2.36)            | <0.001                                |
| Michigan*             | 200,161   | 184,390          | 53,862  | 49,186           | 26.9  | 26.7        | -4,676   | -0.23   | (-0.51, 0.05)           | 0.119                                 |
| Minnesota*            | 103,545   | 96,796           | 29,110  | 29,464           | 28.1  | 30.4        | 354  | 2.33  | (1.93, 2.72)            | <0.001                                |
| Mississippi           | 18,687  | 25,712           | 3,239   | 3,828            | 17.3  | 14.9        | 589  | -2.44   | (-3.14, -1.75)          | <0.001                                |
| Missouri              | 66,363  | 62,980           | 16,151  | 16,551           | 24.3  | 26.3        | 400  | 1.94  | (1.47, 2.42)            | <0.001                                |
| Montana*              | 27,329  | 25,771           | 8,306   | 8,181            | 30.4  | 31.7        | -125   | 1.35  | (0.56, 2.14)            | 0.001                                 |
| Nebraska              | 8,992   | 13,221           | 1,488   | 1,742            | 16.5  | 13.2        | 254  | -3.37   | (-4.33, -2.41)          | <0.001                                |
| Nevada*               | 50,011  | 49,372           | 11,584  | 12,866           | 23.2  | 26.1        | 1,282  | 2.90  | (2.36, 3.43)            | <0.001                                |
| New Hampshire*        | 18,243  | 20,144           | 10,580  | 11,509           | 58.0  | 57.1        | 929  | -0.86   | (-1.85, 0.13)           | 0.106                                 |

Table G.3 (continued)

| State          | Total number of Medicaid beneficiaries with a SUD |         | Number of Medicaid beneficiaries treated for SUD who received MAT |         | Percentage of Medicaid beneficiaries treated for SUD who received MAT |      | Difference in the number of Medicaid beneficiaries treated for SUD with MAT, 2020–2019 | Difference in percentage, 2020–2019 (percentage points) | 95% confidence interval | Adjusted <i>p</i> -value <sup>#</sup> |
|----------------|---|---------|---|---------|---|------|--|---|-------------------------|---------------------------------------|
|                | 2019  | 2020    | 2019  | 2020    | 2019  | 2020 |  |   |                         |                                       |
| New Jersey*    | 93,100  | 99,031  | 31,013  | 42,373  | 33.3  | 42.8 | 11,360   | 9.48  | (9.04, 9.91)            | <0.001                                |
| New Mexico*    | 64,356  | 65,171  | 30,144  | 30,609  | 46.8  | 47.0 | 465  | 0.13  | (-0.42, 0.67)           | 0.645                                 |
| New York*      | 420,247   | 377,100 | 102,733   | 96,906  | 24.4  | 25.7 | -5,827   | 1.25  | (1.06, 1.44)            | <0.001                                |
| North Carolina | 109,129   | 105,873 | 16,673  | 22,587  | 15.3  | 21.3 | 5,914  | 6.06  | (5.73, 6.38)            | <0.001                                |
| North Dakota*  | 7,427   | 9,240   | 508   | 2,225   | 6.8   | 24.1 | 1,717  | 17.24   | (16.20, 18.28)          | <0.001                                |
| Ohio*          | 374,342   | 354,713 | 114,381   | 115,438 | 30.6  | 32.5 | 1,057  | 1.99  | (1.78, 2.20)            | <0.001                                |
| Oklahoma       | 43,181  | 39,590  | 8,075   | 7,849   | 18.7  | 19.8 | -226   | 1.13  | (0.59, 1.66)            | <0.001                                |
| Oregon*        | 99,539  | 98,373  | 35,065  | 37,193  | 35.2  | 37.8 | 2,128  | 2.58  | (2.16, 3.00)            | <0.001                                |
| Pennsylvania*  | 283,800   | 268,946 | 107,076   | 110,095 | 37.7  | 40.9 | 3,019  | 3.21  | (2.95, 3.46)            | <0.001                                |
| Puerto Rico*   | 11,394  | 12,499  | 2,437   | 2,760   | 21.4  | 22.1 | 323  | 0.69  | (-0.35, 1.74)           | 0.214                                 |
| Rhode Island*  | 20,872  | 21,371  | 13,190  | 13,435  | 63.2  | 62.9 | 245  | -0.33   | (-1.25, 0.59)           | 0.493                                 |
| South Carolina | 43,485  | 42,224  | 10,756  | 11,308  | 24.7  | 26.8 | 552  | 2.05  | (1.46, 2.63)            | <0.001                                |
| South Dakota   | 5,531   | 5,394   | 712   | 727     | 12.9  | 13.5 | 15   | 0.61  | (-0.66, 1.87)           | 0.370                                 |
| Tennessee      | DQ  | DQ      | DQ  | DQ      | DQ  | DQ   | DQ   | DQ  | DQ                      | DQ                                    |
| Texas          | 113,523   | 100,163 | 17,330  | 15,758  | 15.3  | 15.7 | -1,572   | 0.47  | (0.16, 0.77)            | 0.004                                 |
| Utah*          | 22,242  | 29,545  | 6,527   | 10,041  | 29.3  | 34.0 | 3,514  | 4.64  | (3.83, 5.45)            | <0.001                                |
| Vermont*       | 19,857  | 18,710  | 10,392  | 9,938   | 52.3  | 53.1 | -454   | 0.78  | (-0.22, 1.78)           | 0.143                                 |
| Virginia*      | 86,971  | 105,802 | 32,804  | 47,030  | 37.7  | 44.5 | 14,226   | 6.73  | (6.29, 7.17)            | <0.001                                |
| Virgin Islands | 317   | 284     | 39  | 18      | 12.3  | 6.3  | -21  | -5.96   | (-10.56, -1.37)         | 0.016                                 |
| Washington*    | 144,513   | 144,777 | 60,406  | 63,622  | 41.8  | 43.9 | 3,216  | 2.15  | (1.78, 2.51)            | <0.001                                |
| West Virginia* | 52,234  | 55,656  | 25,275  | 27,950  | 48.4  | 50.2 | 2,675  | 1.83  | (1.23, 2.43)            | <0.001                                |
| Wisconsin      | 84,507  | 81,842  | 30,482  | 30,992  | 36.1  | 37.9 | 510  | 1.80  | (1.33, 2.26)            | <0.001                                |
| Wyoming        | 3,879   | 3,552   | 605   | 595     | 15.6  | 16.8 | -10  | 1.15  | (-0.52, 2.83)           | 0.199                                 |

Source: Analysis of the 2020 preliminary TAF release 1 and 2019 TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits. Source Table C.1: Number and percentage of Medicaid beneficiaries treated for a SUD, by service type.

Note: The U.S. average is an overall average of the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims. Appendix B includes detailed information on how we identified SUD treatment.

We determined service types on the basis of National Drug Codes, procedure codes, and revenue codes.

The 2019 results presented in this section differ slightly from the results published in the 2019 SUD Data Book due to slight changes in the methodology. To ensure results are comparable from year to year, the 2019 results were recalculated using the 2020 methodology. For more information, refer to Chapter IV: Methods.

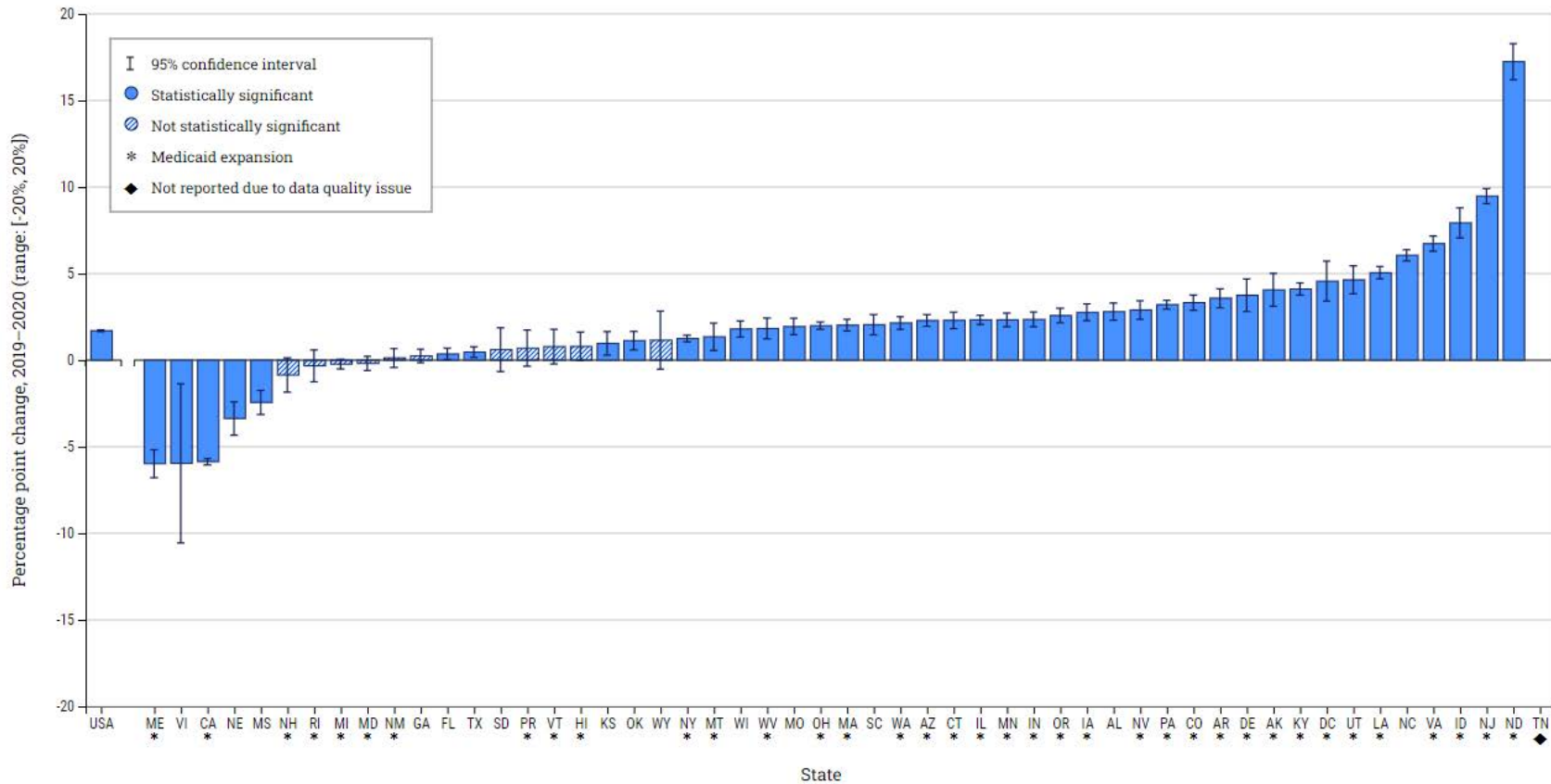
\* States that implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

<sup>#</sup> Adjusted for multiple comparisons using the Benjamini-Hochberg correction.

Table G.3 (*continued*)

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2019 and 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.

**Figure G.3. Change in the percentage of Medicaid beneficiaries treated for a SUD who received MAT, 2019 to 2020**



Source: Analysis of the 2020 preliminary TAF release 1 and 2019 TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits. Source Table C.1: Number and percentage of Medicaid beneficiaries treated for a SUD, by service type.

Note: The U.S. average is an overall average of the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims. Appendix B includes detailed information on how we identified SUD treatment.

We determined service types on the basis of National Drug Codes, procedure codes, and revenue codes.

The 2019 results presented in this section differ slightly from the results published in the 2019 SUD Data Book due to slight changes in the methodology. To ensure results are comparable from year to year, the 2019 results were recalculated using the 2020 methodology. For more information, refer to Chapter IV: Methods.

\* States that implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020. Idaho and Utah expanded Medicaid between January 1, 2019, and January 1, 2020.

Figure G.3 (*continued*)

◆ Tennessee was excluded from the 2020 report because the state had a very low number of Medicaid claims from all four claims files that linked to the enrollment file in 2019 and 2020, making the state's data unusable.

**Table G.4. Change in the percentage of Medicaid beneficiaries treated for a SUD who received emergency services, 2019 to 2020**

| State                 | Total number of Medicaid beneficiaries with a SUD |                  | Number of Medicaid beneficiaries treated for a SUD who received emergency services |                  | Percentage of Medicaid beneficiaries treated for a SUD who received emergency services |             | Difference in the number of Medicaid beneficiaries treated for a SUD who received emergency services, 2020–2019 | Difference in percentage, 2020–2019 (percentage points) | 95% confidence interval | Adjusted p-value <sup>#</sup> |
|-----------------------|---|------------------|--|------------------|--|-------------|---|---|-------------------------|-------------------------------|
|                       | 2019  | 2020             | 2019   | 2020             | 2019   | 2020        |   |   |                         |                               |
| <b>United States</b>  | <b>4,695,555</b>                                  | <b>4,560,513</b> | <b>2,091,880</b>   | <b>1,914,257</b> | <b>44.6</b>  | <b>42.0</b> | <b>-177,623</b>   | <b>-2.58</b>  | <b>(-2.63, -2.52)</b>   | <b>&lt;0.001</b>              |
| Alabama               | 40,648  | 47,599           | 26,722   | 29,357           | 65.7   | 61.7        | 2,635   | -4.06   | (-4.70, -3.43)          | <0.001                        |
| Alaska*               | 20,077  | 18,566           | 7,997  | 7,206            | 39.8   | 38.8        | -791  | -1.02   | (-1.99, -0.04)          | 0.050                         |
| Arizona*              | 149,974   | 152,920          | 60,151   | 58,343           | 40.1   | 38.2        | -1,808  | -1.95   | (-2.30, -1.61)          | <0.001                        |
| Arkansas*             | 36,346  | 33,268           | 20,088   | 17,145           | 55.3   | 51.5        | -2,943  | -3.73   | (-4.47, -2.99)          | <0.001                        |
| California*           | 473,927   | 423,543          | 221,298  | 198,842          | 46.7   | 46.9        | -22,456   | 0.25  | (0.05, 0.46)            | 0.021                         |
| Colorado*             | 86,011  | 88,453           | 46,348   | 45,231           | 53.9   | 51.1        | -1,117  | -2.75   | (-3.22, -2.28)          | <0.001                        |
| Connecticut*          | 89,899  | 82,251           | 31,249   | 24,375           | 34.8   | 29.6        | -6,874  | -5.13   | (-5.57, -4.68)          | <0.001                        |
| Delaware*             | 21,989  | 21,115           | 8,902  | 8,034            | 40.5   | 38.0        | -868  | -2.44   | (-3.36, -1.51)          | <0.001                        |
| District of Columbia* | 13,074  | 12,430           | 8,064  | 7,345            | 61.7   | 59.1        | -719  | -2.59   | (-3.79, -1.39)          | <0.001                        |
| Florida               | 130,705   | 131,723          | 75,478   | 73,757           | 57.7   | 56.0        | -1,721  | -1.75   | (-2.13, -1.37)          | <0.001                        |
| Georgia               | 68,951  | 64,291           | 35,135   | 32,323           | 51.0   | 50.3        | -2,812  | -0.68   | (-1.22, -0.14)          | 0.017                         |
| Hawaii*               | 18,256  | 15,795           | 9,912  | 8,458            | 54.3   | 53.5        | -1,454  | -0.75   | (-1.81, 0.32)           | 0.182                         |
| Idaho*                | 14,153  | 26,269           | 5,907  | 10,510           | 41.7   | 40.0        | 4,603   | -1.73   | (-2.73, -0.72)          | 0.001                         |
| Illinois*             | 172,275   | 168,025          | 56,212   | 53,570           | 32.6   | 31.9        | -2,642  | -0.75   | (-1.06, -0.43)          | <0.001                        |
| Indiana*              | 100,490   | 108,280          | 25,985   | 27,608           | 25.9   | 25.5        | 1,623   | -0.36   | (-0.74, 0.01)           | 0.068                         |
| Iowa*                 | 56,960  | 52,380           | 24,947   | 20,460           | 43.8   | 39.1        | -4,487  | -4.74   | (-5.32, -4.15)          | <0.001                        |
| Kansas                | 22,288  | 21,008           | 9,843  | 9,161            | 44.2   | 43.6        | -682  | -0.56   | (-1.49, 0.38)           | 0.254                         |
| Kentucky*             | 153,345   | 155,342          | 68,634   | 61,642           | 44.8   | 39.7        | -6,992  | -5.08   | (-5.42, -4.73)          | <0.001                        |
| Louisiana*            | 112,218   | 112,636          | 64,262   | 60,965           | 57.3   | 54.1        | -3,297  | -3.14   | (-3.55, -2.73)          | <0.001                        |
| Maine*                | 25,785  | 33,988           | 7,790  | 11,674           | 30.2   | 34.3        | 3,884   | 4.14  | (3.38, 4.89)            | <0.001                        |
| Maryland*             | 116,420   | 111,371          | 44,626   | 40,742           | 38.3   | 36.6        | -3,884  | -1.75   | (-2.15, -1.35)          | <0.001                        |
| Massachusetts*        | 173,987   | 161,018          | 73,643   | 68,634           | 42.3   | 42.6        | -5,009  | 0.30  | (-0.04, 0.63)           | 0.089                         |
| Michigan*             | 200,161   | 184,390          | 90,763   | 81,045           | 45.3   | 44.0        | -9,718  | -1.39   | (-1.71, -1.08)          | <0.001                        |
| Minnesota*            | 103,545   | 96,796           | 44,992   | 40,936           | 43.5   | 42.3        | -4,056  | -1.16   | (-1.59, -0.73)          | <0.001                        |
| Mississippi           | 18,687  | 25,712           | 10,033   | 12,930           | 53.7   | 50.3        | 2,897   | -3.40   | (-4.34, -2.46)          | <0.001                        |
| Missouri              | 66,363  | 62,980           | 25,924   | 22,934           | 39.1   | 36.4        | -2,990  | -2.65   | (-3.18, -2.12)          | <0.001                        |
| Montana*              | 27,329  | 25,771           | 11,936   | 11,062           | 43.7   | 42.9        | -874  | -0.75   | (-1.59, 0.09)           | 0.089                         |
| Nebraska              | 8,992   | 13,221           | 4,168  | 6,238            | 46.4   | 47.2        | 2,070   | 0.83  | (-0.51, 2.17)           | 0.237                         |
| Nevada*               | 50,011  | 49,372           | 22,985   | 21,348           | 46.0   | 43.2        | -1,637  | -2.72   | (-3.34, -2.10)          | <0.001                        |
| New Hampshire*        | 18,243  | 20,144           | 5,472  | 5,990            | 30.0   | 29.7        | 518   | -0.26   | (-1.18, 0.66)           | 0.580                         |

Table G.4 (continued)

| State          | Total number of Medicaid beneficiaries with a SUD |         | Number of Medicaid beneficiaries treated for a SUD who received emergency services |         | Percentage of Medicaid beneficiaries treated for a SUD who received emergency services |      | Difference in the number of Medicaid beneficiaries treated for a SUD who received emergency services, 2020–2019 | Difference in percentage, 2020–2019 (percentage points) | 95% confidence interval | Adjusted p-value <sup>#</sup> |
|----------------|---|---------|--|---------|--|------|---|---|-------------------------|-------------------------------|
|                | 2019  | 2020    | 2019   | 2020    | 2019   | 2020 |   |   |                         |                               |
| New Jersey*    | 93,100  | 99,031  | 43,593   | 42,141  | 46.8   | 42.6 | -1,452  | -4.27   | (-4.71, -3.83)          | <0.001                        |
| New Mexico*    | 64,356  | 65,171  | 24,550   | 23,870  | 38.1   | 36.6 | -680  | -1.52   | (-2.05, -0.99)          | <0.001                        |
| New York*      | 420,247   | 377,100 | 187,709  | 137,220 | 44.7   | 36.4 | -50,489   | -8.28   | (-8.49, -8.06)          | <0.001                        |
| North Carolina | 109,129   | 105,873 | 55,477   | 48,655  | 50.8   | 46.0 | -6,822  | -4.88   | (-5.30, -4.46)          | <0.001                        |
| North Dakota*  | 7,427   | 9,240   | 3,259  | 4,002   | 43.9   | 43.3 | 743   | -0.57   | (-2.08, 0.95)           | 0.470                         |
| Ohio*          | 374,342   | 354,713 | 204,765  | 179,290 | 54.7   | 50.5 | -25,475   | -4.15   | (-4.38, -3.93)          | <0.001                        |
| Oklahoma       | 43,181  | 39,590  | 14,417   | 12,728  | 33.4   | 32.1 | -1,689  | -1.24   | (-1.88, -0.60)          | <0.001                        |
| Oregon*        | 99,539  | 98,373  | 39,988   | 38,536  | 40.2   | 39.2 | -1,452  | -1.00   | (-1.43, -0.57)          | <0.001                        |
| Pennsylvania*  | 283,800   | 268,946 | 113,191  | 104,036 | 39.9   | 38.7 | -9,155  | -1.20   | (-1.46, -0.94)          | <0.001                        |
| Puerto Rico*   | 11,394  | 12,499  | 1,242  | 1,061   | 10.9   | 8.5  | -181  | -2.41   | (-3.16, -1.66)          | <0.001                        |
| Rhode Island*  | 20,872  | 21,371  | 5,422  | 5,879   | 26.0   | 27.5 | 457   | 1.53  | (0.69, 2.38)            | <0.001                        |
| South Carolina | 43,485  | 42,224  | 21,056   | 19,838  | 48.4   | 47.0 | -1,218  | -1.44   | (-2.11, -0.77)          | <0.001                        |
| South Dakota   | 5,531   | 5,394   | 2,554  | 2,391   | 46.2   | 44.3 | -163  | -1.85   | (-3.72, 0.02)           | 0.063                         |
| Tennessee      | DQ  | DQ      | DQ   | DQ      | DQ   | DQ   | DQ  | DQ  | DQ                      | DQ                            |
| Texas          | 113,523   | 100,163 | 57,205   | 42,794  | 50.4   | 42.7 | -14,411   | -7.67   | (-8.09, -7.24)          | <0.001                        |
| Utah*          | 22,242  | 29,545  | 7,670  | 10,820  | 34.5   | 36.6 | 3,150   | 2.14  | (1.31, 2.97)            | <0.001                        |
| Vermont*       | 19,857  | 18,710  | 6,460  | 5,761   | 32.5   | 30.8 | -699  | -1.74   | (-2.67, -0.81)          | <0.001                        |
| Virginia*      | 86,971  | 105,802 | 33,507   | 40,316  | 38.5   | 38.1 | 6,809   | -0.42   | (-0.86, 0.01)           | 0.068                         |
| Virgin Islands | 317   | 284     | 147  | 177     | 46.4   | 62.3 | 30  | 15.95   | (8.08, 23.82)           | <0.001                        |
| Washington*    | 144,513   | 144,777 | 65,489   | 62,942  | 45.3   | 43.5 | -2,547  | -1.84   | (-2.20, -1.48)          | <0.001                        |
| West Virginia* | 52,234  | 55,656  | 16,451   | 18,301  | 31.5   | 32.9 | 1,850   | 1.39  | (0.83, 1.95)            | <0.001                        |
| Wisconsin      | 84,507  | 81,842  | 36,631   | 34,229  | 43.3   | 41.8 | -2,402  | -1.52   | (-2.00, -1.05)          | <0.001                        |
| Wyoming        | 3,879   | 3,552   | 1,631  | 1,405   | 42.0   | 39.6 | -226  | -2.49   | (-4.73, -0.26)          | 0.036                         |

Source: Analysis of the 2020 preliminary TAF release 1 and 2019 TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits. Source Table C.1: Number and percentage of Medicaid beneficiaries treated for a SUD, by service type.

Note: The U.S. average is an overall average of the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims. Appendix B includes detailed information on how we identified SUD treatment.

We determined service types on the basis of National Drug Codes, procedure codes, and revenue codes.

The 2019 results presented in this section differ slightly from the results published in the 2019 SUD Data Book due to slight changes in the methodology. To ensure results are comparable from year to year, the 2019 results were recalculated using the 2020 methodology. For more information, refer to Chapter IV: Methods.

\* States that implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

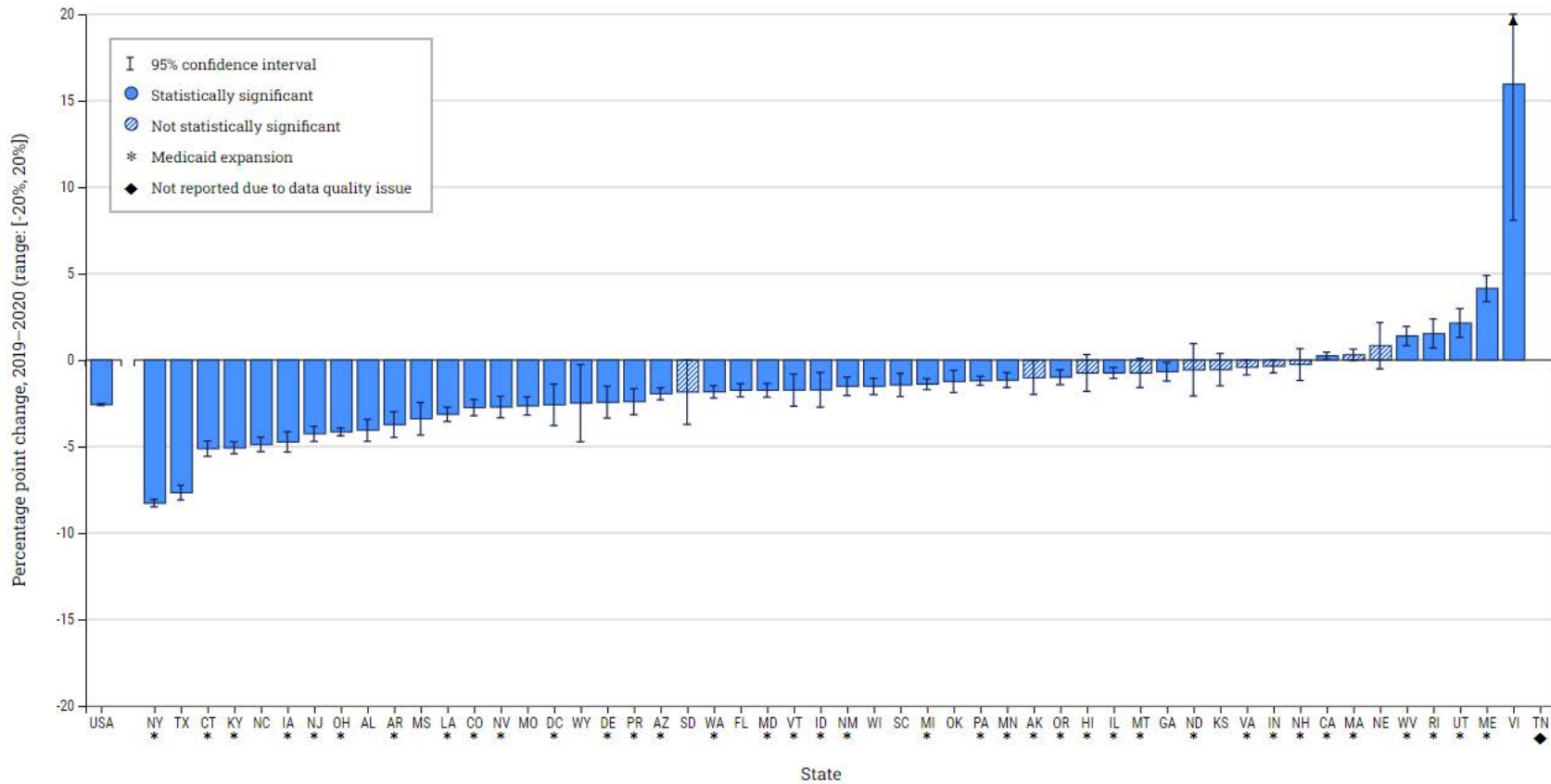
# Adjusted for multiple comparisons using the Benjamini-Hochberg correction.



Table G.4 (*continued*)

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2019 and 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.

**Figure G.4. Change in the percentage of Medicaid beneficiaries treated for a SUD who received emergency services, 2019 to 2020**



Source: Analysis of the 2020 preliminary TAF release 1 and 2019 TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits. Source Table C.1: Number and percentage of Medicaid beneficiaries treated for a SUD, by service type.

Note: The U.S. average is an overall average of the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims. Appendix B includes detailed information on how we identified SUD treatment.

We determined service types on the basis of National Drug Codes, procedure codes, and revenue codes.

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\* States that implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020. Idaho and Utah expanded Medicaid between January 1, 2019, and January 1, 2020.

◆ Tennessee was excluded from the 2020 report because the state had a very low number of Medicaid claims from all four claims files that linked to the enrollment file in 2019 and 2020, making the state's data unusable.

**Table G.5. Change in the percentage of Medicaid beneficiaries treated for a SUD who received treatment in an inpatient setting, 2019 to 2020**

|                       | Total number of Medicaid beneficiaries with a SUD |                  | Number of Medicaid beneficiaries treated for a SUD who received treatment in an inpatient setting |                  | Percentage of Medicaid beneficiaries treated for a SUD who received treatment in an inpatient setting |             | Difference in number of Medicaid beneficiaries treated for a SUD who received treatment in an inpatient setting, 2020—2019 | Difference in percentage, 2020—2019 (percentage points) | 95% confidence interval | Adjusted p-value <sup>#</sup> |
|-----------------------|---|------------------|---|------------------|---|-------------|--|---|-------------------------|-------------------------------|
|                       | 2019  | 2020             | 2019  | 2020             | 2019  | 2020        |  |   |                         |                               |
| <b>United States</b>  | <b>4,695,555</b>                                  | <b>4,560,513</b> | <b>1,872,223</b>  | <b>1,840,989</b> | <b>39.9</b>   | <b>40.4</b> | <b>-31,234</b>   | <b>0.50</b>   | <b>(0.44, 0.55)</b>     | <b>&lt;0.001</b>              |
| Alabama               | 40,648  | 47,599           | 20,197  | 22,494           | 49.7  | 47.3        | 2,297  | -2.43   | (-3.09, -1.77)          | <0.001                        |
| Alaska*               | 20,077  | 18,566           | 6,709   | 6,414            | 33.4  | 34.5        | -295   | 1.13  | (0.19, 2.08)            | 0.026                         |
| Arizona*              | 149,974   | 152,920          | 61,828  | 64,685           | 41.2  | 42.3        | 2,857  | 1.07  | (0.72, 1.43)            | <0.001                        |
| Arkansas*             | 36,346  | 33,268           | 23,035  | 21,058           | 63.4  | 63.3        | -1,977   | -0.08   | (-0.80, 0.64)           | 0.850                         |
| California*           | 473,927   | 423,543          | 184,242   | 170,320          | 38.9  | 40.2        | -13,922  | 1.34  | (1.13, 1.54)            | <0.001                        |
| Colorado*             | 86,011  | 88,453           | 33,081  | 33,076           | 38.5  | 37.4        | -5   | -1.07   | (-1.52, -0.61)          | <0.001                        |
| Connecticut*          | 89,899  | 82,251           | 26,955  | 26,165           | 30.0  | 31.8        | -790   | 1.83  | (1.39, 2.26)            | <0.001                        |
| Delaware*             | 21,989  | 21,115           | 8,821   | 7,665            | 40.1  | 36.3        | -1,156   | -3.81   | (-4.73, -2.90)          | <0.001                        |
| District of Columbia* | 13,074  | 12,430           | 7,573   | 7,447            | 57.9  | 59.9        | -126   | 1.99  | (0.78, 3.20)            | 0.002                         |
| Florida               | 130,705   | 131,723          | 74,323  | 76,739           | 56.9  | 58.3        | 2,416  | 1.39  | (1.02, 1.77)            | <0.001                        |
| Georgia               | 68,951  | 64,291           | 37,279  | 34,954           | 54.1  | 54.4        | -2,325   | 0.30  | (-0.23, 0.84)           | 0.302                         |
| Hawaii*               | 18,256  | 15,795           | 7,861   | 7,195            | 43.1  | 45.6        | -666   | 2.49  | (1.43, 3.55)            | <0.001                        |
| Idaho*                | 14,153  | 26,269           | 4,490   | 9,118            | 31.7  | 34.7        | 4,628  | 2.99  | (2.03, 3.94)            | <0.001                        |
| Illinois*             | 172,275   | 168,025          | 85,324  | 82,277           | 49.5  | 49.0        | -3,047   | -0.56   | (-0.90, -0.22)          | 0.002                         |
| Indiana*              | 100,490   | 108,280          | 45,971  | 48,305           | 45.7  | 44.6        | 2,334  | -1.14   | (-1.56, -0.71)          | <0.001                        |
| Iowa*                 | 56,960  | 52,380           | 24,862  | 22,984           | 43.6  | 43.9        | -1,878   | 0.23  | (-0.36, 0.82)           | 0.477                         |
| Kansas                | 22,288  | 21,008           | 11,774  | 11,548           | 52.8  | 55.0        | -226   | 2.14  | (1.20, 3.08)            | <0.001                        |
| Kentucky*             | 153,345   | 155,342          | 52,788  | 52,135           | 34.4  | 33.6        | -653   | -0.86   | (-1.20, -0.53)          | <0.001                        |
| Louisiana*            | 112,218   | 112,636          | 50,383  | 52,972           | 44.9  | 47.0        | 2,589  | 2.13  | (1.72, 2.54)            | <0.001                        |
| Maine*                | 25,785  | 33,988           | 4,235   | 10,171           | 16.4  | 29.9        | 5,936  | 13.50   | (12.84, 14.17)          | <0.001                        |
| Maryland*             | 116,420   | 111,371          | 32,729  | 33,056           | 28.1  | 29.7        | 327  | 1.57  | (1.20, 1.94)            | <0.001                        |
| Massachusetts*        | 173,987   | 161,018          | 66,830  | 60,945           | 38.4  | 37.8        | -5,885   | -0.56   | (-0.89, -0.23)          | 0.001                         |
| Michigan*             | 200,161   | 184,390          | 68,633  | 65,950           | 34.3  | 35.8        | -2,683   | 1.48  | (1.18, 1.78)            | <0.001                        |
| Minnesota*            | 103,545   | 96,796           | 39,580  | 36,997           | 38.2  | 38.2        | -2,583   | 0.00  | (-0.43, 0.42)           | 0.988                         |
| Mississippi           | 18,687  | 25,712           | 11,151  | 16,141           | 59.7  | 62.8        | 4,990  | 3.10  | (2.19, 4.02)            | <0.001                        |
| Missouri              | 66,363  | 62,980           | 25,703  | 24,739           | 38.7  | 39.3        | -964   | 0.55  | (0.02, 1.08)            | 0.058                         |
| Montana*              | 27,329  | 25,771           | 9,974   | 9,257            | 36.5  | 35.9        | -717   | -0.58   | (-1.39, 0.24)           | 0.201                         |

Table G.5 (continued)

|                | Total number of Medicaid beneficiaries with a SUD |         | Number of Medicaid beneficiaries treated for a SUD who received treatment in an inpatient setting |         | Percentage of Medicaid beneficiaries treated for a SUD who received treatment in an inpatient setting |      | Difference in number of Medicaid beneficiaries treated for a SUD who received treatment in an inpatient setting, 2020–2019 | Difference in percentage, 2020–2019 (percentage points) | 95% confidence interval | Adjusted p-value <sup>#</sup> |
|----------------|---|---------|---|---------|---|------|--|---|-------------------------|-------------------------------|
|                | 2019  | 2020    | 2019  | 2020    | 2019  | 2020 |  |   |                         |                               |
| Nebraska       | 8,992   | 13,221  | 3,991   | 7,396   | 44.4  | 55.9 | 3,405  | 11.56   | (10.23, 12.89)          | <0.001                        |
| Nevada*        | 50,011  | 49,372  | 24,333  | 23,550  | 48.7  | 47.7 | -783   | -0.96   | (-1.58, -0.33)          | 0.004                         |
| New Hampshire* | 18,243  | 20,144  | 4,334   | 5,494   | 23.8  | 27.3 | 1,160  | 3.52  | (2.64, 4.39)            | <0.001                        |
| New Jersey*    | 93,100  | 99,031  | 36,479  | 35,051  | 39.2  | 35.4 | -1,428   | -3.79   | (-4.22, -3.36)          | <0.001                        |
| New Mexico*    | 64,356  | 65,171  | 21,146  | 21,368  | 32.9  | 32.8 | 222  | -0.07   | (-0.58, 0.44)           | 0.834                         |
| New York*      | 420,247   | 377,100 | 170,513   | 154,228 | 40.6  | 40.9 | -16,285  | 0.32  | (0.11, 0.54)            | 0.005                         |
| North Carolina | 109,129   | 105,873 | 55,207  | 53,943  | 50.6  | 51.0 | -1,264   | 0.36  | (-0.06, 0.78)           | 0.117                         |
| North Dakota*  | 7,427   | 9,240   | 3,460   | 4,567   | 46.6  | 49.4 | 1,107  | 2.84  | (1.31, 4.36)            | <0.001                        |
| Ohio*          | 374,342   | 354,713 | 133,985   | 126,490 | 35.8  | 35.7 | -7,495   | -0.13   | (-0.35, 0.09)           | 0.274                         |
| Oklahoma       | 43,181  | 39,590  | 22,773  | 20,111  | 52.7  | 50.8 | -2,662   | -1.94   | (-2.62, -1.26)          | <0.001                        |
| Oregon*        | 99,539  | 98,373  | 26,013  | 28,763  | 26.1  | 29.2 | 2,750  | 3.11  | (2.71, 3.50)            | <0.001                        |
| Pennsylvania*  | 283,800   | 268,946 | 103,979   | 98,106  | 36.6  | 36.5 | -5,873   | -0.16   | (-0.41, 0.09)           | 0.254                         |
| Puerto Rico*   | 11,394  | 12,499  | 4,894   | 4,947   | 43.0  | 39.6 | 53   | -3.37   | (-4.62, -2.12)          | <0.001                        |
| Rhode Island*  | 20,872  | 21,371  | 3,510   | 4,699   | 16.8  | 22.0 | 1,189  | 5.17  | (4.42, 5.92)            | <0.001                        |
| South Carolina | 43,485  | 42,224  | 18,715  | 19,893  | 43.0  | 47.1 | 1,178  | 4.08  | (3.41, 4.74)            | <0.001                        |
| South Dakota   | 5,531   | 5,394   | 3,372   | 3,411   | 61.0  | 63.2 | 39   | 2.27  | (0.45, 4.09)            | 0.020                         |
| Tennessee      | DQ  | DQ      | DQ  | DQ      | DQ  | DQ   | DQ   | DQ  | DQ                      | DQ                            |
| Texas          | 113,523   | 100,163 | 66,497  | 59,067  | 58.6  | 59.0 | -7,430   | 0.40  | (-0.02, 0.81)           | 0.083                         |
| Utah*          | 22,242  | 29,545  | 8,121   | 10,683  | 36.5  | 36.2 | 2,562  | -0.35   | (-1.19, 0.48)           | 0.449                         |
| Vermont*       | 19,857  | 18,710  | 5,481   | 4,892   | 27.6  | 26.1 | -589   | -1.46   | (-2.34, -0.57)          | 0.002                         |
| Virginia*      | 86,971  | 105,802 | 38,298  | 45,049  | 44.0  | 42.6 | 6,751  | -1.46   | (-1.90, -1.01)          | <0.001                        |
| Virgin Islands | 317   | 284     | 156   | 180     | 49.2  | 63.4 | 24   | 14.17   | (6.32, 22.02)           | <0.001                        |
| Washington*    | 144,513   | 144,777 | 40,173  | 44,011  | 27.8  | 30.4 | 3,838  | 2.60  | (2.27, 2.93)            | <0.001                        |
| West Virginia* | 52,234  | 55,656  | 16,984  | 18,329  | 32.5  | 32.9 | 1,345  | 0.42  | (-0.14, 0.98)           | 0.177                         |
| Wisconsin      | 84,507  | 81,842  | 31,552  | 30,199  | 37.3  | 36.9 | -1,353   | -0.44   | (-0.90, 0.03)           | 0.083                         |
| Wyoming        | 3,879   | 3,552   | 1,926   | 1,755   | 49.7  | 49.4 | -171   | -0.24   | (-2.52, 2.03)           | 0.850                         |

Source: Analysis of the 2020 preliminary TAF release 1 and 2019 TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits. Source Table C.2: Number and percentage of Medicaid beneficiaries treated for a SUD, by service setting.

Note: The U.S. average is an overall average across the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims. Appendix B includes detailed information on how we identified SUD treatment.

Table G.5 (continued)

We defined service setting on the basis of the FASC value the claim was assigned as well as the type of claim on which the service was submitted; for claims categorized as Other Services (i.e., not inpatient, residential, or pharmacy claims), we defined the setting on the basis of the claim's type of bill, place of service, procedure codes, or revenue codes. We defined a setting as "unknown" when there was not enough information on the claim to categorize the service by setting. We did not analyze whether any services were provided via telehealth.

