



# Collective Impact's Multi-State Behavioral Health Initiative – Methods Documentation

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## About Onpoint’s Collective Impact Initiative

Onpoint’s Collective Impact initiative is an ongoing program dedicated to leveraging our nonprofit mission to drive meaningful change for our clients and their communities. As an independent health data organization, we believe in the power of collaboration to create innovative, data-driven solutions that support health care transformation. The Collective Impact initiative provides pro bono solutions that deliver insights, deepen understanding, and demonstrate the value of all-payer claims databases (APCDs) nationwide.

## About the Multi-State Behavioral Health Initiative

The Multi-State Behavioral Health Initiative is an exciting collaboration between Onpoint and five of our state all-payer claims database (APCD) clients – Connecticut, Georgia, Maryland, Minnesota, and Vermont. Working together to leverage their collective data for systemwide health care improvement, we developed a series of interactive dashboards that explore the relationships between behavioral health, other medical conditions, and social drivers of health across key geographies and the behavioral health provider workforce.

The following document provides an overview of the methodology used to generate the Multi-State Behavioral Health Initiative dashboards, including data sources, stratifications and dimensions, measures, and diagnosis codes used to identify specific behavioral health conditions based on guidance from the U.S. Department of Health and Human Services' Substance Abuse and Mental Health Services Administration (SAMHSA). Some aspects of the methodology has been updated since the launch of the initial dashboards in April 2025.

## Methods

### Primary Data Source

The study data source was restricted to all-payer claims database (APCD) claims and eligibility records available in the most recent consolidated data extract for each participating client, with claims for services from January 2019 (or 2020, depending on data availability) through December 2023, including three or more months of claims run-out (through March 2024) to capture negotiated payment amounts.

The study excludes non-resident members – referred to as “insured patients” in the dashboards’ narrative – from each state’s data. For example, out-of-state residents who were reported in the claims data for Vermont’s APCD are excluded from Vermont’s analysis. Health care provided outside of the state for state residents, however, is included in the study. In Maryland, Medicare Advantage members were excluded from our analysis after Onpoint identified inconsistencies between the claims and eligibility data reported for this population, removing the potential to distort results.

The combinations of payer, year, and data, and dashboard reports presented for each state varied depending on the complete data that was available and authorized for use (per data use agreements). See **Table A-1** and **Table A-2** in Appendix A for a complete list of the data included for each state and dashboard report.

Blinding rules have been applied to the results in compliance with standards from the U.S. Centers for Medicare & Medicaid Services (CMS). Specifically, any member-related cell with a numerator or denominator value between one and 10 was blinded for this study.

Onpoint evaluated the submissions of substance use disorder (SUD) claims for our APCD clients as part of our ongoing data quality initiatives (see this [issue brief](#) for more detail). These data quality findings were used to evaluate whether each state’s SUD data were sufficient to support reporting on SUD. If the data did not support SUD analysis, the analysis for that state was limited to only mental health conditions. Cross-state analyses were stratified by mental health and SUD to enable comparisons where feasible.

### Population Stratifications

The following section offers detail regarding the population stratifications used in the reporting and analysis.

### Reporting Period

To ensure that the most current and complete data available were used, the dashboards employed consistent reporting periods based on the calendar year of the incurred date (i.e., date of service) (see **Table 1**).

**Table 1.** Time Periods Used in the Multi-State Behavioral Health Initiative Dashboards

Incurred Start Date	Incurred End Date	Paid (Run-Out) End Date
1/1/2023	12/31/2023	3/31/2023
1/1/2022	12/31/2022	3/31/2022
1/1/2021	12/31/2021	3/31/2021
1/1/2020	12/31/2020	3/31/2020
1/1/2019*	12/31/2019 *	3/31/2019 *

\* Excluding Maryland, which used APCD data only from 2020 forward

## Age Groups & Sex

The following age stratifications were used for the analysis:

- 1–14 years
- 15–25 years
- 26–45 years
- 46–64 years
- 65+ years

Infants who were less than one year old were excluded from this study.

The following sex stratifications were used for the analysis:

- Male
- Female

## Payer Type

Data were stratified by the following payer types:

- Commercial
- Medicaid (denoted as “Minnesota Health Care Programs” in Minnesota’s dashboards)
- Medicare Advantage
- Medicare Fee-for-Service (FFS)

Members covered by commercial plans for Medicare Advantage were assigned to Medicare Advantage, and members covered by commercial plans for Medicaid managed care were assigned to Medicaid. Members were assigned to a single payer based on the primary coverage reported by payer in the last month of enrollment in medical insurance in each reporting period. If the member was enrolled in more than one payer type during this last month and more than one payer reported coverage as primary, we used this hierarchy to assign the member to a single payer: commercial, Medicare, Medicaid.

## Geography of Residence

Members were assigned to a county based on their reported county of residence as of the last month of each reporting period. We used a ZIP-code-to-county crosswalk to attribute patients to counties. In Connecticut’s dashboards, residents were reported by planning region due to the state’s shift from [counties to planning regions in 2024](#). Onpoint’s data use agreement with Georgia prohibited the use of five-digit ZIP code and county identification, and thus members were attributed to a three-digit ZIP only

(which denote areas larger than counties in Georgia). As a result, Georgia was not included in analyses that depended on a five-digit ZIP (e.g., those in the Social Drivers dashboard).

## Rural/Urban

Members also were assigned to one of the following 2020 Rural-Urban Commuting Area (RUCA) codes based on their ZIP code of residence (as of the last month of each reporting period). The RUCA codes were aggregated into four categories (see **Table 2**) based on preliminary data analysis and in keeping with a recommendation (Scheme 1 in the linked document) from the Washington State Department of Health that has been used in previous Onpoint reporting. This aggregation reduced the need for blinding (compared to the 10-level RUCA groupings) when measures were calculated for less populated areas. A comparison of members living in Small Town or Rural areas to those living in Urban Core areas was included in some dashboards to provide a ratio of health care utilization by rural/urban areas; this ratio excluded members living in Suburban and Large Rural areas to simplify the comparison.

**Table 2.** Groupings of Rural-Urban Commuting Area (RUCA) Codes in the Dashboards

RUCA	Description	Group
1	Metropolitan area core: primary flow within an urbanized area (UA)	Urban Core
2	Metropolitan area high commuting: primary flow 30% or more to a UA	Suburban
3	Metropolitan area low commuting: primary flow 10% to 30% to a UA	Suburban
4	Micropolitan area core: primary flow within an Urban Cluster of 10,000 to 49,999 (large UC)	Large Rural
5	Micropolitan high commuting: primary flow 30% or more to a large UC	Large Rural
6	Micropolitan low commuting: primary flow 10% to 30% to a large UC	Large Rural
7	Small town core: primary flow within an Urban Cluster of 2,500 to 9,999 (small UC)	Small Town or Rural
8	Small town high commuting: primary flow 30% or more to a small UC	Small Town or Rural
9	Small town low commuting: primary flow 10% to 30% to a small UC	Small Town or Rural
10	Rural areas: primary flow to a tract outside a UA or UC	Small Town or Rural
99	Not coded: Census tract has zero population and no rural-urban identifier information	N/A

## Social Vulnerability Index

Members also were assigned to a Social Vulnerability Index (SVI) quartile based on their reported ZIP code of residence (as of the last month of each reporting period). The SVI is a measure maintained by the U.S. Centers for Disease Control and Prevention (CDC) and the Agency for Toxic Substances and Disease Registry (ATSDR). It uses data from the American Community Survey (ACS) of the U.S. Census Bureau to identify communities that may need support before, during, or after disasters. Communities are ranked at the census-tract level. For this reporting, census tract rankings were rolled up to the ZIP-code level to enable linkage with APCD data. We then calculated the level of vulnerability by quartile – with Quartile 1 indicating the lowest level of vulnerability and Quartile 4 indicating the highest level of vulnerability – and used these SVI quartiles as a stratification in this reporting.

Along with the overall SVI, we also calculated quartiles for each of the four “themes” that determine the overall SVI:

- Socioeconomic status
- Household characteristics
- Minority status and language
- Housing and transportation

Additionally, we identified ZIP codes in the top 10 percent and bottom 10 percent for each SVI theme to enable comparisons across certain measures. SVI percentiles and quartiles were calculated within each state to ensure that the state had sufficient ZIP codes in each theme to support reporting. ZIP codes in the top and bottom 10 percent were then used to calculate the ratios in the utilization measures between the most vulnerable and least vulnerable ZIP codes.

### Subcategories of Behavioral Health Disorders

Classification of members with mental health and substance use disorders was based on methods described by the Substance Abuse and Mental Health Services Administration (SAMHSA), a division of the U.S. Department of Health and Human Services, in an October 2022 report, “[Mental Health Annual Report 2015–2020: Use of Mental Health Services: National Client-Level Data](#).” The categories and the ICD-10-CM diagnosis codes for each category were drawn from the SAMHSA report’s Appendix E (“Mental Health and Substance Use Diagnosis Codes”). Onpoint flagged members if they had at least one inpatient or at least two outpatient claims in the APCD that included a BH-related diagnosis code (in any of the available 26 diagnosis code fields) during the current or prior calendar year – a method consistent with the approach used for mental health conditions in the [CMS Chronic Conditions Data Warehouse \(CCW\)](#). Rare conditions that had low prevalence were aggregated into “All Other Mental Health Conditions.”

The list of ICD-10-CM codes from the SAMHSA report has been provided in this report’s [Appendix B](#) for the SAMHSA categories listed below in **Table 3**.

