

How States Can Better Understand their Medicare-Medicaid Enrollees: A Guide to Using CMS Data Resources

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IN BRIEF: The Centers for Medicare & Medicaid Services (CMS) Medicare-Medicaid Coordination Office (MMCO) regularly reports data on Medicare-Medicaid enrollee demographics, service utilization, spending, and other characteristics that can give states a more comprehensive view of this population. States can use these data to design, develop, monitor, and improve programs in their state to better meet the specific needs of Medicare-Medicaid enrollees. This technical assistance tool shows states how to use these data to create tables, graphs, and figures and interpret their meaning for a wider audience of stakeholders. Using data effectively can help state decision makers and external stakeholders to better understand Medicare-Medicaid enrollees in their state and improve the programs that serve them.

Introduction

This technical assistance tool presents an overview of the various data sources available on the [CMS Medicare-Medicaid Coordination Office \(MMCO\) website](#) that may be useful to states in designing, developing, and refining programs that serve Medicare-Medicaid enrollees.¹ CMS regularly publishes data collected from states, health plans, and other sources on its website. The data include Medicare-Medicaid enrollee eligibility categories, demographics, service utilization, and spending that states can use to better understand the specific needs and characteristics of this population as they develop, operate, monitor, and refine programs that serve Medicare-Medicaid enrollees in their state.

The purpose of this guide is to help states effectively interpret and use this information. This guide can help states locate, sort, and manipulate relevant data to develop user-friendly and accessible tables, graphs, and figures. The data that is publically available on the MMCO pages of the [CMS website](#) can help state decision makers and external stakeholders to better understand their Medicare-Medicaid enrollees and the Medicare and Medicaid services they are receiving. State Medicaid staff can use CMS data sources to access current information, identify trends over time, demonstrate the need for future integrated care, target areas to enhance integration, and learn from the experiences of other states.

Guide Overview

This guide provides summaries of relevant data files, their locations, how frequently they are updated, data lags, and the information in each file. The guide also includes screenshots that show what the files look like and tips on how to make the data relevant for each state. The “Using the Data” subsections show examples of tables, figures, charts, and graphics that states can develop to show trends and compare relevant information on Medicare-Medicaid enrollees. **Appendix A** provides some basic tips for working with Microsoft Excel.²

¹ Also called “dually eligible beneficiaries,” “dual eligibles,” and “duals” in the data sources described in this brief.

² The “Using the Data” subsections of this guide assumes a working knowledge of Microsoft Excel, specifically how to manipulate data and create formulas and graphs to display data fields.

CMS publishes several data sources that include various characteristics of Medicare-Medicaid enrollees that states can use to compare their state to the national average or other states on different aspects of the population and trends over time. This guide focuses on Medicare-Medicaid enrollee characteristics, which include eligibility, coverage type (full- or partial-benefit dual enrollees, Medicare-only, Medicaid-only), demographic characteristics, utilization and spending, and other variables. This guide provides an overview of the following key sources:

- [**Medicare-Medicaid Enrollee State and County Monthly Enrollment Snapshots**](#): Quarterly state and county-level Medicare-Medicaid enrollees by eligibility category;
- [**Medicare-Medicaid Linked Enrollee Analytic Data Source \(MMLEADS\) Public Use File \(PUF\)**](#): Annual data on state Medicare-Medicaid enrollees by enrollment type, demographics, chronic condition prevalence, service utilization, and spending; and
- [**National and State Level Trends Data**](#): Annual state Medicare-Medicaid enrollee characteristics by coverage type and national utilization and cost sharing data.
- [**Ever-Enrolled Trends Report**](#): Annual national Medicare and Medicare-Medicaid enrollee demographic characteristics.