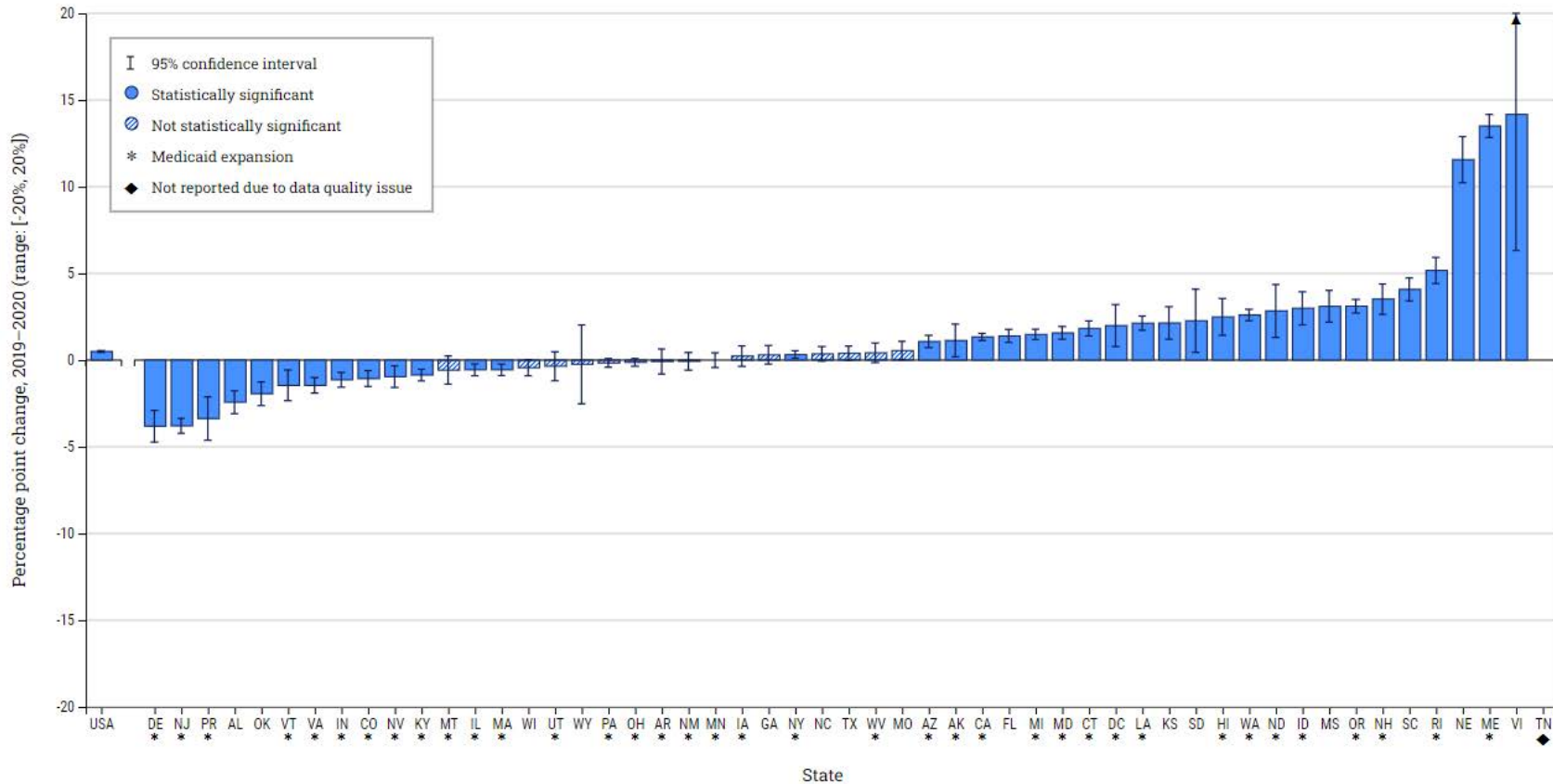
The 2019 results presented in this section differ slightly from the results published in the 2019 SUD Data Book due to slight changes in the methodology. To ensure results are comparable from year to year, the 2019 results were recalculated using the 2020 methodology. For more information, refer to Chapter IV: Methods.

\* States that implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

# Adjusted for multiple comparisons using the Benjamini-Hochberg correction.

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2019 and 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.

**Figure G.5. Change in the percentage of Medicaid beneficiaries treated for a SUD who received treatment in an inpatient setting, 2019 to 2020**



Source: Analysis of the 2020 preliminary TAF release 1 and 2019 TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits. Source Table C.2: Number and percentage of Medicaid beneficiaries treated for a SUD, by service setting.

Note: The U.S. average is an overall average across the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims. Appendix B includes detailed information on how we identified SUD treatment.

We defined service setting on the basis of the FASC value the claim was assigned as well as the type of claim on which the service was submitted; for claims categorized as Other Services (i.e., not inpatient, residential, or pharmacy claims), we defined the setting on the basis of the claim’s type of bill, place of service, procedure codes, or revenue codes. We defined a setting as “unknown” when there was not enough information on the claim to categorize the service by setting. We did not analyze whether any services were provided via telehealth.

Figure G.5 (*continued*)

The 2019 results presented in this section differ slightly from the results published in the 2019 SUD Data Book due to slight changes in the methodology. To ensure results are comparable from year to year, the 2019 results were recalculated using the 2020 methodology. For more information, refer to Chapter IV: Methods.

\* States that implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020. Idaho and Utah expanded Medicaid between January 1, 2019, and January 1, 2020.

◆ Tennessee was excluded from the 2020 report because the state had a very low number of Medicaid claims from all four claims files that linked to the enrollment file in 2019 and 2020, making the state's data unusable.

**Table G.6. Change in the percentage of Medicaid beneficiaries treated for a SUD who received treatment in a residential setting, 2019 to 2020**

| State                 | Total number of Medicaid beneficiaries with a SUD |                  | Number of Medicaid beneficiaries treated for a SUD who received treatment in a residential setting |                | Percentage of Medicaid beneficiaries treated for a SUD who received treatment in a residential setting |            | Difference in number of Medicaid beneficiaries treated for a SUD who received treatment in a residential setting, 2020–2019 | Difference in percentage, 2020–2019 (percentage points) | 95% confidence interval | Adjusted p-value <sup>#</sup> |
|-----------------------|---|------------------|--|----------------|--|------------|---|---|-------------------------|-------------------------------|
|                       | 2019  | 2020             | 2019   | 2020           | 2019   | 2020       |   |   |                         |                               |
| <b>United States</b>  | <b>4,695,555</b>                                  | <b>4,560,513</b> | <b>243,899</b>   | <b>249,006</b> | <b>5.2</b>   | <b>5.5</b> | <b>5,107</b>  | <b>0.27</b>   | <b>(0.24, 0.29)</b>     | <b>&lt;0.001</b>              |
| Alabama               | 40,648  | 47,599           | 1,203  | 1,036          | 3.0  | 2.2        | -167  | -0.78   | (-0.99, -0.57)          | <0.001                        |
| Alaska*               | 20,077  | 18,566           | 1,467  | 985            | 7.3  | 5.3        | -482  | -2.00   | (-2.48, -1.52)          | <0.001                        |
| Arizona*              | 149,974   | 152,920          | 5,106  | 5,727          | 3.4  | 3.7        | 621   | 0.34  | (0.21, 0.47)            | <0.001                        |
| Arkansas*             | 36,346  | 33,268           | 762  | 793            | 2.1  | 2.4        | 31  | 0.29  | (0.07, 0.51)            | 0.016                         |
| California*           | 473,927   | 423,543          | 23,102   | 24,005         | 4.9  | 5.7        | 903   | 0.79  | (0.70, 0.89)            | <0.001                        |
| Colorado*             | 86,011  | 88,453           | 1,577  | 1,692          | 1.8  | 1.9        | 115   | 0.08  | (-0.05, 0.21)           | 0.268                         |
| Connecticut*          | 89,899  | 82,251           | 2,886  | 2,412          | 3.2  | 2.9        | -474  | -0.28   | (-0.44, -0.11)          | 0.002                         |
| Delaware*             | 21,989  | 21,115           | 1,147  | 892            | 5.2  | 4.2        | -255  | -0.99   | (-1.39, -0.59)          | <0.001                        |
| District of Columbia* | 13,074  | 12,430           | 312  | 633            | 2.4  | 5.1        | 321   | 2.71  | (2.24, 3.17)            | <0.001                        |
| Florida               | 130,705   | 131,723          | 2,644  | 3,468          | 2.0  | 2.6        | 824   | 0.61  | (0.49, 0.73)            | <0.001                        |
| Georgia               | 68,951  | 64,291           | 1,206  | 1,089          | 1.7  | 1.7        | -117  | -0.06   | (-0.19, 0.08)           | 0.496                         |
| Hawaii*               | 18,256  | 15,795           | 813  | 655            | 4.5  | 4.1        | -158  | -0.31   | (-0.74, 0.13)           | 0.204                         |
| Idaho*                | 14,153  | 26,269           | 319  | 651            | 2.3  | 2.5        | 332   | 0.22  | (-0.08, 0.53)           | 0.203                         |
| Illinois*             | 172,275   | 168,025          | 9,304  | 8,773          | 5.4  | 5.2        | -531  | -0.18   | (-0.33, -0.03)          | 0.028                         |
| Indiana*              | 100,490   | 108,280          | 3,430  | 6,445          | 3.4  | 6.0        | 3,015   | 2.54  | (2.36, 2.72)            | <0.001                        |
| Iowa*                 | 56,960  | 52,380           | 2,334  | 1,960          | 4.1  | 3.7        | -374  | -0.36   | (-0.59, -0.13)          | 0.004                         |
| Kansas                | 22,288  | 21,008           | 1,707  | 1,461          | 7.7  | 7.0        | -246  | -0.70   | (-1.19, -0.21)          | 0.008                         |
| Kentucky*             | 153,345   | 155,342          | 9,919  | 13,823         | 6.5  | 8.9        | 3,904   | 2.43  | (2.24, 2.62)            | <0.001                        |
| Louisiana*            | 112,218   | 112,636          | 13,278   | 14,069         | 11.8   | 12.5       | 791   | 0.66  | (0.39, 0.93)            | <0.001                        |
| Maine*                | 25,785  | 33,988           | 258  | 457            | 1.0  | 1.3        | 199   | 0.34  | (0.17, 0.52)            | <0.001                        |
| Maryland*             | 116,420   | 111,371          | 12,850   | 12,421         | 11.0   | 11.2       | -429  | 0.12  | (-0.14, 0.37)           | 0.441                         |
| Massachusetts*        | 173,987   | 161,018          | 14,876   | 12,540         | 8.6  | 7.8        | -2,336  | -0.76   | (-0.95, -0.58)          | <0.001                        |
| Michigan*             | 200,161   | 184,390          | 34,219   | 27,481         | 17.1   | 14.9       | -6,738  | -2.19   | (-2.42, -1.96)          | <0.001                        |
| Minnesota*            | 103,545   | 96,796           | 3,119  | 3,297          | 3.0  | 3.4        | 178   | 0.39  | (0.24, 0.55)            | <0.001                        |
| Mississippi           | 18,687  | 25,712           | 218  | 423            | 1.2  | 1.6        | 205   | 0.48  | (0.26, 0.70)            | <0.001                        |
| Missouri              | 66,363  | 62,980           | 1,626  | 1,710          | 2.5  | 2.7        | 84  | 0.26  | (0.09, 0.44)            | 0.004                         |
| Montana*              | 27,329  | 25,771           | 1,070  | 818            | 3.9  | 3.2        | -252  | -0.74   | (-1.06, -0.43)          | <0.001                        |
| Nebraska              | 8,992   | 13,221           | 678  | 994            | 7.5  | 7.5        | 316   | -0.02   | (-0.73, 0.69)           | 0.971                         |



Table G.6 (continued)

| State          | Total number of Medicaid beneficiaries with a SUD |         | Number of Medicaid beneficiaries treated for a SUD who received treatment in a residential setting |        | Percentage of Medicaid beneficiaries treated for a SUD who received treatment in a residential setting |      | Difference in number of Medicaid beneficiaries treated for a SUD who received treatment in a residential setting, 2020–2019 | Difference in percentage, 2020–2019 (percentage points) | 95% confidence interval | Adjusted p-value <sup>#</sup> |
|----------------|---|---------|--|--------|--|------|---|---|-------------------------|-------------------------------|
|                | 2019  | 2020    | 2019   | 2020   | 2019   | 2020 |   |   |                         |                               |
| Nevada*        | 50,011  | 49,372  | 1,119  | 1,432  | 2.2  | 2.9  | 313   | 0.66  | (0.47, 0.86)            | <0.001                        |
| New Hampshire* | 18,243  | 20,144  | 1,021  | 1,920  | 5.6  | 9.5  | 899   | 3.93  | (3.41, 4.46)            | <0.001                        |
| New Jersey*    | 93,100  | 99,031  | 1,543  | 1,783  | 1.7  | 1.8  | 240   | 0.14  | (0.03, 0.26)            | 0.023                         |
| New Mexico*    | 64,356  | 65,171  | 809  | 804    | 1.3  | 1.2  | -5  | -0.02   | (-0.14, 0.10)           | 0.763                         |
| New York*      | 420,247   | 377,100 | 4,993  | 5,044  | 1.2  | 1.3  | 51  | 0.15  | (0.10, 0.20)            | <0.001                        |
| North Carolina | 109,129   | 105,873 | 3,317  | 3,108  | 3.0  | 2.9  | -209  | -0.10   | (-0.25, 0.04)           | 0.203                         |
| North Dakota*  | 7,427   | 9,240   | 256  | 266    | 3.4  | 2.9  | 10  | -0.57   | (-1.11, -0.03)          | 0.050                         |
| Ohio*          | 374,342   | 354,713 | 33,699   | 34,001 | 9.0  | 9.6  | 302   | 0.58  | (0.45, 0.72)            | <0.001                        |
| Oklahoma       | 43,181  | 39,590  | 780  | 813    | 1.8  | 2.1  | 33  | 0.25  | (0.06, 0.44)            | 0.015                         |
| Oregon*        | 99,539  | 98,373  | 10,735   | 9,700  | 10.8   | 9.9  | -1,035  | -0.92   | (-1.19, -0.66)          | <0.001                        |
| Pennsylvania*  | 283,800   | 268,946 | 2,946  | 2,726  | 1.0  | 1.0  | -220  | -0.02   | (-0.08, 0.03)           | 0.434                         |
| Puerto Rico*   | 11,394  | 12,499  | DS   | 27     | DS   | 0.2  | DS  | DS  | DS                      | DS                            |
| Rhode Island*  | 20,872  | 21,371  | 377  | 393    | 1.8  | 1.8  | 16  | 0.03  | (-0.22, 0.29)           | 0.851                         |
| South Carolina | 43,485  | 42,224  | 1,260  | 1,082  | 2.9  | 2.6  | -178  | -0.34   | (-0.55, -0.12)          | 0.004                         |
| South Dakota   | 5,531   | 5,394   | 549  | 535    | 9.9  | 9.9  | -14   | -0.01   | (-1.13, 1.11)           | 0.990                         |
| Tennessee      | DQ  | DQ      | DQ   | DQ     | DQ   | DQ   | DQ  | DQ  | DQ                      | DQ                            |
| Texas          | 113,523   | 100,163 | 3,905  | 4,145  | 3.4  | 4.1  | 240   | 0.70  | (0.54, 0.86)            | <0.001                        |
| Utah*          | 22,242  | 29,545  | 5,317  | 8,847  | 23.9   | 29.9 | 3,530   | 6.04  | (5.27, 6.81)            | <0.001                        |
| Vermont*       | 19,857  | 18,710  | 871  | 697    | 4.4  | 3.7  | -174  | -0.66   | (-1.05, -0.27)          | 0.002                         |
| Virginia*      | 86,971  | 105,802 | 1,703  | 2,101  | 2.0  | 2.0  | 398   | 0.03  | (-0.10, 0.15)           | 0.735                         |
| Virgin Islands | 317   | 284     | 0  | 0      | 0.0  | 0.0  | 0   | 0.00  | NA                      | NA                            |
| Washington*    | 144,513   | 144,777 | 13,888   | 13,684 | 9.6  | 9.5  | -204  | -0.16   | (-0.37, 0.06)           | 0.196                         |
| West Virginia* | 52,234  | 55,656  | 1,998  | 3,910  | 3.8  | 7.0  | 1,912   | 3.20  | (2.93, 3.47)            | <0.001                        |
| Wisconsin      | 84,507  | 81,842  | 1,186  | 1,142  | 1.4  | 1.4  | -44   | -0.01   | (-0.12, 0.10)           | 0.924                         |
| Wyoming        | 3,879   | 3,552   | 197  | 136    | 5.1  | 3.8  | -61   | -1.25   | (-2.19, -0.31)          | 0.015                         |

Source: Analysis of the 2020 preliminary TAF release 1 and 2019 TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits. Source Table C.2: Number and percentage of Medicaid beneficiaries treated for a SUD, by service setting.

Note: The U.S. average is an overall average across the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims. Appendix B includes detailed information on how we identified SUD treatment.

We defined service setting on the basis of the FASC value the claim was assigned as well as the type of claim on which the service was submitted; for claims categorized as Other Services (i.e., not inpatient, residential, or pharmacy claims), we defined the setting on the basis of the claim's type of bill, place of service, procedure codes, or

Table G.6 (*continued*)

revenue codes. We defined a setting as “unknown” when there was not enough information on the claim to categorize the service by setting. We did not analyze whether any services were provided via telehealth.

The 2019 results presented in this section differ slightly from the results published in the 2019 SUD Data Book due to slight changes in the methodology. To ensure results are comparable from year to year, the 2019 results were recalculated using the 2020 methodology. For more information, refer to Chapter IV: Methods.

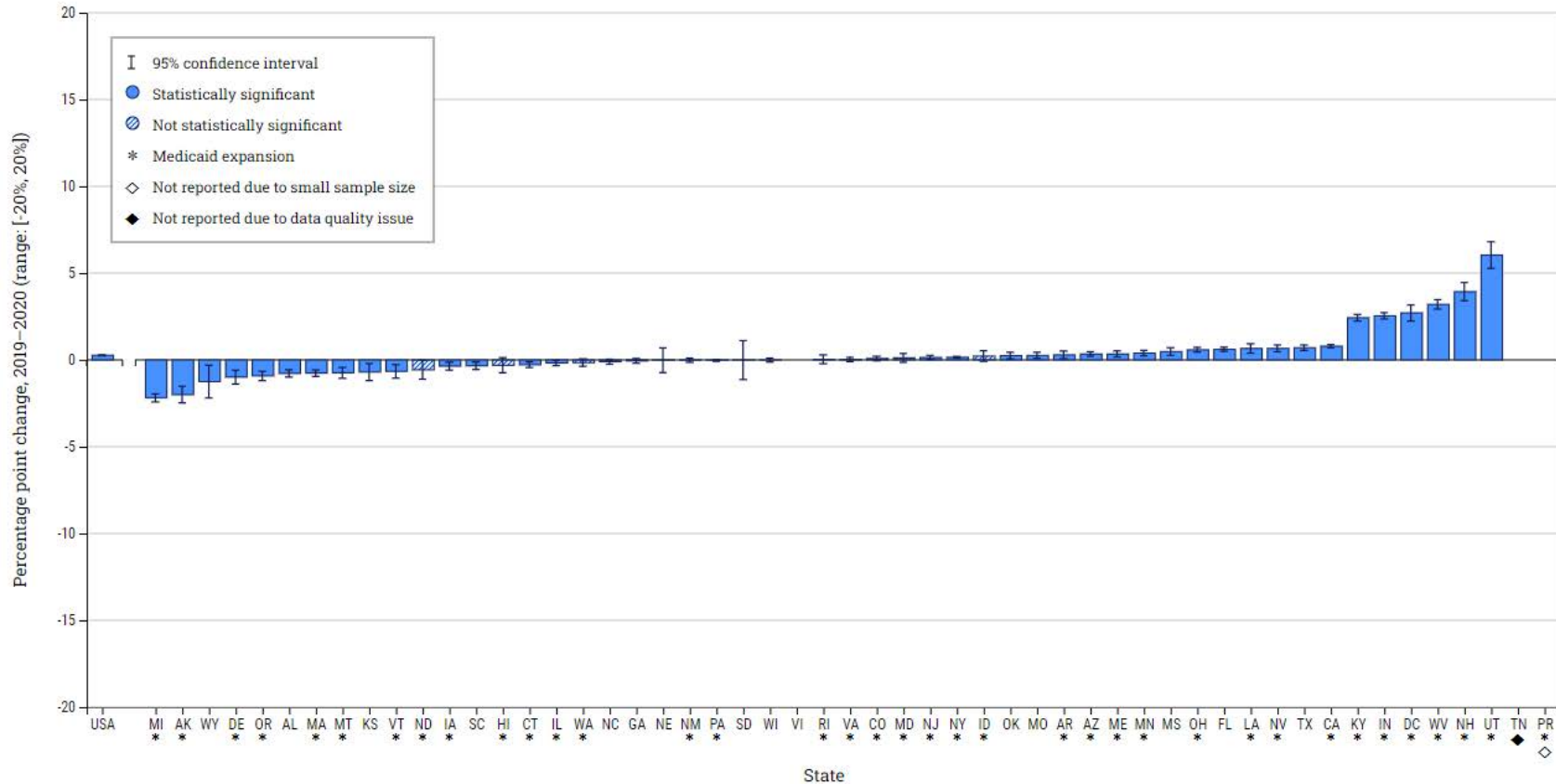
\* States that implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

# Adjusted for multiple comparisons using the Benjamini-Hochberg correction.

DS = Data suppressed for confidentiality reasons because the group included fewer than 11 beneficiaries. If the size of a group that a state did not report because of confidentiality can be identified by using other numbers from that state, then we did not report a second group within that state. Slightly different totals across the tables are a function of differences in the need to suppress data from one table to the next.

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2019 and 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.

**Figure G.6. Change in the percentage of Medicaid beneficiaries treated for a SUD who received treatment in a residential setting, 2019 to 2020**



Source: Analysis of the 2020 preliminary TAF release 1 and 2019 TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits. Source Table C.2: Number and percentage of Medicaid beneficiaries treated for a SUD, by service setting.

Note: The U.S. average is an overall average across the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims. Appendix B includes detailed information on how we identified SUD treatment.

We defined service setting on the basis of the FASC value the claim was assigned as well as the type of claim on which the service was submitted; for claims categorized as Other Services (i.e., not inpatient, residential, or pharmacy claims), we defined the setting on the basis of the claim’s type of bill, place of service, procedure codes, or revenue codes. We defined a setting as “unknown” when there was not enough information on the claim to categorize the service by setting. We did not analyze whether any services were provided via telehealth.

Figure G.6 (*continued*)

The 2019 results presented in this section differ slightly from the results published in the 2019 SUD Data Book due to slight changes in the methodology. To ensure results are comparable from year to year, the 2019 results were recalculated using the 2020 methodology. For more information, refer to Chapter IV: Methods.

\* States that implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020. Idaho and Utah expanded Medicaid between January 1, 2019, and January 1, 2020.

◆ Tennessee was excluded from the 2020 report because the state had a very low number of Medicaid claims from all four claims files that linked to the enrollment file in 2019 and 2020, making the state's data unusable.

◇ Not reported due to small sample size.

**Table G.7. Change in the percentage of Medicaid beneficiaries treated for a SUD who received treatment in an outpatient setting, 2019 to 2020**

| State                 | Total number of Medicaid beneficiaries with a SUD |                  | Number of Medicaid beneficiaries treated for a SUD who received treatment in an outpatient setting |                  | Percentage of Medicaid beneficiaries treated for a SUD who received treatment in an outpatient setting |             | Difference in number of Medicaid beneficiaries treated for a SUD who received treatment in an outpatient setting, 2020–2019 | Difference in percentage, 2020–2019 (percentage points) | 95% confidence interval | Adjusted p-value <sup>#</sup> |
|-----------------------|---|------------------|--|------------------|--|-------------|---|---|-------------------------|-------------------------------|
|                       | 2019  | 2020             | 2019   | 2020             | 2019   | 2020        |   |   |                         |                               |
| <b>United States</b>  | <b>4,695,555</b>                                  | <b>4,560,513</b> | <b>3,689,672</b>   | <b>3,550,394</b> | <b>78.6</b>  | <b>77.9</b> | <b>-139,278</b>   | <b>-0.73</b>  | <b>(-0.77, -0.68)</b>   | <b>0.075</b>                  |
| Alabama               | 40,648  | 47,599           | 32,043   | 37,762           | 78.8   | 79.3        | 5,719   | 0.50  | (-0.04, 1.04)           | 0.084                         |
| Alaska*               | 20,077  | 18,566           | 16,712   | 15,305           | 83.2   | 82.4        | -1,407  | -0.80   | (-1.56, -0.05)          | 0.048                         |
| Arizona*              | 149,974   | 152,920          | 122,339  | 122,831          | 81.6   | 80.3        | 492   | -1.25   | (-1.53, -0.97)          | <0.001                        |
| Arkansas*             | 36,346  | 33,268           | 22,263   | 19,795           | 61.3   | 59.5        | -2,468  | -1.75   | (-2.48, -1.02)          | <0.001                        |
| California*           | 473,927   | 423,543          | 353,530  | 307,224          | 74.6   | 72.5        | -46,306   | -2.06   | (-2.24, -1.88)          | <0.001                        |
| Colorado*             | 86,011  | 88,453           | 69,336   | 72,042           | 80.6   | 81.4        | 2,706   | 0.83  | (0.47, 1.20)            | <0.001                        |
| Connecticut*          | 89,899  | 82,251           | 79,084   | 70,982           | 88.0   | 86.3        | -8,102  | -1.67   | (-1.99, -1.35)          | <0.001                        |
| Delaware*             | 21,989  | 21,115           | 18,748   | 17,982           | 85.3   | 85.2        | -766  | -0.10   | (-0.77, 0.57)           | 0.803                         |
| District of Columbia* | 13,074  | 12,430           | 8,526  | 7,945            | 65.2   | 63.9        | -581  | -1.30   | (-2.47, -0.12)          | 0.041                         |
| Florida               | 130,705   | 131,723          | 81,071   | 80,839           | 62.0   | 61.4        | -232  | -0.66   | (-1.03, -0.28)          | <0.001                        |
| Georgia               | 68,951  | 64,291           | 45,860   | 41,929           | 66.5   | 65.2        | -3,931  | -1.29   | (-1.80, -0.78)          | <0.001                        |
| Hawaii*               | 18,256  | 15,795           | 13,736   | 11,664           | 75.2   | 73.8        | -2,072  | -1.39   | (-2.32, -0.47)          | 0.005                         |
| Idaho*                | 14,153  | 26,269           | 11,032   | 21,771           | 77.9   | 82.9        | 10,739  | 4.93  | (4.11, 5.75)            | <0.001                        |
| Illinois*             | 172,275   | 168,025          | 121,754  | 116,731          | 70.7   | 69.5        | -5,023  | -1.20   | (-1.51, -0.89)          | <0.001                        |
| Indiana*              | 100,490   | 108,280          | 68,131   | 75,630           | 67.8   | 69.8        | 7,499   | 2.05  | (1.65, 2.45)            | <0.001                        |
| Iowa*                 | 56,960  | 52,380           | 44,988   | 41,046           | 79.0   | 78.4        | -3,942  | -0.62   | (-1.11, -0.13)          | 0.017                         |
| Kansas                | 22,288  | 21,008           | 14,910   | 13,645           | 66.9   | 65.0        | -1,265  | -1.95   | (-2.84, -1.05)          | <0.001                        |
| Kentucky*             | 153,345   | 155,342          | 130,379  | 131,990          | 85.0   | 85.0        | 1,611   | -0.06   | (-0.31, 0.20)           | 0.702                         |
| Louisiana*            | 112,218   | 112,636          | 85,182   | 81,891           | 75.9   | 72.7        | -3,291  | -3.20   | (-3.56, -2.84)          | <0.001                        |
| Maine*                | 25,785  | 33,988           | 24,032   | 29,725           | 93.2   | 87.5        | 5,693   | -5.74   | (-6.21, -5.28)          | <0.001                        |
| Maryland*             | 116,420   | 111,371          | 101,942  | 97,098           | 87.6   | 87.2        | -4,844  | -0.38   | (-0.65, -0.11)          | 0.009                         |
| Massachusetts*        | 173,987   | 161,018          | 146,343  | 134,351          | 84.1   | 83.4        | -11,992   | -0.67   | (-0.92, -0.42)          | <0.001                        |
| Michigan*             | 200,161   | 184,390          | 157,775  | 144,903          | 78.8   | 78.6        | -12,872   | -0.24   | (-0.50, 0.02)           | 0.087                         |
| Minnesota*            | 103,545   | 96,796           | 87,405   | 80,917           | 84.4   | 83.6        | -6,488  | -0.82   | (-1.14, -0.50)          | <0.001                        |
| Mississippi           | 18,687  | 25,712           | 11,793   | 14,751           | 63.1   | 57.4        | 2,958   | -5.74   | (-6.66, -4.82)          | <0.001                        |
| Missouri              | 66,363  | 62,980           | 54,694   | 51,694           | 82.4   | 82.1        | -3,000  | -0.34   | (-0.75, 0.08)           | 0.136                         |
| Montana*              | 27,329  | 25,771           | 23,052   | 21,702           | 84.3   | 84.2        | -1,350  | -0.14   | (-0.76, 0.48)           | 0.702                         |
| Nebraska              | 8,992   | 13,221           | 6,424  | 8,322            | 71.4   | 62.9        | 1,898   | -8.50   | (-9.74, -7.25)          | <0.001                        |

Table G.7 (continued)

| State          | Total number of Medicaid beneficiaries with a SUD |         | Number of Medicaid beneficiaries treated for a SUD who received treatment in an outpatient setting |         | Percentage of Medicaid beneficiaries treated for a SUD who received treatment in an outpatient setting |      | Difference in number of Medicaid beneficiaries treated for a SUD who received treatment in an outpatient setting, 2020–2019 | Difference in percentage, 2020–2019 (percentage points) | 95% confidence interval | Adjusted $p$ -value <sup>#</sup> |
|----------------|---|---------|--|---------|--|------|---|---|-------------------------|----------------------------------|
|                | 2019  | 2020    | 2019   | 2020    | 2019   | 2020 |   |   |                         |                                  |
| Nevada*        | 50,011  | 49,372  | 38,317   | 38,017  | 76.6   | 77.0 | -300  | 0.38  | (-0.14, 0.91)           | 0.178                            |
| New Hampshire* | 18,243  | 20,144  | 16,133   | 17,596  | 88.4   | 87.4 | 1,463   | -1.08   | (-1.74, -0.43)          | 0.002                            |
| New Jersey*    | 93,100  | 99,031  | 72,593   | 80,770  | 78.0   | 81.6 | 8,177   | 3.59  | (3.23, 3.95)            | <0.001                           |
| New Mexico*    | 64,356  | 65,171  | 55,920   | 56,623  | 86.9   | 86.9 | 703   | -0.01   | (-0.38, 0.36)           | 0.974                            |
| New York*      | 420,247   | 377,100 | 341,467  | 302,127 | 81.3   | 80.1 | -39,340   | -1.14   | (-1.31, -0.96)          | <0.001                           |
| North Carolina | 109,129   | 105,873 | 77,234   | 73,102  | 70.8   | 69.0 | -4,132  | -1.73   | (-2.11, -1.34)          | <0.001                           |
| North Dakota*  | 7,427   | 9,240   | 5,814  | 7,155   | 78.3   | 77.4 | 1,341   | -0.85   | (-2.11, 0.42)           | 0.219                            |
| Ohio*          | 374,342   | 354,713 | 322,211  | 302,218 | 86.1   | 85.2 | -19,993   | -0.87   | (-1.03, -0.71)          | <0.001                           |
| Oklahoma       | 43,181  | 39,590  | 29,102   | 26,570  | 67.4   | 67.1 | -2,532  | -0.28   | (-0.92, 0.36)           | 0.426                            |
| Oregon*        | 99,539  | 98,373  | 87,613   | 84,655  | 88.0   | 86.1 | -2,958  | -1.96   | (-2.26, -1.67)          | <0.001                           |
| Pennsylvania*  | 283,800   | 268,946 | 218,458  | 208,092 | 77.0   | 77.4 | -10,366   | 0.40  | (0.18, 0.62)            | <0.001                           |
| Puerto Rico*   | 11,394  | 12,499  | 7,207  | 8,371   | 63.3   | 67.0 | 1,164   | 3.72  | (2.51, 4.93)            | <0.001                           |
| Rhode Island*  | 20,872  | 21,371  | 19,600   | 19,672  | 93.9   | 92.0 | 72  | -1.86   | (-2.34, -1.37)          | <0.001                           |
| South Carolina | 43,485  | 42,224  | 32,047   | 29,460  | 73.7   | 69.8 | -2,587  | -3.93   | (-4.53, -3.32)          | <0.001                           |
| South Dakota   | 5,531   | 5,394   | 3,155  | 2,908   | 57.0   | 53.9 | -247  | -3.13   | (-4.99, -1.27)          | 0.002                            |
| Tennessee      | DQ  | DQ      | DQ   | DQ      | DQ   | DQ   | DQ  | DQ  | DQ                      | DQ                               |
| Texas          | 113,523   | 100,163 | 71,084   | 61,342  | 62.6   | 61.2 | -9,742  | -1.37   | (-1.79, -0.96)          | <0.001                           |
| Utah*          | 22,242  | 29,545  | 15,879   | 22,232  | 71.4   | 75.2 | 6,353   | 3.86  | (3.08, 4.63)            | <0.001                           |
| Vermont*       | 19,857  | 18,710  | 17,461   | 16,134  | 87.9   | 86.2 | -1,327  | -1.70   | (-2.37, -1.03)          | <0.001                           |
| Virginia*      | 86,971  | 105,802 | 65,323   | 80,867  | 75.1   | 76.4 | 15,544  | 1.32  | (0.94, 1.71)            | <0.001                           |
| Virgin Islands | 317   | 284     | 181  | 119     | 57.1   | 41.9 | -62   | -15.20  | (-23.11, -7.28)         | <0.001                           |
| Washington*    | 144,513   | 144,777 | 126,685  | 123,854 | 87.7   | 85.5 | -2,831  | -2.12   | (-2.36, -1.87)          | <0.001                           |
| West Virginia* | 52,234  | 55,656  | 40,393   | 45,720  | 77.3   | 82.1 | 5,327   | 4.82  | (4.34, 5.30)            | <0.001                           |
| Wisconsin      | 84,507  | 81,842  | 70,179   | 67,961  | 83.0   | 83.0 | -2,218  | -0.01   | (-0.37, 0.35)           | 0.974                            |
| Wyoming        | 3,879   | 3,552   | 2,532  | 2,362   | 65.3   | 66.5 | -170  | 1.22  | (-0.93, 3.38)           | 0.300                            |

Source: Analysis of the 2020 preliminary TAF release 1 and 2019 TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits. Source Table C.2: Number and percentage of Medicaid beneficiaries treated for a SUD, by service setting.

Note: The U.S. average is an overall average across the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims. Appendix B includes detailed information on how we identified SUD treatment.

We defined service setting on the basis of the FASC value the claim was assigned as well as the type of claim on which the service was submitted; for claims categorized as Other Services (i.e., not inpatient, residential, or pharmacy claims), we defined the setting on the basis of the claim's type of bill, place of service, procedure codes, or

Table G.7 (continued)

revenue codes. We defined a setting as “unknown” when there was not enough information on the claim to categorize the service by setting. We did not analyze whether any services were provided via telehealth.

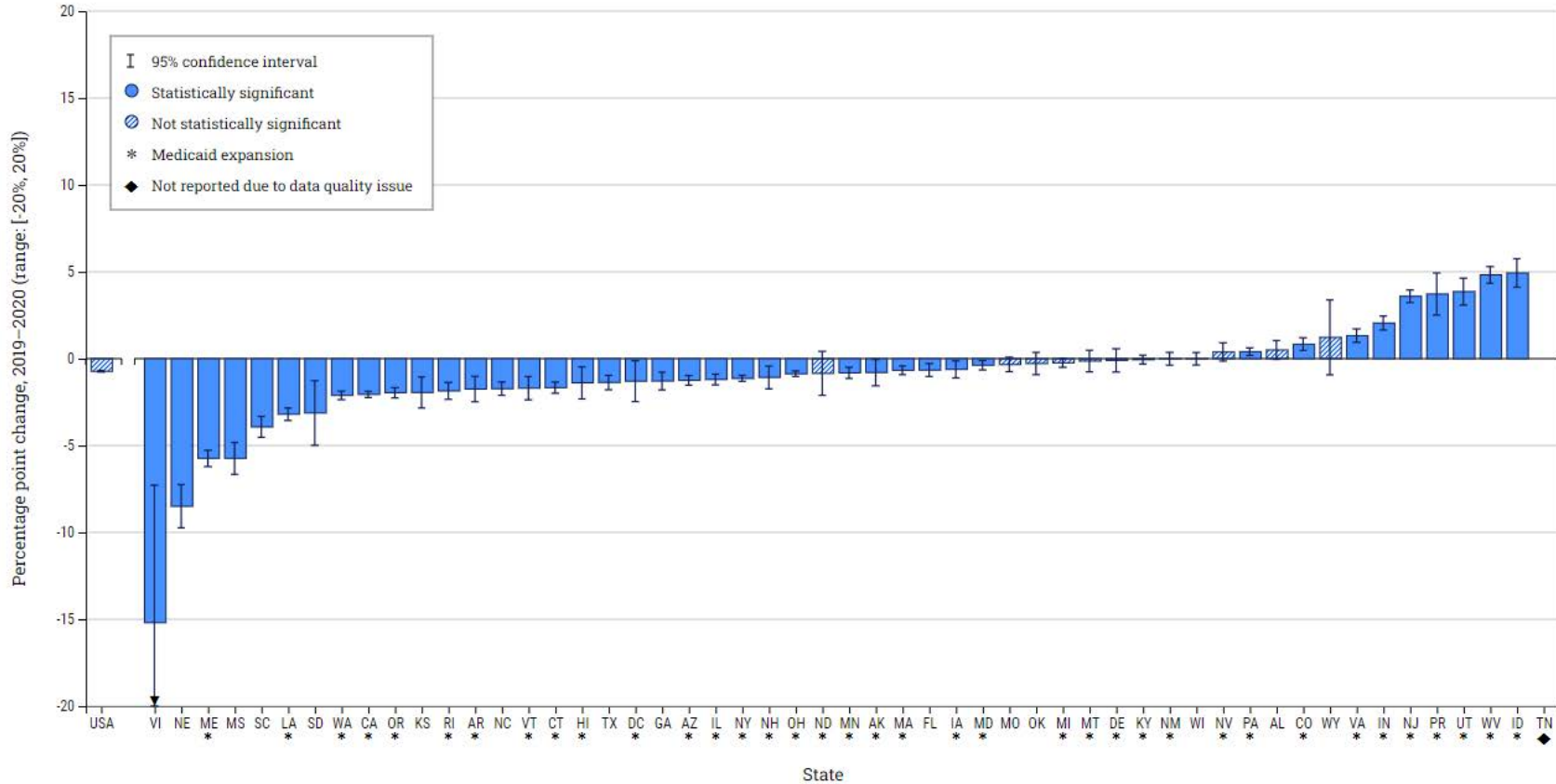
The 2019 results presented in this section differ slightly from the results published in the 2019 SUD Data Book due to slight changes in the methodology. To ensure results are comparable from year to year, the 2019 results were recalculated using the 2020 methodology. For more information, refer to Chapter IV: Methods.

\* States that implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

# Adjusted for multiple comparisons using the Benjamini-Hochberg correction.

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2019 and 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.

**Figure G.7. Change in the percentage of Medicaid beneficiaries treated for a SUD who received treatment in an outpatient setting, 2019 to 2020**



Source: Analysis of the 2020 preliminary TAF release 1 and 2019 TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits. Source Table C.2: Number and percentage of Medicaid beneficiaries treated for a SUD, by service setting.

Note: The U.S. average is an overall average across the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims. Appendix B includes detailed information on how we identified SUD treatment.

We defined service setting on the basis of the FASC value the claim was assigned as well as the type of claim on which the service was submitted; for claims categorized as Other Services (i.e., not inpatient, residential, or pharmacy claims), we defined the setting on the basis of the claim’s type of bill, place of service, procedure codes, or revenue codes. We defined a setting as “unknown” when there was not enough information on the claim to categorize the service by setting. We did not analyze whether any services were provided via telehealth.



Figure G.7 (continued)

The 2019 results presented in this section differ slightly from the results published in the 2019 SUD Data Book due to slight changes in the methodology. To ensure results are comparable from year to year, the 2019 results were recalculated using the 2020 methodology. For more information, refer to Chapter IV: Methods.

\* States that implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020. Idaho and Utah expanded Medicaid between January 1, 2019, and January 1, 2020.

◆ Tennessee was excluded from the 2020 report because the state had a very low number of Medicaid claims from all four claims files that linked to the enrollment file in 2019 and 2020, making the state's data unusable.

