

## **Data Sources:**

### **Kaiser Family Foundation**

#### KFF Expansion Data

Description: Provides status of Medicaid expansion decisions by state, including expansion dates.

Purpose: Used for “expand” variable in “medicaid\_state\_year\_panel\_10\_18.dta”

#### KFF Medicaid-CHIP Child Enrollment

Description: Medicaid/CHIP child enrollment data at state-month level from 2014 to 2018.

Purpose: Used to construct “chienr” variable in “medicaid\_state\_year\_panel\_10\_18.dta”

From: <https://www.kff.org/medicaid/state-indicator/total-medicaid-and-chip-child-enrollment/>

#### KFF Federal Medical Assistance Percentage (FMAP) for Medicaid

Description: Provides FMAP at state-year level for FYs 2010 to 2018

Purpose: Used for “fmap” and “fmap\_nnw” variables in “medicaid\_state\_year\_panel\_10\_18.dta”

From: <https://www.kff.org/medicaid/state-indicator/federal-matching-rate-and-multiplier/>

#### KFF Medicaid MCO Enrollment

Description: Provides number of comprehensive risk-based managed care enrollees at the state-year level (calculated as of July 1 of each year).

Purpose: Used for “mco\_pct” variable in “medicaid\_state\_year\_panel\_10\_18.dta”

From: <https://www.kff.org/other/state-indicator/total-medicaid-mco-enrollment/>

### **Medicaid.gov**

#### Medicaid Enrollment Data for 2015 – 2018

Description: Provides Medicaid total enrollment, expansion enrollment (broken into newly eligible and not newly eligible enrollment) at the state-month level from 2015 to 2018.

Purpose: Used for “totenr”, “newenr”, “nnwenr” variables in “medicaid\_state\_year\_panel\_10\_18.dta”

From: <https://data.medicaid.gov/Enrollment/Medicaid-Enrollment-New-Adult-Group/pfrr-tr7q>

#### Medicaid Expenditure Data for 2015 – 2018

Description: Provides Medicaid total spending, spending for expansion enrollees (broken into newly eligible and not newly eligible enrollees) at the state-quarter level from 2015 to 2018.

Purpose: Used for “totspd”, “newspd”, “nnwspd” variables in “medicaid\_state\_year\_panel\_10\_18.dta”

From: <https://data.medicaid.gov/Uncategorized/Medicaid-CMS-64-New-Adult-Group-Expenditures/5im3-vamn/data>

#### Medicaid Number of Children Ever Enrolled Reports 2015–2018

Description: Provides number of children ever enrolled in Medicaid and Medicaid/CHIP at the state-year level from FYs 2015 to 2018.

Purpose: Used to construct “chienr” variable in “medicaid\_state\_year\_panel\_10\_18.dta”

From: <https://www.medicaid.gov/chip/reports-evaluations/index.html>

### **MACStats**

MACStats: Medicaid Full-Year Equivalent Enrollment and Spending for FYs 2010 – 2013

Description: Tables and exhibits from MACStats publications. Provides Medicaid enrollment and spending figures at the state-year level for FYs 2010 to 2013.

Notes: The FY2010 and 2011 data does not directly provide full-year equivalent (FYE) enrollment. Therefore, we calculate the FYE enrollment by using the total spending across all enrollees and the spending per FYE enrollee (both of which are reported). For FY 2012 and 2013, MACStats reports the FYE enrollment directly.

Purpose: Used for "totenr", "aduenr", "chienr", "totspd", "aduspd", "chispd" variables in "medicaid\_state\_year\_panel\_10\_18.dta"

From: MACStats publications listed below

- June 2013 Table 13 for FY 2010 Total/Adult/Child Spending (total)
- June 2013 Table 14 for FY 2010 Total/Adult/Child Spending (per FYE enrollee)
- June 2014 Table 12 for FY 2011 Total/Adult/Child Spending (total)
- June 2014 Table 13 for FY 2011 Total/Adult/Child Spending (per FYE enrollee)
- December 2015 Exhibit 15 for FY 2012 Total/Adult/Child Enrollment (FYE)
- December 2015 Exhibit 22 for FY 2012 Total/Adult/Child Spending (per FYE enrollee)
- December 2018 Exhibit 15a for FY 2013 Total/Adult/Child FYE Enrollment (FYE)
- December 2018 Exhibit 22a for FY 2013 Total/Adult/Child Spending (per FYE enrollee)

#### MACStats: Comprehensive Managed Care Enrollment Percentages

Description: Tables and exhibits from MACStats publications. Provides Medicaid comprehensive managed care organization (MCO) enrollment percentages at the state-year level.