**Table 3.** Dashboard Condition, SAMHSA Group Name, & Description Used in the MBHI Dashboards

Dashboard Condition	SAMHSA Group Name	Description
Trauma & Stress	Trauma- and stressor-related disorders	This category includes adjustment disorders, acute stress disorders, and post-traumatic stress disorders.
Anxiety Disorder	Anxiety disorders	This category includes anxiety disorders, phobias, and obsessive-compulsive disorders.
ADHD	Attention deficit / hyperactivity disorder	This category includes conditions characterized by challenges with inattention, hyperactivity, and impulsivity.
Autism Spectrum Disorder	Pervasive developmental disorders	This category includes conditions that span a range of childhood and developmental disorders (e.g., childhood autism, Asperger’s syndrome). Together, these neurological and developmental disorders are commonly referred to as “autism spectrum disorder,” which affects how people interact with others, communicate, learn, and behave.
Other Mood Disorder	Mood disorders	This category includes disorders that impact a person’s emotional state and may result in long periods of extreme happiness, sadness, or both.
Bipolar Disorder	Bipolar disorders	This category includes chronic mood disorders that cause intense shifts in mood, energy levels, and behavior.
Depression	Depressive disorders	This category includes disorders characterized by persistently low or depressed mood and loss of interest in activities.
Schizophrenia	Schizophrenia and other psychotic disorders	This category includes a set of disorders characterized by a disconnection from reality, including schizophrenia and other psychotic disorders.
Alcohol Use Disorder	Alcohol-related disorders	This category includes alcohol abuse, dependence, and use, unspecified. It also includes alcohol use complicating pregnancy, newborn affected by maternal alcohol use, and conditions caused by chronic alcohol use.

Dashboard Condition	SAMHSA Group Name	Description
Substance Use Disorder	Substance-related disorders	This category includes substance abuse, dependence, and use, unspecified (e.g., opioid, cannabis, sedatives, cocaine, other stimulants, hallucinogen, nicotine, non-psychoactive substances). It also includes substance use complicating pregnancy, newborn affected by maternal substance use, and poisoning, adverse effects, and underdosing (excluding self-harm) of specific drugs.
Suicide & Self-Inflicted Injury	Suicide and intentional self-inflicted injury	This category relates to conditions involving suicide attempts and other intentional self-harm events (e.g., intentional poisonings, drownings). This category does not consider death information.
All Other Mental Health Conditions	Miscellaneous mental disorders and other individual disorders	The following SAMHSA categories with low prevalence in the population were collapsed to create this category: conduct disorder; oppositional defiant disorder; disorders usually diagnosed in infancy, childhood, or adolescence; impulse control disorders not elsewhere categorized; personality disorders; and miscellaneous mental disorders.

A small number of ICD-10-CM diagnosis codes that fell within the mental health and substance use disorders coding range (i.e., F01–F99) were not included in the SAMHSA definitions (see [Appendix B](#)). The number of members reported in the APCD claims data with these additional codes was low, and they were not added to the definitions used for this study to maintain consistency with SAMHSA’s reporting method. Two SAMHSA categories – “Developmental disorders” and “Delirium, dementia, and amnestic and other cognitive disorders” – were excluded from the mental health conditions in our study because we considered them to fall outside of commonly defined mental health disorders.

To facilitate some of the more detailed reporting (e.g., geographical, co-occurring conditions, use of care), the SAMHSA categories were combined into the following higher-level classifications for states with SUD claims available:

1. No BH Condition (No MH and no SUD)
2. Any BH Condition (Any MH or any SUD)

For state APCDs where SUD-related claims had been redacted, the SAMHSA categories were combined into the following higher-level classifications:

1. No MH Condition (No MH)
2. Any MH Condition (Any MH)

The selection of these higher-level classifications helped to avoid the extensive blinding of results that otherwise would have been required to meet CMS suppression rules, which preclude the display of any cell with a denominator or numerator with a value between one and 10.

## Chronic Conditions

Chronic conditions and other chronic health, mental health, and potentially disabling conditions were identified using CCW flags based on information available at the following links from CMS:

- [Chronic Conditions](#)
- [Other Chronic Health, Mental Health, and Potentially Disabling Conditions](#)

Chronic condition flags were used to identify members with the following chronic conditions:

- Chronic obstructive pulmonary disease (COPD)
- Diabetes

- Heart disease (heart failure and non-ischemic heart disease)
- Hypertension
- Kidney disease (chronic kidney disease)
- Obesity

## Measure Specifications

This section describes the different measures used in the reporting and analysis.

### Utilization Measures

For the Multi-State Behavioral Health Initiative dashboards, utilization measures included the services listed in **Table 4**. Rates of service use per 1,000 members were calculated and used in the reporting and analysis. Most of the measures were reported regardless of the primary diagnosis on the claim to provide a comprehensive view of health care use by patients with behavioral health (BH) conditions compared to patients without BH conditions. The count of service use was identified at the distinct member-service date level for most services, at the distinct member-inpatient discharge level for inpatient services, and at the distinct member-fill date pharmacy claim level for prescriptions filled.

Several utilization measures were based on Current Procedural Terminology (CPT) and Healthcare Common Procedure Coding System (HCPCS) coding classifications found in the CMS Restructured BETOS Classification System (RBCS), which is an update of the original Berenson-Eggers Type of Service (BETOS) classification system.

**Table 4.** Utilization Measures Included in the Behavioral Health Dashboards

Measure	Description
Acute inpatient admissions	Number of acute inpatient admissions per 1,000 members
Crisis services	Number of crisis services per 1,000 members
Emergency department visits	Number of emergency department (ED) visits per 1,000 members
Outpatient office visits	Number of outpatient office visits per 1,000 members
Prescriptions filled	Number of total prescriptions filled per 1,000 members
Primary care visits	Number of primary care visits per 1,000 members
Psychotherapy visits	Number of psychotherapy/counseling visits per 1,000 members
Telehealth visits	Number of telehealth visits per 1,000 members
Urgent care visits	Number of urgent care visits per 1,000 members

Methods for calculating the measures included the following:

- **Acute inpatient admissions:** Acute stays only. Nursing facility stays were excluded. Limited to facility claims.
- **Crisis services:** CPT/HCPCS code = 90839, 90840, H0007, H0011, H0013, H0015, H2011, S9484, S9485, T20234.
- **Emergency department visits:** Place of service code = 23; or revenue code = 0450–0459, 0981; or CPT code = 99281–99285, 99288, G0380-G0384, G0425-G0427. For analysis of members' rates of ED visits, only facility claims were examined.

- **Outpatient office visits:** Defined using RBCS subcategory for office/outpatient visits (EV). This definition of outpatient office visits does not include psychotherapy visits.
- **Prescriptions filled:** Defined as the total count of claims in the pharmacy table (e.g., retail pharmacy claims). Does not include pharmacy reported in medical claims.
- **Primary care visits:** Includes selected taxonomy codes for family medicine, internal medicine, and pediatrics. Since the objective of including primary care in this study was to evaluate trends in behavioral health provided in a primary care setting, we did not use the typical narrow definition of primary care that restricts to certain procedure codes but instead looked at any care provided by primary care doctors.
- **Psychotherapy visits:** Defined as psychotherapy using the RBCS subcategory for behavioral health services (EB) with the RBCS sub-families for group therapy (15) and nongroup therapy (9).
- **Telehealth visits:** Defined as place of service = 2, 10; CPT/HCPCS modifier code = 93, 95, FQ, G0, GQ, GT; revenue code = 0780; or CPT/HCPCS code = 98966–98972, 99421–99423, 99441–99444, 99453, 99454, 99457, 99458, G0071, G0406–G0408, G0425–G0427, G0459, G0508, G0509, G2010, G2012, G2025, G2061–G2063, G2250, G2251, Q3014.
- **Urgent care visits:** Defined as place of service code = 20 or revenue code = 0456.

**For health utilization measures, claim restrictions:** To remove duplicate and secondary payment claims and accurately count distinct services used, Onpoint restricted medical claims to those with a claim status of processed as primary, processed as primary and forwarded to additional payers, and processed with missing or invalid value. In addition, denied claims, orphaned adjustment claims, duplicate Medicare Advantage claims in Medicare FFS data, and duplicate members' claims in the carved-out benefit plans were excluded. These same restrictions and exclusions also were applied to pharmacy claims; in addition, duplicate members' Part D claims were excluded.

## Cost Measures

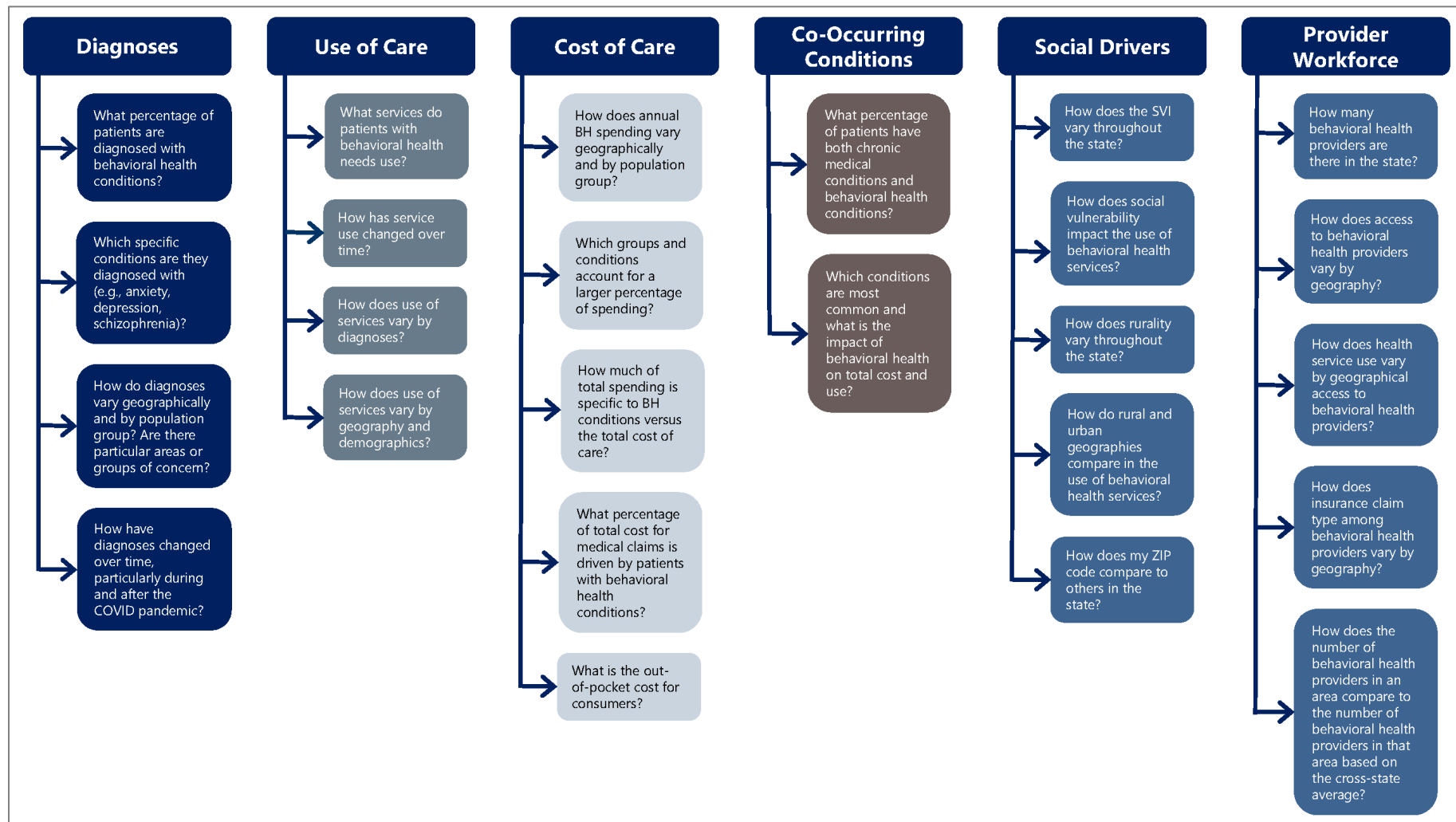
The following measures were calculated for cost of care for reported behavioral health and medical conditions:

- **Total cost of care per member per year (PMPY).** This includes the total spending (plan payments plus member payments) for both medical and pharmacy claims during the year divided by average members. Average members are equal to member months divided by 12.
- **Total out-of-pocket PMPY.** This includes the total member payments (i.e., co-pay, coinsurance, and deductible) for both medical and pharmacy claims during the year divided by average members. Average members are equal to member months divided by 12.
- **Cost for services with a primary diagnosis related to behavioral health.** Total PMPY spending is divided into two components – costs for services with a primary diagnosis related to BH and the spending for services with a primary diagnosis not related to BH.

**For cost measures, claim restrictions:** To remove duplicate and secondary payment claims and accurately count distinct services used, Onpoint restricted medical claims to those with a claim status of processed as primary, processed as primary and forwarded to additional payers, and processed with missing or invalid value. Denied claims, orphaned adjustment claims, duplicate Medicare Advantage claims in Medicare FFS data, and duplicate members' claims in the carved-out benefit plans were excluded. These same restrictions and exclusions also were applied to pharmacy claims; in addition, duplicate members' Part D claims were excluded. In addition, we did not consider fee-for-service equivalent amounts reported by some submitters in some states.

**For Vermont:** For Medicare and Medicaid, Accountable Care Organization (ACO) payments were included in cost calculations. For Medicare, the All-Inclusive Population Based Payment (AIPBP) amount was included. For Medicaid, ACO monthly capitation payments were included, and were reported via an external patient-level file that was linked to APCD data. These Medicare and Medicaid ACO payments were also included when calculating the total allowed amount for Vermont's Total Cost of Care (TCOC) analyses.

# Reporting Framework



## Behavioral Health Provider Workforce

This section describes the different measures used in the reporting and analysis for the behavioral health (BH) Provider Workforce dashboard.

### Identification of the BH Provider Workforce in Each State

Identification of the BH provider workforce was done using the latest year that had complete medical claims data in the state APCD. For Georgia, Minnesota, and Vermont, calendar year 2023 was the latest year with complete medical claims data. (In Georgia, however, Medicare data was not included in any analysis for any year.) For the Connecticut and Maryland APCDs, some Medicare FFS claims were still missing at the time of the analysis, and the analysis was run using data from calendar year 2022.

We based our provider identification methodology on [an analysis of the active primary care workforce in Virginia](#), which used the Virginia APCD. BH providers were identified using National Provider Identifiers (NPIs) for rendering providers once we had linked Onpoint's rendering provider internal ID to the most recently downloaded National Plan and Provider Enumeration System (NPPES) data. Rendering providers with missing NPIs or whose NPI identified an organization or facility rather than an individual also were excluded.

BH providers were defined as:

1. They rendered services in the state (based on most common ZIP code on their claims during the measurement year and if that ZIP code was in the state)
2. Their NPPES primary taxonomy code was related to behavioral health, using Onpoint's code set for substance use disorder and mental health providers. See Appendix C for additional details.

*or*

The majority (>50%) of their claim lines were for behavioral health services, using Onpoint's code set of procedure codes related to behavioral health. See Appendix D for additional details.

BH providers were categorized into provider types using NPPES specialty descriptions for the following categories: therapists, social workers, psychologists, physicians, nurses, pharmacists, and other. See Appendix D for additional details.

### Assignment of BH Providers to County

BH providers were assigned to a county based on the most common ZIP code on their claims during the measurement year.

### Ratio of BH Providers per Member by County

The number of BH providers in a county divided by the number of APCD members – present in the APCD eligibility file – older than one year living in that county that year (according to the ZIP code on record during their last month of health insurance that year) multiplied by 1,000.

### Ratio of BH Providers per Member with BH (or MH) Condition Overall & by County

The number of BH providers in a county divided by the number of APCD members – present in the APCD eligibility file – older than one year living in that county that year who had at least one BH (if the state had SUD data available) or one MH (if the state did not have SUD data available) condition multiplied by 1,000.

## **BH Provider Access**

BH provider access categorization was determined by sorting the counties in each state according to the ratio of BH providers per 1,000 APCD members. Counties in the top quartile were labeled “high,” counties in the bottom quartile were labeled “low,” and counties in the middle two quartiles were labeled “medium.”

## **Health Care Utilization by BH Provider Access**

The nine utilization measures previously described were calculated for each BH provider access group: acute inpatient admissions, crisis services, ED visits, outpatient office visits, prescriptions filled, primary care visits, psychotherapy visits, telehealth visits, and urgent care visits.

## **Insurance Claim Type**

The percentage of BH providers in each county who submitted claims for each payer type (Medicare, Medicaid, commercial) was determined by looking at all medical claims for each BH provider in the state for the measurement year. If a BH provider had at least one claim for the selected payer type, they were considered to have that insurance claim type. A single BH provider could have more than one insurance claim type.

## **Benchmarking**

Our counts of BH providers per 1,000 members were compared to the 2023 provider benchmarks (per 1,000 residents) for each state from the County Health Rankings & Roadmaps. Results were similar in terms of state ranking and absolute values. See Appendix E for additional details.

## Appendix A. Data Included in Analysis by Year & Payer Type for Each Participating State

**Table A-1.** Data Displayed in Dashboards by State, Year, & Payer

State	Year	Commercial	Medicaid	Medicare Advantage	Medicare FFS
CT	2019	Y	Y	Y	Y
CT	2020	Y	Y	Y	Y
CT	2021	Y	Y	Y	Y
CT	2022	Y	Y	Y	Y
CT	2023	Y	Y	Y	N
GA	2019	Y	Y	N	N
GA	2020	Y	Y	N	N
GA	2021	Y	Y	N	N
GA	2022	Y	Y	N	N
GA	2023	Y	Y	N	N
MD	2019	N	N	N	N
MD	2020	Y	Y	N	N
MD	2021	Y	Y	N	Y
MD	2022	Y	Y	N	Y
MD	2023	Y	Y	N	N
MN	2019	Y	Y	Y	Y
MN	2020	Y	Y	Y	Y
MN	2021	Y	Y	Y	Y
MN	2022	Y	Y	Y	Y
MN	2023	Y	Y	Y	Y
VT	2019	Y	Y	Y	Y
VT	2020	Y	Y	Y	Y
VT	2021	Y	Y	Y	Y
VT	2022	Y	Y	Y	Y
VT	2023	Y	Y	Y	Y

**Table A-2. Data Displayed in Dashboards by State & SUD Data Inclusion Status**

State	Dashboard						SUD Included
	1: Diagnoses	2: Use of Care	3: Cost of Care	4: Co-Occurring Conditions	5: Social Drivers	6: Provider Workforce	
CT	Y	Y	Y	Y	Y	Y	N
GA	Y	Y	Y	Y	N	Y	N
MD	Y	Y	Y	Y	Y	Y	Y
MN	Y	Y	Y	N	Y	Y	Y
VT	Y	Y	Y	Y	Y	Y	Y

## Appendix B. SAMHSA Categories & ICD-10-CM Codes

Classification of patients diagnosed with a mental health or substance-related disorder was based on methods described by the Substance Abuse and Mental Health Services Administration (SAMHSA), a division of the U.S. Department of Health and Human Services, in an October 2022 report, "[Mental Health Annual Report 2015–2020: Use of Mental Health Services: National Client-Level Data.](#)"

Appendix E in the SAMHSA report provided the categories and ICD-10-CM codes for each category. Please note: (1) The numbering used in the quoted SAMHSA material below mirrors the numbering used in their original report; (2) the italicized codes in parentheses are nonstandard ICD-10-CM codes in the data that were recognized by SAMHSA as belonging to the same mental health diagnostic group and were included in the SAMHSA definitions.