**Table G.8. Change in the percentage of Medicaid beneficiaries treated for a SUD who received an inpatient or a residential treatment and received an outpatient or a community-based follow-up within 30 days of discharge, 2019 to 2020**

| State                 | Number of beneficiaries with a SUD who received services in an inpatient or residential setting |                  | Number of Medicaid beneficiaries treated for a SUD who received an inpatient or a residential treatment and received an outpatient or a community-based follow-up within 30 days of discharge |                | Percentage of Medicaid beneficiaries treated for a SUD who received an inpatient or a residential treatment and received an outpatient or a community-based follow-up within 30 days of discharge |             | Difference in the number Medicaid beneficiaries treated for a SUD who received an inpatient or residential treatment and received an outpatient or community-based follow-up within 30 days of discharge, 2020–2019 | Difference in percentage, 2020–2019 (percentage points) | 95% confidence interval | Adjusted <i>p</i> -value <sup>#</sup> |
|-----------------------|---|------------------|---|----------------|---|-------------|---|---|-------------------------|---------------------------------------|
|                       | 2019  | 2020             | 2019  | 2020           | 2019  | 2020        |   |   |                         |                                       |
| <b>United States</b>  | <b>1,994,008</b>  | <b>1,957,365</b> | <b>565,150</b>  | <b>562,633</b> | <b>28.3</b>   | <b>28.7</b> | <b>-2,517</b>   | <b>0.40</b>   | <b>(0.33, 0.48)</b>     | <b>&lt;0.001</b>                      |
| Alabama               | 19,719  | 21,926           | 5,476   | 5,619          | 27.8  | 25.6        | 143   | -2.14   | (-2.99, -1.29)          | <0.001                                |
| Alaska*               | 7,386   | 6,797            | 2,491   | 2,164          | 33.7  | 31.8        | -327  | -1.89   | (-3.43, -0.34)          | 0.028                                 |
| Arizona*              | 62,452  | 65,945           | 22,937  | 25,443         | 36.7  | 38.6        | 2,506   | 1.85  | (1.32, 2.38)            | <0.001                                |
| Arkansas*             | 22,044  | 20,348           | 3,062   | 2,835          | 13.9  | 13.9        | -227  | 0.04  | (-0.62, 0.70)           | 0.942                                 |
| California*           | 205,246   | 193,618          | 45,774  | 44,641         | 22.3  | 23.1        | -1,133  | 0.75  | (0.49, 1.01)            | <0.001                                |
| Colorado*             | 32,460  | 32,605           | 7,309   | 8,081          | 22.5  | 24.8        | 772   | 2.27  | (1.61, 2.92)            | <0.001                                |
| Connecticut*          | 27,912  | 26,565           | 11,285  | 10,092         | 40.4  | 38.0        | -1,193  | -2.44   | (-3.26, -1.62)          | <0.001                                |
| Delaware*             | 9,264   | 8,139            | 3,924   | 3,255          | 42.4  | 40.0        | -669  | -2.36   | (-3.83, -0.90)          | 0.003                                 |
| District of Columbia* | 7,375   | 7,325            | 1,456   | 1,344          | 19.7  | 18.3        | -112  | -1.39   | (-2.66, -0.12)          | 0.048                                 |
| Florida               | 74,948  | 77,635           | 12,110  | 12,989         | 16.2  | 16.7        | 879   | 0.57  | (0.20, 0.94)            | 0.005                                 |
| Georgia               | 36,965  | 34,333           | 5,670   | 5,038          | 15.3  | 14.7        | -632  | -0.66   | (-1.19, -0.14)          | 0.023                                 |
| Hawaii*               | 8,324   | 7,446            | 2,115   | 1,807          | 25.4  | 24.3        | -308  | -1.14   | (-2.49, 0.21)           | 0.132                                 |
| Idaho*                | 6,040   | 9,489            | 1,416   | 2,777          | 23.4  | 29.3        | 1,361   | 5.82  | (4.41, 7.23)            | <0.001                                |
| Illinois*             | 88,657  | 86,455           | 22,325  | 21,432         | 25.2  | 24.8        | -893  | -0.39   | (-0.80, 0.01)           | 0.083                                 |
| Indiana*              | 46,088  | 49,741           | 7,595   | 10,466         | 16.5  | 21.0        | 2,871   | 4.56  | (4.07, 5.05)            | <0.001                                |
| Iowa*                 | 25,300  | 23,027           | 7,027   | 6,248          | 27.8  | 27.1        | -779  | -0.64   | (-1.44, 0.16)           | 0.151                                 |
| Kansas                | 12,246  | 11,838           | 2,292   | 2,210          | 18.7  | 18.7        | -82   | -0.05   | (-1.03, 0.94)           | 0.942                                 |
| Kentucky*             | 57,977  | 58,929           | 18,954  | 21,990         | 32.7  | 37.3        | 3,036   | 4.62  | (4.08, 5.17)            | <0.001                                |
| Louisiana*            | 55,818  | 58,276           | 13,378  | 14,898         | 24.0  | 25.6        | 1,520   | 1.60  | (1.10, 2.10)            | <0.001                                |
| Maine*                | 4,537   | 9,986            | 1,761   | 3,188          | 38.8  | 31.9        | 1,427   | -6.89   | (-8.58, -5.20)          | <0.001                                |
| Maryland*             | 39,587  | 39,509           | 16,189  | 16,175         | 40.9  | 40.9        | -14   | 0.05  | (-0.64, 0.73)           | 0.942                                 |
| Massachusetts*        | 78,900  | 71,330           | 35,983  | 31,979         | 45.6  | 44.8        | -4,004  | -0.77   | (-1.28, -0.27)          | 0.005                                 |
| Michigan*             | 91,704  | 82,949           | 28,405  | 25,297         | 31.0  | 30.5        | -3,108  | -0.48   | (-0.91, -0.04)          | 0.048                                 |
| Minnesota*            | 39,213  | 36,648           | 13,417  | 12,474         | 34.2  | 34.0        | -943  | -0.18   | (-0.85, 0.50)           | 0.696                                 |
| Mississippi           | 10,632  | 15,603           | 1,523   | 1,896          | 14.3  | 12.2        | 373   | -2.17   | (-3.01, -1.33)          | <0.001                                |
| Missouri              | 26,749  | 26,017           | 7,209   | 7,213          | 27.0  | 27.7        | 4   | 0.77  | (0.01, 1.53)            | 0.069                                 |

Table G.8 (continued)

| State          | Number of beneficiaries with a SUD who received services in an inpatient or residential setting |         | Number of Medicaid beneficiaries treated for a SUD who received an inpatient or a residential treatment and received an outpatient or a community-based follow-up within 30 days of discharge |        | Percentage of Medicaid beneficiaries treated for a SUD who received an inpatient or a residential treatment and received an outpatient or a community-based follow-up within 30 days of discharge |      | Difference in the number Medicaid beneficiaries treated for a SUD who received an inpatient or residential treatment and received an outpatient or community-based follow-up within 30 days of discharge, 2020–2019 | Difference in percentage, 2020–2019 (percentage points) | 95% confidence interval | Adjusted $p$ -value <sup>#</sup> |
|----------------|---|---------|---|--------|---|------|---|---|-------------------------|----------------------------------|
|                | 2019  | 2020    | 2019  | 2020   | 2019  | 2020 |   |   |                         |                                  |
| Montana*       | 10,455  | 9,711   | 3,436   | 3,313  | 32.9  | 34.1 | -123  | 1.25  | (-0.05, 2.56)           | 0.083                            |
| Nebraska       | 4,373   | 7,420   | 812   | 1,384  | 18.6  | 18.7 | 572   | 0.08  | (-1.37, 1.54)           | 0.942                            |
| Nevada*        | 23,785  | 23,391  | 6,308   | 6,774  | 26.5  | 29.0 | 466   | 2.44  | (1.63, 3.25)            | <0.001                           |
| New Hampshire* | 4,974   | 6,731   | 1,797   | 2,910  | 36.1  | 43.2 | 1,113   | 7.10  | (5.32, 8.89)            | <0.001                           |
| New Jersey*    | 38,061  | 36,389  | 10,435  | 11,317 | 27.4  | 31.1 | 882   | 3.68  | (3.03, 4.34)            | <0.001                           |
| New Mexico*    | 20,676  | 21,075  | 6,573   | 6,881  | 31.8  | 32.7 | 308   | 0.86  | (-0.04, 1.76)           | 0.083                            |
| New York*      | 171,322   | 154,029 | 59,221  | 52,632 | 34.6  | 34.2 | -6,589  | -0.40   | (-0.72, -0.07)          | 0.028                            |
| North Carolina | 55,359  | 54,410  | 10,784  | 10,087 | 19.5  | 18.5 | -697  | -0.94   | (-1.41, -0.48)          | <0.001                           |
| North Dakota*  | 3,318   | 4,386   | 1,048   | 1,426  | 31.6  | 32.5 | 378   | 0.93  | (-1.18, 3.03)           | 0.466                            |
| Ohio*          | 147,724   | 141,884 | 56,747  | 54,783 | 38.4  | 38.6 | -1,964  | 0.20  | (-0.16, 0.55)           | 0.347                            |
| Oklahoma       | 22,255  | 19,965  | 3,080   | 2,665  | 13.8  | 13.3 | -415  | -0.49   | (-1.15, 0.16)           | 0.182                            |
| Oregon*        | 32,610  | 34,492  | 13,112  | 12,860 | 40.2  | 37.3 | -252  | -2.92   | (-3.66, -2.19)          | <0.001                           |
| Pennsylvania*  | 105,556   | 97,504  | 24,978  | 22,981 | 23.7  | 23.6 | -1,997  | -0.09   | (-0.46, 0.28)           | 0.696                            |
| Puerto Rico*   | 5,206   | 5,283   | 614   | 806    | 11.8  | 15.3 | 192   | 3.46  | (2.16, 4.77)            | <0.001                           |
| Rhode Island*  | 3,876   | 4,701   | 2,050   | 2,208  | 52.9  | 47.0 | 158   | -5.92   | (-8.04, -3.80)          | <0.001                           |
| South Carolina | 18,662  | 19,785  | 3,471   | 3,174  | 18.6  | 16.0 | -297  | -2.56   | (-3.31, -1.80)          | <0.001                           |
| South Dakota   | 3,554   | 3,479   | 591   | 565    | 16.6  | 16.2 | -26   | -0.39   | (-2.12, 1.34)           | 0.727                            |
| Tennessee      | DQ  | DQ      | DQ  | DQ     | DQ  | DQ   | DQ  | DQ  | DQ                      | DQ                               |
| Texas          | 66,163  | 59,586  | 10,069  | 9,180  | 15.2  | 15.4 | -889  | 0.19  | (-0.21, 0.59)           | 0.436                            |
| Utah*          | 11,390  | 16,171  | 4,213   | 6,713  | 37.0  | 41.5 | 2,500   | 4.52  | (3.36, 5.69)            | <0.001                           |
| Vermont*       | 5,679   | 5,086   | 2,242   | 1,796  | 39.5  | 35.3 | -446  | -4.17   | (-5.99, -2.34)          | <0.001                           |
| Virginia*      | 38,021  | 44,830  | 8,907   | 11,005 | 23.4  | 24.5 | 2,098   | 1.12  | (0.54, 1.70)            | <0.001                           |
| Virgin Islands | 153   | 183     | 15  | 15     | 9.8   | 8.2  | 0   | -1.61   | (-7.77, 4.56)           | 0.696                            |
| Washington*    | 49,221  | 51,651  | 19,142  | 19,390 | 38.9  | 37.5 | 248   | -1.35   | (-1.95, -0.75)          | <0.001                           |
| West Virginia* | 20,657  | 20,886  | 4,393   | 6,284  | 21.3  | 30.1 | 1,891   | 8.82  | (7.99, 9.66)            | <0.001                           |
| Wisconsin      | 31,450  | 30,099  | 9,704   | 9,642  | 30.9  | 32.0 | -62   | 1.18  | (0.45, 1.91)            | 0.003                            |
| Wyoming        | 1,965   | 1,759   | 325   | 291    | 16.5  | 16.5 | -34   | 0.00  | (-2.39, 2.39)           | 0.997                            |

Source: Analysis of the 2020 preliminary TAF release 1 and 2019 TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits. Source Table F.1: Progression of care for Medicaid beneficiaries treated for a SUD who received services in an inpatient or a residential setting.

Note: The U.S. average is an overall average across the population in the states included in the table.

Table G.8 (continued)

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims. Appendix B includes detailed information on how we identified SUD treatment.

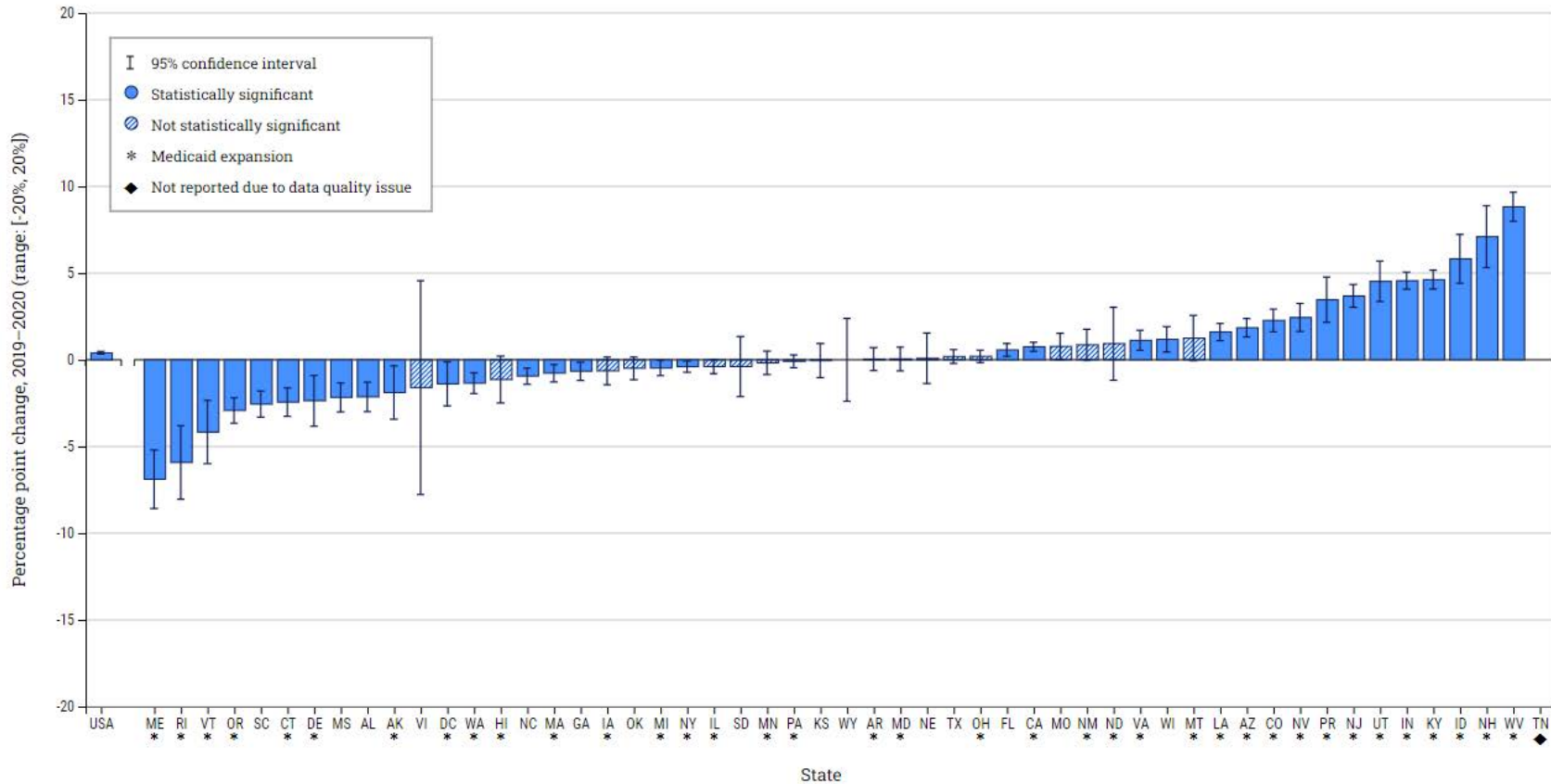
The 2019 results presented in this section differ slightly from the results published in the 2019 SUD Data Book due to slight changes in the methodology. To ensure results are comparable from year to year, the 2019 results were recalculated using the 2020 methodology. For more information, refer to Chapter IV: Methods.

\* States that implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

# Adjusted for multiple comparisons using the Benjamini-Hochberg correction.

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2019 and 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.

**Figure G.8. Change in the percentage of Medicaid beneficiaries treated for a SUD who received an inpatient or residential treatment and received an outpatient or a community-based follow-up within 30 days of discharge, 2019 to 2020**



Source: Analysis of the 2020 preliminary TAF release 1 and 2019 TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits. Source Table F.1: Progression of care for Medicaid beneficiaries treated for a SUD who received services in an inpatient or a residential setting.

Note: The U.S. average is an overall average across the population in the states included in the table.

To identify beneficiaries with a SUD, we used National Drug Codes; diagnosis codes; and select procedure, place of service, type of bill, and revenue center codes on Medicaid claims. Appendix B includes detailed information on how we identified SUD treatment.

The 2019 results presented in this section differ slightly from the results published in the 2019 SUD Data Book due to slight changes in the methodology. To ensure results are comparable from year to year, the 2019 results were recalculated using the 2020 methodology. For more information, refer to Chapter IV: Methods.

\* States that implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020. Idaho and Utah expanded Medicaid between January 1, 2019, and January 1, 2020.

Figure G.8 (*continued*)

◆ Tennessee was excluded from the 2020 report because the state had a very low number of Medicaid claims from all four claims files that linked to the enrollment file in 2019 and 2020, making the state's data unusable.

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**APPENDIX A:**

**SUPPORT ACT, SECTION 1015 OPIOID ADDICTION TREATMENT PROGRAMS  
ENHANCEMENT**

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## H. R. 6—28

Commission shall make publicly available a report containing the results of the study conducted under subsection (a).

**SEC. 1015. OPIOID ADDICTION TREATMENT PROGRAMS ENHANCEMENT.**

(a) T–MSIS SUBSTANCE USE DISORDER DATA BOOK.—

(1) IN GENERAL.—Not later than the date that is 12 months after the date of enactment of this Act, the Secretary of Health and Human Services (in this section referred to as the “Secretary”) shall publish on the public website of the Centers for Medicare & Medicaid Services a report with comprehensive data on the prevalence of substance use disorders in the Medicaid beneficiary population and services provided for the treatment of substance use disorders under Medicaid.

(2) CONTENT OF REPORT.—The report required under paragraph (1) shall include, at a minimum, the following data for each State (including, to the extent available, for the District of Columbia, Puerto Rico, the United States Virgin Islands, Guam, the Northern Mariana Islands, and American Samoa):

(A) The number and percentage of individuals enrolled in the State Medicaid plan or waiver of such plan in each of the major enrollment categories (as defined in a public letter from the Medicaid and CHIP Payment and Access Commission to the Secretary) who have been diagnosed with a substance use disorder and whether such individuals are enrolled under the State Medicaid plan or a waiver of such plan, including the specific waiver authority under which they are enrolled, to the extent available.

(B) A list of the substance use disorder treatment services by each major type of service, such as counseling, medication-assisted treatment, peer support, residential treatment, and inpatient care, for which beneficiaries in each State received at least 1 service under the State Medicaid plan or a waiver of such plan.

(C) The number and percentage of individuals with a substance use disorder diagnosis enrolled in the State Medicaid plan or waiver of such plan who received substance use disorder treatment services under such plan or waiver by each major type of service under subparagraph (B) within each major setting type, such as outpatient, inpatient, residential, and other home-based and community-based settings.

(D) The number of services provided under the State Medicaid plan or waiver of such plan per individual with a

substance use disorder diagnosis enrolled in such plan or waiver for each major type of service under subparagraph (B).

(E) The number and percentage of individuals enrolled in the State Medicaid plan or waiver, by major enrollment category, who received substance use disorder treatment through—

(i) a medicaid managed care entity (as defined in section 1932(a)(1)(B) of the Social Security Act (42 U.S.C. 1396u–2(a)(1)(B))), including the number of such individuals who received such assistance through a prepaid inpatient health plan or a prepaid ambulatory health plan;

(ii) a fee-for-service payment model; or

(iii) an alternative payment model, to the extent available.

(F) The number and percentage of individuals with a substance use disorder who receive substance use disorder treatment services in an outpatient or home-based and community-based setting after receiving treatment in an inpatient or residential setting, and the number of services received by such individuals in the outpatient or homebased and community-based setting.

(3) ANNUAL UPDATES.—The Secretary shall issue an updated version of the report required under paragraph (1) not later than January 1 of each calendar year through 2024.

(4) USE OF T–MSIS DATA.—The report required under paragraph (1) and updates required under paragraph (3) shall—

(A) use data and definitions from the Transformed Medicaid Statistical Information System (“T–MSIS”) data set that is no more than 12 months old on the date that the report or update is published; and

(B) as appropriate, include a description with respect to each State of the quality and completeness of the data and caveats describing the limitations of the data reported to the Secretary by the State that is sufficient to communicate the appropriate uses for the information.

(b) MAKING T–MSIS DATA ON SUBSTANCE USE DISORDERS AVAILABLE TO RESEARCHERS.—

(1) IN GENERAL.—The Secretary shall publish in the Federal Register a system of records notice for the data specified in paragraph (2) for the Transformed Medicaid Statistical Information System, in accordance with section 552a(e)(4) of title 5, United States Code. The notice shall outline policies that protect the security and privacy of the data that, at a minimum, meet the security and privacy policies of

SORN 09–70–0541 for the Medicaid Statistical Information System.

(2) REQUIRED DATA.—The data covered by the systems of records notice required under paragraph (1) shall be sufficient for researchers and States to analyze the prevalence of substance use disorders in the Medicaid beneficiary population and the treatment of substance use disorders under Medicaid across all States (including the District of Columbia, Puerto Rico, the United States Virgin Islands, Guam, the Northern Mariana Islands, and American Samoa), forms of treatment, and treatment settings.

(3) INITIATION OF DATA-SHARING ACTIVITIES.—Not later than January 1, 2019, the Secretary shall initiate the data-sharing activities outlined in the notice required under paragraph (1).

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**APPENDIX B:**

**SUPPLEMENTARY TECHNICAL INFORMATION**

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## Data source

Since 1999, the federal government has required Medicaid state agencies to report Medicaid claims and eligibility data through MSIS, the first national, uniform, and comprehensive Medicaid data collection system. In 2015,<sup>115</sup> MSIS was replaced by T-MSIS, or “Transformed” MSIS, representing the next generation of national Medicaid data. T-MSIS enhanced and expanded on MSIS in a number of ways. The data are more detailed (more files and data elements), and data files are submitted more frequently, among other enhancements. The TAF are built directly from the T-MSIS data files submitted by states. The TAF are more appropriate than the T-MSIS source data for analytic tasks because of the size, complexity, and frequency of updates to the T-MSIS data, which makes it very challenging to use for analytic purposes. Most importantly, the TAF reorganizes enrollment, claims, and managed care encounter records from their date of submission by the state to the date of enrollment and date of service. This reorganization facilitates identifying beneficiaries during a specific time period, such as a calendar year, and aligning service provision with a beneficiary’s enrollment in Medicaid.

To create the tables in this SUD Data Book, we relied on the following files in the TAF:

**Annual Demographic and Eligibility (DE) file:** contains demographic, eligibility, and enrollment information for all Medicaid- or CHIP-eligible beneficiaries enrolled for at least one day during the calendar year.

**Inpatient (IP) file:** contains inpatient hospital institutional claims and encounters.

**Long-Term (LT) file:** contains long-term care institutional claims and encounters, including claims from nursing facilities, intermediate care facilities that provide services for individuals with intellectual disabilities, mental health facilities, and independent (free-standing) psychiatric wings of acute care hospitals.

**Other Services (OT) file:** contains all claims and encounters for services not from an inpatient facility, long-term care facility, or pharmacy. These services include but are not limited to physician services; outpatient hospital services; dental services; other physician services, such as those provided by chiropractors, podiatrists, psychologists, optometrists, and so on; clinic services, laboratory services, radiology services, home health services, and personal assistance services. The file also includes managed care capitation payments.

**Pharmacy (RX) file:** contains claims for drugs or other services provided by an outpatient pharmacy.

## Excluded states and data quality issues

This analysis used the preliminary 2020 TAF enrollment and claims data (release 1). The TAF release 1 files include the 50 states, the District of Columbia, Puerto Rico, and the Virgin

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<sup>115</sup> States began transitioning their reporting to T-MSIS as early as 2011; all states and the District of Columbia completed the transition to T-MSIS by 2015. T-MSIS cutover dates for each state are available in the Resources section of *DQ Atlas* under the overview and availability of the TAF data section (CMS n.d.). Available at <https://www.medicaid.gov/medicaid/data-and-systems/downloads/macbis/taf-rif-availability-chart.pdf>.

Islands. One state (Tennessee) was not included in the analysis. This version of the TAF contains the same amount of claims run-out as the versions of TAF used for previous SUD Data Books. The preliminary version of the 2020 TAF data has at least 6 months of run-out for each month of the year. The time between the date of service and when a fully adjudicated claim for that service appears in the data is known as the run-out period. Some claims, particularly those for complex sets of services, take longer to appear in the data without additional adjustments and corrections; these types of claims, particularly when the service occurred in the last months of the calendar year, may not be fully represented in the data. Although the preliminary TAF data are not fully mature because states continue to submit service use records, the vast majority of records have been received within 6 months after the end of the service date. Once the TAF data for a year are fully mature and include at least 12 months of run-out, CMS releases the corresponding final TAF RIF. The final TAF RIF was not available at the time of analysis.

The COVID-19 PHE may have impacted the completeness of TAF claims data. Ordinarily, pharmacy records are nearly complete within 6 months, while more complex inpatient and long-term care records require additional months to reach completeness. Due to staffing shortages and office closures, especially at the beginning of the pandemic, the rate at which providers submitted service use records to the state, and the rate at which states submitted service use records to CMS, may have slowed during the COVID-19 PHE.

The TAF was designed to present a comprehensive, current, and reliable picture of the Medicaid program across the United States. Several states had data quality issues that did not prevent them from being included in the analyses but may affect the validity of the results. Appendix Table B.1 lists these less severe but still problematic data quality issues by state. We assessed four measures of data quality:

- 1. Number of Medicaid beneficiaries in the DE file.** To assess this number, we compared the TAF-based counts of Medicaid beneficiaries who had full or comprehensive benefits with the states' reports from the Eligibility and Enrollment Performance Indicator (PI) data set.<sup>116</sup> To examine enrollment information in the DE file, we compared monthly counts of Medicaid beneficiaries who had comprehensive benefits according to the 2020 DE file to monthly counts from the PI data. We evaluated the percentage difference between the TAF-based enrollment counts and the PI data, averaged across all 12 months. When the difference between these two data sets was greater than 20 percent and less than or equal to 50 percent, we had a high concern about the quality of the state's TAF data. States are considered to have unusable data when the difference between the TAF-based count and the benchmark is greater than 50 percent.
- 2. Percentage of claims records that do not match to a Medicaid beneficiary in the DE file.** To assess this percentage, we calculated the percentage of FFS claims and managed care encounter records that did not have an associated enrollment record during the month of service and the percentage of Medicaid beneficiaries who had a claim during the service month and no associated enrollment record. States in which more than 20 percent of service

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<sup>116</sup> PI data represent enrollment in full or comprehensive benefits in Medicaid or CHIP by state at a single point in time during the enrollment period. More information is available at <https://www.medicaid.gov/medicaid/program-information/medicaid-and-chip-enrollment-data/report-highlights/index.html>.

use records did not link to eligibility records during the month of service were deemed to be unusable data for this report. We had a high level of concern for the data in states in which between 10 and 20 percent of service use records did not link to eligibility records during the month of service.

- 3. Volume of claims in three of the four claims files.** To assess this volume, we compared by state the number of claim headers, claim lines, and the ratio of headers to lines to the national median. To examine unexpected claim volumes, we computed the total volume of header records, total volume of line records, and average number of lines per header. We compared each of these three measures to the national median for the IP, OT, and RX files. The LT file was excluded because we rely most heavily on the IP, OT, and RX files to identify Medicaid beneficiaries treated for a SUD and the services they received. Additionally, wide variation in the volume of LT claims may be a result of the differences between benefit packages in some states rather than a data quality issue. States in which any of the three measures fell below 10 percent of the national median were deemed to have incomplete data that were unusable for analysis. We had a high level of concern for the data in states in which any of these measures was less than 50 percent or more than 200 percent of the national median.
- 4. Valid diagnosis codes.** To assess this validity, we evaluated missingness in the diagnosis code field on claims in the IP and OT files. To examine the severity of data quality issues related to diagnosis code, we calculated the percentage of header records in the IP and OT claims files that had a valid ICD-10 diagnosis code in the field for the primary diagnosis code. If a valid ICD-10 diagnosis code was not available, we calculated the percentage of records for which the field was missing, had an ICD-9 diagnosis code, or had another non-missing but invalid value. States were categorized as high concern if 50 to 80 percent of their records had a valid ICD-10 primary diagnosis code. States in which less than 50 percent of the records had a valid ICD-10 primary diagnosis code were considered to have unusable data.

More information on these and other data quality measures is available in the *DQ Atlas* (CMS n.d.).

**Appendix Table B.1. Data quality issues by state in 2020**

| State                | Medicaid enrollment | Linking of MSIS IDs from enrollment and claims files | Volume of claims |              |         | Missing diagnosis code (OT and IP files) |
|----------------------|---------------------|--|------------------|--------------|---------|--|
|                      |                     |  | IP file          | OT file      | RX file |  |
| Alabama              | —                   | —  | —                | —            | —       | —  |
| Alaska               | —                   | —  | —                | —            | —       | —  |
| Arizona              | —                   | —  | —                | —            | —       | —  |
| Arkansas             | —                   | —  | —                | —            | —       | —  |
| California           | —                   | —  | —                | —            | —       | —  |
| Colorado             | —                   | —  | —                | —            | —       | —  |
| Connecticut          | —                   | —  | High concern     | —            | —       | —  |
| Delaware             | —                   | —  | —                | —            | —       | —  |
| District of Columbia | —                   | —  | —                | —            | —       | High concern (OT)                        |
| Florida              | —                   | —  | —                | —            | —       | —  |
| Georgia              | —                   | —  | —                | —            | —       | —  |
| Hawaii               | —                   | —  | —                | —            | —       | —  |
| Idaho*               | —                   | —  | —                | —            | —       | —  |
| Illinois             | —                   | —  | —                | —            | —       | —  |
| Indiana              | —                   | —  | —                | —            | —       | —  |
| Iowa                 | —                   | —  | —                | —            | —       | —  |
| Kansas               | —                   | —  | —                | —            | —       | —  |
| Kentucky             | —                   | —  | —                | —            | —       | —  |
| Louisiana            | —                   | —  | —                | —            | —       | —  |
| Maine                | —                   | —  | —                | —            | —       | —  |
| Maryland             | —                   | —  | —                | —            | —       | —  |
| Massachusetts        | —                   | —  | High concern     | High concern | —       | —  |
| Michigan             | —                   | —  | —                | —            | —       | —  |
| Minnesota            | —                   | —  | —                | High concern | —       | —  |
| Mississippi          | —                   | —  | —                | —            | —       | —  |
| Missouri             | —                   | —  | —                | —            | —       | —  |
| Montana              | —                   | —  | —                | —            | —       | —  |
| Nebraska             | —                   | —  | —                | —            | —       | —  |
| Nevada               | —                   | —  | —                | —            | —       | —  |
| New Hampshire        | —                   | —  | —                | —            | —       | —  |
| New Jersey           | —                   | —  | —                | High concern | —       | —  |
| New Mexico           | —                   | —  | —                | —            | —       | —  |
| New York             | —                   | —  | High concern     | —            | —       | —  |

Appendix Table B.1 (continued)

| State          | Medicaid enrollment | Linking of MSIS IDs from enrollment and claims files | Volume of claims |              |              | Missing diagnosis code (OT and IP files) |
|----------------|---------------------|--|------------------|--------------|--------------|--|
|                |                     |  | IP file          | OT file      | RX file      |  |
| North Carolina | —                   | —  | —                | —            | High concern | —  |
| North Dakota   | —                   | —  | —                | —            | —            | —  |
| Ohio           | —                   | —  | —                | —            | —            | —  |
| Oklahoma       | —                   | —  | High concern     | —            | —            | —  |
| Oregon         | —                   | —  | —                | —            | —            | —  |
| Pennsylvania   | —                   | —  | —                | —            | —            | —  |
| Puerto Rico    | Unclassified        | —  | High concern     | High concern | —            | —  |
| Rhode Island   | —                   | —  | High concern     | —            | —            | —  |
| South Carolina | —                   | —  | —                | —            | —            | —  |
| South Dakota   | —                   | —  | —                | —            | —            | —  |
| Tennessee      | —                   | Unusable   | —                | —            | —            | High concern (IP)                        |
| Texas          | —                   | —  | —                | —            | —            | —  |
| Utah*          | —                   | —  | —                | —            | —            | —  |
| Vermont        | —                   | —  | —                | —            | —            | —  |
| Virgin Islands | Unclassified        | —  | —                | High concern | High concern | —  |
| Virginia       | —                   | —  | —                | —            | —            | —  |
| Washington     | —                   | —  | —                | —            | —            | —  |
| West Virginia  | —                   | —  | —                | —            | —            | —  |
| Wisconsin      | —                   | —  | —                | —            | —            | —  |
| Wyoming        | —                   | —  | —                | —            | —            | —  |

Source: Analysis of the 2020 preliminary TAF release 1; DE, OT, IP, and RX files.

Notes: Dashes represent a low or medium level of concern about the quality of the data.

A data quality assessment of “unclassified” indicates that the measure is not applicable to a state, there were not enough TAF or benchmark data for a reliable analysis, or a methodological issue prevented a state’s data from being classified as unusable, low, medium, or high concern. Eligibility and Enrollment Performance Indicator (PI) data are not available for Puerto Rico and the Virgin Islands to evaluate the measure of Medicaid enrollment.

## Identifying beneficiaries with a SUD

This SUD Data Book includes individuals ages 12 and older who were enrolled in Medicaid for at least one day in 2020;<sup>117</sup> the SUD Data Book excludes Medicaid Expansion CHIP and separate CHIP beneficiaries enrolled only in these programs throughout the year.<sup>118, 119</sup> To be identified as having a SUD (see methods below), a beneficiary must have received SUD services. Hence, the counts of beneficiaries presented in this SUD Data Book underestimate the true prevalence of SUD because the reported counts exclude beneficiaries with a SUD who do not seek treatment.

The SUD Data Book focuses on Medicaid beneficiaries eligible for the full range of benefits, or comprehensive benefits. We excluded Medicaid beneficiaries eligible for only partial (also called limited or restricted) benefits from the analysis because they are often not eligible for SUD treatment services.

*Data quality note:* Incomplete, inconsistent, or incorrect reporting of Medicaid enrollment, restricted benefits, or age may result in an incorrect estimate of the number of beneficiaries in Medicaid.

To identify beneficiaries treated for a SUD, we first identified claims related to SUD treatment<sup>120</sup> that had (1) a diagnosis code indicating a SUD and (2) a relevant type of bill, revenue, or procedure code. We then determined whether a beneficiary had enough claims to be identified as having a SUD. In general, a beneficiary was identified as having a SUD if he or she had (1) one qualifying inpatient claim<sup>121</sup> for SUD treatment, (2) two outpatient or long-term care claims for SUD treatment on different days, or (3) one pharmacy claim for MAT.<sup>122, 123</sup>

*Data quality note:* Missing or invalid diagnosis codes make it difficult to identify Medicaid beneficiaries with a SUD or any specific type of medical condition. Additionally, a low volume of claims in TAF may result in an underestimate of the number of Medicaid beneficiaries with a SUD.

<sup>117</sup> This SUD Data Book includes individuals eligible for Medicaid coverage only, as well as those dually eligible for Medicare and Medicaid.

<sup>118</sup> Because the SUD Data Book includes beneficiaries enrolled in Medicaid for one or more months in 2020, some beneficiaries enrolled in both Medicaid and CHIP during 2020 are also included.

<sup>119</sup> This age group is consistent with the age range used in the National Survey of Drug Use and Health; please see <https://www.samhsa.gov/data/report/2020-methodological-summary-and-definitions>.

<sup>120</sup> The SUD Data Book does not include lab or transportation claims because they can cause beneficiaries to be incorrectly identified as having a SUD.

<sup>121</sup> Starting in the 2020 SUD Data Book, inpatient and long-term care claims are identified based on type of bill code, billing provider taxonomy code, place of service code, and revenue codes values. This approach applies the methodology used when assigning TAF records to the new [Federally Assigned Service Category \(FASC\)](#) (TAF Methodology Brief #5241). By using the FASC to categorize claims instead of their source file, we enhance the accuracy of the categorization of inpatient and long-term services. For example, some states erroneously report long-term care claims to the inpatient file and inpatient claims to the long-term care file. Additionally, the consistency of service categorization across states allows for more accurate reporting of the count of beneficiaries with a SUD on a state-by-state basis and the services they receive. In the 2017, 2018, and 2019 SUD Data Books, inpatient claims were identified as all claims in the IP file, and long-term care services as claims in the LT file.

<sup>122</sup> This approach uses SUD Tool 1, Identifying Beneficiaries with a SUD (identification tool), developed for CMS's Innovation Accelerator Program. The SUD Technical Specifications and SUD Reference Codes used in SUD Tool 1 are available at <https://www.medicaid.gov/medicaid/data-systems/macbis/medicaid-chip-research-files/transformed-medicaid-statistical-information-system-t-msis-analytic-files-taf/index.html>.

<sup>123</sup> The prior SUD Data Books allow beneficiaries to be identified as having a SUD based only on a prescription for methadone. However, this approach risks including beneficiaries that use methadone for purposes other than the treatment of a SUD, such as for pain relief. Beginning in

## Defining enrollment categories

We grouped Medicaid beneficiaries treated with a SUD into five enrollment categories: (1) adults; (2) children; (3) pregnant; (4) aged, blind, disabled; and (5) expansion adults, based on eligibility group in the TAF. Because some beneficiaries change eligibility groups during the year (children may age into adulthood or adults into the aged group), each beneficiary's categorization was based on the group that accounted for the most enrolled months during 2020. If two or more groups tied, we used the eligibility group of the beneficiary's final month enrolled in Medicaid in 2020. Beneficiaries for whom information on the eligibility group code was missing were included in the Unknown category. We also provide a breakdown of beneficiaries eligible for Medicaid on the basis of disability by age group. Beneficiaries were identified as eligible for Medicaid on the basis of disability if the beneficiary had an eligibility group code associated with disability for the majority of months in 2020.

*Data quality note:* Missing eligibility information makes it impossible to group some beneficiaries into the major enrollment categories used for the SUD Data Book. Conflicting information between eligibility group and Medicaid enrollment information from other variables also affects the accuracy with which individuals can be placed in each major enrollment category.

## Identifying types of settings for SUD treatment

We grouped treatment services into five types of settings: inpatient, residential, outpatient, home and community based. Inpatient services were identified using type of bill, billing provider taxonomy, place of service codes that map to an inpatient setting, and revenue codes for inpatient psychiatric services. Residential services were identified using the type of bill code and billing provider taxonomy codes that map to a residential setting.<sup>124</sup> Because the OT file includes claims for services delivered in all settings, the logic for grouping those services by setting is more complex. For records from institutional settings in the OT file, we relied either on the type of bill to classify the treatment setting or on revenue codes if the type of bill was missing. For professional claims in the OT file, we relied either on the place of service to classify the treatment setting, or the procedure codes if the place of service code was missing. Home-based services were identified using type of bill and revenue codes that map to home health services, and place of service code for home setting. For community-based services, we relied on procedure codes that map to community services. Outpatient services that were not already mapped to home- or community-based services are categorized to the outpatient setting. By design, all services in the RX file are delivered in an outpatient (that is, pharmacy) setting.

*Data quality note:* Missing place of service and type of bill makes it impossible to determine the setting in which a service was delivered.

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the 2020 SUD Data Book, claims for methadone from the RX file will be excluded from the method to identify beneficiaries with a SUD to avoid counting beneficiaries using methadone for reasons other than to treat a SUD. Beneficiaries with claims for methadone on the RX file are only identified as having a SUD if they meet any of the other criteria for identifying beneficiaries with a SUD. Claims with National Drug Codes for methadone are included in the definition of MAT for the purpose of counting services, for beneficiaries identified as having a SUD.

<sup>124</sup> In the 2017, 2018, and 2019 SUD Data Books, all services in the IP file were mapped to the inpatient setting, and all services in the LT file were mapped to the residential setting. For the 2020 SUD Data Book, the methodology was changed to the one described and matches the methodology used to assign TAF claims records to the new [Federally Assigned Service Category](#) (TAF Methodology Brief #5241).

## Defining and counting SUD treatment services

The tables in this SUD Data Book include counts of beneficiaries who received certain treatment services (Table C.1) and, for a subset of those services, a count of services provided by service type (Table D.1). The services that we do not present in Table D.1 are detoxification, medication management, peer support, and pharmacotherapy. The counts were constructed only for beneficiaries who received these services. For some services, we counted claims, whereas for others we counted the number of days. We used this method to account for variation in billing practices across both states and service types. To identify the SUD treatment services, we relied on National Drug Codes, procedure codes, and revenue codes, and on diagnosis codes to identify them as being for a SUD.