Notes: MCO enrollment percentage available for 2010 to 2016, except 2012. Adult and child MCO enrollment percentages available only for 2010 to 2013.

Purpose: Used for "mco\_pct", "adu\_mco\_pct", and "chi\_mco\_pct" variables in "medicaid\_state\_year\_panel\_10\_18.dta"

From: MACStats publications listed below

- December 2018 Exhibit 29 for 2016 MCO enrollment %
- December 2017 Exhibit 29 for 2015 MCO enrollment %
- December 2016 Exhibit 28 for 2014 MCO enrollment % (saved but never used)
- December 2015 Exhibit 28 for 2013 MCO enrollment %
- June 2013 Table 15 for 2011 MCO enrollment %
- June 2012 Table 9 for 2010 MCO enrollment %
- December 2018 Exhibit 30a for 2013 Adult/Child MCO enrollment %
- December 2015 Exhibit 29 for 2012 Adult/Child MCO enrollment %
- June 2014 Table 14 for 2011 Adult/Child MCO enrollment %
- June 2013 Table 17 for 2010 Adult/Child MCO enrollment %

#### **Bureau of Labor Statistics (BLS)**

##### BLS Unemployment Rate

Description: Unemployment rates at the state-month level from FYs 2010 to 2018.

Purpose: Used for "unemp\_rate" variable in "medicaid\_state\_year\_panel\_10\_18.dta"

Files: unemployment\_rate\_state.xlsx

From: BLS website. Downloaded data query "SeriesReport-20201203174913\_de4bb6.xlsx"

### BLS CPI-U

Description: BLS's Consumer Price Index for All Urban Consumers (CPI-U) at the state-year level from 1913 to 2019. (state-month also available, which could be used to change from calendar year avg to FY averages)

Purpose: Used for "cpi" variable in "medicaid\_state\_year\_panel\_10\_18.dta"

### **Census Bureau**

#### Census: Number of Poor and Poverty Rate by State

Description: Poverty rate at the state-year level (estimated for March of each year)

Purpose: Used for "pov\_rate" variable in "medicaid\_state\_year\_panel\_10\_18.dta"

From: Table 21 <https://www.census.gov/data/tables/time-series/demo/income-poverty/historical-poverty-people.html>

#### Census: State Population

Description: Population at the state-year level (estimated for July 1 of each year) from 2010 to 2019.

Purpose: Used for "pop" variable in "medicaid\_state\_year\_panel\_10\_18.dta"

From: <https://www.census.gov/data/tables/time-series/demo/popest/2010s-state-total.html>

### **Other**

#### Medicaid-Medicare Dual Enrollment FYs 2010 – 2018

Description: Provides data on Medicaid-Medicare dual enrollment at the state-year level from 2010 to 2018.

Purpose: Used for "dualenr" variable in "medicaid\_state\_year\_panel\_10\_18.dta"

#### Area Health Resources File (AHRF)

Description: AHRF from HRSA include data on various health care related variables, as well as geographic variables

Purpose: Used for "st\_gen\_hosp\_beds", "md\_tot\_ptn\_care\_non\_fed", "md\_pc\_ptn\_care" variables in "medicaid\_state\_year\_panel\_10\_18.dta"

From: Originally downloaded from <https://data.hrsa.gov/data/download>

#### 2019 AAMC State Physician Workforce Data Report

Description: Published report includes data on physician workforce.