### 5.1 Trauma- and stressor-related disorders

F4310 F4320 F4321 F4322 F4323 F4324 F4325 F4329 F438  
F439  
(*F431 F432*)

### 5.2 Anxiety disorders

F064 F4000 F4001 F4002 F4010 F4011 F40210 F40218 F40220  
F40228 F40230 F40231 F40232 F40233 F40240 F40241 F40242 F40243  
F40248 F40290 F40291 F40298 F408 F409 F410 F411 F413  
F418 F419 F42 F422 F423 F424 F428 F429 F430  
F4311 F4312 F488 F489 F930 R452 R453 R454 R455  
R456 R457 R4581 R4582 R4583 R4584  
(*F40 F401 F4021 F4022 F4023 F4024 F4029 F41 F93*)

#### 5.3.1 Conduct disorder

F910 F911 F912 F918 F919

#### 5.3.2 Oppositional defiant disorder

F913

#### 5.3.3 Attention deficit/hyperactivity disorder

F900 F901 F902 F908 F909 R460 R461 R462 R463  
R464 R465 R466 R467 R4681 R4689  
(*F90 R46*)

### 5.6 Disorders usually diagnosed in infancy, childhood, or adolescence

F642 F842 F938 F939 F940 F941 F942 F948 F949  
F950 F951 F952 F958 F959 F980 F981 F9821 F9829  
F983 F984 F988 F989  
(*F94 F95 F98*)

### 5.6.3 Pervasive developmental disorders

F840      F843      F845      F848      F849  
(F84)

### 5.7 Impulse control disorders not elsewhere classified

F630      F631      F632      F633      F6381      F6389      F639      R45850  
(F63      R4585)

### 5.8 Mood disorders

F0630      F0631      F0632      F0633      F0634      F3010      F3011      F3012      F3013  
F302      F303      F304      F308      F309      F340      F341      F348      F3481  
F3489      F349      F39      R4586  
(F063      F301      F34)

#### 5.8.1 Bipolar disorders

F310      F3110      F3111      F3112      F3113      F312      F3130      F3131      F3132  
F314      F315      F3160      F3161      F3162      F3163      F3164      F3170      F3171  
F3172      F3173      F3174      F3175      F3176      F3177      F3178      F3181      F3189  
F319  
(F31      F311      F313      F316      F317      F318)

#### 5.8.2 Depressive disorders

F320      F321      F322      F323      F324      F325      F328      F3281      F3289  
F329      F330      F331      F332      F333      F3340      F3341      F3342      F338  
F339  
(F32      F33      F334)

### 5.9 Personality disorders

F600      F601      F602      F603      F604      F605      F606      F607      F6081  
F6089      F609      F69  
(F60)

### 5.10 Schizophrenia and other psychotic disorders

F060      F062      F200      F201      F202      F203      F205      F2081      F2089  
F209      F21      F22      F23      F24      F250      F251      F258      F259  
F28      F29  
(F06      F20      F25)

## 5.11 Alcohol-related disorders

F1010	F1011	F10120	F10121	F10129	F1014	F10150	F10151	F10159
F10180	F10181	F10182	F10188	F1019	F1020	F1021	F10220	F10221
F10229	F10230	F10231	F10232	F10239	F1024	F10250	F10251	F10259
F1026	F1027	F10280	F10281	F10282	F10288	F1029	F10920	F10921
F10929	F1094	F10950	F10951	F10959	F1096	F1097	F10980	F10981
F10982	F10988	F1099	G621	I426	K2920	K2921	K700	K7010
K7011	K702	K7030	K7031	K7040	K709	O99310	O99311	O99312
O99313	O99314	O99315	P043	Q860				
<i>(F10</i>	<i>F101</i>	<i>F1012</i>	<i>F1015</i>	<i>F1018</i>	<i>F102</i>	<i>F1022</i>	<i>F1023</i>	<i>F1025</i>
<i>F1028</i>	<i>F109</i>	<i>F1092</i>	<i>F1095</i>	<i>F1098</i>	<i>K70</i>	<i>K703</i>	<i>K704</i>	<i>O9931</i>
<i>Q86)</i>								

## 5.12 Substance-related disorders

F1110	F1111	F11120	F11121	F11122	F11129	F1113	F1114	F11150
F11151	F11159	F11181	F11182	F11188	F1119	F1120	F1121	F11220
F11221	F11222	F11229	F1123	F1124	F11250	F11251	F11259	F11281
F11282	F11288	F1129	F1190	F11920	F11921	F11922	F11929	F1193
F1194	F11950	F11951	F11959	F11981	F11982	F11988	F1199	F1210
F12120	F12121	F12122	F12129	F1213	F12150	F12151	F12159	F12180
F12188	F1219	F1220	F1221	F12220	F12221	F12222	F12229	F1223
F12250	F12251	F12259	F12280	F12288	F1229	F1290	F12920	F12921
F12922	F12929	F12950	F12951	F12959	F12980	F12988	F1299	F1310
F1311	F13120	F13121	F13129	F1314	F13150	F13151	F13159	F13180
F13181	F13182	F13188	F1319	F1320	F1321	F13220	F13221	F13229
F13230	F13231	F13232	F13239	F1324	F13250	F13251	F13259	F1326
F1327	F13280	F13281	F13282	F13288	F1329	F1390	F13920	F13921
F13929	F13930	F13931	F13932	F13939	F1394	F13950	F13951	F13959
F1396	F1397	F13980	F13981	F13982	F13988	F1399	F1410	F14120
F14121	F14122	F14129	F1414	F14150	F14151	F14159	F14180	F14181
F14182	F14188	F1419	F1420	F1421	F14220	F14221	F14222	F14229
F1423	F1424	F14250	F14251	F14259	F14280	F14281	F14282	F14288
F1429	F1490	F14920	F14921	F14922	F14929	F1494	F14950	F14951
F14959	F14980	F14981	F14982	F14988	F1499	F1510	F15120	F15121
F15122	F15129	F1514	F15150	F15151	F15159	F15180	F15181	F15182
F15188	F1519	F1520	F1521	F15220	F15221	F15222	F15229	F1523
F1524	F15250	F15251	F15259	F15280	F15281	F15282	F15288	F1529
F1590	F15920	F15921	F15922	F15929	F1593	F1594	F15950	F15951

F15959	F15980	F15981	F15982	F15988	F1599	F1610	F1611	F16120
F16121	F16122	F16129	F1614	F16150	F16151	F16159	F16180	F16183
F16188	F1619	F1620	F1621	F16220	F16221	F16229	F1624	F16250
F16251	F16259	F16280	F16283	F16288	F1629	F1690	F16920	F16921
F16929	F1694	F16950	F16951	F16959	F16980	F16983	F16988	F1699
F17200	F17201	F17203	F17208	F17209	F17210	F17211	F17213	F17218
F17219	F17220	F17221	F17223	F17228	F17229	F17290	F17291	F17293
F17298	F17299	F1810	F1811	F18120	F18121	F18129	F1814	F18150
F18151	F18159	F1817	F18180	F18188	F1819	F1820	F1821	F18220
F18221	F18229	F1824	F18250	F18251	F18259	F1827	F18280	F18288
F1829	F1890	F18920	F18921	F18929	F1894	F18950	F18951	F18959
F1897	F18980	F18988	F1899	F1910	F19120	F19121	F19122	F19129
F1914	F19150	F19151	F19159	F1916	F1917	F19180	F19181	F19182
F19188	F1919	F1920	F1921	F19220	F19221	F19222	F19229	F19230
F19231	F19232	F19239	F1924	F19250	F19251	F19259	F1926	F1927
F19280	F19281	F19282	F19288	F1929	F1990	F19920	F19921	F19922
F19929	F19930	F19931	F19932	F19939	F1994	F19950	F19951	F19959
F1996	F1997	F19980	F19981	F19982	F19988	F1999	F550	F551
F552	F553	F554	F558	O355XX0	O355XX1	O355XX2	O355XX3	O355XX4
O355XX5	O355XX9	O99320	O99321	O99322	O99323	O99324	O99325	P0441
P0449	P961	P962	T400X1A	T400X1D	T400X1S	T400X3A	T400X3D	T400X3S
T400X4A	T400X4D	T400X4S	T400X5A	T400X5D	T400X5S	T400X6A	T400X6D	T400X6S
T401X1A	T401X1D	T401X1S	T401X3A	T401X3D	T401X3S	T401X4A	T401X4D	T401X4S
T401X5A	T401X5D	T401X5S	T405X1A	T405X1D	T405X1S	T405X3A	T405X3D	T405X3S
T405X4A	T405X4D	T405X4S	T405X5A	T405X5D	T405X5S	T405X6A	T405X6D	T405X6S
T407X1A	T407X1D	T407X1S	T407X3A	T407X3D	T407X3S	T407X4A	T407X4D	T407X4S
T407X5A	T407X5D	T407X5S	T407X6A	T407X6D	T407X6S	T408X1A	T408X1D	T408X1S
T408X3A	T408X3D	T408X3S	T408X4A	T408X4D	T408X4S	T408X5A	T408X5D	T408X5S
T40901A	T40901D	T40901S	T40903A	T40903D	T40903S	T40904A	T40904D	T40904S
T40905A	T40905D	T40905S	T40906A	T40906D	T40906S	T40991A	T40991D	T40991S
T40993A	T40993D	T40993S	T40994A	T40994D	T40994S	T40995A	T40995D	T40995S
T40996A	T40996D	T40996S						

### 5.13 Suicide and intentional self-inflicted injury

R45851	T1491	T360X2A	T360X2D	T360X2S	T361X2A	T361X2D	T361X2S	T362X2A
T362X2D	T362X2S	T363X2A	T363X2D	T363X2S	T364X2A	T364X2D	T364X2S	T365X2A
T365X2D	T365X2S	T366X2A	T366X2D	T366X2S	T367X2A	T367X2D	T367X2S	T368X2A
T368X2D	T368X2S	T3692XA	T3692XD	T3692XS	T370X2A	T370X2D	T370X2S	T371X2A