*Data quality note:* Missing, erroneous, or state-specific procedure codes and revenue center codes make it difficult to count services received by Medicaid beneficiaries with a SUD.

The following is the list of services and how each was counted.

- Consultation (claims)
- Counseling (claims)
- Emergency services (claims)
- Inpatient care (days)
- MAT (days)<sup>125</sup>
- Observation care (days)
- Partial hospitalization (days)
- Physician services (claims)
- Screening/assessment (claims)
- Treatment program (days)

## Identifying the care delivery system

The SUD Data Book reports on the number and percentage of beneficiaries receiving SUD treatment services by the two major delivery systems state Medicaid programs use—managed care or FFS (Table E.1).<sup>126</sup> Beneficiaries were counted as receiving SUD treatment services through a managed care entity if they (1) had one or more encounter records for SUD

*Data quality note:* If a high percentage of claims that could not be linked to enrollment information disproportionately represent a particular claim type (for instance, managed care encounters), the estimates of the distribution of services across FFS and managed care could be adversely affected.

<sup>125</sup> For MAT days, we counted the number of unique days on which a beneficiary filled a prescription. For example, a beneficiary filling two naltrexone prescriptions for the same seven-day period would count as seven days.

<sup>126</sup> Beneficiaries could be counted as having services delivered through both managed care and FFS if they had separate claims that met each criterion.



treatment or (2) had a claim for SUD treatment associated with a managed care plan identification number. Beneficiaries were counted as receiving SUD treatment services through FFS if they had an FFS claim for SUD treatment not associated with a managed care plan identification number.

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**APPENDIX C:**

**COMPARISON OF KEY FINDINGS TO OTHER DATA SOURCES**

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To provide additional context for the proportion of Medicaid beneficiaries treated for a SUD, we compared our findings with other payer groups, as shown in Appendix Table C.1. A larger share of Medicaid beneficiaries nationwide received treatment in 2020 for any SUD (8.1 percent) compared with Medicare beneficiaries (3.5 percent) and privately insured individuals (0.9 percent). However, the share of Medicaid beneficiaries treated for an alcohol use disorder (1.9 percent) was similar to the share of Medicare beneficiaries treated for this disorder (2.1 percent). A smaller share of privately insured individuals received treatment for an alcohol use disorder (0.6 percent).

The results presented below are based on (1) the application of the Chronic Conditions Warehouse (CCW) chronic conditions algorithms to Medicare administrative data<sup>127</sup> and (2) data from the National Survey on Drug Use and Health (NSDUH) (SAMHSA 2021b). These two data sources are based on methods that differ from the method used in the SUD Data Book; as a result, the comparisons shown in Appendix Table C.1 should be interpreted with caution. For instance, the CCW algorithms rely on ICD-10 diagnosis and procedure codes, whereas the SUD Data Book includes these codes as well as a more exhaustive set of data elements, including type of bill, revenue, National Drug Codes, and procedure codes. The NSDUH is a nationally representative survey in which self-reported data are used to obtain treatment rates for a SUD, whereas the TAF include all Medicaid beneficiaries and treatment rates are based on actual services rendered. In addition, the NSDUH estimates of illicit drug or alcohol use and the CCW rates of drug/substance misuse do not include TUD, but the SUD Data Book does so.

**Appendix Table C.1. Comparison of SUD and alcohol use disorder treatment rates in the U.S. in the Medicaid, Medicare, and commercially/privately insured populations**

|                                      | Percentage of individuals who received treatment for a SUD <sup>a</sup> | Percentage of individuals who received treatment for alcohol use |
|--------------------------------------|---|--|
| Medicaid: SUD Data Book              | 8.1   | 1.9  |
| Medicare: CCW algorithm <sup>b</sup> | 3.5   | 2.1  |
| Commercial/private: NSDUH            | 0.9   | 0.6  |

Source: SUD Data Book, Table A.1.i; Medicare-only beneficiaries of any age, available at [https://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/Chronic-Conditions/Chartbook\\_Charts](https://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/Chronic-Conditions/Chartbook_Charts); NSDUH Table 5.13.B, available at <https://www.samhsa.gov/data/report/2020-nsduh-detailed-tables>.

<sup>a</sup> SUD is defined differently across the three data sources. The methods section describes how any SUD is measured in the SUD Data Book. The Medicare CCW algorithm measures drug/substance misuse, and NSDUH measures treatment for illicit drugs or alcohol. Neither the Medicare CCW algorithm nor the NSDUH includes tobacco use. The NSDUH does not include individuals residing in institutional settings.

<sup>b</sup> The most recent data available for the Medicare CCW algorithm at the time of this writing were from 2018.

<sup>127</sup> CCW chronic conditions algorithms are available at <https://www.ccwdata.org/web/guest/condition-categories>. Accessed May 16, 2022.

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**APPENDIX D:**

**OPIOID USE DISORDER TABLES**

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**Appendix Table D.1. Number and percentage of Medicaid beneficiaries treated for an OUD and another SUD in 2020, by disorder**

- In the states included in this analysis, 1.6 million Medicaid beneficiaries were treated for an OUD in 2020. Eight percent of these beneficiaries (126,757 beneficiaries) were in New York, followed by Pennsylvania (122,252 beneficiaries), California (121,887 beneficiaries), and Ohio (118,446 beneficiaries).
- Tobacco use most frequently co-occurred with OUD (27 percent of beneficiaries with an OUD), followed by alcohol use (20 percent of beneficiaries with an OUD) and stimulant use disorder (17 percent of beneficiaries with an OUD).

**Appendix Table D.2. Number and percentage of Medicaid beneficiaries treated for an OUD in 2020, by major enrollment category**

- Across the major enrollment categories, the expansion adults had the largest proportion of beneficiaries treated for an OUD (4 percent), followed by the adult enrollment category (3 percent) and the aged, blind, or disabled enrollment category (3 percent).

**Appendix Table D.3. Distribution of Medicaid beneficiaries treated for an OUD in 2020, by major enrollment category**

- Across states, beneficiaries in the expansion adult enrollment category accounted for the largest share of beneficiaries treated for an OUD (50 percent), followed by those in the aged, blind, or disabled enrollment category (24 percent) and the adult enrollment category (22 percent).
- In four states, the expansion adult enrollment category represented 70 percent or more of beneficiaries treated for an OUD (Connecticut [71 percent], Illinois [85 percent], Indiana [79 percent], and Montana [72 percent]).

**Appendix Table D.4. Number and percentage of Medicaid beneficiaries treated for an OUD in 2020, by age group and disability status**

- Five percent of Medicaid beneficiaries ages 19 to 64 who were eligible on the basis of disability in 2020 were treated for an OUD, compared with 4 percent of the same age group not eligible on the basis of disability.
- In three states, the proportion of Medicaid beneficiaries ages 19 to 64 who were eligible on the basis of disability in 2020 and treated for an OUD was more than 10 percent (Maryland, Massachusetts, and New Mexico).
- One percent of Medicaid beneficiaries ages 65 and older were treated for an OUD; similarly, less than 1 percent of children younger than 19 were treated for an OUD.

**Appendix Table D.5. Distribution of Medicaid beneficiaries treated for an OUD in 2020, by age group and disability status**

- Seventy-five percent of Medicaid beneficiaries who were treated for an OUD in 2020 were adults ages 19 to 64 not eligible for Medicaid on the basis of disability.

- Twenty-one percent of Medicaid beneficiaries who were treated for an OUD in 2020 were adults ages 19 to 64 eligible for Medicaid on the basis of disability.
- In four states, the percentage of adults ages 19 to 64 who received treatment for an OUD was greater for beneficiaries eligible for Medicaid on the basis of disability than for those not eligible on the basis of disability (Georgia, Mississippi, Missouri, and Texas). None of these states had expanded Medicaid by January 1, 2020.
- Three percent of beneficiaries treated for an OUD in 2020 were adults ages 65 and older; less than 1 percent were children under 19.

**Appendix Table D.6. SUD treatment service types not billed for Medicaid beneficiaries with an OUD in 2020, by state**

- As with the table for all beneficiaries with a SUD in 2020 (Table B.2), most states had at least one Medicaid beneficiary with an OUD who received each type of service. The exceptions were peer support and partial hospitalization, which fewer states provide to Medicaid beneficiaries.

**Appendix Table D.7. Number and percentage of Medicaid beneficiaries treated for an OUD in 2020, by service type**

- Approximately three-quarters (78 percent) of the beneficiaries treated for an OUD received MAT. This share varied substantially across the states, ranging from 93 percent in Rhode Island to 53 percent in Illinois. In all states and territories, more than 50 percent of the beneficiaries treated for an OUD received MAT.
- Across all states, 47 percent of beneficiaries treated for an OUD received physician services, 39 percent received counseling, 33 percent received emergency services, 27 percent received screening or an assessment, and 25 percent received inpatient care.
- Almost 4 percent of beneficiaries treated for an OUD received community support services nationwide. Although receipt of community support services was uncommon in most states, in the following states more than 10 percent received community support: Alaska (25 percent), Florida (26 percent), Massachusetts (12 percent), Missouri (22 percent), and Wyoming (14 percent). This finding is similar to the results for all beneficiaries treated for any SUD, shown in Table C.1.

**Appendix Table D.8. Number and percentage of Medicaid beneficiaries treated for an OUD in 2020, by service setting**

- Ninety-six percent of the Medicaid beneficiaries treated for an OUD received one or more services in an outpatient setting in 2020, which is higher than the share of Medicaid beneficiaries treated for any SUD who received services in this type of setting according to Table C.2 (78 percent).
- More than one-quarter (27 percent) of the beneficiaries treated for an OUD received one or more services in an inpatient setting, which is lower than the share of Medicaid beneficiaries treated for any SUD (42 percent). The District of Columbia and Florida had the highest rate

of beneficiaries treated for an OUD who received services in an inpatient setting (39 percent in each); Rhode Island had the lowest rate (15 percent).

- A combined 7 percent of beneficiaries treated for an OUD received services in a home- or community-based setting in 2020. In several states, the percentage of beneficiaries who received treatment in home- or community-based settings was above 10 percent. In Arizona, 27 percent of Medicaid beneficiaries treated for an OUD received home-based services. In Florida, 26 percent of Medicaid beneficiaries treated for an OUD received community-based services, followed by 25 percent in Alaska, 22 percent in Missouri, and 14 percent in Wyoming.
- Louisiana and Utah had the largest share of beneficiaries treated for an OUD who received SUD treatment services in a residential setting (25 and 30 percent, respectively). In seven additional states, more than 10 percent of the beneficiaries treated for an OUD received residential care. These rates of residential care were slightly higher and more variable across states than for Medicaid beneficiaries treated for a SUD more generally, shown in Table C.2.

**Appendix Table D.9. Average number of OUD services received by Medicaid beneficiaries who received a given service in 2020, by service type**

- Beneficiaries treated for an OUD who received MAT received medication for an average of 144 days in 2020.<sup>128</sup> The number of days of medication ranged from an average of 69 in Florida to 209 in Maine.
- Beneficiaries treated for an OUD who received inpatient care averaged close to 12 days of inpatient care in 2020. This average number of inpatient care days was more than a day longer than what all beneficiaries with any SUD received (10 days; see Table D.1). Beneficiaries treated for an OUD also averaged slightly more emergency services (almost three claims per beneficiary in 2020) and physician services (eight claims per beneficiary in 2020) than did beneficiaries treated for any SUD, who averaged two and five claims per beneficiary, respectively.

**Appendix Table D.10. Number and percentage of Medicaid beneficiaries treated for an OUD in 2020, by delivery system**

- Seventy-seven percent of the Medicaid beneficiaries treated for an OUD received at least one service through a managed care organization; 43 percent received at least one service through the FFS system in 2020. This finding is very similar to the results for all beneficiaries treated for any SUD, shown in Table E.1.

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<sup>128</sup> For the purposes of this SUD Data Book, MAT consists of medications intended to reduce the symptoms of a SUD, including alcohol use disorder, OUD, and TUD. This treatment is often augmented with counseling or other behavioral therapeutic interventions, which are counted separately. MAT also includes medication used to counteract overdose.

**Appendix Table D.11. Progression of care for Medicaid beneficiaries treated for an OUD who received services in an inpatient or a residential setting in 2020**

- Among the Medicaid beneficiaries treated for an OUD who received any SUD service in an inpatient or residential setting during 2020, 60 percent received at least one outpatient or home- or community-based service within 30 days of discharge; 49 percent of this same group received two or more of these services. These rates of follow-up care after discharge from an inpatient or residential setting are substantially higher than for Medicaid beneficiaries treated for a SUD more generally, shown in Table F.1.
- The proportion of Medicaid beneficiaries treated for an OUD who received any SUD service in an inpatient or a residential setting during 2020 and received OUD services in an outpatient or home- or community-based setting within 30 days ranged from a low of about 27 percent in Arkansas and 29 percent in Oklahoma, respectively, to a high of about 75 percent in Massachusetts. Massachusetts also had the highest percentage of beneficiaries treated for an OUD who received two or more outpatient or home- or community-based services within 30 days of discharge, at 67 percent.

**Appendix Table D.1. Number and percentage of Medicaid beneficiaries treated for an OUD and another SUD in 2020, by disorder**

| State                 | Total number of Medicaid beneficiaries with OUD | Alcohol        |             | Cannabis       |            | Polysubstance  |             | Stimulants     |             | Tobacco        |             | Other          |             |
|-----------------------|---|----------------|-------------|----------------|------------|----------------|-------------|----------------|-------------|----------------|-------------|----------------|-------------|
|                       |   | Number         | Percent     | Number         | Percent    | Number         | Percent     | Number         | Percent     | Number         | Percent     | Number         | Percent     |
| <b>United States</b>  | <b>1,614,639</b>                                | <b>325,684</b> | <b>20.2</b> | <b>145,891</b> | <b>9.0</b> | <b>791,499</b> | <b>49.0</b> | <b>273,315</b> | <b>16.9</b> | <b>429,802</b> | <b>26.6</b> | <b>212,750</b> | <b>13.2</b> |
| Alabama               | 10,906  | 1,144          | 10.5        | 801            | 7.3        | 5,035          | 46.2        | 1,243          | 11.4        | 3,964          | 36.3        | 1,669          | 15.3        |
| Alaska*               | 7,064   | 2,090          | 29.6        | 618            | 8.7        | 4,092          | 57.9        | 1,356          | 19.2        | 1,610          | 22.8        | 919            | 13.0        |
| Arizona*              | 59,161  | 12,849         | 21.7        | 6,474          | 10.9       | 30,870         | 52.2        | 14,932         | 25.2        | 14,594         | 24.7        | 7,550          | 12.8        |
| Arkansas*             | 5,312   | 650            | 12.2        | 422            | 7.9        | 2,228          | 41.9        | 618            | 11.6        | 1,549          | 29.2        | 540            | 10.2        |
| California*           | 121,887   | 14,481         | 11.9        | 5,420          | 4.4        | 42,600         | 35.0        | 15,640         | 12.8        | 22,416         | 18.4        | 10,453         | 8.6         |
| Colorado*             | 31,049  | 8,860          | 28.5        | 1,395          | 4.5        | 15,282         | 49.2        | 4,005          | 12.9        | 7,208          | 23.2        | 2,488          | 8.0         |
| Connecticut*          | 39,099  | 9,106          | 23.3        | 3,104          | 7.9        | 18,927         | 48.4        | 5,438          | 13.9        | 9,519          | 24.3        | 4,117          | 10.5        |
| Delaware*             | 12,337  | 2,225          | 18.0        | 1,109          | 9.0        | 6,804          | 55.2        | 2,407          | 19.5        | 3,563          | 28.9        | 1,624          | 13.2        |
| District of Columbia* | 4,537   | 954            | 21.0        | 294            | 6.5        | 2,024          | 44.6        | 484            | 10.7        | 1,277          | 28.1        | 510            | 11.2        |
| Florida               | 35,444  | 4,564          | 12.9        | 2,611          | 7.4        | 14,690         | 41.4        | 3,511          | 9.9         | 10,153         | 28.6        | 5,297          | 14.9        |
| Georgia               | 11,820  | 1,468          | 12.4        | 639            | 5.4        | 4,529          | 38.3        | 1,028          | 8.7         | 2,959          | 25.0        | 1,200          | 10.2        |
| Hawaii*               | 3,282   | 514            | 15.7        | 165            | 5.0        | 1,277          | 38.9        | 511            | 15.6        | 610            | 18.6        | 318            | 9.7         |
| Idaho*                | 7,826   | 2,000          | 25.6        | 676            | 8.6        | 4,130          | 52.8        | 1,580          | 20.2        | 2,090          | 26.7        | 624            | 8.0         |
| Illinois*             | 44,444  | 10,853         | 24.4        | 4,572          | 10.3       | 23,427         | 52.7        | 7,000          | 15.8        | 13,660         | 30.7        | 7,242          | 16.3        |
| Indiana*              | 46,564  | 8,893          | 19.1        | 2,270          | 4.9        | 17,577         | 37.7        | 4,755          | 10.2        | 8,252          | 17.7        | 4,063          | 8.7         |
| Iowa*                 | 8,671   | 3,415          | 39.4        | 1,238          | 14.3       | 5,544          | 63.9        | 2,053          | 23.7        | 2,313          | 26.7        | 934            | 10.8        |
| Kansas                | 2,686   | 732            | 27.3        | 266            | 9.9        | 1,553          | 57.8        | 352            | 13.1        | 879            | 32.7        | 285            | 10.6        |
| Kentucky*             | 69,543  | 10,284         | 14.8        | 7,194          | 10.3       | 36,070         | 51.9        | 15,366         | 22.1        | 19,371         | 27.9        | 10,909         | 15.7        |
| Louisiana*            | 31,903  | 7,113          | 22.3        | 4,519          | 14.2       | 17,304         | 54.2        | 7,911          | 24.8        | 9,374          | 29.4        | 6,658          | 20.9        |
| Maine*                | 16,923  | 2,631          | 15.5        | 755            | 4.5        | 6,915          | 40.9        | 1,450          | 8.6         | 4,070          | 24.1        | 1,873          | 11.1        |
| Maryland*             | 67,737  | 11,242         | 16.6        | 5,038          | 7.4        | 28,272         | 41.7        | 9,220          | 13.6        | 14,650         | 21.6        | 6,934          | 10.2        |
| Massachusetts*        | 80,804  | 24,044         | 29.8        | 7,569          | 9.4        | 45,631         | 56.5        | 13,652         | 16.9        | 27,072         | 33.5        | 14,821         | 18.3        |
| Michigan*             | 50,001  | 8,444          | 16.9        | 3,595          | 7.2        | 23,486         | 47.0        | 7,124          | 14.2        | 12,089         | 24.2        | 5,711          | 11.4        |
| Minnesota*            | 28,654  | 8,904          | 31.1        | 3,093          | 10.8       | 16,723         | 58.4        | 6,154          | 21.5        | 7,894          | 27.5        | 4,256          | 14.9        |
| Mississippi           | 4,237   | 508            | 12.0        | 283            | 6.7        | 1,689          | 39.9        | 419            | 9.9         | 1,144          | 27.0        | 483            | 11.4        |
| Missouri              | 15,597  | 3,665          | 23.5        | 1,355          | 8.7        | 8,409          | 53.9        | 2,748          | 17.6        | 4,300          | 27.6        | 2,441          | 15.7        |
| Montana*              | 7,558   | 2,264          | 30.0        | 939            | 12.4       | 5,242          | 69.4        | 2,337          | 30.9        | 2,678          | 35.4        | 1,188          | 15.7        |
| Nebraska              | 1,842   | 649            | 35.2        | 138            | 7.5        | 1,014          | 55.0        | 189            | 10.3        | 463            | 25.1        | 146            | 7.9         |
| Nevada*               | 15,489  | 2,887          | 18.6        | 1,159          | 7.5        | 6,711          | 43.3        | 2,438          | 15.7        | 4,096          | 26.4        | 1,805          | 11.7        |
| New Hampshire*        | 11,986  | 2,194          | 18.3        | 679            | 5.7        | 5,349          | 44.6        | 1,715          | 14.3        | 2,193          | 18.3        | 1,481          | 12.4        |
| New Jersey*           | 45,322  | 8,139          | 18.0        | 2,655          | 5.9        | 18,306         | 40.4        | 4,352          | 9.6         | 10,977         | 24.2        | 5,569          | 12.3        |

Appendix Table D.1 (continued)

| State           | Total number of Medicaid beneficiaries with OUD | Alcohol |         | Cannabis |         | Polysubstance |         | Stimulants |         | Tobacco |         | Other  |         |
|-----------------|---|---------|---------|----------|---------|---------------|---------|------------|---------|---------|---------|--------|---------|
|                 |   | Number  | Percent | Number   | Percent | Number        | Percent | Number     | Percent | Number  | Percent | Number | Percent |
| New Mexico*     | 31,455  | 6,267   | 19.9    | 1,698    | 5.4     | 12,818        | 40.8    | 4,163      | 13.2    | 6,156   | 19.6    | 2,786  | 8.9     |
| New York*       | 126,757   | 32,602  | 25.7    | 17,523   | 13.8    | 73,579        | 58.0    | 25,783     | 20.3    | 47,169  | 37.2    | 22,165 | 17.5    |
| North Carolina  | 30,114  | 2,876   | 9.6     | 2,728    | 9.1     | 13,392        | 44.5    | 3,775      | 12.5    | 8,544   | 28.4    | 4,296  | 14.3    |
| North Dakota*   | 2,149   | 654     | 30.4    | 326      | 15.2    | 1,395         | 64.9    | 620        | 28.9    | 637     | 29.6    | 377    | 17.5    |
| Ohio*           | 118,446   | 28,602  | 24.1    | 21,098   | 17.8    | 74,109        | 62.6    | 26,288     | 22.2    | 43,006  | 36.3    | 20,252 | 17.1    |
| Oklahoma        | 9,952   | 1,139   | 11.4    | 439      | 4.4     | 3,834         | 38.5    | 730        | 7.3     | 2,337   | 23.5    | 818    | 8.2     |
| Oregon*         | 33,767  | 8,102   | 24.0    | 2,225    | 6.6     | 18,912        | 56.0    | 7,670      | 22.7    | 8,491   | 25.1    | 2,977  | 8.8     |
| Pennsylvania*   | 122,252   | 23,218  | 19.0    | 10,675   | 8.7     | 58,506        | 47.9    | 21,021     | 17.2    | 28,819  | 23.6    | 17,105 | 14.0    |
| Puerto Rico*    | 4,424   | 155     | 3.5     | 367      | 8.3     | 1,426         | 32.2    | 900        | 20.3    | 508     | 11.5    | 518    | 11.7    |
| Rhode Island*   | 13,425  | 2,536   | 18.9    | 306      | 2.3     | 3,907         | 29.1    | 776        | 5.8     | 1,158   | 8.6     | 774    | 5.8     |
| South Carolina  | 10,685  | 1,244   | 11.6    | 740      | 6.9     | 4,396         | 41.1    | 1,291      | 12.1    | 2,507   | 23.5    | 1,288  | 12.1    |
| South Dakota    | 687   | 230     | 33.5    | 76       | 11.1    | 389           | 56.6    | 111        | 16.2    | 171     | 24.9    | 71     | 10.3    |
| Tennessee       | DQ  | DQ      | DQ      | DQ       | DQ      | DQ            | DQ      | DQ         | DQ      | DQ      | DQ      | DQ     | DQ      |
| Texas           | 14,847  | 3,436   | 23.1    | 1,277    | 8.6     | 7,286         | 49.1    | 1,864      | 12.6    | 4,083   | 27.5    | 2,067  | 13.9    |
| Utah*           | 14,090  | 3,582   | 25.4    | 1,037    | 7.4     | 7,595         | 53.9    | 3,656      | 25.9    | 3,480   | 24.7    | 1,879  | 13.3    |
| Vermont*        | 10,357  | 1,804   | 17.4    | 583      | 5.6     | 4,459         | 43.1    | 1,046      | 10.1    | 2,311   | 22.3    | 793    | 7.7     |
| Virginia*       | 46,846  | 7,271   | 15.5    | 3,307    | 7.1     | 19,304        | 41.2    | 5,747      | 12.3    | 11,329  | 24.2    | 4,948  | 10.6    |
| Virgin Islands* | 13  | DS      | DS      | 0        | 0.0     | DS            | DS      | DS         | DS      | DS      | DS      | DS     | DS      |
| Washington*     | 64,410  | 12,382  | 19.2    | 5,855    | 9.1     | 35,225        | 54.7    | 15,798     | 24.5    | 17,807  | 27.6    | 6,794  | 10.5    |
| West Virginia*  | 31,485  | 5,004   | 15.9    | 1,935    | 6.1     | 14,910        | 47.4    | 5,562      | 17.7    | 6,698   | 21.3    | 5,312  | 16.9    |
| Wisconsin       | 28,192  | 6,705   | 23.8    | 2,617    | 9.3     | 14,074        | 49.9    | 4,466      | 15.8    | 7,454   | 26.4    | 3,382  | 12.0    |
| Wyoming         | 601   | 109     | 18.1    | 34       | 5.7     | 273           | 45.4    | 60         | 10.0    | 150     | 25.0    | 40     | 6.7     |

Source: Analysis of the 2020 preliminary TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits.

Notes: The U.S. average is an overall average across the population in the states included in the table.

To identify beneficiaries with an OUD, we used diagnosis codes, National Drug Codes, and select procedure codes on Medicaid claims. We identified polysubstance use disorder on the basis of a diagnosis of two or more SUDs or a polysubstance diagnosis code.

The "Other" category includes treatment for caffeine; hallucinogens; sedatives, hypnotics and anxiolytics; inhalants; and unspecified or unknown SUD.

The percentages in this table may not sum to 100 within a state because beneficiaries could be treated for more than one condition in addition to OUD.

\*The state implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

DS = Data suppressed for confidentiality reasons because the group included fewer than 11 beneficiaries. If the size of a group that a state did not report because of confidentiality can be identified by using other numbers from that state, we did not report a second group within that state. Slightly different totals across the tables are a function of differences in the need to suppress data from one table to the next.

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.

**Appendix Table D.2.i. Number and percentage of Medicaid beneficiaries treated for an OUD in 2020, by major enrollment category**

| State                 | Total number of Medicaid beneficiaries | Adult             |                 |            | Children          |                 |            | Pregnant         |                 |            |
|-----------------------|--|-------------------|-----------------|------------|-------------------|-----------------|------------|------------------|-----------------|------------|
|                       |  | Total number      | Number with OUD | Percent    | Total number      | Number with OUD | Percent    | Total number     | Number with OUD | Percent    |
| <b>United States</b>  | <b>57,005,319</b>                      | <b>11,145,355</b> | <b>361,694</b>  | <b>3.2</b> | <b>10,196,225</b> | <b>13,566</b>   | <b>0.1</b> | <b>1,253,001</b> | <b>14,394</b>   | <b>1.1</b> |
| Alabama               | 477,178                                | 108,854           | 5,421           | 5.0        | 152,527           | 163             | 0.1        | 23,862           | DS              | DS         |
| Alaska*               | 186,109                                | 47,672            | 1,776           | 3.7        | 39,634            | 91              | 0.2        | 3,358            | 95              | 2.8        |
| Arizona*              | 1,475,790                              | 369,865           | 12,671          | 3.4        | 260,683           | 1,001           | 0.4        | 24,205           | 434             | 1.8        |
| Arkansas*             | 670,555                                | 523               | DS              | DS         | 192,628           | 1,432           | 0.7        | 2,065            | DS              | DS         |
| California*           | 9,663,915                              | 2,025,829         | 26,180          | 1.3        | 1,224,785         | 1,310           | 0.1        | 108,848          | 173             | 0.2        |
| Colorado*             | 1,084,839                              | 208,160           | 6,198           | 3.0        | 186,864           | 311             | 0.2        | 39,941           | 939             | 2.4        |
| Connecticut*          | 750,119                                | 188,623           | 7,185           | 3.8        | 136,204           | 157             | 0.1        | 13,005           | 223             | 1.7        |
| Delaware*             | 180,501                                | 39,236            | 3,117           | 7.9        | 35,309            | 32              | 0.1        | 3,952            | 201             | 5.1        |
| District of Columbia* | 200,599                                | 56,512            | 671             | 1.2        | 26,937            | DS              | DS         | 465              | DS              | DS         |
| Florida               | 2,521,141                              | 698,882           | 15,362          | 2.2        | 699,853           | 707             | 0.1        | 140,369          | 2,748           | 2.0        |
| Georgia               | 1,116,235                              | 382,707           | 4,883           | 1.3        | 320,730           | DS              | DS         | 79,481           | 464             | 0.6        |
| Hawaii*               | 298,360                                | 32,445            | 323             | 1.0        | 48,927            | 25              | 0.1        | 17,926           | 125             | 0.7        |
| Idaho*                | 246,888                                | 143,190           | 5,477           | 3.8        | 49,869            | 74              | 0.1        | 0                |                 |            |
| Illinois*             | 2,302,746                              | 113,818           | 1,052           | 0.9        | 221,050           | 141             | 0.1        | 27,741           | 121             | 0.4        |
| Indiana*              | 1,153,729                              | 111,055           | 3,153           | 2.8        | 213,195           | DS              | DS         | 55,065           | 1,506           | 2.7        |
| Iowa*                 | 518,468                                | 95,941            | 1,770           | 1.8        | 75,827            | 83              | 0.1        | 22,150           | 63              | 0.3        |
| Kansas                | 227,732                                | 73,893            | 1,101           | 1.5        | 52,149            | 75              | 0.1        | 12,065           | 71              | 0.6        |
| Kentucky*             | 1,244,580                              | 135,580           | 11,071          | 8.2        | 157,915           | 167             | 0.1        | 16,347           | 414             | 2.5        |
| Louisiana*            | 1,203,280                              | 90,085            | 4,073           | 4.5        | 229,066           | 178             | 0.1        | DS               | DS              | DS         |
| Maine*                | 243,750                                | 47,477            | 4,791           | 10.1       | 38,968            | 72              | 0.2        | 3,957            | 204             | 5.2        |
| Maryland*             | 1,019,693                              | 248,318           | 15,105          | 6.1        | 200,464           | 494             | 0.2        | 15,632           | 338             | 2.2        |
| Massachusetts*        | 1,343,550                              | 318,070           | 13,533          | 4.3        | 145,333           | 326             | 0.2        | 8,552            | 168             | 2.0        |
| Michigan*             | 2,144,205                              | 413,512           | 12,167          | 2.9        | 303,358           | 178             | 0.1        | 15,035           | 99              | 0.7        |
| Minnesota*            | 870,206                                | 190,503           | 5,840           | 3.1        | 228,954           | 848             | 0.4        | 20,857           | 238             | 1.1        |
| Mississippi           | 376,004                                | 60,793            | 1,639           | 2.7        | 129,767           | 110             | 0.1        | 25,332           | 154             | 0.6        |
| Missouri              | 640,704                                | 104,197           | 4,404           | 4.2        | 223,429           | 464             | 0.2        | 51,879           | 1,005           | 1.9        |
| Montana*              | 204,723                                | 23,580            | 1,063           | 4.5        | 35,319            | 89              | 0.3        | 2,009            | 43              | 2.1        |
| Nebraska              | 188,521                                | 41,212            | 641             | 1.6        | 52,014            | 29              | 0.1        | 8,655            | DS              | DS         |
| Nevada*               | 554,846                                | 72,312            | 2,179           | 3.0        | 109,563           | 81              | 0.1        | 12,449           | 148             | 1.2        |
| New Hampshire*        | 159,972                                | 14,747            | 1,746           | 11.8       | 34,136            | 51              | 0.1        | 3,277            | 135             | 4.1        |
| New Jersey*           | 1,273,197                              | 112,517           | 5,405           | 4.8        | 226,735           | 213             | 0.1        | 16,394           | 198             | 1.2        |
| New Mexico*           | 600,496                                | 90,442            | 6,231           | 6.9        | 127,084           | 616             | 0.5        | 6,644            | 186             | 2.8        |

Appendix Table D.2.i (continued)

| State           | Total number of Medicaid beneficiaries | Adult        |                 |         | Children     |                 |         | Pregnant     |                 |         |
|-----------------|--|--------------|-----------------|---------|--------------|-----------------|---------|--------------|-----------------|---------|
|                 |  | Total number | Number with OUD | Percent | Total number | Number with OUD | Percent | Total number | Number with OUD | Percent |
| New York*       | 4,991,831                              | 699,295      | 16,980          | 2.4     | 645,730      | 365             | 0.1     | 59,344       | 373             | 0.6     |
| North Carolina  | 1,097,581                              | 465,515      | 15,119          | 3.2     | 172,338      | DS              | DS      | 29,897       | 255             | 0.9     |
| North Dakota*   | 78,841                                 | 11,680       | 516             | 4.4     | 14,766       | DS              | DS      | 2,722        | 52              | 1.9     |
| Ohio*           | 2,182,908                              | 471,890      | 28,602          | 6.1     | 414,038      | 1,240           | 0.3     | DS           | DS              | DS      |
| Oklahoma        | 486,831                                | 127,113      | 4,015           | 3.2     | 169,458      | 180             | 0.1     | DS           | DS              | DS      |
| Oregon*         | 855,040                                | 3,188        | 159             | 5.0     | 9,876        | 37              | 0.4     | 822          | 14              | 1.7     |
| Pennsylvania*   | 2,311,819                              | 292,190      | 19,827          | 6.8     | 315,291      | 373             | 0.1     | 26,964       | 631             | 2.3     |
| Puerto Rico*    | 1,235,769                              | 199,934      | 269             | 0.1     | 125,845      | DS              | DS      | 3,482        | DS              | DS      |
| Rhode Island*   | 241,697                                | 54,498       | 2,784           | 5.1     | 40,266       | 273             | 0.7     | 597          | 25              | 4.2     |
| South Carolina  | 678,920                                | 185,461      | 6,325           | 3.4     | 220,014      | DS              | DS      | 24,643       | 277             | 1.1     |
| South Dakota    | 66,215                                 | 18,717       | 349             | 1.9     | 23,568       | 47              | 0.2     | DS           | DS              | DS      |
| Tennessee       | DQ                                     | DQ           | DQ              | DQ      | DQ           | DQ              | DQ      | DQ           | DQ              | DQ      |
| Texas           | 2,285,299                              | 204,800      | 3,291           | 1.6     | 1,040,293    | 751             | 0.1     | 244,729      | 1,042           | 0.4     |
| Utah*           | 256,550                                | 37,817       | 2,083           | 5.5     | 60,950       | 73              | 0.1     | DS           | DS              | DS      |
| Vermont*        | 135,064                                | 9,934        | 1,341           | 13.5    | 25,640       | 46              | 0.2     | DS           | DS              | DS      |
| Virginia*       | 1,109,619                              | 640,781      | 36,945          | 5.8     | 210,815      | DS              | DS      | 28,129       | 597             | 2.1     |
| Virgin Islands* | 22,229                                 | 5,971        | DS              | DS      | 352          | 0               | 0.0     | 988          | DS              | DS      |
| Washington*     | 1,438,197                              | 145,970      | 10,331          | 7.1     | 305,345      | 458             | 0.1     | 17,932       | DS              | DS      |
| West Virginia*  | 434,982                                | 42,639       | 4,628           | 10.9    | 66,735       | 105             | 0.2     | 4,284        | 158             | 3.7     |
| Wisconsin       | 873,848                                | 458,981      | 21,612          | 4.7     | 141,914      | 100             | 0.1     | 23,882       | 435             | 1.8     |
| Wyoming         | 40,260                                 | 9,348        | 290             | 3.1     | 13,715       | DS              | DS      | 3,069        | 42              | 1.4     |



**Appendix Table D.2.ii. Number and percentage of Medicaid beneficiaries treated for an OUD in 2020, by major enrollment category**

| State                 | Total number of Medicaid beneficiaries | Aged, blind, disabled |                 |            | Expansion adult   |                 |            | Unknown          |                 |            |
|-----------------------|--|-----------------------|-----------------|------------|-------------------|-----------------|------------|------------------|-----------------|------------|
|                       |  | Total Number          | Number with OUD | Percent    | Total Number      | Number with OUD | Percent    | Total Number     | Number with OUD | Percent    |
| <b>United States</b>  | <b>57,005,319</b>                      | <b>13,214,564</b>     | <b>385,637</b>  | <b>2.9</b> | <b>19,404,801</b> | <b>799,662</b>  | <b>4.1</b> | <b>1,052,975</b> | <b>36,144</b>   | <b>3.4</b> |
| Alabama               | 477,178                                | 191,497               | 5,200           | 2.7        | 0                 |                 |            | 438              | DS              | DS         |
| Alaska*               | 186,109                                | 27,636                | 846             | 3.1        | 67,809            | 4,256           | 6.3        | 0                |                 |            |
| Arizona*              | 1,475,790                              | 278,693               | 9,744           | 3.5        | 542,344           | 35,311          | 6.5        | 0                |                 |            |
| Arkansas*             | 670,555                                | 138,486               | 2,043           | 1.5        | 334,470           | 1,800           | 0.5        | 2,383            | 19              | 0.8        |
| California*           | 9,663,915                              | 2,162,455             | 44,189          | 2.0        | 4,141,998         | 50,035          | 1.2        | 0                |                 |            |
| Colorado*             | 1,084,839                              | 143,469               | 4,380           | 3.1        | 505,824           | 19,221          | 3.8        | 581              | 0               | 0.0        |
| Connecticut*          | 750,119                                | 84,853                | 3,656           | 4.3        | 327,434           | 27,878          | 8.5        | 0                |                 |            |
| Delaware*             | 180,501                                | 22,877                | 1,144           | 5.0        | 79,127            | 7,843           | 9.9        | 0                |                 |            |
| District of Columbia* | 200,599                                | 39,485                | 2,072           | 5.2        | 77,200            | 1,767           | 2.3        | 0                |                 |            |
| Florida               | 2,521,141                              | 852,044               | 16,373          | 1.9        | 0                 |                 |            | 129,993          | 254             | 0.2        |
| Georgia               | 1,116,235                              | 332,975               | 6,280           | 1.9        | 0                 |                 |            | 342              | DS              | DS         |
| Hawaii*               | 298,360                                | 51,900                | 880             | 1.7        | 147,162           | 1,929           | 1.3        | 0                |                 |            |
| Idaho*                | 246,888                                | 53,829                | 2,275           | 4.2        | 0                 |                 |            | 0                |                 |            |
| Illinois*             | 2,302,746                              | 389,969               | 5,588           | 1.4        | 1,550,111         | 37,542          | 2.4        | 57               | 0               | 0.0        |
| Indiana*              | 1,153,729                              | 205,139               | 5,008           | 2.4        | 568,864           | 36,597          | 6.4        | 411              | DS              | DS         |
| Iowa*                 | 518,468                                | 102,364               | 1,397           | 1.4        | 222,136           | 5,358           | 2.4        | 50               | 0               | 0.0        |
| Kansas                | 227,732                                | 55,590                | 984             | 1.8        | 0                 |                 |            | 34,035           | 455             | 1.3        |
| Kentucky*             | 1,244,580                              | 212,460               | 10,180          | 4.8        | 722,278           | 47,711          | 6.6        | 0                |                 |            |
| Louisiana*            | 1,203,280                              | 258,726               | 6,035           | 2.3        | 604,729           | 21,369          | 3.5        | DS               | DS              | DS         |
| Maine*                | 243,750                                | 76,530                | 4,551           | 5.9        | 72,403            | 7,292           | 10.1       | 4,415            | 13              | 0.3        |
| Maryland*             | 1,019,693                              | 167,036               | 13,755          | 8.2        | 388,243           | 38,045          | 9.8        | 0                |                 |            |
| Massachusetts*        | 1,343,550                              | 489,770               | 31,707          | 6.5        | 380,145           | 35,039          | 9.2        | 1,680            | 31              | 1.8        |
| Michigan*             | 2,144,205                              | 495,131               | 11,781          | 2.4        | 917,169           | 25,776          | 2.8        | 0                |                 |            |
| Minnesota*            | 870,206                                | 181,823               | 6,408           | 3.5        | 248,069           | 15,320          | 6.2        | 0                |                 |            |
| Mississippi           | 376,004                                | 160,112               | 2,334           | 1.5        | 0                 |                 |            | 0                |                 |            |
| Missouri              | 640,704                                | 261,199               | 9,724           | 3.7        | 0                 |                 |            | 0                |                 |            |
| Montana*              | 204,723                                | 30,867                | 949             | 3.1        | 112,928           | 5,414           | 4.8        | 20               | 0               | 0.0        |
| Nebraska              | 188,521                                | 58,678                | 875             | 1.5        | 27,872            | 274             | 1.0        | 90               | DS              | DS         |
| Nevada*               | 554,846                                | 62,469                | 3,024           | 4.8        | 298,053           | 10,057          | 3.4        | 0                |                 |            |
| New Hampshire*        | 159,972                                | 30,380                | 1,726           | 5.7        | 77,417            | 8,328           | 10.8       | 15               | 0               | 0.0        |
| New Jersey*           | 1,273,197                              | 251,334               | 10,938          | 4.4        | 654,119           | 28,123          | 4.3        | 12,098           | 445             | 3.7        |
| New Mexico*           | 600,496                                | 76,576                | 5,211           | 6.8        | 299,750           | 19,211          | 6.4        | 0                |                 |            |

Appendix Table D.2.ii (continued)

| State           | Total number of Medicaid beneficiaries | Aged, blind, disabled |                 |         | Expansion adult |                 |         | Unknown      |                 |         |
|-----------------|--|-----------------------|-----------------|---------|-----------------|-----------------|---------|--------------|-----------------|---------|
|                 |  | Total Number          | Number with OUD | Percent | Total Number    | Number with OUD | Percent | Total Number | Number with OUD | Percent |
| New York*       | 4,991,831                              | 1,073,827             | 31,058          | 2.9     | 2,513,613       | 77,981          | 3.1     | 22           | 0               | 0.0     |
| North Carolina  | 1,097,581                              | 429,695               | 14,620          | 3.4     | 0               |                 |         | 136          | DS              | DS      |
| North Dakota*   | 78,841                                 | 18,892                | 301             | 1.6     | 30,144          | 1,239           | 4.1     | 637          | DS              | DS      |
| Ohio*           | 2,182,908                              | 476,843               | 21,414          | 4.5     | 791,817         | 66,565          | 8.4     | DS           | DS              | DS      |
| Oklahoma        | 486,831                                | 160,299               | 5,290           | 3.3     | 0               |                 |         | DS           | DS              | DS      |
| Oregon*         | 855,040                                | 3,290                 | 113             | 3.4     | 4,483           | 205             | 4.6     | 833,381      | 33,239          | 4.0     |
| Pennsylvania*   | 2,311,819                              | 706,016               | 28,213          | 4.0     | 971,358         | 73,208          | 7.5     | 0            |                 |         |
| Puerto Rico*    | 1,235,769                              | 372,614               | 1,138           | 0.3     | 533,894         | 3,005           | 0.6     | 0            |                 |         |
| Rhode Island*   | 241,697                                | 53,276                | 3,445           | 6.5     | 93,060          | 6,898           | 7.4     | 0            |                 |         |
| South Carolina  | 678,920                                | 247,836               | 3,875           | 1.6     | 0               |                 |         | 966          | DS              | DS      |
| South Dakota    | 66,215                                 | 23,377                | 279             | 1.2     | 0               |                 |         | DS           | DS              | DS      |
| Tennessee       | DQ                                     | DQ                    | DQ              | DQ      | DQ              | DQ              | DQ      | DQ           | DQ              | DQ      |
| Texas           | 2,285,299                              | 792,770               | 9,755           | 1.2     | DS              | DS              | DS      | DS           | DS              | DS      |
| Utah*           | 256,550                                | 56,098                | 2,595           | 4.6     | 86,394          | 8,889           | 10.3    | DS           | DS              | DS      |
| Vermont*        | 135,064                                | 29,259                | 1,778           | 6.1     | 69,444          | 7,184           | 10.3    | DS           | DS              | DS      |
| Virginia*       | 1,109,619                              | 228,423               | 8,860           | 3.9     | 36              | 0               | 0.0     | 1,435        | DS              | DS      |
| Virgin Islands* | 22,229                                 | 4,095                 | DS              | DS      | 10,439          | DS              | DS      | 384          | 0               | 0.0     |
| Washington*     | 1,438,197                              | 233,321               | 10,993          | 4.7     | 729,563         | 42,440          | 5.8     | 6,066        | DS              | DS      |
| West Virginia*  | 434,982                                | 95,215                | 4,354           | 4.6     | 202,902         | 20,552          | 10.1    | 23,207       | 1,688           | 7.3     |
| Wisconsin       | 873,848                                | 249,071               | 6,045           | 2.4     | 0               |                 |         | 0            |                 |         |
| Wyoming         | 40,260                                 | 13,995                | 254             | 1.8     | 0               |                 |         | 133          | DS              | DS      |

Source: Analysis of 2020 preliminary TAF data release 1 Medicaid beneficiaries 12 years and older who have full or comprehensive benefits.