Purpose: Used for 2018 "md\_tot\_ptn\_care\_non\_fed" and "md\_pc\_ptn\_care" variables in "medicaid\_state\_year\_panel\_10\_18.dta"

### **Variables:**

Medicaid State-Year Panel: "medicaid\_state\_year\_panel\_10\_18.dta"

- state – State name
- state\_cd – FIPS state code
- state\_abbr – Two-letter state abbreviation
- year – Fiscal Year (starts in Oct of previous year, e.g., Nov 2016 is in FY2017). Fiscal year always used unless only calendar year annual averages were available.
- expand – State with Medicaid expansion before Jan. 1 of that year

- totenr – Total Medicaid enrollment (Full year equivalent)
  - o FYE enrollment for FYs 2010 and 2011 calculated using by using total spending and total spending per FYE enrollee
  - o FYE enrollment for FYs 2012 and 2013 directly reported on MACStats
  - o FYE enrollment for FYs 2015–2018 constructed from monthly data from Medicaid.gov
- totspd – Total spending per FYE enrollee
  - o Spending per FYE enrollee directly reported on MACStats for FYs 2010–2013
  - o Spending per FYE enrollee constructed from quarterly total spending data and monthly enrollment data for FYs 2015–2018
- aduenr – Adult enrollment (FYE)
  - o Only available for FYs 2010–2013 from MACStats
- aduspd – Adult spending per FYE enrollee
  - o Only available for FYs 2010–2013 from MACStats
- adu\_mco\_pct – Comprehensive managed care adult enrollment %
  - o Only available for FYs 2010–2013 from MACStats. Calculated as of July 1 of each year.
- chienr – Child enrollment excluding CHIP (FYE)
  - o Available directly from MACStats for FYs 2010–2013
  - o Estimated for FYs 2015–2018 using data from KFF and Medicaid.gov by calculating the following:
    - $[\text{avg number of Medicaid PLUS CHIP enrollees in state } s, \text{ year } y] * [(\text{number of children ever enrolled in Medicaid}) / (\text{number of children ever enrolled in Medicaid PLUS CHIP})]$
- chi\_mco\_pct – Comprehensive managed care child enrollment %
  - o Only available for FYs 2010–2013 from MACStats. Calculated as of July 1 of each year.
- dualenr – Medicare-Medicaid Dual enrollment
  - o Snapshot from December. Data from December of each year used for corresponding fiscal year. (e.g., Dec 2016 data used for FY 2017)
- newenr – Newly eligible enrollment (FYE). From Medicaid.gov
- newspd – Newly eligible spending per FYE enrollee. From Medicaid.gov
- nnwenr – Not newly eligible enrollment (FYE). From Medicaid.gov
- nnwspd – Not newly eligible spending per FYE enrollee. From Medicaid.gov
- st\_gen\_hosp\_beds – Short-term General Hospital Beds. From AHRF.
- md\_tot\_ptn\_care\_non\_fed – MDs: total patient care non-fed
  - o From AHRF and AAMC report. Missing years linearly interpolated.
- md\_pc\_ptn\_care – MDs: primary care patient care
  - o From AHRF and AAMC report. Missing years linearly interpolated.
- cpi – National CPI-U Annual Avg (calendar year average). From BLS.
- pop – State population. From Census Bureau.
  - o Calculated as of July 1 of each year
- unemp\_rate – Unemployment rate (%). From BLS.
- pov\_rate – Poverty rate (%). From Census Bureau.
  - o Estimated for March of each year
- fmap – Federal Matching Assistance Percentage (FMAP). From KFF.
- fmap\_nnw – FMAP for not newly eligible.

- Calculated as  $FMAP + [(enhanced\ FMAP - FMAP) * transition\ %]$
- Where Enhanced FMAP is 100%, 100%, 95%, 94% for 2015–2018, and transition % is 60%, 70%, 80%, 90% for 2015–2018
- mco\_pct – Comprehensive managed care enrollment %.
  - Calculated as of July 1 of each year.
  - Data for FYs 2010–2016, except 2012, obtained from MACStats
  - Data for FYs 2017 and 2018 obtained from KFF