T371X2D	T371X2S	T372X2A	T372X2D	T372X2S	T373X2A	T373X2D	T373X2S	T374X2A
T374X2D	T374X2S	T375X2A	T375X2D	T375X2S	T378X2A	T378X2D	T378X2S	T3792XA
T3792XD	T3792XS	T380X2A	T380X2D	T380X2S	T381X2A	T381X2D	T381X2S	T382X2A
T382X2D	T382X2S	T383X2A	T383X2D	T383X2S	T384X2A	T384X2D	T384X2S	T385X2A
T385X2D	T385X2S	T386X2A	T386X2D	T386X2S	T387X2A	T387X2D	T387X2S	T38802A
T38802D	T38802S	T38812A	T38812D	T38812S	T38892A	T38892D	T38892S	T38902A
T38902D	T38902S	T38992A	T38992D	T38992S	T39012A	T39012D	T39012S	T39092A
T39092D	T39092S	T391X2A	T391X2D	T391X2S	T392X2A	T392X2D	T392X2S	T39312A
T39312D	T39312S	T39392A	T39392D	T39392S	T394X2A	T394X2D	T394X2S	T398X2A
T398X2D	T398X2S	T3992XA	T3992XD	T3992XS	T400X2A	T400X2D	T400X2S	T401X2A
T401X2D	T401X2S	T402X2A	T402X2D	T402X2S	T403X2A	T403X2D	T403X2S	T404X2A
T404X2D	T404X2S	T405X2A	T405X2D	T405X2S	T40602A	T40602D	T40602S	T40692A
T40692D	T40692S	T407X2A	T407X2D	T407X2S	T408X2A	T408X2D	T408X2S	T40902A
T40902D	T40902S	T40992A	T40992D	T40992S	T410X2A	T410X2D	T410X2S	T411X2A
T411X2D	T411X2S	T41202A	T41202D	T41202S	T41292A	T41292D	T41292S	T413X2A
T413X2D	T413X2S	T4142XA	T4142XD	T4142XS	T415X2A	T415X2D	T415X2S	T420X2A
T420X2D	T420X2S	T421X2A	T421X2D	T421X2S	T422X2A	T422X2D	T422X2S	T423X2A
T423X2D	T423X2S	T424X2A	T424X2D	T424X2S	T425X2A	T425X2D	T425X2S	T426X2A
T426X2D	T426X2S	T4272XA	T4272XD	T4272XS	T428X2A	T428X2D	T428X2S	T43012A
T43012D	T43012S	T43022A	T43022D	T43022S	T431X2A	T431X2D	T431X2S	T43202A
T43202D	T43202S	T43212A	T43212D	T43212S	T43222A	T43222D	T43222S	T43292A
T43292D	T43292S	T433X2A	T433X2D	T433X2S	T434X2A	T434X2D	T434X2S	T43502A
T43502D	T43502S	T43592A	T43592D	T43592S	T43602A	T43602D	T43602S	T43612A
T43612D	T43612S	T43622A	T43622D	T43622S	T43632A	T43632D	T43632S	T43692A
T43692D	T43692S	T438X2A	T438X2D	T438X2S	T4392XA	T4392XD	T4392XS	T440X2A
T440X2D	T440X2S	T441X2A	T441X2D	T441X2S	T442X2A	T442X2D	T442X2S	T443X2A
T443X2D	T443X2S	T444X2A	T444X2D	T444X2S	T445X2A	T445X2D	T445X2S	T446X2A
T446X2D	T446X2S	T447X2A	T447X2D	T447X2S	T448X2A	T448X2D	T448X2S	T44902A
T44902D	T44902S	T44992A	T44992D	T44992S	T450X2A	T450X2D	T450X2S	T451X2A
T451X2D	T451X2S	T452X2A	T452X2D	T452X2S	T453X2A	T453X2D	T453X2S	T454X2A
T454X2D	T454X2S	T45512A	T45512D	T45512S	T45522A	T45522D	T45522S	T45602A
T45602D	T45602S	T45612A	T45612D	T45612S	T45622A	T45622D	T45622S	T45692A
T45692D	T45692S	T457X2A	T457X2D	T457X2S	T458X2A	T458X2D	T458X2S	T4592XA
T4592XD	T4592XS	T460X2A	T460X2D	T460X2S	T461X2A	T461X2D	T461X2S	T462X2A
T462X2D	T462X2S	T463X2A	T463X2D	T463X2S	T464X2A	T464X2D	T464X2S	T465X2A
T465X2D	T465X2S	T466X2A	T466X2D	T466X2S	T467X2A	T467X2D	T467X2S	T468X2A
T468X2D	T468X2S	T46902A	T46902D	T46902S	T46992A	T46992D	T46992S	T470X2A
T470X2D	T470X2S	T471X2A	T471X2D	T471X2S	T472X2A	T472X2D	T472X2S	T473X2A

T473X2D	T473X2S	T474X2A	T474X2D	T474X2S	T475X2A	T475X2D	T475X2S	T476X2A
T476X2D	T476X2S	T477X2A	T477X2D	T477X2S	T478X2A	T478X2D	T478X2S	T4792XA
T4792XD	T4792XS	T480X2A	T480X2D	T480X2S	T481X2A	T481X2D	T481X2S	T48202A
T48202D	T48202S	T48292A	T48292D	T48292S	T483X2A	T483X2D	T483X2S	T484X2A
T484X2D	T484X2S	T485X2A	T485X2D	T485X2S	T486X2A	T486X2D	T486X2S	T48902A
T48902D	T48902S	T48992A	T48992D	T48992S	T490X2A	T490X2D	T490X2S	T491X2A
T491X2D	T491X2S	T492X2A	T492X2D	T492X2S	T493X2A	T493X2D	T493X2S	T494X2A
T494X2D	T494X2S	T495X2A	T495X2D	T495X2S	T496X2A	T496X2D	T496X2S	T497X2A
T497X2D	T497X2S	T498X2A	T498X2D	T498X2S	T4992XA	T4992XD	T4992XS	T500X2A
T500X2D	T500X2S	T501X2A	T501X2D	T501X2S	T502X2A	T502X2D	T502X2S	T503X2A
T503X2D	T503X2S	T504X2A	T504X2D	T504X2S	T505X2A	T505X2D	T505X2S	T506X2A
T506X2D	T506X2S	T507X2A	T507X2D	T507X2S	T508X2A	T508X2D	T508X2S	T50902A
T50902D	T50902S	T50992A	T50992D	T50992S	T50A12A	T50A12D	T50A12S	T50A22A
T50A22D	T50A22S	T50A92A	T50A92D	T50A92S	T50B12A	T50B12D	T50B12S	T50B92A
T50B92D	T50B92S	T50Z12A	T50Z12D	T50Z12S	T50Z92A	T50Z92D	T50Z92S	T510X2A
T510X2D	T510X2S	T511X2A	T511X2D	T511X2S	T512X2A	T512X2D	T512X2S	T513X2A
T513X2D	T513X2S	T518X2A	T518X2D	T518X2S	T5192XA	T5192XD	T5192XS	T520X2A
T520X2D	T520X2S	T521X2A	T521X2D	T521X2S	T522X2A	T522X2D	T522X2S	T523X2A
T523X2D	T523X2S	T524X2A	T524X2D	T524X2S	T528X2A	T528X2D	T528X2S	T5292XA
T5292XD	T5292XS	T530X2A	T530X2D	T530X2S	T531X2A	T531X2D	T531X2S	T532X2A
T532X2D	T532X2S	T533X2A	T533X2D	T533X2S	T534X2A	T534X2D	T534X2S	T535X2A
T535X2D	T535X2S	T536X2A	T536X2D	T536X2S	T537X2A	T537X2D	T537X2S	T5392XA
T5392XD	T5392XS	T540X2A	T540X2D	T540X2S	T541X2A	T541X2D	T541X2S	T542X2A
T542X2D	T542X2S	T543X2A	T543X2D	T543X2S	T5492XA	T5492XD	T5492XS	T550X2A
T550X2D	T550X2S	T551X2A	T551X2D	T551X2S	T560X2A	T560X2D	T560X2S	T561X2A
T561X2D	T561X2S	T562X2A	T562X2D	T562X2S	T563X2A	T563X2D	T563X2S	T564X2A
T564X2D	T564X2S	T565X2A	T565X2D	T565X2S	T566X2A	T566X2D	T566X2S	T567X2A
T567X2D	T567X2S	T56812A	T56812D	T56812S	T56892A	T56892D	T56892S	T5692XA
T5692XD	T5692XS	T570X2A	T570X2D	T570X2S	T571X2A	T571X2D	T571X2S	T572X2A
T572X2D	T572X2S	T573X2A	T573X2D	T573X2S	T578X2A	T578X2D	T578X2S	T5792XA
T5792XD	T5792XS	T5802XA	T5802XD	T5802XS	T5812XA	T5812XD	T5812XS	T582X2A
T582X2D	T582X2S	T588X2A	T588X2D	T588X2S	T5892XA	T5892XD	T5892XS	T590X2A
T590X2D	T590X2S	T591X2A	T591X2D	T591X2S	T592X2A	T592X2D	T592X2S	T593X2A
T593X2D	T593X2S	T594X2A	T594X2D	T594X2S	T595X2A	T595X2D	T595X2S	T596X2A
T596X2D	T596X2S	T597X2A	T597X2D	T597X2S	T59812A	T59812D	T59812S	T59892A
T59892D	T59892S	T5992XA	T5992XD	T5992XS	T600X2A	T600X2D	T600X2S	T601X2A
T601X2D	T601X2S	T602X2A	T602X2D	T602X2S	T603X2A	T603X2D	T603X2S	T604X2A
T604X2D	T604X2S	T608X2A	T608X2D	T608X2S	T6092XA	T6092XD	T6092XS	T6102XA