Notes: For a definition of each Medicaid eligibility category, see Appendix E.

The U.S. average is an overall average across the population in the states included in the table.

To identify beneficiaries with an OUD, we used diagnosis codes, National Drug Codes, and select procedure codes on Medicaid claims. We identified polysubstance use disorder on the basis of a diagnosis of two or more SUDs or a polysubstance diagnosis code.

Beneficiaries in the "Unknown" enrollment category did not have enough information on their enrollment records to be included in any of the other standard categories.

Virginia expanded Medicaid in 2019 but did not have any beneficiaries in the expansion adult enrollment category in the 2020 data, indicating that the state's reporting has lagged behind the policy change. Idaho expanded Medicaid in 2020 but did not report any beneficiaries in the expansion adult enrollment category in 2020. Nebraska expanded Medicaid in October 2021 but the state reported some beneficiaries in the expansion adult enrollment category in 2020. Texas has not expanded Medicaid but reported a small number of expansion adult beneficiaries in 2020. These categorizations likely represent data errors.

\*The state implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

DS = Data suppressed for confidentiality reasons because the group included fewer than 11 beneficiaries. If the size of a group that a state did not report because of confidentiality can be identified by using other numbers from that state, we did not report a second group within that state. Slightly different totals across the tables are a function of differences in the need to suppress data from one table to the next.

Appendix Table D.2.ii (*continued*)

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.

**Appendix Table D.3. Distribution of Medicaid beneficiaries treated for an OUD in 2020, by major enrollment category**

| State                 | Total number of Medicaid beneficiaries with an OUD | Adult          |             | Children      |            | Pregnant      |            | Aged, blind, disabled |             | Expansion adult |             | Unknown       |            |
|-----------------------|--|----------------|-------------|---------------|------------|---------------|------------|-----------------------|-------------|-----------------|-------------|---------------|------------|
|                       |  | Number         | Percent     | Number        | Percent    | Number        | Percent    | Number                | Percent     | Number          | Percent     | Number        | Percent    |
| <b>United States</b>  | <b>1,614,639</b>                                   | <b>361,694</b> | <b>22.4</b> | <b>12,815</b> | <b>0.8</b> | <b>16,196</b> | <b>1.0</b> | <b>385,637</b>        | <b>23.9</b> | <b>799,662</b>  | <b>49.5</b> | <b>36,144</b> | <b>2.2</b> |
| Alabama               | 10,906   | 5,421          | 49.7        | 163           | 1.5        | DS            | DS         | 5,200                 | 47.7        | 0               | 0.0         | DS            | DS         |
| Alaska*               | 7,064  | 1,776          | 25.1        | 91            | 1.3        | 95            | 1.3        | 846                   | 12.0        | 4,256           | 60.2        | 0             | 0.0        |
| Arizona*              | 59,161   | 12,671         | 21.4        | 1,001         | 1.7        | 434           | 0.7        | 9,744                 | 16.5        | 35,311          | 59.7        | 0             | 0.0        |
| Arkansas*             | 5,312  | DS             | DS          | 1,432         | 27.0       | DS            | DS         | 2,043                 | 38.5        | 1,800           | 33.9        | 19            | 0.4        |
| California*           | 121,887  | 26,180         | 21.5        | 1,310         | 1.1        | 173           | 0.1        | 44,189                | 36.3        | 50,035          | 41.1        | 0             | 0.0        |
| Colorado*             | 31,049   | 6,198          | 20.0        | 311           | 1.0        | 939           | 3.0        | 4,380                 | 14.1        | 19,221          | 61.9        | 0             | 0.0        |
| Connecticut*          | 39,099   | 7,185          | 18.4        | 157           | 0.4        | 223           | 0.6        | 3,656                 | 9.4         | 27,878          | 71.3        | 0             | 0.0        |
| Delaware*             | 12,337   | 3,117          | 25.3        | 32            | 0.3        | 201           | 1.6        | 1,144                 | 9.3         | 7,843           | 63.6        | 0             | 0.0        |
| District of Columbia* | 4,537  | 671            | 14.8        | DS            | DS         | DS            | DS         | 2,072                 | 45.7        | 1,767           | 38.9        | 0             | 0.0        |
| Florida               | 35,444   | 15,362         | 43.3        | 707           | 2.0        | 2,748         | 7.8        | 16,373                | 46.2        | 0               | 0.0         | 254           | 0.7        |
| Georgia               | 11,820   | 4,883          | 41.3        | DS            | DS         | 464           | 3.9        | 6,280                 | 53.1        | 0               | 0.0         | DS            | DS         |
| Hawaii*               | 3,282  | 323            | 9.8         | 25            | 0.8        | 125           | 3.8        | 880                   | 26.8        | 1,929           | 58.8        | 0             | 0.0        |
| Idaho*                | 7,826  | 5,477          | 70.0        | 74            | 0.9        | 0             | 0.0        | 2,275                 | 29.1        | 0               | 0.0         | 0             | 0.0        |
| Illinois*             | 44,444   | 1,052          | 2.4         | 141           | 0.3        | 121           | 0.3        | 5,588                 | 12.6        | 37,542          | 84.5        | 0             | 0.0        |
| Indiana*              | 46,564   | 3,153          | 6.8         | DS            | DS         | 1,506         | 3.2        | 5,008                 | 10.8        | 36,597          | 78.6        | DS            | DS         |
| Iowa*                 | 8,671  | 1,770          | 20.4        | 83            | 1.0        | 63            | 0.7        | 1,397                 | 16.1        | 5,358           | 61.8        | 0             | 0.0        |
| Kansas                | 2,686  | 1,101          | 41.0        | 75            | 2.8        | 71            | 2.6        | 984                   | 36.6        | 0               | 0.0         | 455           | 16.9       |
| Kentucky*             | 69,543   | 11,071         | 15.9        | 167           | 0.2        | 414           | 0.6        | 10,180                | 14.6        | 47,711          | 68.6        | 0             | 0.0        |
| Louisiana*            | 31,903   | 4,073          | 12.8        | 178           | 0.6        | 248           | 0.8        | 6,035                 | 18.9        | 21,369          | 67.0        | 0             | 0.0        |
| Maine*                | 16,923   | 4,791          | 28.3        | 72            | 0.4        | 204           | 1.2        | 4,551                 | 26.9        | 7,292           | 43.1        | 13            | 0.1        |
| Maryland*             | 67,737   | 15,105         | 22.3        | 494           | 0.7        | 338           | 0.5        | 13,755                | 20.3        | 38,045          | 56.2        | 0             | 0.0        |
| Massachusetts*        | 80,804   | 13,533         | 16.7        | 326           | 0.4        | 168           | 0.2        | 31,707                | 39.2        | 35,039          | 43.4        | 31            | 0.0        |
| Michigan*             | 50,001   | 12,167         | 24.3        | 178           | 0.4        | 99            | 0.2        | 11,781                | 23.6        | 25,776          | 51.6        | 0             | 0.0        |
| Minnesota*            | 28,654   | 5,840          | 20.4        | 848           | 3.0        | 238           | 0.8        | 6,408                 | 22.4        | 15,320          | 53.5        | 0             | 0.0        |
| Mississippi           | 4,237  | 1,639          | 38.7        | 110           | 2.6        | 154           | 3.6        | 2,334                 | 55.1        | 0               | 0.0         | 0             | 0.0        |
| Missouri              | 15,597   | 4,404          | 28.2        | 464           | 3.0        | 1,005         | 6.4        | 9,724                 | 62.3        | 0               | 0.0         | 0             | 0.0        |
| Montana*              | 7,558  | 1,063          | 14.1        | 89            | 1.2        | 43            | 0.6        | 949                   | 12.6        | 5,414           | 71.6        | 0             | 0.0        |
| Nebraska              | 1,842  | 641            | 34.8        | 29            | 1.6        | DS            | DS         | 875                   | 47.5        | 274             | 14.9        | DS            | DS         |
| Nevada*               | 15,489   | 2,179          | 14.1        | 81            | 0.5        | 148           | 1.0        | 3,024                 | 19.5        | 10,057          | 64.9        | 0             | 0.0        |
| New Hampshire*        | 11,986   | 1,746          | 14.6        | 51            | 0.4        | 135           | 1.1        | 1,726                 | 14.4        | 8,328           | 69.5        | 0             | 0.0        |
| New Jersey*           | 45,322   | 5,405          | 11.9        | 213           | 0.5        | 198           | 0.4        | 10,938                | 24.1        | 28,123          | 62.1        | 445           | 1.0        |

Appendix Table D.3 (continued)

| State           | Total number of Medicaid beneficiaries with an OUD | Adult  |         | Children |         | Pregnant |         | Aged, blind, disabled |         | Expansion adult |         | Unknown |         |
|-----------------|--|--------|---------|----------|---------|----------|---------|-----------------------|---------|-----------------|---------|---------|---------|
|                 |  | Number | Percent | Number   | Percent | Number   | Percent | Number                | Percent | Number          | Percent | Number  | Percent |
| New Mexico*     | 31,455   | 6,231  | 19.8    | 616      | 2.0     | 186      | 0.6     | 5,211                 | 16.6    | 19,211          | 61.1    | 0       | 0.0     |
| New York*       | 126,757  | 16,980 | 13.4    | 365      | 0.3     | 373      | 0.3     | 31,058                | 24.5    | 77,981          | 61.5    | 0       | 0.0     |
| North Carolina  | 30,114   | 15,119 | 50.2    | DS       | DS      | 255      | 0.8     | 14,620                | 48.5    | 0               | 0.0     | DS      | DS      |
| North Dakota*   | 2,149  | 516    | 24.0    | DS       | DS      | 52       | 2.4     | 301                   | 14.0    | 1,239           | 57.7    | DS      | DS      |
| Ohio*           | 118,446  | 28,602 | 24.1    | 1,240    | 1.0     | 625      | 0.5     | 21,414                | 18.1    | 66,565          | 56.2    | 0       | 0.0     |
| Oklahoma        | 9,952  | 4,015  | 40.3    | 180      | 1.8     | 467      | 4.7     | 5,290                 | 53.2    | 0               | 0.0     | 0       | 0.0     |
| Oregon*         | 33,767   | 159    | 0.5     | 37       | 0.1     | 14       | 0.0     | 113                   | 0.3     | 205             | 0.6     | 33,239  | 98.4    |
| Pennsylvania*   | 122,252  | 19,827 | 16.2    | 373      | 0.3     | 631      | 0.5     | 28,213                | 23.1    | 73,208          | 59.9    | 0       | 0.0     |
| Puerto Rico*    | 4,424  | 269    | 6.1     | DS       | DS      | DS       | DS      | 1,138                 | 25.7    | 3,005           | 67.9    | 0       | 0.0     |
| Rhode Island*   | 13,425   | 2,784  | 20.7    | 273      | 2.0     | 25       | 0.2     | 3,445                 | 25.7    | 6,898           | 51.4    | 0       | 0.0     |
| South Carolina  | 10,685   | 6,325  | 59.2    | DS       | DS      | 277      | 2.6     | 3,875                 | 36.3    | 0               | 0.0     | DS      | DS      |
| South Dakota    | 687  | 349    | 50.8    | 47       | 6.8     | 12       | 1.7     | 279                   | 40.6    | 0               | 0.0     | 0       | 0.0     |
| Tennessee       | DQ   | DQ     | DQ      | DQ       | DQ      | DQ       | DQ      | DQ                    | DQ      | DQ              | DQ      | DQ      | DQ      |
| Texas           | 14,847   | 3,291  | 22.2    | DS       | DS      | 1,042    | 7.0     | 9,755                 | 65.7    | 0               | 0.0     | DS      | DS      |
| Utah*           | 14,090   | 2,083  | 14.8    | 73       | 0.5     | 450      | 3.2     | 2,595                 | 18.4    | 8,889           | 63.1    | 0       | 0.0     |
| Vermont*        | 10,357   | 1,341  | 12.9    | 46       | 0.4     | DS       | DS      | 1,778                 | 17.2    | 7,184           | 69.4    | DS      | DS      |
| Virginia*       | 46,846   | 36,945 | 78.9    | DS       | DS      | 597      | 1.3     | 8,860                 | 18.9    | 0               | 0.0     | DS      | DS      |
| Virgin Islands* | 13   | DS     | DS      | 0        | 0.0     | DS       | DS      | DS                    | DS      | DS              | DS      | 0       | 0.0     |
| Washington*     | 64,410   | 10,331 | 16.0    | 458      | 0.7     | DS       | DS      | 10,993                | 17.1    | 42,440          | 65.9    | DS      | DS      |
| West Virginia*  | 31,485   | 4,628  | 14.7    | 105      | 0.3     | 158      | 0.5     | 4,354                 | 13.8    | 20,552          | 65.3    | 1,688   | 5.4     |
| Wisconsin       | 28,192   | 21,612 | 76.7    | 100      | 0.4     | 435      | 1.5     | 6,045                 | 21.4    | 0               | 0.0     | 0       | 0.0     |
| Wyoming         | 601  | 290    | 48.3    | DS       | DS      | 42       | 7.0     | 254                   | 42.3    | 0               | 0.0     | DS      | DS      |

Source: Analysis of the 2020 preliminary TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits.

Notes: For a definition of each Medicaid eligibility category, see Appendix E.

The U.S. average is an overall average across the population in the states included in the table.

To identify beneficiaries with an OUD, we used diagnosis codes, National Drug Codes, and select procedure codes on Medicaid claims. We identified polysubstance use disorder on the basis of a diagnosis of two or more SUDs or a polysubstance diagnosis code.

Beneficiaries in the “Unknown” enrollment category did not have enough information on their enrollment record to be included in any of the other standard categories.

Virginia expanded Medicaid in 2019 but did not have any beneficiaries in the expansion adult enrollment category in the 2020 data, indicating that the state’s reporting has lagged behind the policy change. Idaho expanded Medicaid in 2020 but did not report any beneficiaries in the expansion adult enrollment category in 2020. Nebraska expanded Medicaid in October 2021 but the state reported some beneficiaries in the expansion adult enrollment category in 2020. Texas has not expanded Medicaid but reported a small number of expansion adult beneficiaries in 2020. These categorizations likely represent data errors.

\*The state implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

DS = Data suppressed for confidentiality reasons because the group included fewer than 11 beneficiaries. If the size of a group that a state did not report because of confidentiality can be identified by using other numbers from that state, we did not report a second group within that state. Slightly different totals across the tables are a function of differences in the need to suppress data from one table to the next.

Appendix Table D.3 (*continued*)

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.

**Appendix Table D.4.i. Number and percentage of Medicaid beneficiaries treated for an OUD in 2020, by age group and disability status**

| State                 | Total number of Medicaid beneficiaries | Children (ages 12–18)                                      |                           |            |  |                           |            |
|-----------------------|--|--|---------------------------|------------|--|---------------------------|------------|
|                       |  | Eligible for Medicaid due to reasons other than disability |                           |            | Eligible for Medicaid on the basis of disability |                           |            |
|                       |  | Total number   | Number treated for an OUD | Percent    | Total number                                     | Number treated for an OUD | Percent    |
| <b>United States</b>  | <b>55,966,131</b>                      | <b>10,294,713</b>  | <b>9,887</b>              | <b>0.1</b> | <b>708,347</b>                                   | <b>2,015</b>              | <b>0.3</b> |
| Alabama               | 477,178                                | 141,942  | 129                       | 0.1        | 11,763   | 43                        | 0.4        |
| Alaska*               | 186,109                                | 30,031   | 37                        | 0.1        | 1,318  | DS                        | DS         |
| Arizona*              | 1,475,790                              | 267,455  | 853                       | 0.3        | 15,215   | 80                        | 0.5        |
| Arkansas*             | 670,555                                | 114,642  | 95                        | 0.1        | 14,105   | 38                        | 0.3        |
| California*           | 9,663,915                              | 1,356,930  | 1,209                     | 0.1        | 62,015   | 268                       | 0.4        |
| Colorado*             | 1,084,839                              | 187,503  | 261                       | 0.1        | 7,020  | 18                        | 0.3        |
| Connecticut*          | 750,119                                | 128,089  | 119                       | 0.1        | 385  | DS                        | DS         |
| Delaware*             | 180,501                                | 33,562   | 21                        | 0.1        | 2,688  | 14                        | 0.5        |
| District of Columbia* | 200,599                                | 19,340   | DS                        | DS         | 2,128  | DS                        | DS         |
| Florida               | 2,521,141                              | 682,054  | 363                       | 0.1        | 51,669   | 115                       | 0.2        |
| Georgia               | 1,116,235                              | 411,385  | 199                       | 0.0        | 23,461   | 44                        | 0.2        |
| Hawaii*               | 298,360                                | 45,461   | 19                        | 0.0        | 795  | DS                        | DS         |
| Idaho*                | 246,888                                | 50,217   | 62                        | 0.1        | 4,247  | 17                        | 0.4        |
| Illinois*             | 2,302,746                              | 400,324  | 204                       | 0.1        | 13,208   | 29                        | 0.2        |
| Indiana*              | 1,153,729                              | 208,628  | 211                       | 0.1        | 14,227   | 62                        | 0.4        |
| Iowa*                 | 518,468                                | 92,379   | 125                       | 0.1        | 6,744  | 36                        | 0.5        |
| Kansas                | 227,732                                | 70,226   | 162                       | 0.2        | 6,145  | 45                        | 0.7        |
| Kentucky*             | 1,244,580                              | 164,917  | 192                       | 0.1        | 15,520   | 44                        | 0.3        |
| Louisiana*            | 1,203,280                              | 211,072  | 130                       | 0.1        | 19,035   | 34                        | 0.2        |
| Maine*                | 243,750                                | 36,167   | 45                        | 0.1        | 3,101  | 17                        | 0.5        |
| Maryland*             | 1,019,693                              | 165,477  | 233                       | 0.1        | 11,535   | 42                        | 0.4        |
| Massachusetts*        | 1,343,550                              | 142,491  | 120                       | 0.1        | 30,671   | 57                        | 0.2        |
| Michigan*             | 2,144,205                              | 331,678  | 191                       | 0.1        | 19,606   | 56                        | 0.3        |
| Minnesota*            | 870,206                                | 182,170  | 270                       | 0.1        | 7,846  | 24                        | 0.3        |
| Mississippi           | 376,004                                | 118,491  | 93                        | 0.1        | 11,300   | 36                        | 0.3        |
| Missouri              | 640,704                                | 202,218  | 367                       | 0.2        | 1,638  | DS                        | DS         |
| Montana*              | 204,723                                | 33,211   | 67                        | 0.2        | 1,256  | DS                        | DS         |
| Nebraska              | 188,521                                | 50,428   | 22                        | 0.0        | 2,003  | DS                        | DS         |
| Nevada*               | 554,846                                | 103,453  | 68                        | 0.1        | 5,171  | DS                        | DS         |
| New Hampshire*        | 159,972                                | 31,668   | 34                        | 0.1        | 792  | DS                        | DS         |

Appendix Table D.4.i (continued)

| State           | Total number of Medicaid beneficiaries | Children (ages 12–18)                                      |                           |         |  |                           |         |
|-----------------|--|--|---------------------------|---------|--|---------------------------|---------|
|                 |  | Eligible for Medicaid due to reasons other than disability |                           |         | Eligible for Medicaid on the basis of disability |                           |         |
|                 |  | Total number   | Number treated for an OUD | Percent | Total number                                     | Number treated for an OUD | Percent |
| New Jersey*     | 1,273,197                              | 188,178  | 95                        | 0.1     | 14,910   | 30                        | 0.2     |
| New Mexico*     | 600,496                                | 116,295  | 492                       | 0.4     | 4,608  | 52                        | 1.1     |
| New York*       | 4,991,831                              | 575,104  | 228                       | 0.0     | 55,592   | 70                        | 0.1     |
| North Carolina  | 1,097,581                              | 326,778  | 221                       | 0.1     | 21,721   | 58                        | 0.3     |
| North Dakota*   | 78,841                                 | 13,668   | 22                        | 0.2     | 411  | 0                         | 0.0     |
| Ohio*           | 2,182,908                              | 334,580  | 438                       | 0.1     | 25,440   | 105                       | 0.4     |
| Oklahoma        | 486,831                                | 163,056  | 161                       | 0.1     | 962  | DS                        | DS      |
| Oregon*         | 855,040                                | 113,239  | 162                       | 0.1     | 62   | DS                        | DS      |
| Pennsylvania*   | 2,311,819                              | 311,692  | 278                       | 0.1     | 76,343   | 208                       | 0.3     |
| Puerto Rico*    | 1,235,769                              | 108,199  | DS                        | DS      | DS   | DS                        | DS      |
| Rhode Island*   | 241,697                                | 27,909   | 51                        | 0.2     | 2,687  | 15                        | 0.6     |
| South Carolina  | 678,920                                | 193,344  | 115                       | 0.1     | 11,531   | 29                        | 0.3     |
| South Dakota    | 66,215                                 | 23,090   | 33                        | 0.1     | 1,566  | DS                        | DS      |
| Tennessee       | DQ                                     | DQ   | DQ                        | DQ      | DQ   | DQ                        | DQ      |
| Texas           | 2,285,299                              | 989,797  | 714                       | 0.1     | 77,856   | 189                       | 0.2     |
| Utah*           | 256,550                                | 62,015   | 67                        | 0.1     | 2,925  | 16                        | 0.5     |
| Vermont*        | 135,064                                | 23,524   | 29                        | 0.1     | 667  | DS                        | DS      |
| Virginia*       | 1,109,619                              | 194,895  | 337                       | 0.2     | 14,113   | 62                        | 0.4     |
| Virgin Islands* | 22,229                                 | 748  | 0                         | 0.0     | DS   | DS                        | DS      |
| Washington*     | 1,438,197                              | 281,921  | 362                       | 0.1     | 9,776  | 25                        | 0.3     |
| West Virginia*  | 434,982                                | 65,112   | 85                        | 0.1     | 4,454  | 14                        | 0.3     |
| Wisconsin       | 873,848                                | 155,101  | 82                        | 0.1     | 15,302   | 23                        | 0.2     |
| Wyoming         | 40,260                                 | 12,859   | 14                        | 0.1     | 814  | DS                        | DS      |



**Appendix Table D.4.ii. Number and percentage of Medicaid beneficiaries treated for an OUD in 2020, by age group and disability status**

| State                 | Total number of Medicaid beneficiaries | Adults (ages 19–64)  |                           |            |  |                           |            | Aged (ages 65+)                                       |                           |            |
|-----------------------|--|--|---------------------------|------------|--|---------------------------|------------|---|---------------------------|------------|
|                       |  | Eligible for Medicaid due to reasons other than disability |                           |            | Eligible for Medicaid on the basis of disability |                           |            | All aged beneficiaries, including the dually eligible |                           |            |
|                       |  | Total number   | Number treated for an OUD | Percent    | Total number                                     | Number treated for an OUD | Percent    | Total number  | Number treated for an OUD | Percent    |
| <b>United States</b>  | <b>55,966,131</b>                      | <b>32,033,320</b>  | <b>1,214,054</b>          | <b>3.8</b> | <b>6,636,663</b>                                 | <b>333,700</b>            | <b>5.0</b> | <b>6,293,081</b>                                      | <b>54,918</b>             | <b>0.9</b> |
| Alabama               | 477,178                                | 143,534  | 5,577                     | 3.9        | 128,482  | 4,771                     | 3.7        | 51,457  | 386                       | 0.8        |
| Alaska*               | 186,109                                | 127,356  | 6,171                     | 4.8        | 13,586   | 706                       | 5.2        | 13,818  | 147                       | 1.1        |
| Arizona*              | 1,475,790                              | 921,677  | 48,435                    | 5.3        | 127,458  | 8,053                     | 6.3        | 143,985   | 1,740                     | 1.2        |
| Arkansas*             | 670,555                                | 413,693  | 3,166                     | 0.8        | 79,633   | 1,816                     | 2.3        | 48,482  | 197                       | 0.4        |
| California*           | 9,663,915                              | 6,075,462  | 76,086                    | 1.3        | 762,902  | 34,787                    | 4.6        | 1,406,606   | 9,537                     | 0.7        |
| Colorado*             | 1,084,839                              | 746,524  | 26,332                    | 3.5        | 81,208   | 3,851                     | 4.7        | 62,584  | 587                       | 0.9        |
| Connecticut*          | 750,119                                | 532,098  | 35,133                    | 6.6        | 35,827   | 2,897                     | 8.1        | 53,720  | 947                       | 1.8        |
| Delaware*             | 180,501                                | 121,005  | 11,120                    | 9.2        | 13,331   | 1,068                     | 8.0        | 9,915   | 114                       | 1.1        |
| District of Columbia* | 200,599                                | 140,486  | 2,424                     | 1.7        | 22,551   | 1,591                     | 7.1        | 16,094  | 513                       | 3.2        |
| Florida               | 2,521,141                              | 962,507  | 18,606                    | 1.9        | 389,872  | 14,746                    | 3.8        | 435,039   | 1,614                     | 0.4        |
| Georgia               | 1,116,235                              | 371,684  | 5,342                     | 1.4        | 203,129  | 5,475                     | 2.7        | 106,576   | 760                       | 0.7        |
| Hawaii*               | 298,360                                | 199,360  | 2,364                     | 1.2        | 19,107   | 586                       | 3.1        | 33,637  | 312                       | 0.9        |
| Idaho*                | 246,888                                | 142,391  | 5,484                     | 3.9        | 32,416   | 1,853                     | 5.7        | 17,617  | 410                       | 2.3        |
| Illinois*             | 2,302,746                              | 1,498,360  | 38,336                    | 2.6        | 148,862  | 3,582                     | 2.4        | 241,992   | 2,293                     | 0.9        |
| Indiana*              | 1,153,729                              | 713,740  | 41,143                    | 5.8        | 121,864  | 4,412                     | 3.6        | 95,270  | 736                       | 0.8        |
| Iowa*                 | 518,468                                | 321,603  | 7,145                     | 2.2        | 61,832   | 1,186                     | 1.9        | 35,910  | 179                       | 0.5        |
| Kansas                | 227,732                                | 87,299   | 1,476                     | 1.7        | 36,736   | 857                       | 2.3        | 27,326  | 146                       | 0.5        |
| Kentucky*             | 1,244,580                              | 847,920  | 59,056                    | 7.0        | 135,306  | 9,534                     | 7.0        | 80,917  | 717                       | 0.9        |
| Louisiana*            | 1,203,280                              | 729,906  | 25,709                    | 3.5        | 159,904  | 5,495                     | 3.4        | 83,363  | 535                       | 0.6        |
| Maine*                | 243,750                                | 129,911  | 12,323                    | 9.5        | 46,290   | 4,273                     | 9.2        | 28,281  | 265                       | 0.9        |
| Maryland*             | 1,019,693                              | 680,964  | 53,558                    | 7.9        | 96,654   | 12,487                    | 12.9       | 65,063  | 1,417                     | 2.2        |
| Massachusetts*        | 1,343,550                              | 704,225  | 48,902                    | 6.9        | 277,254  | 28,515                    | 10.3       | 188,909   | 3,210                     | 1.7        |
| Michigan*             | 2,144,205                              | 1,310,046  | 37,961                    | 2.9        | 295,969  | 10,306                    | 3.5        | 186,906   | 1,487                     | 0.8        |
| Minnesota*            | 870,206                                | 501,789  | 21,906                    | 4.4        | 96,863   | 4,812                     | 5.0        | 81,538  | 1,642                     | 2.0        |
| Mississippi           | 376,004                                | 97,440   | 1,809                     | 1.9        | 99,701   | 1,990                     | 2.0        | 49,072  | 309                       | 0.6        |
| Missouri              | 640,704                                | 176,972  | 5,504                     | 3.1        | 173,187  | 9,049                     | 5.2        | 86,689  | 670                       | 0.8        |
| Montana*              | 204,723                                | 139,419  | 6,523                     | 4.7        | 17,714   | 783                       | 4.4        | 13,123  | 182                       | 1.4        |
| Nebraska              | 188,521                                | 79,319   | 945                       | 1.2        | 34,028   | 772                       | 2.3        | 22,743  | 93                        | 0.4        |

Appendix Table D.4.ii (continued)

| State           | Total number of Medicaid beneficiaries | Adults (ages 19–64)  |                           |         |  |                           |         | Aged (ages 65+)                                       |                           |         |
|-----------------|--|--|---------------------------|---------|--|---------------------------|---------|---|---------------------------|---------|
|                 |  | Eligible for Medicaid due to reasons other than disability |                           |         | Eligible for Medicaid on the basis of disability |                           |         | All aged beneficiaries, including the dually eligible |                           |         |
|                 |  | Total number   | Number treated for an OUD | Percent | Total number                                     | Number treated for an OUD | Percent | Total number  | Number treated for an OUD | Percent |
| Nevada*         | 554,846                                | 386,306  | 12,347                    | 3.2     | 34,953   | 2,404                     | 6.9     | 24,963  | 664                       | 2.7     |
| New Hampshire*  | 159,972                                | 97,250   | 10,210                    | 10.5    | 17,770   | 1,604                     | 9.0     | 12,492  | 133                       | 1.1     |
| New Jersey*     | 1,273,197                              | 825,396  | 34,140                    | 4.1     | 112,902  | 9,427                     | 8.3     | 131,811   | 1,630                     | 1.2     |
| New Mexico*     | 600,496                                | 404,796  | 25,670                    | 6.3     | 44,503   | 4,732                     | 10.6    | 30,294  | 509                       | 1.7     |
| New York*       | 4,991,831                              | 3,292,327  | 95,091                    | 2.9     | 437,442  | 25,435                    | 5.8     | 631,366   | 5,933                     | 0.9     |
| North Carolina  | 1,097,581                              | 341,034  | 15,268                    | 4.5     | 267,644  | 13,478                    | 5.0     | 140,404   | 1,089                     | 0.8     |
| North Dakota*   | 78,841                                 | 46,115   | 1,824                     | 4.0     | 9,918  | 259                       | 2.6     | 8,729   | 44                        | 0.5     |
| Ohio*           | 2,182,908                              | 1,359,762  | 96,374                    | 7.1     | 283,783  | 18,405                    | 6.5     | 179,343   | 3,124                     | 1.7     |
| Oklahoma        | 486,831                                | 163,256  | 4,500                     | 2.8     | 98,833   | 4,372                     | 4.4     | 60,724  | 915                       | 1.5     |
| Oregon*         | 855,040                                | 678,005  | 32,039                    | 4.7     | 1,714  | 79                        | 4.6     | 62,020  | 1,486                     | 2.4     |
| Pennsylvania*   | 2,311,819                              | 1,288,547  | 93,680                    | 7.3     | 390,330  | 25,908                    | 6.6     | 244,907   | 2,178                     | 0.9     |
| Puerto Rico*    | 1,235,769                              | 743,186  | 3,244                     | 0.4     | 99,589   | 492                       | 0.5     | 284,789   | 684                       | 0.2     |
| Rhode Island*   | 241,697                                | 152,922  | 9,874                     | 6.5     | 32,087   | 3,178                     | 9.9     | 26,092  | 307                       | 1.2     |
| South Carolina  | 678,920                                | 236,715  | 6,692                     | 2.8     | 139,976  | 3,593                     | 2.6     | 97,354  | 256                       | 0.3     |
| South Dakota    | 66,215                                 | 19,690   | 375                       | 1.9     | 13,143   | 242                       | 1.8     | 8,726   | 33                        | 0.4     |
| Tennessee       | DQ                                     | DQ   | DQ                        | DQ      | DQ   | DQ                        | DQ      | DQ  | DQ                        | DQ      |
| Texas           | 2,285,299                              | 502,524  | 4,375                     | 0.9     | 417,694  | 8,679                     | 2.1     | 297,428   | 890                       | 0.3     |
| Utah*           | 256,550                                | 138,184  | 11,419                    | 8.3     | 34,916   | 2,312                     | 6.6     | 18,510  | 276                       | 1.5     |
| Vermont*        | 135,064                                | 81,319   | 8,538                     | 10.5    | 17,513   | 1,668                     | 9.5     | 12,041  | 120                       | 1.0     |
| Virginia*       | 1,109,619                              | 680,881  | 37,547                    | 5.5     | 122,639  | 7,933                     | 6.5     | 97,091  | 967                       | 1.0     |
| Virgin Islands* | 22,229                                 | 17,217   | 11                        | 0.1     | 537  | DS                        | DS      | 3,726   | 0                         | 0.0     |
| Washington*     | 1,438,197                              | 912,500  | 52,915                    | 5.8     | 128,657  | 9,447                     | 7.3     | 105,343   | 1,661                     | 1.6     |
| West Virginia*  | 434,982                                | 271,305  | 27,004                    | 10.0    | 62,951   | 4,145                     | 6.6     | 31,160  | 237                       | 0.8     |
| Wisconsin       | 873,848                                | 464,014  | 22,049                    | 4.8     | 147,314  | 5,427                     | 3.7     | 92,117  | 611                       | 0.7     |
| Wyoming         | 40,260                                 | 13,379   | 332                       | 2.5     | 8,189  | 228                       | 2.8     | 5,019   | 26                        | 0.5     |

Source: Analysis of the 2020 preliminary TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits.

Notes: The U.S. average is an overall average of the population in the states included in the table.

To identify beneficiaries with an OUD, we used National Drug Codes; diagnosis codes; and select procedure codes on Medicaid claims.

We used eligibility group and age to identify beneficiaries who were eligible for Medicaid on the basis of disability. Beneficiaries whose eligibility was unknown were considered “not disabled” for this analysis. Results for the aged group (65 and older) are not broken out by eligibility on the basis of disability because most of these beneficiaries are in an eligibility group that indicates they are dually eligible for Medicare and Medicaid.

\*The state implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

Appendix Table D.4.ii (*continued*)

DS = Data suppressed for confidentiality reasons because the group included fewer than 11 beneficiaries. If the size of a group that a state did not report because of confidentiality can be identified by using other numbers from that state, we did not report a second group within that state. Slightly different totals across the tables are a function of differences in the need to suppress data from one table to the next.

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.

**Appendix Table D.5. Distribution of Medicaid beneficiaries treated for an OUD in 2020, by age group and disability status**

| State                 | Total number of Medicaid beneficiaries treated for an OUD | Children (ages 12–18)                                      |            |  |            | Adults (ages 19–64)  |             |  |             | Aged (ages 65+)   |            |
|-----------------------|---|--|------------|--|------------|--|-------------|--|-------------|---|------------|
|                       |   | Eligible for Medicaid due to reasons other than disability |            | Eligible for Medicaid on the basis of disability |            | Eligible for Medicaid due to reasons other than disability |             | Eligible for Medicaid on the basis of disability |             | All aged beneficiaries treated for a SUD, including the dually eligible |            |
|                       |   | Number treated for an OUD                                  | Percent    | Number treated for an OUD                        | Percent    | Number treated for an OUD                                  | Percent     | Number treated for an OUD                        | Percent     | Number treated for an OUD   | Percent    |
| <b>United States</b>  | <b>1,614,639</b>  | <b>8,917</b>   | <b>0.6</b> | <b>2,015</b>                                     | <b>0.1</b> | <b>1,214,043</b>   | <b>75.2</b> | <b>333,129</b>                                   | <b>20.6</b> | <b>54,918</b>   | <b>3.4</b> |
| Alabama               | 10,906  | 129  | 1.2        | 43   | 0.4        | 5,577  | 51.1        | 4,771  | 43.7        | 386   | 3.5        |
| Alaska*               | 7,064   | DS   | DS         | DS   | DS         | 6,171  | 87.4        | 706  | 10.0        | 147   | 2.1        |
| Arizona*              | 59,161  | 853  | 1.4        | 80   | 0.1        | 48,435   | 81.9        | 8,053  | 13.6        | 1,740   | 2.9        |
| Arkansas*             | 5,312   | 95   | 1.8        | 38   | 0.7        | 3,166  | 59.6        | 1,816  | 34.2        | 197   | 3.7        |
| California*           | 121,887   | 1,209  | 1.0        | 268  | 0.2        | 76,086   | 62.4        | 34,787   | 28.5        | 9,537   | 7.8        |
| Colorado*             | 31,049  | 261  | 0.8        | 18   | 0.1        | 26,332   | 84.8        | 3,851  | 12.4        | 587   | 1.9        |
| Connecticut*          | 39,099  | DS   | DS         | DS   | DS         | 35,133   | 89.9        | 2,897  | 7.4         | 947   | 2.4        |
| Delaware*             | 12,337  | 21   | 0.2        | 14   | 0.1        | 11,120   | 90.1        | 1,068  | 8.7         | 114   | 0.9        |
| District of Columbia* | 4,537   | DS   | DS         | DS   | DS         | 2,424  | 53.4        | 1,591  | 35.1        | 513   | 11.3       |
| Florida               | 35,444  | 363  | 1.0        | 115  | 0.3        | 18,606   | 52.5        | 14,746   | 41.6        | 1,614   | 4.6        |
| Georgia               | 11,820  | 199  | 1.7        | 44   | 0.4        | 5,342  | 45.2        | 5,475  | 46.3        | 760   | 6.4        |
| Hawaii*               | 3,282   | DS   | DS         | DS   | DS         | 2,364  | 72.0        | 586  | 17.9        | 312   | 9.5        |
| Idaho*                | 7,826   | 62   | 0.8        | 17   | 0.2        | 5,484  | 70.1        | 1,853  | 23.7        | 410   | 5.2        |
| Illinois*             | 44,444  | 204  | 0.5        | 29   | 0.1        | 38,336   | 86.3        | 3,582  | 8.1         | 2,293   | 5.2        |
| Indiana*              | 46,564  | 211  | 0.5        | 62   | 0.1        | 41,143   | 88.4        | 4,412  | 9.5         | 736   | 1.6        |
| Iowa*                 | 8,671   | 125  | 1.4        | 36   | 0.4        | 7,145  | 82.4        | 1,186  | 13.7        | 179   | 2.1        |
| Kansas                | 2,686   | 162  | 6.0        | 45   | 1.7        | 1,476  | 55.0        | 857  | 31.9        | 146   | 5.4        |
| Kentucky*             | 69,543  | 192  | 0.3        | 44   | 0.1        | 59,056   | 84.9        | 9,534  | 13.7        | 717   | 1.0        |
| Louisiana*            | 31,903  | 130  | 0.4        | 34   | 0.1        | 25,709   | 80.6        | 5,495  | 17.2        | 535   | 1.7        |
| Maine*                | 16,923  | 45   | 0.3        | 17   | 0.1        | 12,323   | 72.8        | 4,273  | 25.2        | 265   | 1.6        |
| Maryland*             | 67,737  | 233  | 0.3        | 42   | 0.1        | 53,558   | 79.1        | 12,487   | 18.4        | 1,417   | 2.1        |
| Massachusetts*        | 80,804  | 120  | 0.1        | 57   | 0.1        | 48,902   | 60.5        | 28,515   | 35.3        | 3,210   | 4.0        |
| Michigan*             | 50,001  | 191  | 0.4        | 56   | 0.1        | 37,961   | 75.9        | 10,306   | 20.6        | 1,487   | 3.0        |
| Minnesota*            | 28,654  | 270  | 0.9        | 24   | 0.1        | 21,906   | 76.5        | 4,812  | 16.8        | 1,642   | 5.7        |
| Mississippi           | 4,237   | 93   | 2.2        | 36   | 0.8        | 1,809  | 42.7        | 1,990  | 47.0        | 309   | 7.3        |
| Missouri              | 15,597  | DS   | DS         | DS   | DS         | 5,504  | 35.3        | 9,049  | 58.0        | 670   | 4.3        |
| Montana*              | 7,558   | DS   | DS         | DS   | DS         | 6,523  | 86.3        | 783  | 10.4        | 182   | 2.4        |
| Nebraska              | 1,842   | DS   | DS         | DS   | DS         | 945  | 51.3        | 772  | 41.9        | 93  | 5.0        |

Appendix Table D.5 (continued)

| State           | Total number of Medicaid beneficiaries treated for an OUD | Children (ages 12–18)                                      |         |  |         | Adults (ages 19–64)  |         |  |         | Aged (ages 65+)   |         |
|-----------------|---|--|---------|--|---------|--|---------|--|---------|---|---------|
|                 |   | Eligible for Medicaid due to reasons other than disability |         | Eligible for Medicaid on the basis of disability |         | Eligible for Medicaid due to reasons other than disability |         | Eligible for Medicaid on the basis of disability |         | All aged beneficiaries treated for a SUD, including the dually eligible |         |
|                 |   | Number treated for an OUD                                  | Percent | Number treated for an OUD                        | Percent | Number treated for an OUD                                  | Percent | Number treated for an OUD                        | Percent | Number treated for an OUD   | Percent |
| Nevada*         | 15,489  | DS   | DS      | DS   | DS      | 12,347   | 79.7    | 2,404  | 15.5    | 664   | 4.3     |
| New Hampshire*  | 11,986  | DS   | DS      | DS   | DS      | 10,210   | 85.2    | 1,604  | 13.4    | 133   | 1.1     |
| New Jersey*     | 45,322  | 95   | 0.2     | 30   | 0.1     | 34,140   | 75.3    | 9,427  | 20.8    | 1,630   | 3.6     |
| New Mexico*     | 31,455  | 492  | 1.6     | 52   | 0.2     | 25,670   | 81.6    | 4,732  | 15.0    | 509   | 1.6     |
| New York*       | 126,757   | 228  | 0.2     | 70   | 0.1     | 95,091   | 75.0    | 25,435   | 20.1    | 5,933   | 4.7     |
| North Carolina  | 30,114  | 221  | 0.7     | 58   | 0.2     | 15,268   | 50.7    | 13,478   | 44.8    | 1,089   | 3.6     |
| North Dakota*   | 2,149   | 22   | 1.0     | 0  | 0.0     | 1,824  | 84.9    | 259  | 12.1    | 44  | 2.0     |
| Ohio*           | 118,446   | 438  | 0.4     | 105  | 0.1     | 96,374   | 81.4    | 18,405   | 15.5    | 3,124   | 2.6     |
| Oklahoma        | 9,952   | DS   | DS      | DS   | DS      | 4,500  | 45.2    | 4,372  | 43.9    | 915   | 9.2     |
| Oregon*         | 33,767  | 162  | 0.5     | DS   | DS      | 32,039   | 94.9    | DS   | DS      | 1,486   | 4.4     |
| Pennsylvania*   | 122,252   | 278  | 0.2     | 208  | 0.2     | 93,680   | 76.6    | 25,908   | 21.2    | 2,178   | 1.8     |
| Puerto Rico*    | 4,424   | DS   | DS      | 0  | 0.0     | 3,244  | 73.3    | DS   | DS      | 684   | 15.5    |
| Rhode Island*   | 13,425  | 51   | 0.4     | 15   | 0.1     | 9,874  | 73.5    | 3,178  | 23.7    | 307   | 2.3     |
| South Carolina  | 10,685  | 115  | 1.1     | 29   | 0.3     | 6,692  | 62.6    | 3,593  | 33.6    | 256   | 2.4     |
| South Dakota    | 687   | DS   | DS      | DS   | DS      | 375  | 54.6    | 242  | 35.2    | 33  | 4.8     |
| Tennessee       | DQ  | DQ   | DQ      | DQ   | DQ      | DQ   | DQ      | DQ   | DQ      | DQ  | DQ      |
| Texas           | 14,847  | 714  | 4.8     | 189  | 1.3     | 4,375  | 29.5    | 8,679  | 58.5    | 890   | 6.0     |
| Utah*           | 14,090  | 67   | 0.5     | 16   | 0.1     | 11,419   | 81.0    | 2,312  | 16.4    | 276   | 2.0     |
| Vermont*        | 10,357  | DS   | DS      | DS   | DS      | 8,538  | 82.4    | 1,668  | 16.1    | 120   | 1.2     |
| Virginia*       | 46,846  | 337  | 0.7     | 62   | 0.1     | 37,547   | 80.1    | 7,933  | 16.9    | 967   | 2.1     |
| Virgin Islands* | 13  | 0  | 0.0     | 0  | 0.0     | DS   | DS      | DS   | DS      | 0   | 0.0     |
| Washington*     | 64,410  | 362  | 0.6     | 25   | 0.0     | 52,915   | 82.2    | 9,447  | 14.7    | 1,661   | 2.6     |
| West Virginia*  | 31,485  | 85   | 0.3     | 14   | 0.0     | 27,004   | 85.8    | 4,145  | 13.2    | 237   | 0.8     |
| Wisconsin       | 28,192  | 82   | 0.3     | 23   | 0.1     | 22,049   | 78.2    | 5,427  | 19.3    | 611   | 2.2     |
| Wyoming         | 601   | DS   | DS      | DS   | DS      | 332  | 55.2    | 228  | 37.9    | 26  | 4.3     |

Source: Analysis of the 2020 preliminary TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits.

Notes: The U.S. average is an overall average of the population in the states included in the table.

To identify beneficiaries with an OUD, we used National Drug Codes; diagnosis codes; and select procedure codes on Medicaid claims.

We used eligibility group and age to identify beneficiaries who were eligible for Medicaid on the basis of disability. Beneficiaries with unknown eligibility were considered "not disabled" for this analysis. Results for the aged group (65 and older) are not broken out by eligibility on the basis of disability because most of these beneficiaries are in an eligibility group that indicates they are dually eligible for Medicare and Medicaid.

Appendix Table D.5 (*continued*)

\*The state implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

DS = Data suppressed for confidentiality reasons because the group included fewer than 11 beneficiaries. If the size of a group that a state did not report because of confidentiality can be identified by using other numbers from that state, we did not report a second group within that state. Slightly different totals across the tables are a function of differences in the need to suppress data from one table to the next.

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.

**Appendix Table D.6. SUD treatment service types *not* billed for Medicaid beneficiaries with an OUD in 2020, by state**

| Service                  | Count of states and territories that <i>do not</i> have claims for the service | States and territories that <i>do not</i> have claims for the service  |
|--------------------------|--|--|
| Case management          | 6  | Alabama, Arkansas,* Nebraska, Puerto Rico,* South Dakota, Virgin Islands*  |
| Community support        | 1  | Virgin Islands*  |
| Consultation             | 3  | Kansas, Montana,* Virgin Islands*  |
| Counseling               | 0  | —  |
| Detoxification           | 1  | Virgin Islands*  |
| Emergency services       | 0  | —  |
| Inpatient care           | 0  | —  |
| Intervention services    | 1  | Virgin Islands*  |
| MAT                      | 0  | —  |
| Medication management    | 6  | Hawaii,* Iowa,* Montana,* Nebraska, South Dakota, Virgin Islands,*   |
| Observation care         | 1  | Virgin Islands*  |
| Partial hospitalization  | 12   | Colorado,* District of Columbia,* Illinois,* Kansas, Louisiana,* Maine,* Oklahoma, South Carolina, South Dakota, Utah*, Virgin Islands,* Wisconsin, Wyoming                                    |
| Peer support             | 14   | Arkansas,* California,* Connecticut,* Illinois,* Louisiana,* Maine,* Maryland,* Nebraska, North Dakota,* Oklahoma, Puerto Rico,* South Dakota, Vermont,* Virginia,* Virgin Islands,* Wisconsin |
| Physician services       | 0  | —  |
| Pharmacotherapy          | 0  | —  |
| Screening and assessment | 0  | —  |
| Treatment program        | 5  | District of Columbia,* Oklahoma, Puerto Rico,* Virgin Islands,* Wyoming  |
| Other services           | 1  | Virgin Islands*  |

Source: Analysis of the 2020 preliminary TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits.

Note: "Other" services include services without sufficient detail to be categorized and services that did not fit into any of the other categories.

\*The state implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

**Appendix Table D.7.i. Number and percentage of Medicaid beneficiaries treated for an OUD in 2020, by service type**

| State                 | Total number of Medicaid beneficiaries with an OUD | Case management |            | Community support |            | Consultation   |            | Counseling     |             | Detoxification |            | Emergency services |             |
|-----------------------|--|-----------------|------------|-------------------|------------|----------------|------------|----------------|-------------|----------------|------------|--------------------|-------------|
|                       |  | Number          | Percent    | Number            | Percent    | Number         | Percent    | Number         | Percent     | Number         | Percent    | Number             | Percent     |
| <b>United States</b>  | <b>1,614,639</b>                                   | <b>158,616</b>  | <b>9.8</b> | <b>60,215</b>     | <b>3.7</b> | <b>160,499</b> | <b>9.9</b> | <b>629,288</b> | <b>39.0</b> | <b>137,547</b> | <b>8.5</b> | <b>524,216</b>     | <b>32.5</b> |
| Alabama               | 10,906   | 0               | 0.0        | 16                | 0.1        | 1,640          | 15.0       | 1,226          | 11.2        | 532            | 4.9        | 4,491              | 41.2        |
| Alaska*               | 7,064  | 596             | 8.4        | 1,788             | 25.3       | 128            | 1.8        | 995            | 14.1        | 259            | 3.7        | 2,213              | 31.3        |
| Arizona*              | 59,161   | 32,666          | 55.2       | 1,709             | 2.9        | 6,754          | 11.4       | 27,079         | 45.8        | 2,481          | 4.2        | 18,963             | 32.1        |
| Arkansas*             | 5,312  | 0               | 0.0        | 14                | 0.3        | 745            | 14.0       | 455            | 8.6         | 53             | 1.0        | 1,701              | 32.0        |
| California*           | 121,887  | 12,740          | 10.5       | 1,756             | 1.4        | 13,961         | 11.5       | 51,434         | 42.2        | 4,518          | 3.7        | 40,543             | 33.3        |
| Colorado*             | 31,049   | 3,028           | 9.8        | 520               | 1.7        | 35             | 0.1        | 7,748          | 25.0        | 139            | 0.4        | 12,029             | 38.7        |
| Connecticut*          | 39,099   | 24              | 0.1        | 51                | 0.1        | 9,475          | 24.2       | 11,743         | 30.0        | 1,473          | 3.8        | 10,818             | 27.7        |
| Delaware*             | 12,337   | DS              | DS         | 82                | 0.7        | 31             | 0.3        | 6,362          | 51.6        | 1,187          | 9.6        | 3,581              | 29.0        |
| District of Columbia* | 4,537  | 300             | 6.6        | 12                | 0.3        | 578            | 12.7       | 994            | 21.9        | 31             | 0.7        | 1,765              | 38.9        |
| Florida               | 35,444   | 124             | 0.3        | 9,234             | 26.1       | 7,172          | 20.2       | 2,690          | 7.6         | 1,186          | 3.3        | 14,685             | 41.4        |
| Georgia               | 11,820   | 101             | 0.9        | 420               | 3.6        | 269            | 2.3        | 2,593          | 21.9        | 386            | 3.3        | 4,079              | 34.5        |
| Hawaii*               | 3,282  | DS              | DS         | 16                | 0.5        | 23             | 0.7        | 917            | 27.9        | 20             | 0.6        | 1,173              | 35.7        |
| Idaho*                | 7,826  | 912             | 11.7       | 65                | 0.8        | 1,506          | 19.2       | 2,478          | 31.7        | 393            | 5.0        | 2,408              | 30.8        |
| Illinois*             | 44,444   | 1,182           | 2.7        | 618               | 1.4        | 13,555         | 30.5       | 19,149         | 43.1        | 2,348          | 5.3        | 15,649             | 35.2        |
| Indiana*              | 46,564   | 3,119           | 6.7        | 265               | 0.6        | 360            | 0.8        | 15,862         | 34.1        | 4,847          | 10.4       | 9,455              | 20.3        |
| Iowa*                 | 8,671  | 163             | 1.9        | 352               | 4.1        | 1,281          | 14.8       | 3,574          | 41.2        | 280            | 3.2        | 3,084              | 35.6        |
| Kansas                | 2,686  | 68              | 2.5        | 33                | 1.2        | 0              | 0.0        | 690            | 25.7        | 58             | 2.2        | 1,005              | 37.4        |
| Kentucky*             | 69,543   | 16,030          | 23.1       | 2,497             | 3.6        | 2,970          | 4.3        | 41,225         | 59.3        | 9,757          | 14.0       | 20,232             | 29.1        |
| Louisiana*            | 31,903   | DS              | DS         | 2,075             | 6.5        | 3,356          | 10.5       | 5,009          | 15.7        | 3,884          | 12.2       | 12,701             | 39.8        |
| Maine*                | 16,923   | 212             | 1.3        | 249               | 1.5        | 3,133          | 18.5       | 5,988          | 35.4        | 771            | 4.6        | 4,593              | 27.1        |
| Maryland*             | 67,737   | 21              | 0.0        | 78                | 0.1        | 2,484          | 3.7        | 37,660         | 55.6        | 789            | 1.2        | 19,872             | 29.3        |
| Massachusetts*        | 80,804   | 29              | 0.0        | 9,473             | 11.7       | 13,285         | 16.4       | 28,070         | 34.7        | 6,680          | 8.3        | 29,549             | 36.6        |
| Michigan*             | 50,001   | 4,342           | 8.7        | 2,990             | 6.0        | 2,283          | 4.6        | 23,560         | 47.1        | 5,641          | 11.3       | 16,722             | 33.4        |
| Minnesota*            | 28,654   | 3,156           | 11.0       | 351               | 1.2        | 1,583          | 5.5        | 4,017          | 14.0        | 1,157          | 4.0        | 11,524             | 40.2        |
| Mississippi           | 4,237  | 29              | 0.7        | 53                | 1.3        | 58             | 1.4        | 1,134          | 26.8        | 29             | 0.7        | 1,305              | 30.8        |
| Missouri              | 15,597   | DS              | DS         | 3,499             | 22.4       | 1,372          | 8.8        | 5,243          | 33.6        | 729            | 4.7        | 5,193              | 33.3        |
| Montana*              | 7,558  | 267             | 3.5        | 28                | 0.4        | 0              | 0.0        | 2,610          | 34.5        | 464            | 6.1        | 2,509              | 33.2        |
| Nebraska              | 1,842  | 0               | 0.0        | 61                | 3.3        | 28             | 1.5        | 275            | 14.9        | 87             | 4.7        | 719                | 39.0        |
| Nevada*               | 15,489   | 1,146           | 7.4        | 105               | 0.7        | 293            | 1.9        | 3,020          | 19.5        | 1,230          | 7.9        | 4,916              | 31.7        |
| New Hampshire*        | 11,986   | 592             | 4.9        | 835               | 7.0        | 1,725          | 14.4       | 4,783          | 39.9        | 591            | 4.9        | 3,004              | 25.1        |
| New Jersey*           | 45,322   | 2,155           | 4.8        | 113               | 0.2        | 2,250          | 5.0        | 12,433         | 27.4        | 6,533          | 14.4       | 13,664             | 30.1        |



Appendix Table D.7.i (continued)

| State           | Total number of Medicaid beneficiaries with an OUD | Case management |         | Community support |         | Consultation |         | Counseling |         | Detoxification |         | Emergency services |         |
|-----------------|--|-----------------|---------|-------------------|---------|--------------|---------|------------|---------|----------------|---------|--------------------|---------|
|                 |  | Number          | Percent | Number            | Percent | Number       | Percent | Number     | Percent | Number         | Percent | Number             | Percent |
| New Mexico*     | 31,455   | 100             | 0.3     | 632               | 2.0     | 2,094        | 6.7     | 7,215      | 22.9    | 1,011          | 3.2     | 8,760              | 27.8    |
| New York*       | 126,757  | DS              | DS      | 70                | 0.1     | 1,222        | 1.0     | 42,598     | 33.6    | 12,458         | 9.8     | 42,519             | 33.5    |
| North Carolina  | 30,114   | 679             | 2.3     | 300               | 1.0     | 2,704        | 9.0     | 11,755     | 39.0    | 437            | 1.5     | 9,349              | 31.0    |
| North Dakota*   | 2,149  | 165             | 7.7     | 65                | 3.0     | 35           | 1.6     | 868        | 40.4    | 50             | 2.3     | 797                | 37.1    |
| Ohio*           | 118,446  | 47,013          | 39.7    | 9,814             | 8.3     | 17,151       | 14.5    | 76,789     | 64.8    | 24,755         | 20.9    | 48,767             | 41.2    |
| Oklahoma        | 9,952  | 644             | 6.5     | 722               | 7.3     | 607          | 6.1     | 2,146      | 21.6    | 64             | 0.6     | 2,170              | 21.8    |
| Oregon*         | 33,767   | 4,994           | 14.8    | 94                | 0.3     | 36           | 0.1     | 17,401     | 51.5    | 4,904          | 14.5    | 11,076             | 32.8    |
| Pennsylvania*   | 122,252  | 4,444           | 3.6     | 3,793             | 3.1     | 25,969       | 21.2    | 44,462     | 36.4    | 17,527         | 14.3    | 36,737             | 30.1    |
| Puerto Rico*    | 4,424  | 0               | 0.0     | 18                | 0.4     | 29           | 0.7     | 1,893      | 42.8    | 218            | 4.9     | 405                | 9.2     |
| Rhode Island*   | 13,425   | 3,426           | 25.5    | 21                | 0.2     | 203          | 1.5     | 4,615      | 34.4    | 72             | 0.5     | 2,677              | 19.9    |
| South Carolina  | 10,685   | 192             | 1.8     | 81                | 0.8     | 546          | 5.1     | 2,809      | 26.3    | 231            | 2.2     | 3,125              | 29.2    |
| South Dakota    | 687  | 0               | 0.0     | 20                | 2.9     | DS           | DS      | 99         | 14.4    | DS             | DS      | 249                | 36.2    |
| Tennessee       | DQ   | DQ              | DQ      | DQ                | DQ      | DQ           | DQ      | DQ         | DQ      | DQ             | DQ      | DQ                 | DQ      |
| Texas           | 14,847   | 253             | 1.7     | 166               | 1.1     | 792          | 5.3     | 3,470      | 23.4    | 904            | 6.1     | 4,488              | 30.2    |
| Utah*           | 14,090   | 1,225           | 8.7     | 1,226             | 8.7     | 35           | 0.2     | 2,711      | 19.2    | 765            | 5.4     | 4,244              | 30.1    |
| Vermont*        | 10,357   | 682             | 6.6     | 218               | 2.1     | 2,170        | 21.0    | 2,911      | 28.1    | 347            | 3.4     | 2,355              | 22.7    |
| Virginia*       | 46,846   | 2,638           | 5.6     | 1,627             | 3.5     | 342          | 0.7     | 24,616     | 52.5    | 8,155          | 17.4    | 12,738             | 27.2    |
| Virgin Islands* | 13   | 0               | 0.0     | 0                 | 0.0     | 0            | 0.0     | DS         | DS      | 0              | 0.0     | DS                 | DS      |
| Washington*     | 64,410   | 7,301           | 11.3    | 1,202             | 1.9     | 7,525        | 11.7    | 24,177     | 37.5    | 4,780          | 7.4     | 22,440             | 34.8    |
| West Virginia*  | 31,485   | 1,644           | 5.2     | 67                | 0.2     | 4,666        | 14.8    | 20,210     | 64.2    | 640            | 2.0     | 7,764              | 24.7    |
| Wisconsin       | 28,192   | 175             | 0.6     | 635               | 2.3     | 1,950        | 6.9     | 7,436      | 26.4    | 1,696          | 6.0     | 9,216              | 32.7    |
| Wyoming         | 601  | 39              | 6.5     | 86                | 14.3    | 90           | 15.0    | 91         | 15.1    | DS             | DS      | 195                | 32.4    |

**Appendix Table D.7.ii. Number and percentage of Medicaid beneficiaries treated for an OUD in 2020, by service type**

| State                 | Total number of Medicaid beneficiaries with an OUD | Inpatient care |             | Intervention  |            | MAT              |             | Medication management |            | Observation care |            | Other          |             |
|-----------------------|--|----------------|-------------|---------------|------------|------------------|-------------|-----------------------|------------|------------------|------------|----------------|-------------|
|                       |  | Number         | Percent     | Number        | Percent    | Number           | Percent     | Number                | Percent    | Number           | Percent    | Number         | Percent     |
| <b>United States</b>  | <b>1,614,639</b>                                   | <b>400,064</b> | <b>24.8</b> | <b>80,198</b> | <b>5.0</b> | <b>1,257,572</b> | <b>77.9</b> | <b>41,734</b>         | <b>2.6</b> | <b>68,045</b>    | <b>4.2</b> | <b>201,720</b> | <b>12.5</b> |
| Alabama               | 10,906   | 3,243          | 29.7        | 149           | 1.4        | 8,288            | 76.0        | 236                   | 2.2        | 148              | 1.4        | 1,687          | 15.5        |
| Alaska*               | 7,064  | 1,453          | 20.6        | 283           | 4.0        | 5,948            | 84.2        | 312                   | 4.4        | 305              | 4.3        | 1,570          | 22.2        |
| Arizona*              | 59,161   | 20,771         | 35.1        | 7,055         | 11.9       | 44,183           | 74.7        | 18,138                | 30.7       | 3,267            | 5.5        | 20,901         | 35.3        |
| Arkansas*             | 5,312  | 1,758          | 33.1        | 42            | 0.8        | 3,849            | 72.5        | DS                    | DS         | 167              | 3.1        | 141            | 2.7         |
| California*           | 121,887  | 27,438         | 22.5        | 1,677         | 1.4        | 90,685           | 74.4        | 2,649                 | 2.2        | 2,494            | 2.0        | 3,096          | 2.5         |
| Colorado*             | 31,049   | 7,153          | 23.0        | 1,653         | 5.3        | 25,615           | 82.5        | 407                   | 1.3        | 2,448            | 7.9        | 1,677          | 5.4         |
| Connecticut*          | 39,099   | 7,791          | 19.9        | 1,211         | 3.1        | 34,866           | 89.2        | 44                    | 0.1        | 1,116            | 2.9        | 1,615          | 4.1         |
| Delaware*             | 12,337   | 3,136          | 25.4        | 315           | 2.6        | 10,958           | 88.8        | 33                    | 0.3        | 369              | 3.0        | 799            | 6.5         |
| District of Columbia* | 4,537  | 1,767          | 38.9        | 88            | 1.9        | 3,701            | 81.6        | DS                    | DS         | 158              | 3.5        | 662            | 14.6        |
| Florida               | 35,444   | 13,117         | 37.0        | 421           | 1.2        | 25,309           | 71.4        | 541                   | 1.5        | 2,970            | 8.4        | 5,599          | 15.8        |
| Georgia               | 11,820   | 3,370          | 28.5        | 139           | 1.2        | 7,698            | 65.1        | 117                   | 1.0        | 544              | 4.6        | 1,421          | 12.0        |
| Hawaii*               | 3,282  | 811            | 24.7        | 23            | 0.7        | 2,410            | 73.4        | 0                     | 0.0        | 232              | 7.1        | 130            | 4.0         |
| Idaho*                | 7,826  | 1,998          | 25.5        | 202           | 2.6        | 5,843            | 74.7        | 78                    | 1.0        | 300              | 3.8        | 1,009          | 12.9        |
| Illinois*             | 44,444   | 15,309         | 34.4        | 2,035         | 4.6        | 23,723           | 53.4        | 1,760                 | 4.0        | 2,344            | 5.3        | 931            | 2.1         |
| Indiana*              | 46,564   | 10,466         | 22.5        | 689           | 1.5        | 40,142           | 86.2        | 1,577                 | 3.4        | 1,474            | 3.2        | 5,346          | 11.5        |
| Iowa*                 | 8,671  | 2,509          | 28.9        | 89            | 1.0        | 7,290            | 84.1        | 0                     | 0.0        | 616              | 7.1        | 617            | 7.1         |
| Kansas                | 2,686  | 912            | 34.0        | 72            | 2.7        | 1,888            | 70.3        | DS                    | DS         | 172              | 6.4        | 66             | 2.5         |
| Kentucky*             | 69,543   | 14,421         | 20.7        | 3,266         | 4.7        | 57,750           | 83.0        | 212                   | 0.3        | 1,783            | 2.6        | 23,185         | 33.3        |
| Louisiana*            | 31,903   | 11,762         | 36.9        | 226           | 0.7        | 24,295           | 76.2        | DS                    | DS         | 1,150            | 3.6        | 368            | 1.2         |
| Maine*                | 16,923   | 2,927          | 17.3        | 605           | 3.6        | 14,302           | 84.5        | 1,795                 | 10.6       | 572              | 3.4        | 836            | 4.9         |
| Maryland*             | 67,737   | 12,448         | 18.4        | 696           | 1.0        | 59,905           | 88.4        | 294                   | 0.4        | 3,640            | 5.4        | 10,054         | 14.8        |
| Massachusetts*        | 80,804   | 20,749         | 25.7        | 7,152         | 8.9        | 68,409           | 84.7        | 208                   | 0.3        | 5,026            | 6.2        | 1,884          | 2.3         |
| Michigan*             | 50,001   | 10,073         | 20.1        | 3,251         | 6.5        | 33,058           | 66.1        | 23                    | 0.0        | 2,091            | 4.2        | 4,247          | 8.5         |
| Minnesota*            | 28,654   | 8,189          | 28.6        | 471           | 1.6        | 23,057           | 80.5        | 30                    | 0.1        | 2,148            | 7.5        | 2,441          | 8.5         |
| Mississippi           | 4,237  | 1,302          | 30.7        | 71            | 1.7        | 2,813            | 66.4        | DS                    | DS         | 204              | 4.8        | 213            | 5.0         |
| Missouri              | 15,597   | 4,761          | 30.5        | 69            | 0.4        | 12,450           | 79.8        | 248                   | 1.6        | 780              | 5.0        | 2,832          | 18.2        |
| Montana*              | 7,558  | 1,793          | 23.7        | 70            | 0.9        | 6,395            | 84.6        | 0                     | 0.0        | 340              | 4.5        | 3,439          | 45.5        |
| Nebraska              | 1,842  | 626            | 34.0        | 14            | 0.8        | 1,363            | 74.0        | 0                     | 0.0        | 105              | 5.7        | 91             | 4.9         |
| Nevada*               | 15,489   | 4,741          | 30.6        | 1,571         | 10.1       | 10,769           | 69.5        | 1,380                 | 8.9        | 730              | 4.7        | 3,535          | 22.8        |
| New Hampshire*        | 11,986   | 1,873          | 15.6        | 466           | 3.9        | 10,506           | 87.7        | 20                    | 0.2        | 253              | 2.1        | 648            | 5.4         |
| New Jersey*           | 45,322   | 10,200         | 22.5        | 1,008         | 2.2        | 37,466           | 82.7        | 431                   | 1.0        | 3,339            | 7.4        | 958            | 2.1         |

Appendix Table D.7.ii (continued)

| State           | Total number of Medicaid beneficiaries with an OUD | Inpatient care |         | Intervention |         | MAT    |         | Medication management |         | Observation care |         | Other  |         |
|-----------------|--|----------------|---------|--------------|---------|--------|---------|-----------------------|---------|------------------|---------|--------|---------|
|                 |  | Number         | Percent | Number       | Percent | Number | Percent | Number                | Percent | Number           | Percent | Number | Percent |
| New Mexico*     | 31,455   | 6,866          | 21.8    | 437          | 1.4     | 28,620 | 91.0    | 188                   | 0.6     | 912              | 2.9     | 4,157  | 13.2    |
| New York*       | 126,757  | 39,850         | 31.4    | 4,754        | 3.8     | 73,608 | 58.1    | 2,970                 | 2.3     | 4,118            | 3.2     | 1,572  | 1.2     |
| North Carolina  | 30,114   | 8,193          | 27.2    | 1,564        | 5.2     | 19,762 | 65.6    | DS                    | DS      | 1,267            | 4.2     | 2,371  | 7.9     |
| North Dakota*   | 2,149  | 636            | 29.6    | 18           | 0.8     | 1,659  | 77.2    | 324                   | 15.1    | 155              | 7.2     | 683    | 31.8    |
| Ohio*           | 118,446  | 29,421         | 24.8    | 2,586        | 2.2     | 96,780 | 81.7    | 993                   | 0.8     | 6,899            | 5.8     | 35,971 | 30.4    |
| Oklahoma        | 9,952  | 2,683          | 27.0    | 97           | 1.0     | 5,925  | 59.5    | 50                    | 0.5     | 230              | 2.3     | 961    | 9.7     |
| Oregon*         | 33,767   | 6,610          | 19.6    | 1,547        | 4.6     | 28,782 | 85.2    | 1,328                 | 3.9     | 1,472            | 4.4     | 10,294 | 30.5    |
| Pennsylvania*   | 122,252  | 24,877         | 20.3    | 5,248        | 4.3     | 96,917 | 79.3    | 4,731                 | 3.9     | 4,264            | 3.5     | 8,580  | 7.0     |
| Puerto Rico*    | 4,424  | 902            | 20.4    | 56           | 1.3     | 2,589  | 58.5    | DS                    | DS      | 106              | 2.4     | 156    | 3.5     |
| Rhode Island*   | 13,425   | 1,875          | 14.0    | 728          | 5.4     | 12,537 | 93.4    | 35                    | 0.3     | 312              | 2.3     | 3,107  | 23.1    |
| South Carolina  | 10,685   | 2,398          | 22.4    | 163          | 1.5     | 8,872  | 83.0    | 132                   | 1.2     | 293              | 2.7     | 2,166  | 20.3    |
| South Dakota    | 687  | 247            | 36.0    | DS           | DS      | 533    | 77.6    | 0                     | 0.0     | 33               | 4.8     | 20     | 2.9     |
| Tennessee       | DQ   | DQ             | DQ      | DQ           | DQ      | DQ     | DQ      | DQ                    | DQ      | DQ               | DQ      | DQ     | DQ      |
| Texas           | 14,847   | 5,148          | 34.7    | 210          | 1.4     | 10,859 | 73.1    | 208                   | 1.4     | 800              | 5.4     | 1,042  | 7.0     |
| Utah*           | 14,090   | 3,483          | 24.7    | 35           | 0.2     | 8,923  | 63.3    | 37                    | 0.3     | 240              | 1.7     | 381    | 2.7     |
| Vermont*        | 10,357   | 1,536          | 14.8    | 385          | 3.7     | 9,065  | 87.5    | DS                    | DS      | 114              | 1.1     | 123    | 1.2     |
| Virginia*       | 46,846   | 10,593         | 22.6    | 270          | 0.6     | 40,598 | 86.7    | 61                    | 0.1     | 1,302            | 2.8     | 1,254  | 2.7     |
| Virgin Islands* | 13   | DS             | DS      | 0            | 0.0     | DS     | DS      | 0                     | 0.0     | 0                | 0.0     | 0      | 0.0     |
| Washington*     | 64,410   | 13,123         | 20.4    | 12,255       | 19.0    | 55,423 | 86.0    | 72                    | 0.1     | 2,117            | 3.3     | 20,771 | 32.2    |
| West Virginia*  | 31,485   | 5,513          | 17.5    | 3,676        | 11.7    | 26,723 | 84.9    | 72                    | 0.2     | 751              | 2.4     | 4,586  | 14.6    |
| Wisconsin       | 28,192   | 7,080          | 25.1    | 11,090       | 39.3    | 24,045 | 85.3    | DS                    | DS      | 1,345            | 4.8     | 1,499  | 5.3     |
| Wyoming         | 601  | 163            | 27.1    | DS           | DS      | 418    | 69.6    | DS                    | DS      | 30               | 5.0     | 28     | 4.7     |

**Appendix Table D.7.iii. Number and percentage of Medicaid beneficiaries treated for an OUD in 2020, by service type**

| State                 | Total number of Medicaid beneficiaries with an OUD | Partial hospitalization |            | Peer support  |            | Physician services |             | Pharmacotherapy |            | Screening/ assessment |             | Treatment program |             |
|-----------------------|--|-------------------------|------------|---------------|------------|--------------------|-------------|-----------------|------------|-----------------------|-------------|-------------------|-------------|
|                       |  | Number                  | Percent    | Number        | Percent    | Number             | Percent     | Number          | Percent    | Number                | Percent     | Number            | Percent     |
| <b>United States</b>  | <b>1,614,639</b>                                   | <b>7,497</b>            | <b>0.5</b> | <b>51,674</b> | <b>3.2</b> | <b>764,958</b>     | <b>47.4</b> | <b>91,312</b>   | <b>5.7</b> | <b>437,950</b>        | <b>27.1</b> | <b>189,025</b>    | <b>11.7</b> |
| Alabama               | 10,906   | DS                      | DS         | 149           | 1.4        | 4,190              | 38.4        | 642             | 5.9        | 1,312                 | 12.0        | 15                | 0.1         |
| Alaska*               | 7,064  | DS                      | DS         | 87            | 1.2        | 4,911              | 69.5        | 1,017           | 14.4       | 1,545                 | 21.9        | 29                | 0.4         |
| Arizona*              | 59,161   | 11                      | 0.0        | 10,323        | 17.4       | 32,573             | 55.1        | 2,678           | 4.5        | 28,829                | 48.7        | 8,522             | 14.4        |
| Arkansas*             | 5,312  | DS                      | DS         | DS            | DS         | 1,311              | 24.7        | 39              | 0.7        | 462                   | 8.7         | 96                | 1.8         |
| California*           | 121,887  | DS                      | DS         | DS            | DS         | 31,032             | 25.5        | 5,422           | 4.4        | 8,005                 | 6.6         | 6,553             | 5.4         |
| Colorado*             | 31,049   | 0                       | 0.0        | 566           | 1.8        | 18,253             | 58.8        | 1,891           | 6.1        | 6,772                 | 21.8        | 484               | 1.6         |
| Connecticut*          | 39,099   | 427                     | 1.1        | 0             | 0.0        | 13,101             | 33.5        | 2,013           | 5.1        | 10,045                | 25.7        | 5,367             | 13.7        |
| Delaware*             | 12,337   | 385                     | 3.1        | 1,883         | 15.3       | 8,744              | 70.9        | 823             | 6.7        | 3,704                 | 30.0        | 1,020             | 8.3         |
| District of Columbia* | 4,537  | 0                       | 0.0        | 0             | 0.0        | 1,055              | 23.3        | 111             | 2.4        | 1,064                 | 23.5        | 0                 | 0.0         |
| Florida               | 35,444   | 28                      | 0.1        | 11            | 0.0        | 6,082              | 17.2        | 645             | 1.8        | 6,055                 | 17.1        | 216               | 0.6         |
| Georgia               | 11,820   | DS                      | DS         | 36            | 0.3        | 5,193              | 43.9        | 661             | 5.6        | 2,380                 | 20.1        | 96                | 0.8         |
| Hawaii*               | 3,282  | 32                      | 1.0        | 0             | 0.0        | 1,593              | 48.5        | 159             | 4.8        | 631                   | 19.2        | 152               | 4.6         |
| Idaho*                | 7,826  | 173                     | 2.2        | 272           | 3.5        | 4,311              | 55.1        | 250             | 3.2        | 2,422                 | 30.9        | 321               | 4.1         |
| Illinois*             | 44,444   | 0                       | 0.0        | 0             | 0.0        | 18,052             | 40.6        | 695             | 1.6        | 15,683                | 35.3        | 315               | 0.7         |
| Indiana*              | 46,564   | 290                     | 0.6        | 956           | 2.1        | 23,482             | 50.4        | 1,461           | 3.1        | 13,509                | 29.0        | 1,456             | 3.1         |
| Iowa*                 | 8,671  | 139                     | 1.6        | 113           | 1.3        | 4,843              | 55.9        | 474             | 5.5        | 3,494                 | 40.3        | 1,089             | 12.6        |
| Kansas                | 2,686  | 0                       | 0.0        | 89            | 3.3        | 978                | 36.4        | 157             | 5.8        | 617                   | 23.0        | 229               | 8.5         |
| Kentucky*             | 69,543   | 1,826                   | 2.6        | 14,286        | 20.5       | 49,984             | 71.9        | 4,516           | 6.5        | 27,240                | 39.2        | 9,608             | 13.8        |
| Louisiana*            | 31,903   | 0                       | 0.0        | 0             | 0.0        | 11,094             | 34.8        | 2,098           | 6.6        | 7,277                 | 22.8        | 8,312             | 26.1        |
| Maine*                | 16,923   | 0                       | 0.0        | 0             | 0.0        | 8,235              | 48.7        | 680             | 4.0        | 5,819                 | 34.4        | 1,028             | 6.1         |
| Maryland*             | 67,737   | 16                      | 0.0        | 0             | 0.0        | 37,021             | 54.7        | 1,089           | 1.6        | 27,179                | 40.1        | 10,734            | 15.8        |
| Massachusetts*        | 80,804   | 766                     | 0.9        | 25            | 0.0        | 40,806             | 50.5        | 5,361           | 6.6        | 16,760                | 20.7        | 16,187            | 20.0        |
| Michigan*             | 50,001   | 12                      | 0.0        | 3,297         | 6.6        | 30,003             | 60.0        | 4,668           | 9.3        | 19,136                | 38.3        | 8,093             | 16.2        |
| Minnesota*            | 28,654   | 22                      | 0.1        | 1,359         | 4.7        | 14,433             | 50.4        | 2,131           | 7.4        | 12,137                | 42.4        | 9,351             | 32.6        |
| Mississippi           | 4,237  | DS                      | DS         | 109           | 2.6        | 2,054              | 48.5        | 290             | 6.8        | 631                   | 14.9        | 16                | 0.4         |
| Missouri              | 15,597   | DS                      | DS         | 1,421         | 9.1        | 7,726              | 49.5        | 160             | 1.0        | 3,858                 | 24.7        | 1,166             | 7.5         |
| Montana*              | 7,558  | 24                      | 0.3        | 736           | 9.7        | 3,757              | 49.7        | 507             | 6.7        | 1,671                 | 22.1        | 981               | 13.0        |
| Nebraska              | 1,842  | DS                      | DS         | 19            | 1.0        | 638                | 34.6        | 118             | 6.4        | 323                   | 17.5        | 143               | 7.8         |
| Nevada*               | 15,489   | 295                     | 1.9        | 717           | 4.6        | 5,923              | 38.2        | 1,024           | 6.6        | 5,404                 | 34.9        | 748               | 4.8         |
| New Hampshire*        | 11,986   | DS                      | DS         | 326           | 2.7        | 6,297              | 52.5        | 826             | 6.9        | 3,368                 | 28.1        | 2,131             | 17.8        |
| New Jersey*           | 45,322   | 537                     | 1.2        | 116           | 0.3        | 17,910             | 39.5        | 1,949           | 4.3        | 15,917                | 35.1        | 6,695             | 14.8        |

Appendix Table D.7.iii (continued)

| State           | Total number of Medicaid beneficiaries with an OUD | Partial hospitalization |         | Peer support |         | Physician services |         | Pharmacotherapy |         | Screening/ assessment |         | Treatment program |         |
|-----------------|--|-------------------------|---------|--------------|---------|--------------------|---------|-----------------|---------|-----------------------|---------|-------------------|---------|
|                 |  | Number                  | Percent | Number       | Percent | Number             | Percent | Number          | Percent | Number                | Percent | Number            | Percent |
| New Mexico*     | 31,455   | 125                     | 0.4     | 920          | 2.9     | 11,613             | 36.9    | 1,741           | 5.5     | 7,566                 | 24.1    | 1,437             | 4.6     |
| New York*       | 126,757  | 359                     | 0.3     | 30           | 0.0     | 39,628             | 31.3    | 2,364           | 1.9     | 12,137                | 9.6     | 4,512             | 3.6     |
| North Carolina  | 30,114   | 16                      | 0.1     | 1,075        | 3.6     | 17,082             | 56.7    | 1,634           | 5.4     | 6,469                 | 21.5    | 2,234             | 7.4     |
| North Dakota*   | 2,149  | 172                     | 8.0     | 0            | 0.0     | 1,336              | 62.2    | 166             | 7.7     | 568                   | 26.4    | 411               | 19.1    |
| Ohio*           | 118,446  | 68                      | 0.1     | 5,429        | 4.6     | 79,478             | 67.1    | 22,106          | 18.7    | 45,449                | 38.4    | 26,685            | 22.5    |
| Oklahoma        | 9,952  | 0                       | 0.0     | 0            | 0.0     | 4,572              | 45.9    | 336             | 3.4     | 1,064                 | 10.7    | 0                 | 0.0     |
| Oregon*         | 33,767   | DS                      | DS      | 2,066        | 6.1     | 18,482             | 54.7    | 2,894           | 8.6     | 11,538                | 34.2    | 3,381             | 10.0    |
| Pennsylvania*   | 122,252  | 36                      | 0.0     | 107          | 0.1     | 57,117             | 46.7    | 5,339           | 4.4     | 35,320                | 28.9    | 31,091            | 25.4    |
| Puerto Rico*    | 4,424  | 38                      | 0.9     | 0            | 0.0     | 2,062              | 46.6    | 14              | 0.3     | 850                   | 19.2    | 0                 | 0.0     |
| Rhode Island*   | 13,425   | 221                     | 1.6     | 267          | 2.0     | 4,987              | 37.1    | 219             | 1.6     | 2,610                 | 19.4    | 452               | 3.4     |
| South Carolina  | 10,685   | 0                       | 0.0     | 444          | 4.2     | 3,784              | 35.4    | 557             | 5.2     | 2,773                 | 26.0    | 538               | 5.0     |
| South Dakota    | 687  | 0                       | 0.0     | 0            | 0.0     | 220                | 32.0    | 30              | 4.4     | 86                    | 12.5    | 48                | 7.0     |
| Tennessee       | DQ   | DQ                      | DQ      | DQ           | DQ      | DQ                 | DQ      | DQ              | DQ      | DQ                    | DQ      | DQ                | DQ      |
| Texas           | 14,847   | 160                     | 1.1     | 11           | 0.1     | 3,955              | 26.6    | 245             | 1.7     | 2,431                 | 16.4    | 714               | 4.8     |
| Utah*           | 14,090   | DS                      | DS      | 444          | 3.2     | 4,159              | 29.5    | 898             | 6.4     | 2,464                 | 17.5    | 800               | 5.7     |
| Vermont*        | 10,357   | DS                      | DS      | 0            | 0.0     | 6,016              | 58.1    | 131             | 1.3     | 1,890                 | 18.2    | 883               | 8.5     |
| Virginia*       | 46,846   | 1,283                   | 2.7     | DS           | DS      | 24,357             | 52.0    | 855             | 1.8     | 10,346                | 22.1    | 2,811             | 6.0     |
| Virgin Islands* | 13   | 0                       | 0.0     | 0            | 0.0     | DS                 | DS      | DS              | DS      | DS                    | DS      | 0                 | 0.0     |
| Washington*     | 64,410   | 36                      | 0.1     | 712          | 1.1     | 34,921             | 54.2    | 3,288           | 5.1     | 20,742                | 32.2    | 7,608             | 11.8    |
| West Virginia*  | 31,485   | DS                      | DS      | 3,251        | 10.3    | 21,165             | 67.2    | 2,025           | 6.4     | 10,917                | 34.7    | 3,290             | 10.4    |
| Wisconsin       | 28,192   | 0                       | 0.0     | 0            | 0.0     | 14,138             | 50.1    | 1,893           | 6.7     | 9,385                 | 33.3    | 977               | 3.5     |
| Wyoming         | 601  | 0                       | 0.0     | 22           | 3.7     | 301                | 50.1    | 22              | 3.7     | 96                    | 16.0    | 0                 | 0.0     |

Source: Analysis of the 2020 preliminary TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits.