T6102XD	T6102XS	T6112XA	T6112XD	T6112XS	T61772A	T61772D	T61772S	T61782A
T61782D	T61782S	T618X2A	T618X2D	T618X2S	T6192XA	T6192XD	T6192XS	T620X2A
T620X2D	T620X2S	T621X2A	T621X2D	T621X2S	T622X2A	T622X2D	T622X2S	T628X2A
T628X2D	T628X2S	T6292XA	T6292XD	T6292XS	T63002A	T63002D	T63002S	T63012A
T63012D	T63012S	T63022A	T63022D	T63022S	T63032A	T63032D	T63032S	T63042A
T63042D	T63042S	T63062A	T63062D	T63062S	T63072A	T63072D	T63072S	T63082A
T63082D	T63082S	T63092A	T63092D	T63092S	T63112A	T63112D	T63112S	T63122A
T63122D	T63122S	T63192A	T63192D	T63192S	T632X2A	T632X2D	T632X2S	T63302A
T63302D	T63302S	T63312A	T63312D	T63312S	T63322A	T63322D	T63322S	T63332A
T63332D	T63332S	T63392A	T63392D	T63392S	T63412A	T63412D	T63412S	T63422A
T63422D	T63422S	T63432A	T63432D	T63432S	T63442A	T63442D	T63442S	T63452A
T63452D	T63452S	T63462A	T63462D	T63462S	T63482A	T63482D	T63482S	T63512A
T63512D	T63512S	T63592A	T63592D	T63592S	T63612A	T63612D	T63612S	T63622A
T63622D	T63622S	T63632A	T63632D	T63632S	T63692A	T63692D	T63692S	T63712A
T63712D	T63712S	T63792A	T63792D	T63792S	T63812A	T63812D	T63812S	T63822A
T63822D	T63822S	T63832A	T63832D	T63832S	T63892A	T63892D	T63892S	T6392XA
T6392XD	T6392XS	T6402XA	T6402XD	T6402XS	T6482XA	T6482XD	T6482XS	T650X2A
T650X2D	T650X2S	T651X2A	T651X2D	T651X2S	T65212A	T65212D	T65212S	T65222A
T65222D	T65222S	T65292A	T65292D	T65292S	T653X2A	T653X2D	T653X2S	T654X2A
T654X2D	T654X2S	T655X2A	T655X2D	T655X2S	T656X2A	T656X2D	T656X2S	T65812A
T65812D	T65812S	T65822A	T65822D	T65822S	T65832A	T65832D	T65832S	T65892A
T65892D	T65892S	T6592XA	T6592XD	T6592XS	T71112A	T71112D	T71112S	T71122A
T71122D	T71122S	T71132A	T71132D	T71132S	T71152A	T71152D	T71152S	T71162A
T71162D	T71162S	T71192A	T71192D	T71192S	T71222A	T71222D	T71222S	T71232A
T71232D	T71232S	X710XXA	X710XXD	X710XXS	X711XXA	X711XXD	X711XXS	X712XXA
X712XXD	X712XXS	X713XXA	X713XXD	X713XXS	X718XXA	X718XXD	X718XXS	X719XXA
X719XXD	X719XXS	X72XXXA	X72XXXD	X72XXXS	X730XXA	X730XXD	X730XXS	X731XXA
X731XXD	X731XXS	X732XXA	X732XXD	X732XXS	X738XXA	X738XXD	X738XXS	X739XXA
X739XXD	X739XXS	X7401XA	X7401XD	X7401XS	X7402XA	X7402XD	X7402XS	X7409XA
X7409XD	X7409XS	X748XXA	X748XXD	X748XXS	X749XXA	X749XXD	X749XXS	X75XXXA
X75XXXD	X75XXXS	X76XXXA	X76XXXD	X76XXXS	X770XXA	X770XXD	X770XXS	X771XXA
X771XXD	X771XXS	X772XXA	X772XXD	X772XXS	X773XXA	X773XXD	X773XXS	X778XXA
X778XXD	X778XXS	X779XXA	X779XXD	X779XXS	X780XXA	X780XXD	X780XXS	X781XXA
X781XXD	X781XXS	X782XXA	X782XXD	X782XXS	X788XXA	X788XXD	X788XXS	X789XXA
X789XXD	X789XXS	X79XXXXA	X79XXXXD	X79XXXXS	X80XXXXA	X80XXXXD	X80XXXXS	X810XXA
X810XXD	X810XXS	X811XXA	X811XXD	X811XXS	X818XXA	X818XXD	X818XXS	X820XXA
X820XXD	X820XXS	X821XXA	X821XXD	X821XXS	X822XXA	X822XXD	X822XXS	X828XXA
X828XXD	X828XXS	X830XXA	X830XXD	X830XXS	X831XXA	X831XXD	X831XXS	X832XXA

X832XXD	X832XXS	X838XXA	X838XXD	X838XXS	Z915			
(F11	F111	F1112	F1115	F112	F1122	F1125	F1128	F119
F1192	F1195	F1198	F12	F121	F1212	F1215	F1218	F122
F1222	F1225	F1228	F129	F1292	F1295	F1298	F13	F131
F1312	F1315	F1318	F132	F1322	F1323	F1325	F1328	F139
F1392	F1393	F1395	F1398	F14	F141	F1412	F1415	F1418
F142	F1422	F1425	F1428	F149	F1492	F1495	F1498	F15
F151	F1512	F1515	F1518	F152	F1522	F1525	F1528	F159
F1592	F1595	F1598	F16	F161	F1612	F1615	F1618	F162
F1622	F1625	F1628	F169	F1692	F1695	F1698	F17	F172
F1720	F1721	F1722	F1729	F18	F181	F1812	F1815	F1818
F182	F1822	F1825	F1828	F189	F1892	F1895	F1898	F19
F191	F1912	F1915	F1918	F192	F1922	F1923	F1925	F1928
F199	F1992	F1993	F1995	F1998	F55	O35XX)		

### 5.15 Miscellaneous mental disorders

F061	F068	F440	F441	F442	F444	F445	F446	F447
F4481	F4489	F449	F450	F451	F4520	F4521	F4522	
F4529	F4541	F4542	F458	F459	F481	F5000	F5001	F5002
F502	F508	F5081	F5089	F509	F5101	F5102	F5103	F5104
F5105	F5109	F5111	F5112	F5113	F5119	F513	F514	F515
F518	F519	F520	F521	F5221	F5222	F5231	F5232	F524
F525	F526	F528	F529	F53	F54	F59	F640	F641
F648	F649	F650	F651	F652	F653	F654	F6550	F6551
F6552	F6581	F6589	F659	F66	F6810	F6811	F6812	F6813
F688	F99	O906	R37	R4589	Z87890	Z9183		
(F44	F45	F50	F52	F64	F65	F681	Z8789)	

## Appendix C. Primary Taxonomy Codes Related to Behavioral Health

**Table C-1.** BH-Related Primary Taxonomy Codes & Associated BH Provider Categories

Taxonomy Code	Specialty Description	Taxonomy Specialization Area	BH Provider Category
207LA0401X	Anesthesiology	Addiction Medicine	Physician
106E00000X	Assistant Behavior Analyst	N/A	Therapist
103K00000X	Behavior Analyst	N/A	Therapist
106S00000X	Behavior Technician	N/A	Therapist
251B00000X	Case Management	N/A	Social Worker
261QM0801X	Clinic/Center	Mental Health (Including Community Mental Health Center)	Facility
261QM0855X	Clinic/Center	Adolescent and Children Mental Health	Facility
261QR0405X	Clinic/Center	Rehabilitation, Substance Use Disorder	Facility
261QM2800X	Clinic/Center	Methadone	Facility
261QM0850X	Clinic/Center	Adult Mental Health	Facility
103G00000X	Clinical Neuropsychologist	N/A	Psychologist
103GC0700X	Clinical Neuropsychologist	Clinical	Psychologist
364SP0807X	Clinical Nurse Specialist	Psychiatric/Mental Health, Child & Adolescent	Nurse
364SP0808X	Clinical Nurse Specialist	Psychiatric/Mental Health	Nurse
364SP0813X	Clinical Nurse Specialist	Psychiatric/Mental Health, Geropsychiatric	Nurse
364SP0809X	Clinical Nurse Specialist	Psychiatric/Mental Health, Adult	Nurse
364SP0812X	Clinical Nurse Specialist	Psychiatric/Mental Health, Community	Nurse
364SP0810X	Clinical Nurse Specialist	Psychiatric/Mental Health, Child & Family	Nurse
364SP0811X	Clinical Nurse Specialist	Psychiatric/Mental Health, Chronically Ill	Nurse
320900000X	Community Based Residential Treatment Facility, Intellectual and/or Developmental Disabilities	N/A	Facility
320800000X	Community Based Residential Treatment Facility, Mental Illness	N/A	Facility
251S00000X	Community/Behavioral Health	N/A	Facility
101YA0400X	Counselor	Addiction (Substance Use Disorder)	Therapist
101Y00000X	Counselor	N/A	Therapist
101YP1600X	Counselor	Pastoral	Therapist
101YP2500X	Counselor	Professional	Therapist
101YS0200X	Counselor	School	Therapist
101YM0800X	Counselor	Mental Health	Therapist
222Q00000X	Developmental Therapist	N/A	Therapist
101200000X	Drama Therapist	N/A	Therapist
207QA0401X	Family Medicine	Addiction Medicine	Physician
315P00000X	Intermediate Care Facility, Intellectual Disabilities	N/A	Facility
310500000X	Intermediate Care Facility, Mental Illness	N/A	Facility

Taxonomy Code	Specialty Description	Taxonomy Specialization Area	BH Provider Category
207RA0401X	Internal Medicine	Addiction Medicine	Physician
167G00000X	Licensed Psychiatric Technician	N/A	Therapist
106H00000X	Marriage & Family Therapist	N/A	Therapist
363LP0808X	Nurse Practitioner	Psychiatric/Mental Health	Nurse
225XM0800X	Occupational Therapist	Mental Health	Therapist
2080P0006X	Pediatrics	Developmental - Behavioral Pediatrics	Physician
1835P1300X	Pharmacist	Psychiatric	Pharmacist
102X00000X	Poetry Therapist	N/A	Therapist
2083A0300X	Preventive Medicine	Addiction Medicine	Physician
283Q00000X	Psychiatric Hospital	N/A	Facility
323P00000X	Psychiatric Residential Treatment Facility	N/A	Facility
273R00000X	Psychiatric Unit	N/A	Facility
2084S0012X	Psychiatry & Neurology	Sleep Medicine	Physician
2084N0400X	Psychiatry & Neurology	Neurology	Physician
2084D0003X	Psychiatry & Neurology	Diagnostic Neuroimaging	Physician
2084F0202X	Psychiatry & Neurology	Forensic Psychiatry	Physician
2084P0015X	Psychiatry & Neurology	Psychosomatic Medicine	Physician
2084H0002X	Psychiatry & Neurology	Hospice and Palliative Medicine	Physician
2084P0802X	Psychiatry & Neurology	Addiction Psychiatry	Physician
2084S0010X	Psychiatry & Neurology	Sports Medicine	Physician
2084N0600X	Psychiatry & Neurology	Clinical Neurophysiology	Physician
2084B0040X	Psychiatry & Neurology	Behavioral Neurology & Neuropsychiatry	Physician
2084P2900X	Psychiatry & Neurology	Pain Medicine	Physician
2084N0402X	Psychiatry & Neurology	Neurology with Special Qualifications in Child Neurology	Physician
2084A0401X	Psychiatry & Neurology	Addiction Medicine	Physician
2084P0805X	Psychiatry & Neurology	Geriatric Psychiatry	Physician
2084P0005X	Psychiatry & Neurology	Neurodevelopmental Disabilities	Physician
2084P0800X	Psychiatry & Neurology	Psychiatry	Physician
2084N0008X	Psychiatry & Neurology	Neuromuscular Medicine	Physician
2084B0002X	Psychiatry & Neurology	Obesity Medicine	Physician
2084V0102X	Psychiatry & Neurology	Vascular Neurology	Physician
2084P0804X	Psychiatry & Neurology	Child & Adolescent Psychiatry	Physician
102L00000X	Psychoanalyst	N/A	Psychologist
103TC0700X	Psychologist	Clinical	Psychologist
103TM1800X	Psychologist	Intellectual & Developmental Disabilities	Psychologist
103TM1700X	Psychologist	Men & Masculinity	Psychologist
103TC2200X	Psychologist	Clinical Child & Adolescent	Psychologist
103TP0814X	Psychologist	Psychoanalysis	Psychologist
103TP2701X	Psychologist	Group Psychotherapy	Psychologist