Notes: The U.S. average is an overall average across the population in the states included in the table.

To identify beneficiaries with an OUD, we used diagnosis codes, National Drug Codes, and select procedure codes on Medicaid claims.

We determined service types on the basis of National Drug Codes, procedure codes, and revenue codes.

The sum of the percentages within each state will not be 100 because many Medicaid beneficiaries treated for an OUD received more than one service.

\*The state implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

DS = Data suppressed for confidentiality reasons because the group included fewer than 11 beneficiaries. If the size of a group that a state did not report because of confidentiality can be identified by using other numbers from that state, we did not report a second group within that state. Slightly different totals across the tables are a function of differences in the need to suppress data from one table to the next.

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.

**Appendix Table D.8. Number and percentage of Medicaid beneficiaries treated for an OUD in 2020, by service setting**

| State                 | Total number of Medicaid beneficiaries with an OUD | Treated in an inpatient setting |             | Treated in an outpatient setting |             | Treated in a residential setting |            | Treated in a home-based setting |            | Treated in a community-based setting |            | Treated in an unknown setting |             |
|-----------------------|--|---------------------------------|-------------|----------------------------------|-------------|----------------------------------|------------|---------------------------------|------------|--------------------------------------|------------|-------------------------------|-------------|
|                       |  | Number                          | Percent     | Number                           | Percent     | Number                           | Percent    | Number                          | Percent    | Number                               | Percent    | Number                        | Percent     |
| <b>United States</b>  | <b>1,614,639</b>                                   | <b>430,700</b>                  | <b>26.7</b> | <b>1,547,362</b>                 | <b>95.8</b> | <b>118,089</b>                   | <b>7.3</b> | <b>67,470</b>                   | <b>4.2</b> | <b>46,277</b>                        | <b>2.9</b> | <b>190,878</b>                | <b>11.8</b> |
| Alabama               | 10,906   | 3,300                           | 30.3        | 10,426                           | 95.6        | 195                              | 1.8        | 127                             | 1.2        | 11                                   | 0.1        | 217                           | 2.0         |
| Alaska*               | 7,064  | 1,487                           | 21.1        | 6,801                            | 96.3        | 432                              | 6.1        | 82                              | 1.2        | 1,767                                | 25.0       | 276                           | 3.9         |
| Arizona*              | 59,161   | 21,604                          | 36.5        | 56,051                           | 94.7        | 2,052                            | 3.5        | 16,107                          | 27.2       | 1,304                                | 2.2        | 16,224                        | 27.4        |
| Arkansas*             | 5,312  | 1,758                           | 33.1        | 4,779                            | 90.0        | 91                               | 1.7        | 22                              | 0.4        | 11                                   | 0.2        | 54                            | 1.0         |
| California*           | 121,887  | 29,984                          | 24.6        | 114,273                          | 93.8        | 5,992                            | 4.9        | 1,008                           | 0.8        | 1,484                                | 1.2        | 9,736                         | 8.0         |
| Colorado*             | 31,049   | 7,300                           | 23.5        | 30,116                           | 97.0        | 307                              | 1.0        | 1,066                           | 3.4        | 519                                  | 1.7        | 438                           | 1.4         |
| Connecticut*          | 39,099   | 8,550                           | 21.9        | 38,594                           | 98.7        | 1,039                            | 2.7        | 529                             | 1.4        | 48                                   | 0.1        | 963                           | 2.5         |
| Delaware*             | 12,337   | 3,322                           | 26.9        | 12,049                           | 97.7        | 573                              | 4.6        | 92                              | 0.7        | 73                                   | 0.6        | 236                           | 1.9         |
| District of Columbia* | 4,537  | 1,783                           | 39.3        | 4,217                            | 92.9        | 258                              | 5.7        | 11                              | 0.2        | DS                                   | DS         | DS                            | DS          |
| Florida               | 35,444   | 13,898                          | 39.2        | 31,015                           | 87.5        | 855                              | 2.4        | 293                             | 0.8        | 9,154                                | 25.8       | 476                           | 1.3         |
| Georgia               | 11,820   | 3,476                           | 29.4        | 10,895                           | 92.2        | 84                               | 0.7        | 65                              | 0.5        | 395                                  | 3.3        | 87                            | 0.7         |
| Hawaii*               | 3,282  | 818                             | 24.9        | 3,110                            | 94.8        | 121                              | 3.7        | 18                              | 0.5        | DS                                   | DS         | DS                            | DS          |
| Idaho*                | 7,826  | 2,010                           | 25.7        | 7,564                            | 96.7        | 260                              | 3.3        | 1,483                           | 18.9       | 36                                   | 0.5        | 299                           | 3.8         |
| Illinois*             | 44,444   | 16,423                          | 37.0        | 41,282                           | 92.9        | 2,604                            | 5.9        | 381                             | 0.9        | 552                                  | 1.2        | 22,346                        | 50.3        |
| Indiana*              | 46,564   | 11,011                          | 23.6        | 44,858                           | 96.3        | 3,487                            | 7.5        | 1,682                           | 3.6        | 126                                  | 0.3        | 1,780                         | 3.8         |
| Iowa*                 | 8,671  | 2,560                           | 29.5        | 8,421                            | 97.1        | 666                              | 7.7        | 68                              | 0.8        | 243                                  | 2.8        | 360                           | 4.2         |
| Kansas                | 2,686  | 926                             | 34.5        | 2,474                            | 92.1        | 220                              | 8.2        | 52                              | 1.9        | 24                                   | 0.9        | 260                           | 9.7         |
| Kentucky*             | 69,543   | 15,445                          | 22.2        | 67,585                           | 97.2        | 9,775                            | 14.1       | 580                             | 0.8        | 1,344                                | 1.9        | 364                           | 0.5         |
| Louisiana*            | 31,903   | 12,002                          | 37.6        | 27,577                           | 86.4        | 8,046                            | 25.2       | 144                             | 0.5        | 1,482                                | 4.6        | 4,197                         | 13.2        |
| Maine*                | 16,923   | 3,036                           | 17.9        | 16,644                           | 98.4        | 73                               | 0.4        | 356                             | 2.1        | 236                                  | 1.4        | 779                           | 4.6         |
| Maryland*             | 67,737   | 12,773                          | 18.9        | 66,700                           | 98.5        | 9,611                            | 14.2       | 302                             | 0.4        | 40                                   | 0.1        | 357                           | 0.5         |
| Massachusetts*        | 80,804   | 29,585                          | 36.6        | 78,631                           | 97.3        | 7,852                            | 9.7        | 2,086                           | 2.6        | 9,079                                | 11.2       | 17,962                        | 22.2        |
| Michigan*             | 50,001   | 10,500                          | 21.0        | 47,624                           | 95.2        | 9,811                            | 19.6       | 898                             | 1.8        | 1,806                                | 3.6        | 5,475                         | 10.9        |
| Minnesota*            | 28,654   | 8,291                           | 28.9        | 27,677                           | 96.6        | 859                              | 3.0        | 2,668                           | 9.3        | 212                                  | 0.7        | 1,195                         | 4.2         |
| Mississippi           | 4,237  | 1,330                           | 31.4        | 3,820                            | 90.2        | 42                               | 1.0        | 47                              | 1.1        | 26                                   | 0.6        | 870                           | 20.5        |
| Missouri              | 15,597   | 5,008                           | 32.1        | 15,010                           | 96.2        | 159                              | 1.0        | 499                             | 3.2        | 3,371                                | 21.6       | 2,393                         | 15.3        |
| Montana*              | 7,558  | 1,894                           | 25.1        | 7,327                            | 96.9        | 446                              | 5.9        | 232                             | 3.1        | 19                                   | 0.3        | 172                           | 2.3         |
| Nebraska              | 1,842  | 645                             | 35.0        | 1,668                            | 90.6        | 157                              | 8.5        | 11                              | 0.6        | 55                                   | 3.0        | 28                            | 1.5         |
| Nevada*               | 15,489   | 4,910                           | 31.7        | 14,742                           | 95.2        | 513                              | 3.3        | 212                             | 1.4        | 89                                   | 0.6        | 595                           | 3.8         |
| New Hampshire*        | 11,986   | 2,091                           | 17.4        | 11,786                           | 98.3        | 1,532                            | 12.8       | 123                             | 1.0        | 660                                  | 5.5        | 742                           | 6.2         |
| New Jersey*           | 45,322   | 11,309                          | 25.0        | 43,949                           | 97.0        | 530                              | 1.2        | 1,573                           | 3.5        | 112                                  | 0.2        | 3,212                         | 7.1         |

Appendix Table D.8 (continued)

| State           | Total number of Medicaid beneficiaries with an OUD | Treated in an inpatient setting |         | Treated in an outpatient setting |         | Treated in a residential setting |         | Treated in a home-based setting |         | Treated in a community-based setting |         | Treated in an unknown setting |         |
|-----------------|--|---------------------------------|---------|----------------------------------|---------|----------------------------------|---------|---------------------------------|---------|--------------------------------------|---------|-------------------------------|---------|
|                 |  | Number                          | Percent | Number                           | Percent | Number                           | Percent | Number                          | Percent | Number                               | Percent | Number                        | Percent |
| New Mexico*     | 31,455   | 7,341                           | 23.3    | 30,732                           | 97.7    | 222                              | 0.7     | 210                             | 0.7     | 610                                  | 1.9     | 400                           | 1.3     |
| New York*       | 126,757  | 44,068                          | 34.8    | 123,000                          | 97.0    | 1,311                            | 1.0     | 1,727                           | 1.4     | 22                                   | 0.0     | 12,554                        | 9.9     |
| North Carolina  | 30,114   | 8,410                           | 27.9    | 28,559                           | 94.8    | 740                              | 2.5     | 1,456                           | 4.8     | 235                                  | 0.8     | 1,492                         | 5.0     |
| North Dakota*   | 2,149  | 595                             | 27.7    | 2,066                            | 96.1    | 55                               | 2.6     | 36                              | 1.7     | 61                                   | 2.8     | 89                            | 4.1     |
| Ohio*           | 118,446  | 30,638                          | 25.9    | 115,780                          | 97.7    | 22,560                           | 19.0    | 7,031                           | 5.9     | 6,145                                | 5.2     | 11,205                        | 9.5     |
| Oklahoma        | 9,952  | 2,783                           | 28.0    | 9,087                            | 91.3    | 107                              | 1.1     | 183                             | 1.8     | 650                                  | 6.5     | 1,040                         | 10.5    |
| Oregon*         | 33,767   | 6,790                           | 20.1    | 32,586                           | 96.5    | 5,795                            | 17.2    | 404                             | 1.2     | 94                                   | 0.3     | 1,164                         | 3.4     |
| Pennsylvania*   | 122,252  | 26,261                          | 21.5    | 116,158                          | 95.0    | 658                              | 0.5     | 6,871                           | 5.6     | 427                                  | 0.3     | 52,673                        | 43.1    |
| Puerto Rico*    | 4,424  | 1,088                           | 24.6    | 4,053                            | 91.6    | DS                               | DS      | DS                              | DS      | 18                                   | 0.4     | DS                            | DS      |
| Rhode Island*   | 13,425   | 1,953                           | 14.5    | 13,284                           | 98.9    | 113                              | 0.8     | 103                             | 0.8     | 21                                   | 0.2     | 384                           | 2.9     |
| South Carolina  | 10,685   | 2,464                           | 23.1    | 9,962                            | 93.2    | 494                              | 4.6     | 51                              | 0.5     | 75                                   | 0.7     | 1,677                         | 15.7    |
| South Dakota    | 687  | 241                             | 35.1    | 617                              | 89.8    | 56                               | 8.2     | DS                              | DS      | 17                                   | 2.5     | 131                           | 19.1    |
| Tennessee       | DQ   | DQ                              | DQ      | DQ                               | DQ      | DQ                               | DQ      | DQ                              | DQ      | DQ                                   | DQ      | DQ                            | DQ      |
| Texas           | 14,847   | 5,384                           | 36.3    | 13,513                           | 91.0    | 773                              | 5.2     | 525                             | 3.5     | 138                                  | 0.9     | 453                           | 3.1     |
| Utah*           | 14,090   | 3,855                           | 27.4    | 13,224                           | 93.9    | 4,290                            | 30.4    | 121                             | 0.9     | 339                                  | 2.4     | 4,402                         | 31.2    |
| Vermont*        | 10,357   | 1,567                           | 15.1    | 10,205                           | 98.5    | 425                              | 4.1     | 123                             | 1.2     | 170                                  | 1.6     | 5,602                         | 54.1    |
| Virginia*       | 46,846   | 11,025                          | 23.5    | 45,740                           | 97.6    | 751                              | 1.6     | 817                             | 1.7     | 1,357                                | 2.9     | 1,467                         | 3.1     |
| Virgin Islands* | 13   | DS                              | DS      | DS                               | DS      | 0                                | 0.0     | 0                               | 0.0     | 0                                    | 0.0     | 0                             | 0.0     |
| Washington*     | 64,410   | 13,811                          | 21.4    | 62,311                           | 96.7    | 8,012                            | 12.4    | 13,236                          | 20.5    | 912                                  | 1.4     | 2,141                         | 3.3     |
| West Virginia*  | 31,485   | 5,912                           | 18.8    | 30,709                           | 97.5    | 2,939                            | 9.3     | 1,396                           | 4.4     | 22                                   | 0.1     | 1,152                         | 3.7     |
| Wisconsin       | 28,192   | 7,321                           | 26.0    | 27,552                           | 97.7    | 146                              | 0.5     | 363                             | 1.3     | 601                                  | 2.1     | 748                           | 2.7     |
| Wyoming         | 601  | 164                             | 27.3    | 559                              | 93.0    | DS                               | DS      | DS                              | DS      | 85                                   | 14.1    | 11                            | 1.8     |

Source: Analysis of the 2020 preliminary TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits.

Notes: The U.S. average is an overall average across the population in the states included in the table.

To identify beneficiaries with an OUD, we used diagnosis codes, National Drug Codes, and select procedure codes on Medicaid claims.

We defined service setting on the basis of the FASC value the claim was assigned as well as the type of claim on which the service was submitted; for claims categorized as Other Services (i.e., not inpatient, residential, or pharmacy claims), we defined the setting on the basis of the claim's type of bill, place of service, procedure codes, or revenue codes. We defined a setting as "unknown" when there was not enough information on the claim to categorize the service by setting. We did not analyze whether any services were provided via telehealth.

The sum of the percentages within each state will not be 100 because many Medicaid beneficiaries treated for an OUD were treated in more than one setting.

\*The state implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

DS = Data suppressed for confidentiality reasons because the group included fewer than 11 beneficiaries. If the size of a group that a state did not report because of confidentiality can be identified by using other numbers from that state, we did not report a second group within that state. Slightly different totals across the tables are a function of differences in the need to suppress data from one table to the next.

Appendix Table D.8 (*continued*)

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.



**Appendix Table D.9.i. Average number of OUD services received by Medicaid beneficiaries who received a given service in 2020, by service type**

| State                 | Total Number of Medicaid beneficiaries with an OUD | Consultation                        |                         |                           | Counseling                          |                         |                           | Emergency services                  |                         |                           |
|-----------------------|--|-------------------------------------|-------------------------|---------------------------|-------------------------------------|-------------------------|---------------------------|-------------------------------------|-------------------------|---------------------------|
|                       |  | Count of beneficiaries with service | Total count of services | Average # per beneficiary | Count of beneficiaries with service | Total count of services | Average # per beneficiary | Count of beneficiaries with service | Total count of services | Average # per beneficiary |
| <b>United States</b>  | <b>1,614,639</b>                                   | <b>160,499</b>                      | <b>1,215,930</b>        | <b>7.6</b>                | <b>629,288</b>                      | <b>7,587,281</b>        | <b>12.1</b>               | <b>524,216</b>                      | <b>1,318,673</b>        | <b>2.5</b>                |
| Alabama               | 10,906   | 1,640                               | 4,809                   | 2.9                       | 1,226                               | 12,540                  | 10.2                      | 4,491                               | 13,088                  | 2.9                       |
| Alaska*               | 7,064  | 128                                 | 147                     | 1.1                       | 995                                 | 6,679                   | 6.7                       | 2,213                               | 5,554                   | 2.5                       |
| Arizona*              | 59,161   | 6,754                               | 19,282                  | 2.9                       | 27,079                              | 240,484                 | 8.9                       | 18,963                              | 44,200                  | 2.3                       |
| Arkansas*             | 5,312  | 745                                 | 3,526                   | 4.7                       | 455                                 | 1,674                   | 3.7                       | 1,701                               | 3,586                   | 2.1                       |
| California*           | 121,887  | 13,961                              | 58,802                  | 4.2                       | 51,434                              | 821,722                 | 16.0                      | 40,543                              | 103,538                 | 2.6                       |
| Colorado*             | 31,049   | 35                                  | 105                     | 3.0                       | 7,748                               | 45,237                  | 5.8                       | 12,029                              | 34,657                  | 2.9                       |
| Connecticut*          | 39,099   | 9,475                               | 97,391                  | 10.3                      | 11,743                              | 100,546                 | 8.6                       | 10,818                              | 29,118                  | 2.7                       |
| Delaware*             | 12,337   | 31                                  | 41                      | 1.3                       | 6,362                               | 72,780                  | 11.4                      | 3,581                               | 8,097                   | 2.3                       |
| District of Columbia* | 4,537  | 578                                 | 1,857                   | 3.2                       | 994                                 | 10,096                  | 10.2                      | 1,765                               | 4,656                   | 2.6                       |
| Florida               | 35,444   | 7,172                               | 39,386                  | 5.5                       | 2,690                               | 5,904                   | 2.2                       | 14,685                              | 35,484                  | 2.4                       |
| Georgia               | 11,820   | 269                                 | 353                     | 1.3                       | 2,593                               | 15,773                  | 6.1                       | 4,079                               | 9,148                   | 2.2                       |
| Hawaii*               | 3,282  | 23                                  | 26                      | 1.1                       | 917                                 | 7,425                   | 8.1                       | 1,173                               | 3,248                   | 2.8                       |
| Idaho*                | 7,826  | 1,506                               | 8,897                   | 5.9                       | 2,478                               | 32,819                  | 13.2                      | 2,408                               | 5,095                   | 2.1                       |
| Illinois*             | 44,444   | 13,555                              | 67,559                  | 5.0                       | 19,149                              | 239,327                 | 12.5                      | 15,649                              | 39,424                  | 2.5                       |
| Indiana*              | 46,564   | 360                                 | 853                     | 2.4                       | 15,862                              | 150,958                 | 9.5                       | 9,455                               | 18,480                  | 2.0                       |
| Iowa*                 | 8,671  | 1,281                               | 5,843                   | 4.6                       | 3,574                               | 32,058                  | 9.0                       | 3,084                               | 9,111                   | 3.0                       |
| Kansas                | 2,686  | 0                                   | 0                       | .                         | 690                                 | 8,378                   | 12.1                      | 1,005                               | 2,519                   | 2.5                       |
| Kentucky*             | 69,543   | 2,970                               | 3,725                   | 1.3                       | 41,225                              | 492,327                 | 11.9                      | 20,232                              | 42,593                  | 2.1                       |
| Louisiana*            | 31,903   | 3,356                               | 13,277                  | 4.0                       | 5,009                               | 25,022                  | 5.0                       | 12,701                              | 29,126                  | 2.3                       |
| Maine*                | 16,923   | 3,133                               | 28,433                  | 9.1                       | 5,988                               | 58,918                  | 9.8                       | 4,593                               | 11,791                  | 2.6                       |
| Maryland*             | 67,737   | 2,484                               | 4,437                   | 1.8                       | 37,660                              | 559,543                 | 14.9                      | 19,872                              | 46,636                  | 2.3                       |
| Massachusetts*        | 80,804   | 13,285                              | 89,479                  | 6.7                       | 28,070                              | 270,736                 | 9.6                       | 29,549                              | 92,354                  | 3.1                       |
| Michigan*             | 50,001   | 2,283                               | 8,169                   | 3.6                       | 23,560                              | 214,351                 | 9.1                       | 16,722                              | 42,276                  | 2.5                       |
| Minnesota*            | 28,654   | 1,583                               | 2,158                   | 1.4                       | 4,017                               | 14,621                  | 3.6                       | 11,524                              | 33,568                  | 2.9                       |
| Mississippi           | 4,237  | 58                                  | 64                      | 1.1                       | 1,134                               | 7,810                   | 6.9                       | 1,305                               | 2,731                   | 2.1                       |
| Missouri              | 15,597   | 1,372                               | 3,529                   | 2.6                       | 5,243                               | 76,246                  | 14.5                      | 5,193                               | 14,031                  | 2.7                       |
| Montana*              | 7,558  | 0                                   | 0                       | .                         | 2,610                               | 23,664                  | 9.1                       | 2,509                               | 6,835                   | 2.7                       |
| Nebraska              | 1,842  | 28                                  | 155                     | 5.5                       | 275                                 | 1,694                   | 6.2                       | 719                                 | 1,784                   | 2.5                       |
| Nevada*               | 15,489   | 293                                 | 581                     | 2.0                       | 3,020                               | 25,625                  | 8.5                       | 4,916                               | 14,714                  | 3.0                       |
| New Hampshire*        | 11,986   | 1,725                               | 8,245                   | 4.8                       | 4,783                               | 41,885                  | 8.8                       | 3,004                               | 6,319                   | 2.1                       |

Appendix Table D.9.i (continued)

| State           | Total Number of Medicaid beneficiaries with an OUD | Consultation                        |                         |                           | Counseling                          |                         |                           | Emergency services                  |                         |                           |
|-----------------|--|-------------------------------------|-------------------------|---------------------------|-------------------------------------|-------------------------|---------------------------|-------------------------------------|-------------------------|---------------------------|
|                 |  | Count of beneficiaries with service | Total count of services | Average # per beneficiary | Count of beneficiaries with service | Total count of services | Average # per beneficiary | Count of beneficiaries with service | Total count of services | Average # per beneficiary |
| New Jersey*     | 45,322   | 2,250                               | 7,483                   | 3.3                       | 12,433                              | 121,043                 | 9.7                       | 13,664                              | 33,898                  | 2.5                       |
| New Mexico*     | 31,455   | 2,094                               | 7,577                   | 3.6                       | 7,215                               | 59,643                  | 8.3                       | 8,760                               | 22,264                  | 2.5                       |
| New York*       | 126,757  | 1,222                               | 1,513                   | 1.2                       | 42,598                              | 566,036                 | 13.3                      | 42,519                              | 132,548                 | 3.1                       |
| North Carolina  | 30,114   | 2,704                               | 10,141                  | 3.8                       | 11,755                              | 84,380                  | 7.2                       | 9,349                               | 20,103                  | 2.2                       |
| North Dakota*   | 2,149  | 35                                  | 53                      | 1.5                       | 868                                 | 6,125                   | 7.1                       | 797                                 | 2,521                   | 3.2                       |
| Ohio*           | 118,446  | 17,151                              | 87,510                  | 5.1                       | 76,789                              | 1,214,125               | 15.8                      | 48,767                              | 123,272                 | 2.5                       |
| Oklahoma        | 9,952  | 607                                 | 2,998                   | 4.9                       | 2,146                               | 26,132                  | 12.2                      | 2,170                               | 3,808                   | 1.8                       |
| Oregon*         | 33,767   | 36                                  | 113                     | 3.1                       | 17,401                              | 378,096                 | 21.7                      | 11,076                              | 26,489                  | 2.4                       |
| Pennsylvania*   | 122,252  | 25,969                              | 440,049                 | 16.9                      | 44,462                              | 565,884                 | 12.7                      | 36,737                              | 79,372                  | 2.2                       |
| Puerto Rico*    | 4,424  | 29                                  | 35                      | 1.2                       | 1,893                               | 10,071                  | 5.3                       | 405                                 | 592                     | 1.5                       |
| Rhode Island*   | 13,425   | 203                                 | 572                     | 2.8                       | 4,615                               | 37,523                  | 8.1                       | 2,677                               | 8,079                   | 3.0                       |
| South Carolina  | 10,685   | 546                                 | 1,425                   | 2.6                       | 2,809                               | 21,738                  | 7.7                       | 3,125                               | 6,854                   | 2.2                       |
| South Dakota    | 687  | DS                                  | DS                      | DS                        | 99                                  | 836                     | 8.4                       | 249                                 | 660                     | 2.7                       |
| Tennessee       | DQ   | DQ                                  | DQ                      | DQ                        | DQ                                  | DQ                      | DQ                        | DQ                                  | DQ                      | DQ                        |
| Texas           | 14,847   | 792                                 | 2,182                   | 2.8                       | 3,470                               | 19,544                  | 5.6                       | 4,488                               | 10,346                  | 2.3                       |
| Utah*           | 14,090   | 35                                  | 47                      | 1.3                       | 2,711                               | 34,113                  | 12.6                      | 4,244                               | 8,963                   | 2.1                       |
| Vermont*        | 10,357   | 2,170                               | 14,404                  | 6.6                       | 2,911                               | 35,121                  | 12.1                      | 2,355                               | 5,268                   | 2.2                       |
| Virginia*       | 46,846   | 342                                 | 401                     | 1.2                       | 24,616                              | 241,878                 | 9.8                       | 12,738                              | 28,032                  | 2.2                       |
| Virgin Islands* | 13   | 0                                   | 0                       | .                         | DS                                  | DS                      | DS                        | DS                                  | DS                      | DS                        |
| Washington*     | 64,410   | 7,525                               | 103,846                 | 13.8                      | 24,177                              | 162,239                 | 6.7                       | 22,440                              | 54,456                  | 2.4                       |
| West Virginia*  | 31,485   | 4,666                               | 59,734                  | 12.8                      | 20,210                              | 335,482                 | 16.6                      | 7,764                               | 14,889                  | 1.9                       |
| Wisconsin       | 28,192   | 1,950                               | 4,280                   | 2.2                       | 7,436                               | 49,887                  | 6.7                       | 9,216                               | 22,078                  | 2.4                       |
| Wyoming         | 601  | 90                                  | 438                     | 4.9                       | 91                                  | 543                     | 6.0                       | 195                                 | 420                     | 2.2                       |

**Appendix Table D.9.ii. Average number of OUD services received by Medicaid beneficiaries who received a given service in 2020, by service type**

| State                 | Total number of Medicaid beneficiaries with an OUD | Inpatient care                      |                         |                           | MAT                                 |                         |                           | Observation care                    |                         |                           | Partial hospitalization             |                         |                           |
|-----------------------|--|-------------------------------------|-------------------------|---------------------------|-------------------------------------|-------------------------|---------------------------|-------------------------------------|-------------------------|---------------------------|-------------------------------------|-------------------------|---------------------------|
|                       |  | Count of beneficiaries with service | Total count of services | Average # per beneficiary | Count of beneficiaries with service | Total count of services | Average # per beneficiary | Count of beneficiaries with service | Total count of services | Average # per beneficiary | Count of beneficiaries with service | Total count of services | Average # per beneficiary |
| <b>United States</b>  | <b>1,614,639</b>                                   | <b>400,064</b>                      | <b>4,666,033</b>        | <b>11.7</b>               | <b>1,257,572</b>                    | <b>181,108,140</b>      | <b>144.0</b>              | <b>68,045</b>                       | <b>240,644</b>          | <b>3.5</b>                | <b>7,497</b>                        | <b>115,706</b>          | <b>15.4</b>               |
| Alabama               | 10,906   | 3,243                               | 48,763                  | 15.0                      | 8,288                               | 1,718,298               | 207.3                     | 148                                 | 443                     | 3.0                       | DS                                  | DS                      | DS                        |
| Alaska*               | 7,064  | 1,453                               | 16,470                  | 11.3                      | 5,948                               | 705,508                 | 118.6                     | 305                                 | 1,330                   | 4.4                       | DS                                  | DS                      | DS                        |
| Arizona*              | 59,161   | 20,771                              | 225,045                 | 10.8                      | 44,183                              | 3,982,868               | 90.1                      | 3,267                               | 14,349                  | 4.4                       | 11                                  | 148                     | 13.5                      |
| Arkansas*             | 5,312  | 1,758                               | 31,724                  | 18.0                      | 3,849                               | 348,134                 | 90.4                      | 167                                 | 657                     | 3.9                       | DS                                  | DS                      | DS                        |
| California*           | 121,887  | 27,438                              | 262,015                 | 9.5                       | 90,685                              | 11,427,221              | 126.0                     | 2,494                               | 9,357                   | 3.8                       | DS                                  | DS                      | DS                        |
| Colorado*             | 31,049   | 7,153                               | 81,472                  | 11.4                      | 25,615                              | 2,519,874               | 98.4                      | 2,448                               | 12,302                  | 5.0                       | 0                                   | .                       | .                         |
| Connecticut*          | 39,099   | 7,791                               | 116,649                 | 15.0                      | 34,866                              | 7,254,674               | 208.1                     | 1,116                               | 2,555                   | 2.3                       | 427                                 | 3,186                   | 7.5                       |
| Delaware*             | 12,337   | 3,136                               | 43,781                  | 14.0                      | 10,958                              | 1,944,982               | 177.5                     | 369                                 | 2,127                   | 5.8                       | 385                                 | 7,746                   | 20.1                      |
| District of Columbia* | 4,537  | 1,767                               | 25,230                  | 14.3                      | 3,701                               | 439,118                 | 118.6                     | 158                                 | 922                     | 5.8                       | 0                                   | .                       | .                         |
| Florida               | 35,444   | 13,117                              | 153,271                 | 11.7                      | 25,309                              | 1,743,431               | 68.9                      | 2,970                               | 15,406                  | 5.2                       | 28                                  | 388                     | 13.9                      |
| Georgia               | 11,820   | 3,370                               | 43,554                  | 12.9                      | 7,698                               | 963,157                 | 125.1                     | 544                                 | 2,408                   | 4.4                       | DS                                  | DS                      | DS                        |
| Hawaii*               | 3,282  | 811                                 | 7,787                   | 9.6                       | 2,410                               | 371,377                 | 154.1                     | 232                                 | 856                     | 3.7                       | 32                                  | 519                     | 16.2                      |
| Idaho*                | 7,826  | 1,998                               | 17,605                  | 8.8                       | 5,843                               | 631,570                 | 108.1                     | 300                                 | 581                     | 1.9                       | 173                                 | 4,193                   | 24.2                      |
| Illinois*             | 44,444   | 15,309                              | 273,604                 | 17.9                      | 23,723                              | 2,797,024               | 117.9                     | 2,344                               | 5,068                   | 2.2                       | 0                                   | .                       | .                         |
| Indiana*              | 46,564   | 10,466                              | 91,114                  | 8.7                       | 40,142                              | 6,543,073               | 163.0                     | 1,474                               | 4,265                   | 2.9                       | 290                                 | 4,029                   | 13.9                      |
| Iowa*                 | 8,671  | 2,509                               | 39,739                  | 15.8                      | 7,290                               | 1,014,019               | 139.1                     | 616                                 | 2,487                   | 4.0                       | 139                                 | 3,094                   | 22.3                      |
| Kansas                | 2,686  | 912                                 | 11,771                  | 12.9                      | 1,888                               | 171,633                 | 90.9                      | 172                                 | 753                     | 4.4                       | 0                                   | .                       | .                         |
| Kentucky*             | 69,543   | 14,421                              | 149,559                 | 10.4                      | 57,750                              | 10,364,921              | 179.5                     | 1,783                               | 6,496                   | 3.6                       | 1,826                               | 25,485                  | 14.0                      |
| Louisiana*            | 31,903   | 11,762                              | 158,783                 | 13.5                      | 24,295                              | 3,551,456               | 146.2                     | 1,150                               | 2,807                   | 2.4                       | 0                                   | .                       | .                         |
| Maine*                | 16,923   | 2,927                               | 19,775                  | 6.8                       | 14,302                              | 2,989,575               | 209.0                     | 572                                 | 1,153                   | 2.0                       | 0                                   | .                       | .                         |
| Maryland*             | 67,737   | 12,448                              | 126,639                 | 10.2                      | 59,905                              | 5,398,640               | 90.1                      | 3,640                               | 16,152                  | 4.4                       | 16                                  | 107                     | 6.7                       |
| Massachusetts*        | 80,804   | 20,749                              | 259,732                 | 12.5                      | 68,409                              | 13,983,486              | 204.4                     | 5,026                               | 14,095                  | 2.8                       | 766                                 | 9,379                   | 12.2                      |
| Michigan*             | 50,001   | 10,073                              | 97,717                  | 9.7                       | 33,058                              | 5,096,762               | 154.2                     | 2,091                               | 7,854                   | 3.8                       | 12                                  | 70                      | 5.8                       |
| Minnesota*            | 28,654   | 8,189                               | 122,714                 | 15.0                      | 23,057                              | 3,392,460               | 147.1                     | 2,148                               | 9,965                   | 4.6                       | 22                                  | 184                     | 8.4                       |
| Mississippi           | 4,237  | 1,302                               | 15,412                  | 11.8                      | 2,813                               | 428,158                 | 152.2                     | 204                                 | 1,089                   | 5.3                       | DS                                  | DS                      | DS                        |
| Missouri              | 15,597   | 4,761                               | 51,016                  | 10.7                      | 12,450                              | 1,510,323               | 121.3                     | 780                                 | 1,712                   | 2.2                       | DS                                  | DS                      | DS                        |
| Montana*              | 7,558  | 1,793                               | 17,359                  | 9.7                       | 6,395                               | 1,011,862               | 158.2                     | 340                                 | 1,318                   | 3.9                       | 24                                  | 773                     | 32.2                      |
| Nebraska              | 1,842  | 626                                 | 7,563                   | 12.1                      | 1,363                               | 138,985                 | 102.0                     | 105                                 | 554                     | 5.3                       | DS                                  | DS                      | DS                        |
| Nevada*               | 15,489   | 4,741                               | 65,246                  | 13.8                      | 10,769                              | 1,064,332               | 98.8                      | 730                                 | 3,118                   | 4.3                       | 295                                 | 2,659                   | 9.0                       |
| New Hampshire*        | 11,986   | 1,873                               | 19,546                  | 10.4                      | 10,506                              | 1,790,571               | 170.4                     | 253                                 | 773                     | 3.1                       | DS                                  | DS                      | DS                        |
| New Jersey*           | 45,322   | 10,200                              | 124,971                 | 12.3                      | 37,466                              | 3,708,179               | 99.0                      | 3,339                               | 12,302                  | 3.7                       | 537                                 | 15,868                  | 29.5                      |