Taxonomy Code	Specialty Description	Taxonomy Specialization Area	BH Provider Category
103TW0100X	Psychologist	Women	Psychologist
103T00000X	Psychologist	N/A	Psychologist
103TE1100X	Psychologist	Exercise & Sports	Psychologist
103TB0200X	Psychologist	Cognitive & Behavioral	Psychologist
103TC1900X	Psychologist	Counseling	Psychologist
103TR0400X	Psychologist	Rehabilitation	Psychologist
103TA0700X	Psychologist	Adult Development & Aging	Psychologist
103TP2700X	Psychologist	Psychotherapy	Psychologist
103TA0400X	Psychologist	Addiction (Substance Use Disorder)	Psychologist
103TS0200X	Psychologist	School	Psychologist
103TP0016X	Psychologist	Prescribing (Medical)	Psychologist
103TH0004X	Psychologist	Health	Psychologist
103TF0200X	Psychologist	Forensic	Psychologist
103TE1000X	Psychologist	Educational	Psychologist
103TH0100X	Psychologist	Health Service	Psychologist
103TF0000X	Psychologist	Family	Psychologist
163WP0808X	Registered Nurse	Psychiatric/Mental Health	Nurse
163WA0400X	Registered Nurse	Addiction (Substance Use Disorder)	Nurse
163WP0807X	Registered Nurse	Psychiatric/Mental Health, Child & Adolescent	Nurse
163WP0809X	Registered Nurse	Psychiatric/Mental Health, Adult	Nurse
163WC0400X	Registered Nurse	Case Management	Nurse
276400000X	Rehabilitation, Substance Use Disorder Unit	N/A	Facility
322D00000X	Residential Treatment Facility, Emotionally Disturbed Children	N/A	Facility
320600000X	Residential Treatment Facility, Intellectual and/or Developmental Disabilities	N/A	Facility
385HR2055X	Respite Care	Respite Care, Mental Illness, Child	Facility
1041S0200X	Social Worker	School	Social worker
1041C0700X	Social Worker	Clinical	Social worker
104100000X	Social Worker	N/A	Social worker
324500000X	Substance Abuse Rehabilitation Facility	N/A	Facility
3245S0500X	Substance Abuse Rehabilitation Facility	Substance Abuse Treatment, Children	Facility

## Appendix D. Behavioral Health Procedure Codes

**Table D-1.** Procedure Codes Associated with Behavioral Health Conditions

Procedure Code	Procedure Description
90785	Psychotherapy Complex Interactive
90791	Psychiatric Diagnostic Evaluation
90792	Psychiatric Diagnostic Eval w/Medical Services
90801	Psychiatric Diagnostic Interview Examination
90802	Interactive Psychiatric Diagnostic Interview Exam w/Play
90804	Individual Psychotherapy Office/Outpatient 20-30 Min
90805	Individual Psychotherapy Office/Outpatient 20-30 Min W/Med E/M
90806	Individual Psychotherapy Office/Outpatient 45-50 Min
90807	Individual Psychotherapy Office/Outpatient 45-50 Min W/Med E/M
90808	Individual Psychotherapy Office/Outpatient 75-80 Min
90809	Individual Psychotherapy Office/Outpatient 75-80 Min W/Med E/M
90810	Individual Psychotherapy Interactive Office/Outpatient 20-30 Min
90811	Individual Psychotherapy Interact Office/Outpatient 20-30 Min Med E/M
90812	Individual Psychotherapy Interactive Office/Outpatient 45-50 Min
90813	Individual Psychotherapy Interactive Office/Outpatient 45-50 Min Med E/M
90814	Individual Psychotherapy Interactive Office/Outpatient 75 Min
90815	Individual Psychotherapy Interactive Office/Outpatient 75-80 Min Med E/M
90816	Individual Psychotherapy Inpatient/Partial Hospitalization/Residential 20-30 Min
90817	Individual Psychotherapy Inpatient/Partial Hospitalization/Residential 20-30 Min Med E/M
90818	Individual Psychotherapy Inpatient/Partial Hospitalization/Residential 45-50 Min
90819	Individual Psychotherapy Inpatient/Partial Hospitalization/Residential 45-50 Min Med E/M
90820	Diagnostic Interview
90821	Individual Psychotherapy Inpatient/Partial Hospitalization/Residential 75-80 Min
90822	Individual Psychotherapy Inpatient/Partial Hospitalization/Residential 75-80 Min Med E/M
90823	Individual Psychotherapy Inpatient/Partial Hospitalization/Residential 20-30 Min
90824	Individual Psychotherapy Inpatient/Partial Hospitalization/Residential 20-30 Min E/M
90825	Evaluation Of Tests/Reco
90826	Individual Psychotherapy Inpatient/Partial Hospitalization/Residential 45-50 Min
90827	Individual Psychotherapy Inpatient/Partial Hospitalization/Residential 45-50 Min E/M
90828	Individual Psychotherapy Inpatient/Partial Hospitalization/Residential 75-80 Min
90829	Individual Psychotherapy Inpatient/Partial Hospitalization/Residential 75-80 Min E/M
90830	Psychological Testing
90832	Psychotherapy w/Patient 30 Minutes
90833	Psychotherapy w/Patient w/E&M Services 30 Min
90834	Psychotherapy w/Patient 45 Minutes
90835	Special Interview
90836	Psychotherapy w/Patient w/E&M Services 45 Min

Procedure Code	Procedure Description
90837	Psychotherapy W/Patient 60 Minutes
90838	Psychotherapy W/Patient w/E&M Services 60 Minutes
90839	Psychotherapy For Crisis Initial 60 Minutes
90840	Psychotherapy For Crisis Each Additional 30 Minutes
90841	Psychotherapy
90842	Psychotherapy, 75-80 Minutes
90843	Psychotherapy 20-30 Minutes
90844	Psychotherapy 45-50 Minutes
90845	Psychoanalysis
90846	Family Psychotherapy w/o Patient Present 50 Minutes
90847	Family Psychotherapy w/Patient Present 50 Minutes
90849	Multiple Family Group Psychotherapy
90853	Group Psychotherapy
90855	Individual Psychotherapy
90857	Interactive Group Psychotherapy
90862	Pharmacologic Management Min Medical Psychotherapy
90863	Pharmacologic Management w/Psychotherapy
90865	Narcosynthesis Psychiatric Diagnostic and Therapeutic Purposes
90867	Repetitive Transcranial Magnetic Stimulation Treatment Initial w/Mapping/Motor Threshold/Delivery and Management
90868	Therapeutic Repetitive Transcranial Magnetic Stimulation Treatment Subsequent Delivery and Management
90869	Repetitive Transcranial Magnetic Stimulation Treatment Subsequent Motor Threshold w/Delivery and Management
90870	Electroconvulsive Therapy
90871	Electroconvulsive Therapy; Multiple Seizures Per Day
90875	Individual Psychophysiological Biofeedback Train W/Psychotherapy 30 Min
90876	Individual Psychophysiological Biofeedback Train W/ Psychotherapy 45 Min
90880	Hypnotherapy
90882	Environmental Intervention Medical Management Purposes Psychiatric Patient
90885	Psychiatric Evaluation Hospital Records Diagnostic Purposes
90887	Interpolation/Explanation of Results Psychiatric/Other Xm &Patient/Data Family
90889	Prep Report Patient Psychiatric Status Agency/Payer
90899	Unlisted Psychiatric Service/Procedure
96112	Developmental Test Admin Physician/QHP 1st Hour
96113	Developmental Test Admin Physician/QHP Each Additional 30 Min
96116	Neurobehavioral Status Exam Physician/QHP 1st Hour
96121	Neurobehavioral Status Exam Physician/QHP Each Additional Hour
96130	Psychological Test Evaluation Service Physician /QHP First Hour
96131	Psychological Test Evaluation Service Physician/QHP Each Additional Hour
96132	Neuropsychological Test Evaluation Physician/QHP 1st Hour
96133	Neuropsychological Test Evaluation Physician/QHP Each Additional Hour
96136	Psychological or Neuropsychological Test Physician/QHP 2+ Tests 1st 30 Min

Procedure Code	Procedure Description
96137	Psychological or Neuropsychological Test Physician/QHP 2+ Tests Each Additional 30 Min
96138	Psychological or Neuropsychological Test Tech 2+ Tests 1st 30 Min
96139	Psychological or Neuropsychological Test Tech 2+ Tests Each Additional 30 Min
96146	Psychological or Neuropsychological Test Electronic Platform Auto Result
96156	Health Behavior Assessment/Re-Assessment
96158	Health Behavior Intervention Individual F2F 1st 30 Min
96159	Health Behavior Intervention Individual F2F Each Additional 15 Min
96164	Health Behavior Intervention Group F2F 1st 30 Min
96165	Health Behavior Intervention Group F2F Each Additional 15 Min
96167	Health Behavior Intervention Family w/Patient F2F 1st 30 Min
96168	Health Behavior Intervention Family w/Patient F2F Each Additional 15 Min
96170	Health Behavior Intervention Family w/o Patient F2F 1st 30 Min
96171	Health Behavior Intervention Family w/o Patient F2F Each Additional 15 Min
G0512	RHC/FQHC Only Psychiatric Collaborative Care Management 60 M/>C Tm-Calendar Month
G2067	Medication Assisted Treatment Methadone; Weekly Bundle
G2068	Medication Assisted Treatment Buprenorphine Oral; Weekly Bundle
G2069	Medication Assisted Treatment Buprenorphine Administration Monthly Injection;
G2070	MAT Buprenorphine Implant Insertion; Weekly Bundle
G2071	MAT Buprenorphine Implant Removal; Weekly Bundle
G2072	MAT Buprenorphine Implant Insertion & Removal; Weekly Bundle
G2073	Medication Assisted Treatment Naltrexone; Weekly Bundle
G2074	Medication Assisted Treatment Weekly Bundle Not Including Drug
G2075	Medication Assisted Treatment Medication Not Otherwise Specified; Weekly Bundle
G2076	Intake Activities Which May Be Informed by Administration of Standard Evidence-Based Assessment
G2077	Periodic Assessment; Assessing Prd Opioid Treatment Program Practitioner
G2078	Take Home Supplemental Methadone; Up To 7 Additional Day Supplement;
G2079	Take Home Supplemental Buprenorphine Oral; To 7 Additional Day Supplement;
G2080	Each Additional 30 Min Counseling Week Medication-Assisted Treatment;
G2086	Office-Based Treatment Opioid Use Disorder; at least 70 Min 1st Calendar Month
G2087	Office-Based Treatment OUD; at least 60 Min Subsequent Calendar Month
G2088	Office-Based Treatment OUD; Each Additional 30 Min Beyond 1st 120 Min
G2172	All Inclusive Payment for Services Related Highly Coordinated & Integrated OUD Treatment
H0004	Behavioral Health Counseling and Therapy Per 15 Minutes
H0005	Alcohol and/or Drug Services; Group Counseling Clinician
H0006	Alcohol and/or Drug Services; Case Management
H0007	Alcohol and/or Drug Services; Crisis Intervention
H0008	Alcohol and/or Drug Service; Sub-Acute Detoxification Hospital Inpatient
H0009	Alcohol and/or Drug Services; Acute Detoxification Hospital Inpatient
H0010	Alcohol and/or Drug Service; Sub-Acute Detoxification Residential Program Inpatient
H0011	Alcohol and/or Drug Services; Acute Detoxification Residential Program Inpatient

Procedure Code	Procedure Description
H0012	Alcohol and/or Drug Services; Sub-Acute Detoxification Residential Program Outpatient
H0013	Alcohol and/or Drug Services; Detoxification Residential Program Outpatient
H0014	Alcohol and/or Drug Services; Ambulatory Detoxification
H0015	Alcohol and/or Drug Services; Intensive Outpatient; Crisis Intervention and Active Treatment
H0016	Alcohol and/or Drug Services; Medical/Somatic
H0017	Behavioral Health; Residential w/o Room & Board Per Diem
H0018	Behavioral Health; Short-Term Residential w/o Room & Board-Per Diem
H0019	Behavioral Health; Long-Term Residential w/o Room & Board-Per Diem
H0020	Alcohol and/or Drug Services; Methadone Administration and/or Service
H0022	Alcohol and/or Drug Intervention Service
H0023	Behavioral Health Outreach Service
H0032	Mental Health Service Plan Development Non-Physician
H0033	Oral Medication Admin Direct Observation
H0034	Medication Training and Support Per 15 Minutes
H0035	Mental Health Partial Hospitalization Treatment < 24 Hours
H0036	Community Psychiatric Supportive Treatment Face-to-Face Per 15 Min
H0037	Community Psychiatric Supportive Treatment Program Per Diem
H0038	Self-Help/Peer Services Per 15 Minutes
H0039	Assertive Community Treatment Face-To-Face Per 15 Min
H0040	Assertive Community Treatment Program Per Diem
H0046	Mental Health Services Not Otherwise Specified
H0047	Alcohol and/or Other Drug Abuse Services Not Otherwise Specified
H0050	Alcohol and/or Drug Service Brief Intervention Per 15 Min
H0052	Missing And Murdered Indigenous Persons Mental Health and Clinical Care
H0053	Historical Trauma Mental Health and Clinical Care for Indigenous Persons
H2001	Rehabilitation Program Per 1/2 Day
H2010	Comprehensive Medication Services Per 15 Minutes
H2011	Crisis Intervention Service Per 15 Minutes
H2012	Behavioral Health Day Treatment Per Hour
H2013	Psychiatric Health Facility Service Per Diem
H2014	Skills Training and Development Per 15 Minutes
H2017	Psychosocial Rehabilitation Services Per 15 Minutes
H2018	Psychosocial Rehabilitation Services Per Diem
H2019	Therapeutic Behavioral Services Per 15 Minutes
H2020	Therapeutic Behavioral Services Per Diem
H2022	Community-Based Wrap-Around Services Per Diem
H2027	Psychoeducational Service Per 15 Minutes
H2028	Sexual Offender Treatment Service Per 15 Minutes
H2029	Sexual Offender Treatment Service Per Diem
H2030	Mental Health Clubhouse Services Per 15 Minutes

Procedure Code	Procedure Description
H2031	Mental Health Clubhouse Services Per Diem
H2032	Activity Therapy Per 15 Minutes
H2033	Multisystemic Therapy Juveniles Per 15 Minutes
H2034	Alcohol and/or Drug Abuse Halfway House Service Per Diem
H2035	Alcohol and/or Other Drug Treatment Program Per Hour
H2036	Alcohol and/or Other Drug Treatment Program Per Diem
H2040	Coordinated Specialty Care Team-Based First Episode Psychosis Per Month
H2041	Coordinated Specialty Care Team-Based First Episode Psychosis Per Encounter
J0570	Buprenorphine Implant 74.2 Mg
Q9991	Injection Buprenorphine Extended-Release <= To 100 Mg
Q9992	Injection Buprenorphine Extended-Release >100 Mg
S0109	Methadone Oral 5mg
S9446	Patient Education Not Otherwise Classified - Non-Physician Provider Group Session
S9475	Ambulatory Setting Substance Abuse Testing/Detoxification Service Per Diem
S9480	Intensive Outpatient Psychiatric Services Per Diem
S9484	Crisis Intervention Mental Health Services Per Hour
S9485	Crisis Intervention Mental Health Services
T1006	Alcohol and/or Substance Abuse Service Family/Couple Counseling
T1007	Alcohol and/or Substance Abuse Service Testing Plan Development/Modification
T1008	Day Treatment for Individual Alcohol and/or Substance Abuse Services
T1009	Child Sitting - Child of Individual Receiving Alcohol and Substance Abuse Service
T1010	Meals For Individuals Receiving Alcohol and/or Substance Abuse Service
T1011	Alcohol and/or Substance Abuse Services, Not Otherwise Classified
T1012	Alcohol and/or Substance Abuses Services Skills Development
T1040	Medicaid Certified Community Behavioral Health Clinic Service Per Day
T1041	Medicaid Certified Community Behavioral Health Clinic Service Per Month
T2048	Behavioral Health; Long-Term Care Residential w/ Room and Board - Diem

## Appendix E. County Health Rankings & Roadmaps Benchmarks

Onpoint used data from County Health Rankings & Roadmaps 2023 as a benchmark for the Provider Workforce dashboard. This data source represented the availability of providers in each county using a Mental Health Provider Ratio showing the number of residents for each MH or BH provider. To enable easier comparisons with our analysis, we have converted this ratio into a representation of the number of providers per 1,000 residents. In the table below, the Collective Impact analysis result is presented (in blue), then the converted results from County Health Rankings and Roadmaps 2023 as well as the original Mental Health Provider Ratio (both in green).

**Table E-1.** Number of MH/BH Providers per 1,000 Residents/Members in Each State

State	Year BH Providers Assessed	Total BH Providers Estimated from APCD	Total APCD Members Included in Collective Impact Analysis	Collective Impact Analysis BH Providers per 1,000 APCD Members	County Health Rankings & Roadmap 2023 * Mental Health Providers per 1,000 Residents	County Health Rankings & Roadmap 2023 † Mental Health Provider Ratio (Residents per 1 MH Provider)
CT	2022	11,986	3,070,305	3.9: 1000	4.5: 1000	220: 1
GA	2023	10,789	5,401,102	2.0: 1000	1.7: 1000	600: 1
MD	2022	15,942	4,750,072	3.4: 1000	3.2: 1000	310: 1
MN	2023	17,699	4,115,023	4.3: 1000	3.1: 1000	320: 1
VT	2023	2,471	517,248	4.8: 1000	5.3: 1000	190: 1

\* To facilitate comparisons to the Collective Impact Analysis BH Providers per 1,000 APCD Members, each state's Mental Health Provider Ratio from the County Health Rankings & Roadmaps 2023 was converted to Mental Health Providers per 1,000 Population using the following formula:

$$\text{Mental Health Providers per 1,000 Residents} = 1,000 / (\text{Mental Health Provider Ratio})$$

† County Health Rankings & Roadmaps 2023 used data from 2022. Counts of mental health providers were based on data from the National Plan and Provider Enumeration System (NPPES). Mental health providers are defined as psychiatrists, psychologists, licensed clinical social workers, counselors, marriage and family therapists, mental health providers that treat alcohol and other drug abuse, and advanced practice nurses specializing in mental health care. Providers were matched to counties based on the state and ZIP code recorded in their provider address listed in NPPES. Population counts are from the U.S. Census. For more information, see: <https://www.countyhealthrankings.org/health-data/community-conditions/health-infrastructure/clinical-care/mental-health-providers?year=2025>



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