Appendix Table D.9.ii (continued)

| State           | Total number of Medicaid beneficiaries with an OUD | Inpatient care                      |                         |                           | MAT                                 |                         |                           | Observation care                    |                         |                           | Partial hospitalization             |                         |                           |
|-----------------|--|-------------------------------------|-------------------------|---------------------------|-------------------------------------|-------------------------|---------------------------|-------------------------------------|-------------------------|---------------------------|-------------------------------------|-------------------------|---------------------------|
|                 |  | Count of beneficiaries with service | Total count of services | Average # per beneficiary | Count of beneficiaries with service | Total count of services | Average # per beneficiary | Count of beneficiaries with service | Total count of services | Average # per beneficiary | Count of beneficiaries with service | Total count of services | Average # per beneficiary |
| New Mexico*     | 31,455   | 6,866                               | 31,056                  | 4.5                       | 28,620                              | 3,590,429               | 125.5                     | 912                                 | 1,486                   | 1.6                       | 125                                 | 811                     | 6.5                       |
| New York*       | 126,757  | 39,850                              | 691,094                 | 17.3                      | 73,608                              | 11,463,877              | 155.7                     | 4,118                               | 15,538                  | 3.8                       | 359                                 | 9,425                   | 26.3                      |
| North Carolina  | 30,114   | 8,193                               | 99,181                  | 12.1                      | 19,762                              | 1,653,908               | 83.7                      | 1,267                               | 6,244                   | 4.9                       | 16                                  | 122                     | 7.6                       |
| North Dakota*   | 2,149  | 636                                 | 8,070                   | 12.7                      | 1,659                               | 181,751                 | 109.6                     | 155                                 | 344                     | 2.2                       | 172                                 | 2,176                   | 12.7                      |
| Ohio*           | 118,446  | 29,421                              | 203,068                 | 6.9                       | 96,780                              | 13,700,387              | 141.6                     | 6,899                               | 13,667                  | 2.0                       | 68                                  | 806                     | 11.9                      |
| Oklahoma        | 9,952  | 2,683                               | 31,770                  | 11.8                      | 5,925                               | 780,712                 | 131.8                     | 230                                 | 879                     | 3.8                       | 0                                   | .                       | .                         |
| Oregon*         | 33,767   | 6,610                               | 75,774                  | 11.5                      | 28,782                              | 4,500,377               | 156.4                     | 1,472                               | 7,297                   | 5.0                       | DS                                  | DS                      | DS                        |
| Pennsylvania*   | 122,252  | 24,877                              | 274,099                 | 11.0                      | 96,917                              | 15,681,378              | 161.8                     | 4,264                               | 12,019                  | 2.8                       | 36                                  | 415                     | 11.5                      |
| Puerto Rico*    | 4,424  | 902                                 | 9,253                   | 10.3                      | 2,589                               | 285,755                 | 110.4                     | 106                                 | 254                     | 2.4                       | 38                                  | 195                     | 5.1                       |
| Rhode Island*   | 13,425   | 1,875                               | 17,641                  | 9.4                       | 12,537                              | 1,692,086               | 135.0                     | 312                                 | 857                     | 2.7                       | 221                                 | 1,648                   | 7.5                       |
| South Carolina  | 10,685   | 2,398                               | 25,515                  | 10.6                      | 8,872                               | 1,343,158               | 151.4                     | 293                                 | 1,539                   | 5.3                       | 0                                   | .                       | .                         |
| South Dakota    | 687  | 247                                 | 3,027                   | 12.3                      | 533                                 | 57,959                  | 108.7                     | 33                                  | 194                     | 5.9                       | 0                                   | .                       | .                         |
| Tennessee       | DQ   | DQ                                  | DQ                      | DQ                        | DQ                                  | DQ                      | DQ                        | DQ                                  | DQ                      | DQ                        | DQ                                  | DQ                      | DQ                        |
| Texas           | 14,847   | 5,148                               | 60,633                  | 11.8                      | 10,859                              | 1,397,373               | 128.7                     | 800                                 | 3,811                   | 4.8                       | 160                                 | 1,806                   | 11.3                      |
| Utah*           | 14,090   | 3,483                               | 32,828                  | 9.4                       | 8,923                               | 910,270                 | 102.0                     | 240                                 | 1,025                   | 4.3                       | DS                                  | DS                      | DS                        |
| Vermont*        | 10,357   | 1,536                               | 15,678                  | 10.2                      | 9,065                               | 1,570,581               | 173.3                     | 114                                 | 481                     | 4.2                       | DS                                  | DS                      | DS                        |
| Virginia*       | 46,846   | 10,593                              | 61,106                  | 5.8                       | 40,598                              | 6,097,053               | 150.2                     | 1,302                               | 2,368                   | 1.8                       | 1,283                               | 19,990                  | 15.6                      |
| Virgin Islands* | 13   | DS                                  | DS                      | DS                        | DS                                  | DS                      | DS                        | 0                                   | .                       | .                         | 0                                   | .                       | .                         |
| Washington*     | 64,410   | 13,123                              | 182,011                 | 13.9                      | 55,423                              | 8,143,694               | 146.9                     | 2,117                               | 9,120                   | 4.3                       | 36                                  | 484                     | 13.4                      |
| West Virginia*  | 31,485   | 5,513                               | 54,258                  | 9.8                       | 26,723                              | 4,625,424               | 173.1                     | 751                                 | 2,730                   | 3.6                       | DS                                  | DS                      | DS                        |
| Wisconsin       | 28,192   | 7,080                               | 63,374                  | 9.0                       | 24,045                              | 4,395,674               | 182.8                     | 1,345                               | 5,495                   | 4.1                       | 0                                   | .                       | .                         |
| Wyoming         | 601  | 163                                 | 971                     | 6.0                       | 418                                 | 30,623                  | 73.3                      | 30                                  | 42                      | 1.4                       | 0                                   | .                       | .                         |

**Appendix Table D.9.iii. Average number of OUD services received by Medicaid beneficiaries who received a given service in 2020, by service type**

| State                 | Total Number of Medicaid beneficiaries with an OUD | Physician services                |                         |                           | Screening/assessment                |                         |                           | Treatment program                   |                         |                           |
|-----------------------|--|-----------------------------------|-------------------------|---------------------------|-------------------------------------|-------------------------|---------------------------|-------------------------------------|-------------------------|---------------------------|
|                       |  | Count of beneficiary with service | Total count of services | Average # per beneficiary | Count of beneficiaries with service | Total count of services | Average # per beneficiary | Count of Beneficiaries with service | Total count of services | Average # per beneficiary |
| <b>United States</b>  | <b>1,614,639</b>                                   | <b>764,958</b>                    | <b>5,955,208</b>        | <b>7.8</b>                | <b>437,950</b>                      | <b>1,021,413</b>        | <b>2.3</b>                | <b>189,025</b>                      | <b>6,709,033</b>        | <b>35.5</b>               |
| Alabama               | 10,906   | 4,190                             | 19,876                  | 4.7                       | 1,312                               | 1,729                   | 1.3                       | 15                                  | 488                     | 32.5                      |
| Alaska*               | 7,064  | 4,911                             | 31,163                  | 6.3                       | 1,545                               | 2,095                   | 1.4                       | 29                                  | 188                     | 6.5                       |
| Arizona*              | 59,161   | 32,573                            | 185,496                 | 5.7                       | 28,829                              | 62,105                  | 2.2                       | 8,522                               | 349,141                 | 41.0                      |
| Arkansas*             | 5,312  | 1,311                             | 5,476                   | 4.2                       | 462                                 | 765                     | 1.7                       | 96                                  | 550                     | 5.7                       |
| California*           | 121,887  | 31,032                            | 134,745                 | 4.3                       | 8,005                               | 12,567                  | 1.6                       | 6,553                               | 274,591                 | 41.9                      |
| Colorado*             | 31,049   | 18,253                            | 105,816                 | 5.8                       | 6,772                               | 11,278                  | 1.7                       | 484                                 | 7,882                   | 16.3                      |
| Connecticut*          | 39,099   | 13,101                            | 90,215                  | 6.9                       | 10,045                              | 23,636                  | 2.4                       | 5,367                               | 88,019                  | 16.4                      |
| Delaware*             | 12,337   | 8,744                             | 77,680                  | 8.9                       | 3,704                               | 7,713                   | 2.1                       | 1,020                               | 30,167                  | 29.6                      |
| District of Columbia* | 4,537  | 1,055                             | 4,914                   | 4.7                       | 1,064                               | 2,538                   | 2.4                       | 0                                   | .                       | .                         |
| Florida               | 35,444   | 6,082                             | 19,678                  | 3.2                       | 6,055                               | 9,850                   | 1.6                       | 216                                 | 2,084                   | 9.6                       |
| Georgia               | 11,820   | 5,193                             | 25,689                  | 4.9                       | 2,380                               | 10,775                  | 4.5                       | 96                                  | 643                     | 6.7                       |
| Hawaii*               | 3,282  | 1,593                             | 7,076                   | 4.4                       | 631                                 | 1,020                   | 1.6                       | 152                                 | 4,270                   | 28.1                      |
| Idaho*                | 7,826  | 4,311                             | 24,505                  | 5.7                       | 2,422                               | 9,021                   | 3.7                       | 321                                 | 8,838                   | 27.5                      |
| Illinois*             | 44,444   | 18,052                            | 79,769                  | 4.4                       | 15,683                              | 33,021                  | 2.1                       | 315                                 | 3,242                   | 10.3                      |
| Indiana*              | 46,564   | 23,482                            | 239,262                 | 10.2                      | 13,509                              | 21,959                  | 1.6                       | 1,456                               | 16,504                  | 11.3                      |
| Iowa*                 | 8,671  | 4,843                             | 34,296                  | 7.1                       | 3,494                               | 8,043                   | 2.3                       | 1,089                               | 29,486                  | 27.1                      |
| Kansas                | 2,686  | 978                               | 3,769                   | 3.9                       | 617                                 | 990                     | 1.6                       | 229                                 | 7,148                   | 31.2                      |
| Kentucky*             | 69,543   | 49,984                            | 720,662                 | 14.4                      | 27,240                              | 75,312                  | 2.8                       | 9,608                               | 215,148                 | 22.4                      |
| Louisiana*            | 31,903   | 11,094                            | 47,170                  | 4.3                       | 7,277                               | 11,628                  | 1.6                       | 8,312                               | 240,220                 | 28.9                      |
| Maine*                | 16,923   | 8,235                             | 54,769                  | 6.7                       | 5,819                               | 21,240                  | 3.7                       | 1,028                               | 27,244                  | 26.5                      |
| Maryland*             | 67,737   | 37,021                            | 245,020                 | 6.6                       | 27,179                              | 42,726                  | 1.6                       | 10,734                              | 381,562                 | 35.5                      |
| Massachusetts*        | 80,804   | 40,806                            | 439,333                 | 10.8                      | 16,760                              | 29,565                  | 1.8                       | 16,187                              | 760,167                 | 47.0                      |
| Michigan*             | 50,001   | 30,003                            | 175,538                 | 5.9                       | 19,136                              | 62,829                  | 3.3                       | 8,093                               | 204,148                 | 25.2                      |
| Minnesota*            | 28,654   | 14,433                            | 68,342                  | 4.7                       | 12,137                              | 27,051                  | 2.2                       | 9,351                               | 557,784                 | 59.6                      |
| Mississippi           | 4,237  | 2,054                             | 14,097                  | 6.9                       | 631                                 | 993                     | 1.6                       | 16                                  | 211                     | 13.2                      |
| Missouri              | 15,597   | 7,726                             | 39,471                  | 5.1                       | 3,858                               | 6,351                   | 1.6                       | 1,166                               | 22,886                  | 19.6                      |
| Montana*              | 7,558  | 3,757                             | 22,614                  | 6.0                       | 1,671                               | 2,587                   | 1.5                       | 981                                 | 30,553                  | 31.1                      |
| Nebraska              | 1,842  | 638                               | 2,180                   | 3.4                       | 323                                 | 507                     | 1.6                       | 143                                 | 5,211                   | 36.4                      |
| Nevada*               | 15,489   | 5,923                             | 23,311                  | 3.9                       | 5,404                               | 18,083                  | 3.3                       | 748                                 | 12,624                  | 16.9                      |
| New Hampshire*        | 11,986   | 6,297                             | 44,587                  | 7.1                       | 3,368                               | 6,626                   | 2.0                       | 2,131                               | 50,040                  | 23.5                      |

Appendix Table D.9.iii (continued)

| State           | Total Number of Medicaid beneficiaries with an OUD | Physician services                |                         |                           | Screening/assessment                |                         |                           | Treatment program                   |                         |                           |
|-----------------|--|-----------------------------------|-------------------------|---------------------------|-------------------------------------|-------------------------|---------------------------|-------------------------------------|-------------------------|---------------------------|
|                 |  | Count of beneficiary with service | Total count of services | Average # per beneficiary | Count of beneficiaries with service | Total count of services | Average # per beneficiary | Count of Beneficiaries with service | Total count of services | Average # per beneficiary |
| New Jersey*     | 45,322   | 17,910                            | 86,725                  | 4.8                       | 15,917                              | 56,567                  | 3.6                       | 6,695                               | 254,867                 | 38.1                      |
| New Mexico*     | 31,455   | 11,613                            | 56,450                  | 4.9                       | 7,566                               | 14,978                  | 2.0                       | 1,437                               | 35,079                  | 24.4                      |
| New York*       | 126,757  | 39,628                            | 188,828                 | 4.8                       | 12,137                              | 22,008                  | 1.8                       | 4,512                               | 166,359                 | 36.9                      |
| North Carolina  | 30,114   | 17,082                            | 146,812                 | 8.6                       | 6,469                               | 9,770                   | 1.5                       | 2,234                               | 64,934                  | 29.1                      |
| North Dakota*   | 2,149  | 1,336                             | 10,089                  | 7.6                       | 568                                 | 957                     | 1.7                       | 411                                 | 5,162                   | 12.6                      |
| Ohio*           | 118,446  | 79,478                            | 802,069                 | 10.1                      | 45,449                              | 82,872                  | 1.8                       | 26,685                              | 1,031,439               | 38.7                      |
| Oklahoma        | 9,952  | 4,572                             | 21,817                  | 4.8                       | 1,064                               | 1,733                   | 1.6                       | 0                                   | .                       | .                         |
| Oregon*         | 33,767   | 18,482                            | 99,746                  | 5.4                       | 11,538                              | 19,589                  | 1.7                       | 3,381                               | 153,428                 | 45.4                      |
| Pennsylvania*   | 122,252  | 57,117                            | 436,392                 | 7.6                       | 35,320                              | 122,713                 | 3.5                       | 31,091                              | 1,200,037               | 38.6                      |
| Puerto Rico*    | 4,424  | 2,062                             | 10,297                  | 5.0                       | 850                                 | 1,228                   | 1.4                       | 0                                   | .                       | .                         |
| Rhode Island*   | 13,425   | 4,987                             | 29,911                  | 6.0                       | 2,610                               | 5,129                   | 2.0                       | 452                                 | 6,112                   | 13.5                      |
| South Carolina  | 10,685   | 3,784                             | 26,759                  | 7.1                       | 2,773                               | 6,941                   | 2.5                       | 538                                 | 13,601                  | 25.3                      |
| South Dakota    | 687  | 220                               | 1,375                   | 6.3                       | 86                                  | 123                     | 1.4                       | 48                                  | 1,496                   | 31.2                      |
| Tennessee       | DQ   | DQ                                | DQ                      | DQ                        | DQ                                  | DQ                      | DQ                        | DQ                                  | DQ                      | DQ                        |
| Texas           | 14,847   | 3,955                             | 14,153                  | 3.6                       | 2,431                               | 3,919                   | 1.6                       | 714                                 | 14,634                  | 20.5                      |
| Utah*           | 14,090   | 4,159                             | 18,770                  | 4.5                       | 2,464                               | 6,556                   | 2.7                       | 800                                 | 35,495                  | 44.4                      |
| Vermont*        | 10,357   | 6,016                             | 64,489                  | 10.7                      | 1,890                               | 2,694                   | 1.4                       | 883                                 | 22,000                  | 24.9                      |
| Virginia*       | 46,846   | 24,357                            | 247,095                 | 10.1                      | 10,346                              | 26,952                  | 2.6                       | 2,811                               | 41,083                  | 14.6                      |
| Virgin Islands* | 13   | DS                                | DS                      | DS                        | DS                                  | DS                      | DS                        | 0                                   | .                       | .                         |
| Washington*     | 64,410   | 34,921                            | 253,974                 | 7.3                       | 20,742                              | 39,322                  | 1.9                       | 7,608                               | 203,867                 | 26.8                      |
| West Virginia*  | 31,485   | 21,165                            | 347,629                 | 16.4                      | 10,917                              | 15,500                  | 1.4                       | 3,290                               | 111,514                 | 33.9                      |
| Wisconsin       | 28,192   | 14,138                            | 103,491                 | 7.3                       | 9,385                               | 57,134                  | 6.1                       | 977                                 | 16,887                  | 17.3                      |
| Wyoming         | 601  | 301                               | 1,818                   | 6.0                       | 96                                  | 125                     | 1.3                       | 0                                   | .                       | .                         |

Source: Analysis of the 2020 preliminary TAF release 1, Medicaid beneficiaries 12 years and older who have full or comprehensive benefits.

Notes: The U.S. average is an overall average across the population in the states included in the table.

To identify beneficiaries with an OUD, we used diagnosis codes, National Drug Codes, and select procedure codes on Medicaid claims.

The count of beneficiaries for each service type represents the count of beneficiaries *with an OUD* who received the service.

We counted certain service types by days (inpatient care, MAT, observation care, partial hospitalization, and treatment program), whereas we counted other service types by claims (consultation, counseling, emergency services, physician services, screening/assessment). A claim roughly represents a single service, such as a physician service or screening/assessment. For MAT days, we counted the number of unique days for which a beneficiary was covered by a prescription.

We did not count claims with missing dates of service, procedure codes, or other information. The services presented in the table are for a SUD; if the claim did not have a SUD diagnosis code, we did not count the service.

Variation across states in the number of services beneficiaries received may be a result of billing practices, policies, or programs (for instance, if a state covers specific services), or data quality issues.

\*The state implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

Appendix Table D.9.iii (*continued*)

DS = Data suppressed for confidentiality reasons because the group included fewer than 11 beneficiaries. If the size of a group that a state did not report because of confidentiality can be identified by using other numbers from that state, we did not report a second group within that state. Slightly different totals across the tables are a function of differences in the need to suppress data from one table to the next.

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.

**Appendix Table D.10. Number and percentage of Medicaid beneficiaries treated for an OUD in 2020, by delivery system**

| State                 | Total number of Medicaid beneficiaries with an OUD | Total with a managed care SUD encounter record |             | Total with an FFS SUD claim |             |
|-----------------------|--|--|-------------|-----------------------------|-------------|
|                       |  | Number   | Percent     | Number                      | Percent     |
| <b>United States</b>  | <b>1,614,639</b>                                   | <b>1,238,148</b>                               | <b>76.7</b> | <b>698,758</b>              | <b>43.3</b> |
| Alabama               | 10,906   | 0  | 0.0         | 10,906                      | 100.0       |
| Alaska*               | 7,064  | 0  | 0.0         | 7,064                       | 100.0       |
| Arizona*              | 59,161   | 56,768   | 96.0        | 3,213                       | 5.4         |
| Arkansas*             | 5,312  | 388  | 7.3         | 4,997                       | 94.1        |
| California*           | 121,887  | 66,779   | 54.8        | 98,132                      | 80.5        |
| Colorado*             | 31,049   | 11,362   | 36.6        | 27,492                      | 88.5        |
| Connecticut*          | 39,099   | 0  | 0.0         | 39,099                      | 100.0       |
| Delaware*             | 12,337   | 12,060   | 97.8        | 1,316                       | 10.7        |
| District of Columbia* | 4,537  | 2,881  | 63.5        | 2,586                       | 57.0        |
| Florida               | 35,444   | 32,920   | 92.9        | 4,170                       | 11.8        |
| Georgia               | 11,820   | 5,604  | 47.4        | 6,439                       | 54.5        |
| Hawaii*               | 3,282  | 3,282  | 100.0       | 12                          | 0.4         |
| Idaho*                | 7,826  | 3,672  | 46.9        | 6,761                       | 86.4        |
| Illinois*             | 44,444   | 40,249   | 90.6        | 9,635                       | 21.7        |
| Indiana*              | 46,564   | 41,415   | 88.9        | 11,508                      | 24.7        |
| Iowa*                 | 8,671  | 8,481  | 97.8        | 433                         | 5.0         |
| Kansas                | 2,686  | 2,686  | 100.0       | 17                          | 0.6         |
| Kentucky*             | 69,543   | 66,690   | 95.9        | 4,511                       | 6.5         |
| Louisiana*            | 31,903   | 30,786   | 96.5        | 1,458                       | 4.6         |
| Maine*                | 16,923   | 0  | 0.0         | 16,923                      | 100.0       |
| Maryland*             | 67,737   | 28,047   | 41.4        | 66,027                      | 97.5        |
| Massachusetts*        | 80,804   | 62,019   | 76.8        | 39,912                      | 49.4        |
| Michigan*             | 50,001   | 45,992   | 92.0        | 19,295                      | 38.6        |
| Minnesota*            | 28,654   | 25,164   | 87.8        | 12,667                      | 44.2        |
| Mississippi           | 4,237  | 3,077  | 72.6        | 1,696                       | 40.0        |
| Missouri              | 15,597   | 3,819  | 24.5        | 15,368                      | 98.5        |
| Montana*              | 7,558  | 0  | 0.0         | 7,558                       | 100.0       |
| Nebraska              | 1,842  | 1,834  | 99.6        | 26                          | 1.4         |
| Nevada*               | 15,489   | 10,739   | 69.3        | 6,163                       | 39.8        |
| New Hampshire*        | 11,986   | 11,698   | 97.6        | 1,349                       | 11.3        |
| New Jersey*           | 45,322   | 34,858   | 76.9        | 28,116                      | 62.0        |
| New Mexico*           | 31,455   | 30,222   | 96.1        | 1,439                       | 4.6         |
| New York*             | 126,757  | 111,753  | 88.2        | 62,304                      | 49.2        |
| North Carolina        | 30,114   | 16,569   | 55.0        | 25,484                      | 84.6        |
| North Dakota*         | 2,149  | 1,185  | 55.1        | 1,746                       | 81.2        |
| Ohio*                 | 118,446  | 113,497  | 95.8        | 24,141                      | 20.4        |
| Oklahoma              | 9,952  | 0  | 0.0         | 9,952                       | 100.0       |
| Oregon*               | 33,767   | 31,982   | 94.7        | 6,421                       | 19.0        |
| Pennsylvania*         | 122,252  | 121,026  | 99.0        | 9,849                       | 8.1         |
| Puerto Rico*          | 4,424  | 4,424  | 100.0       | 0                           | 0.0         |
| Rhode Island*         | 13,425   | 13,304   | 99.1        | 1,002                       | 7.5         |
| South Carolina        | 10,685   | 9,151  | 85.6        | 2,689                       | 25.2        |
| South Dakota          | 687  | 0  | 0.0         | 687                         | 100.0       |
| Tennessee             | DQ   | DQ   | DQ          | DQ                          | DQ          |
| Texas                 | 14,847   | 13,316   | 89.7        | 2,513                       | 16.9        |



Appendix Table D.10 (continued)

| State           | Total number of Medicaid beneficiaries with an OUD | Total with a managed care SUD encounter record |         | Total with an FFS SUD claim |         |
|-----------------|--|--|---------|-----------------------------|---------|
|                 |  | Number   | Percent | Number                      | Percent |
| Utah*           | 14,090   | 7,803  | 55.4    | 12,975                      | 92.1    |
| Vermont*        | 10,357   | 429  | 4.1     | 10,357                      | 100.0   |
| Virginia*       | 46,846   | 45,787   | 97.7    | 5,414                       | 11.6    |
| Virgin Islands* | 13   | 0  | 0.0     | 13                          | 100.0   |
| Washington*     | 64,410   | 58,684   | 91.1    | 11,939                      | 18.5    |
| West Virginia*  | 31,485   | 24,926   | 79.2    | 28,254                      | 89.7    |
| Wisconsin       | 28,192   | 20,820   | 73.9    | 26,129                      | 92.7    |
| Wyoming         | 601  | 0  | 0.0     | 601                         | 100.0   |

Source: Analysis of the 2020 preliminary TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits.

Notes: The U.S. average is an overall average across the population in the states included in the table. To identify beneficiaries with an OUD, we used diagnosis codes, National Drug Codes, and select procedure codes on Medicaid claims.

We categorized a SUD service use record as covered under managed care if it was a managed care encounter or contained a managed care plan ID. Beneficiaries could have one or both types of claims during the year.

\*The state implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

DS = Data suppressed for confidentiality reasons because the group included fewer than 11 beneficiaries. If the size of a group that a state did not report because of confidentiality can be identified by using other numbers from that state, we did not report a second group within that state. Slightly different totals across the tables are a function of differences in the need to suppress data from one table to the next.

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.

**Appendix Table D.11. Progression of care for Medicaid beneficiaries treated for an OUD who received services in 2020 in an inpatient or a residential setting**

| State                 | Number of beneficiaries with an OUD who received services in an inpatient or a residential setting | Received at least one outpatient or home- or community-based SUD service within 30 days of discharge |             | Received more than one outpatient or home- or community-based SUD service within 30 days of discharge |             |
|-----------------------|--|--|-------------|---|-------------|
|                       |  | Number   | Percent     | Number  | Percent     |
| <b>United States</b>  | <b>473,097</b>   | <b>281,786</b>   | <b>59.6</b> | <b>230,368</b>  | <b>48.7</b> |
| Alabama               | 3,234  | 1,662  | 51.4        | 1,068   | 33.0        |
| Alaska*               | 1,680  | 951  | 56.6        | 699   | 41.6        |
| Arizona*              | 21,201   | 13,218   | 62.3        | 11,057  | 52.2        |
| Arkansas*             | 1,718  | 468  | 27.2        | 292   | 17.0        |
| California*           | 32,140   | 14,093   | 43.8        | 10,850  | 33.8        |
| Colorado*             | 7,063  | 3,389  | 48.0        | 2,363   | 33.5        |
| Connecticut*          | 8,463  | 5,960  | 70.4        | 5,099   | 60.3        |
| Delaware*             | 3,503  | 2,400  | 68.5        | 2,010   | 57.4        |
| District of Columbia* | 1,754  | 702  | 40.0        | 496   | 28.3        |
| Florida               | 13,655   | 5,008  | 36.7        | 3,447   | 25.2        |
| Georgia               | 3,386  | 1,134  | 33.5        | 716   | 21.1        |
| Hawaii*               | 851  | 417  | 49.0        | 290   | 34.1        |
| Idaho*                | 2,009  | 1,042  | 51.9        | 781   | 38.9        |
| Illinois*             | 16,630   | 8,897  | 53.5        | 5,830   | 35.1        |
| Indiana*              | 12,158   | 6,551  | 53.9        | 5,099   | 41.9        |
| Iowa*                 | 2,695  | 1,715  | 63.6        | 1,368   | 50.8        |
| Kansas                | 980  | 406  | 41.4        | 319   | 32.6        |
| Kentucky*             | 20,218   | 13,881   | 68.7        | 11,830  | 58.5        |
| Louisiana*            | 14,515   | 7,252  | 50.0        | 6,084   | 41.9        |
| Maine*                | 2,906  | 1,766  | 60.8        | 1,461   | 50.3        |
| Maryland*             | 18,399   | 12,432   | 67.6        | 10,894  | 59.2        |
| Massachusetts*        | 30,213   | 22,566   | 74.7        | 20,261  | 67.1        |
| Michigan*             | 16,635   | 9,657  | 58.1        | 7,527   | 45.2        |
| Minnesota*            | 8,177  | 5,054  | 61.8        | 4,134   | 50.6        |
| Mississippi           | 1,291  | 407  | 31.5        | 225   | 17.4        |
| Missouri              | 4,869  | 2,674  | 54.9        | 2,097   | 43.1        |
| Montana*              | 2,056  | 1,309  | 63.7        | 1,067   | 51.9        |
| Nebraska              | 669  | 266  | 39.8        | 177   | 26.5        |
| Nevada*               | 4,835  | 2,582  | 53.4        | 2,025   | 41.9        |
| New Hampshire*        | 2,959  | 2,089  | 70.6        | 1,719   | 58.1        |
| New Jersey*           | 10,923   | 6,473  | 59.3        | 5,653   | 51.8        |
| New Mexico*           | 7,033  | 3,566  | 50.7        | 2,640   | 37.5        |
| New York*             | 42,267   | 29,660   | 70.2        | 25,825  | 61.1        |
| North Carolina        | 8,412  | 4,146  | 49.3        | 2,967   | 35.3        |
| North Dakota*         | 585  | 350  | 59.8        | 292   | 49.9        |
| Ohio*                 | 42,120   | 30,490   | 72.4        | 26,729  | 63.5        |
| Oklahoma              | 2,686  | 783  | 29.2        | 449   | 16.7        |
| Oregon*               | 10,702   | 6,793  | 63.5        | 5,649   | 52.8        |
| Pennsylvania*         | 25,010   | 13,712   | 54.8        | 10,467  | 41.9        |
| Puerto Rico*          | 1,006  | 423  | 42.0        | 279   | 27.7        |
| Rhode Island*         | 1,877  | 1,370  | 73.0        | 1,191   | 63.5        |
| South Carolina        | 2,521  | 1,140  | 45.2        | 859   | 34.1        |
| South Dakota          | 254  | 84   | 33.1        | 58  | 22.8        |

Appendix Table D.11 (continued)

| State           | Number of beneficiaries with an OUD who received services in an inpatient or a residential setting | Received at least one outpatient or home- or community-based SUD service within 30 days of discharge |         | Received more than one outpatient or home- or community-based SUD service within 30 days of discharge |         |
|-----------------|--|--|---------|---|---------|
|                 |  | Number   | Percent | Number  | Percent |
| Tennessee       | DQ   | DQ   | DQ      | DQ  | DQ      |
| Texas           | 5,379  | 1,978  | 36.8    | 1,342   | 24.9    |
| Utah*           | 6,208  | 3,889  | 62.6    | 2,906   | 46.8    |
| Vermont*        | 1,720  | 1,082  | 62.9    | 805   | 46.8    |
| Virginia*       | 10,761   | 5,865  | 54.5    | 4,684   | 43.5    |
| Virgin Islands* | DS   | 0  | .       | 0   | .       |
| Washington*     | 18,171   | 11,064   | 60.9    | 9,051   | 49.8    |
| West Virginia*  | 7,411  | 4,488  | 60.6    | 3,696   | 49.9    |
| Wisconsin       | 7,030  | 4,426  | 63.0    | 3,502   | 49.8    |
| Wyoming         | 159  | 56   | 35.2    | 39  | 24.5    |

Source: Analysis of the 2020 preliminary TAF release 1, Medicaid beneficiaries ages 12 and older who have full or comprehensive benefits.

Notes: The U.S. average is an overall average across the population in the states included in the table.

To identify beneficiaries with an OUD, we used diagnosis codes, National Drug Codes, and select procedure codes on Medicaid claims.

\*The state implemented Medicaid expansion for adults by (or enrolled beneficiaries retroactively through) January 1, 2020.

DS = Data suppressed for confidentiality reasons because the group included fewer than 11 beneficiaries. If the size of a group that a state did not report because of confidentiality can be identified by using other numbers from that state, we did not report a second group within that state. Slightly different totals across the tables are a function of differences in the need to suppress data from one table to the next.

DQ = Not reported because of a severe data quality issue. Tennessee had such a severe data quality issue in 2020 that it was not included in the table. For additional information on data quality issues, please see Appendix B.

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**APPENDIX E:**  
**COMPOSITION OF ENROLLMENT CATEGORIES**

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**Appendix Table E.1. Composition of enrollment categories**

| Enrollment category                           | Eligibility group from the TAF data dictionary  |
|---|---|
| Adult   | Parents and other caretaker relatives   |
|   | Transitional medical assistance   |
|   | Extended Medicaid due to earnings   |
|   | Extended Medicaid due to spousal support  |
|   | Former foster care children   |
|   | Optional coverage of parents and other caretaker relatives  |
|   | Individuals electing COBRA continuation coverage  |
|   | Individuals above 133% of the federal poverty level (FPL) under age 65  |
|   | Certain individuals needing treatment for breast or cervical cancer   |
|   | Individuals eligible for family planning services   |
|   | Individuals with tuberculosis   |
|   | Medically needy parents and other caretakers  |
|   | Family planning services (expansion group)  |
|   | Other expansion group   |
| Children                                      | Deemed newborns   |
|   | Infants and children under 19   |
|   | Children with Title IV-E adoption assistance, foster care, or guardianship care   |
|   | Reasonable classifications of individuals under age 21  |
|   | Children with non-IV-E adoption assistance  |
|   | Independent foster care adolescents   |
|   | Optional targeted low-income children   |
|   | Medically needy children under age 18   |
| Medically needy children age 18 through 20    |   |
| Pregnant                                      | Pregnant women  |
|   | Medically needy pregnant women  |
| Aged, blind, disabled (ABD)                   | Individual receiving SSI  |
|   | ABD individuals in 209(b) states  |
|   | Individuals receiving mandatory state supplements   |
|   | Individuals who are essential spouses   |
|   | Institutionalized individuals continuously eligible since 1973  |
|   | Individuals who lost eligibility for Supplemental Security Income (SSI)/State Supplementary Payment (SSP) Due to an Increase in Old Age, Survivors, and Disability Insurance (OASDI) program benefits in 1972 |
| Individuals who would be eligible for SSI/SSP |   |

Appendix Table E.1 (continued)

| Enrollment category  | Eligibility group from the TAF data dictionary  |
|--|---|
| Aged, blind, disabled (cont'd)                                 | Blind or disabled individuals eligible in 1973  |
|  | Disabled widows and widowers ineligible for SSI due to increase in OASDI  |
|  | Disabled widows and widowers ineligible for SSI due to early receipt of social security                               |
|  | Working disabled under 1619 (b)   |
|  | Disabled adult children   |
|  | Qualified Medicare beneficiaries  |
|  | Qualified disabled and working individuals  |
|  | Specific low-income Medicare beneficiaries  |
|  | Qualifying individuals  |
|  | ABD eligible but not receiving cash assistance  |
|  | Individuals eligible for cash assistance except for institutionalization  |
|  | Individuals receiving home- and community-based services (HCBS) under institutional rules                             |
|  | Optional state supplemental recipients—1634 states and SSI criteria states with 1616 agreements                       |
|  | Optional state supplement recipients—209(b) states and SSI criteria states without 1616 agreements                    |
|  | Institutionalized individuals eligible under a special income level   |
|  | Individuals participating in a Program of All-Inclusive Care for the Elderly (PACE) program under institutional rules |
|  | Individuals receiving hospice care  |
|  | Qualified disabled children under age 19  |
|  | Poverty level aged or disabled  |
|  | Work incentives eligibility group   |
|  | Ticket to work basic group  |
|  | Ticket to work medical improvements group   |
|  | Family Opportunity Act children with disabilities   |
| Individuals eligible for HCBS                                  |   |
| Individuals eligible for HCBS—special income level             |   |
| Medically needy ABD  |   |
| Medically needy blind or disabled individuals eligible in 1973 |   |
| Individuals with mental health conditions (expansion group)    |   |
| Expansion adult  | Adult group—individuals at or below 133% FPL, 19–64, newly eligible for all states                                    |
|  | Adult group—individuals at or below 133% FPL, 19–64, not newly eligible for non 1905z(3) states                       |
|  | Adult group—individuals at or below 133% FPL, not newly eligible parent/caretaker relative(s) in 1905z(3) states      |
|  | Individuals at or below 133% FPL, not newly eligible non-parent/caretaker relative(s) in 1905z(3) states              |



**APPENDIX F:**

**MEDICAID AND CHIP PAYMENT AND ACCESS COMMISSION (MACPAC)  
PUBLIC LETTER ON ENROLLMENT CATEGORIES FOR THE SUPPORT  
FOR PATIENTS AND COMMUNITY ACT T-MSIS SUD DATA BOOK**

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Advising Congress on  
Medicaid and CHIP Policy

**Commissioners**

**Penny Thompson, MPA, Chair**  
**Stacey Lampkin, FSA, MAAA,**  
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*Vice Chair*

**Melanie Bella, MBA**

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**Peter Szilagyi, MD, MPH**

**Alan Weil, JD, MPP**

**Katherine Weno, DDS,**

**JD**

**Anne L. Schwartz, PhD,**

*Executive Director*

March 21, 2019

The Honorable Alex M. Azar II Secretary  
U.S. Department of Health and Human Services  
200 Independence Avenue, SW  
Washington, DC 20201

Dear Secretary Azar:

Section 1015 of the SUPPORT for Patients and Communities Act (the SUPPORT Act, P.L. 115-271) requires the Secretary of the U.S. Department of Health and Human Services (HHS) to publish a report with comprehensive data on the prevalence of substance use disorders in the Medicaid population and the services provided under Medicaid for the treatment of such disorders. Among other data, the report must include the number and percentage of individuals in each of the major Medicaid enrollment categories who have been diagnosed with a substance use disorder and whether those individuals are enrolled under the Medicaid state plan or a waiver.

Section 1015(a)(2)(A) of the SUPPORT Act charges the Medicaid and CHIP Payment and Access Commission (MACPAC) with defining in a public letter the major Medicaid enrollment categories for purposes of this report.

Accordingly, we recommend that HHS use the following eligibility groups in the report:

- children age 0–18, excluding those eligible on the basis of a disability;
- adults eligible under Section 1902(a)(10)(A)(i)(VIII) of the Social Security Act as added in the Patient Protection and Affordable Care Act (P.L. 111-148, as amended);
- other adults age 19–64, such as parents and other caretaker relatives, excluding those eligible on the basis of a disability;
- individuals over age 65;
- adults age 19–64 who are eligible on the basis of a disability;
- children age 0–18 who are eligible on the basis of a disability;
- pregnant women; and,
- individuals dually eligible for Medicaid and Medicare who receive full Medicaid benefits

If data are available, MACPAC also suggests including a number of special populations that may be particularly affected by the opioid epidemic. For example, children who qualify for Medicaid on the basis of child welfare assistance generally have a high prevalence of behavioral health conditions (MACPAC 2015). Similarly, full-benefit dually eligible beneficiaries under age 65 experience higher rates of behavioral health conditions than such beneficiaries over age 65 (MACPAC and MedPAC 2018). Older adolescents represent an additional category for consideration, as buprenorphine may be prescribed to patients age 16 and older with opioid use disorders. Finally, federal guidance issued in 2018 noted the critical role played by Medicaid in the care of infants with neonatal abstinence syndrome. Although not characterized as a substance use disorder, neonatal abstinence syndrome results from exposure to opioids and affects thousands of infants whose care is paid for by Medicaid (CMS 2018).

We recognize that T-MSIS data are still being validated and there may be gaps in the data available at this time, making it challenging to report on all of the eligibility categories we recommend. Even so, we encourage HHS to report on these eligibility categories in its inaugural data book, note instances where data are incomplete, and build the content of subsequent editions as data improvements are made.

If you have any questions or would like to discuss our recommendations, please feel free to contact me or have your staff contact Anne Schwartz, executive director, at 202-350-2000.

Sincerely,



Penny Thompson  
Chair

cc: The Honorable Seema Verma, Administrator, Centers for Medicare & Medicaid Services

### References

Centers for Medicare & Medicaid Services (CMS), U.S. Department of Health and Human Services. 2018. CMCS informational bulletin regarding "Neonatal abstinence syndrome: A critical role for Medicaid in the care of infants." June 11, 2018. <https://www.medicaid.gov/federal-policy-guidance/downloads/cib060818.pdf>

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Medicaid and CHIP Payment  
and Access Commission  
[www.macpac.gov](http://www.macpac.gov)

**APPENDIX G:**  
**STATUTE-TO-TABLES CROSSWALK**

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**Appendix Table G.1. Crosswalk between statutory language in the SUPPORT for Patients and Communities Act and the SUD Data Book contents<sup>129</sup>**

| Statute section  | Corresponding SUD Data Book table   |
|--|---|
| <p>A. The number and percentage of individuals enrolled in the State Medicaid plan or waiver of such plan in each of the major enrollment categories (as defined in a public letter from the Medicaid and CHIP Payment and Access Commission to the Secretary) who have been diagnosed with a substance use disorder and whether such individuals are enrolled under the State Medicaid plan or a waiver of such plan, including the specific waiver authority under which they are enrolled, to the extent available.</p>   | <p>Table A.1 Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by disorder</p> <p>Table A.2. Distribution of Medicaid beneficiaries treated for a SUD in 2020, by disorder</p> <p>Table A.3. Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by major enrollment category</p> <p>Table A.4. Distribution of Medicaid beneficiaries treated for a SUD in 2020, by major enrollment category</p> <p>Table A.5. Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by age group and disability status</p> <p>Table A.6. Distribution of Medicaid beneficiaries treated for a SUD in 2020, by age group and disability status</p> <p>Table A.7. Number and percentage of Medicaid beneficiaries treated for a SUD in 2020 who were dually eligible for Medicare, and beneficiaries who were dually eligible and treated for a SUD</p> |
| <p>B. A list of the substance use disorder treatment services by each major type of service, such as counseling, medication-assisted treatment, peer support, residential treatment, and inpatient care, for which beneficiaries in each State received at least 1 service under the State Medicaid plan or a waiver of such plan.</p>   | <p>Table B.1. SUD treatment services used by Medicaid beneficiaries</p> <p>Table B.2. SUD treatment service types not billed, by state</p>  |
| <p>C. The number and percentage of individuals with a substance use disorder diagnosis enrolled in the State Medicaid plan or waiver of such plan who received substance use disorder treatment services under such plan or waiver by each major type of service under subparagraph (B) within each major setting type, such as outpatient, inpatient, residential, and other home-based and community-based settings.</p>   | <p>Table C.1. Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by service type</p> <p>Table C.2. Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by service setting</p>  |
| <p>D. The number of services provided under the State Medicaid plan or waiver of such plan per individual with a substance use disorder diagnosis enrolled in such plan or waiver for each major type of service under subparagraph (B).</p>   | <p>Table D.1. Average number of SUD services received by Medicaid beneficiaries who received a given service in 2020, by service type</p>   |
| <p>E. The number and percentage of individuals enrolled in the State Medicaid plan or waiver, by major enrollment category, who received substance use disorder treatment through—</p> <p>(i) a Medicaid managed care entity (as defined in section 1932(a)(1)(B) of the Social Security Act (42 U.S.C. 1396u–2(a)(1)(B))), including the number of such individuals who received such assistance through a prepaid inpatient health plan or a prepaid ambulatory health plan;</p> <p>(ii) a fee-for-service payment model; or</p> <p>(iii) an alternative payment model, to the extent available.</p> | <p>Table E.1. Number and percentage of Medicaid beneficiaries treated for a SUD in 2020, by delivery system</p>   |
| <p>F. The number and percentage of individuals with a substance use disorder who receive substance use disorder treatment services in an outpatient or home-based and community-based setting after receiving treatment in an inpatient or residential setting, and the number of services received by such individuals in the outpatient or home-based and community-based setting</p>  | <p>Table F.1. Progression of care for Medicaid beneficiaries treated for a SUD who received services in an inpatient or a residential setting in 2020</p>   |

<sup>129</sup> Tables that are split between multiple pages are given lower-case Roman numerals at the end of the table number to indicate whether the “component table” is the first component (i), second component (ii), and so on.