Data Source: Medicare-Medicaid Enrollee State and County Monthly Enrollment Snapshots

- **File Name and Location:** “Quarterly Updates – latest release (month/year) data” (<https://www.cms.gov/Medicare-Medicaid-Coordination/Medicare-and-Medicaid-Coordination/Medicare-Medicaid-Coordination-Office/Analytics.html>)
- **What it Contains:** Quarterly state and county-level Medicare-Medicaid enrollees by eligibility category.
- **Why It Is Useful:** To track enrollment by type of beneficiary in each state and county.
- **Description:** These enrollment snapshots provide state and county-level enrollment figures by dual status code (QMB, SLMB, etc.). The tables are updated each quarter, and provide the number of beneficiaries enrolled during that specific quarter (not “ever-enrolled” during the calendar year, like the Ever-Enrolled Trends Reports described below). The tables in the file show enrollment totals for each type of dual enrollee (QMB, QMB+, SLMB, SLMB+, QI, Other Full-Dual Medicaid Beneficiaries, and QDWI). **Exhibit 1** is an example of a state-level enrollment tab in this file.

Exhibit 1. Medicare-Medicaid Enrollee State and County Monthly Enrollment Snapshots

| State-Level Dual Status Codes, June 2016 | | | | | | | | |
|--|---|---------------------------------|---|----------------------------------|-----------------------------|----------------------------------|---|-------------------|
| State of Beneficiary | Qualified Medicare Beneficiaries (QMB)-only | QMB plus Full Medicaid Benefits | Specified Low-income Medicare Beneficiaries (SLMB)-only | SLMB plus Full Medicaid Benefits | Qualifying Individuals (QI) | Other Dual Full Medicaid Benefit | Qualified Disabled and Working Individuals (QDWI) | Total |
| NATIONAL TOTAL* | | | | | | | | 10,499,009 |
| AK | 53 | 10,983 | 261 | - | 298 | 5,111 | - | 16,706 |
| AL | 67,099 | 68,633 | 36,022 | 3,933 | 19,565 | 14,814 | - | 210,066 |
| AR | 28,512 | 53,129 | 20,752 | 4,427 | 10,666 | 9,843 | - | 127,329 |
| AZ | 6,167 | 110,176 | 26,233 | 3,678 | 16,767 | 42,407 | - | 205,428 |
| CA | 15,036 | 1,222,849 | 7,346 | 199 | 18,675 | 180,631 | - | 1,444,736 |
| CO | 22,979 | 38,451 | 10,578 | 6,757 | 6,363 | 29,853 | - | 114,981 |
| CT | 81,676 | 62,539 | 8,364 | 1,233 | 4,838 | 12,669 | - | 171,319 |
| DC | 9,154 | 13,510 | 46 | - | 30 | 8,670 | - | 31,410 |
| DE | 7,953 | 7,247 | 4,578 | 18 | 2,817 | 6,025 | - | 28,638 |
| FL | 225,812 | 302,367 | 109,636 | 15,305 | 64,044 | 66,618 | - | 783,782 |
| GA | 94,203 | 16,115 | 45,045 | 2,210 | 31,683 | 119,853 | - | 309,109 |
| HI | 548 | 29,979 | 3,231 | 600 | 1,437 | 4,118 | - | 39,913 |
| IA | 9,344 | 36,723 | 5,808 | 8,918 | 3,767 | 20,061 | - | 84,621 |

- **Keep in Mind:** This report does NOT show demographic information (e.g., age, race, ethnicity, sex, and eligibility status). See the other data sources in this section for specific demographic characteristics.
- **Using the Data:** States can use the Enrollment Snapshots to find a relatively current number or percentage of enrollees in each eligibility category in their state or in each county within their state. States can compare enrollment to other states and the national average, or identify specific counties within their states with higher-than-average dual enrollment in order to assist health plans with targeted outreach and enrollment efforts. See **Appendix A** of this document for useful tips on using Excel to manipulate data and create graphs and charts.
 - **Percentage of each type of Medicare-Medicaid enrollee:** Using the state level data, calculate the percentage of each type of Medicare-Medicaid enrollee in your state and create a pie chart to show the distribution. States can create side-by-side pie charts to show how their state percentages compare to the national percentages of Medicare-Medicaid enrollee types, or to other states. **Exhibit 2** shows the national-level percentages of each type of Medicare-Medicaid enrollee compared to a specific state.
 - **Number of Medicare-Medicaid enrollees in each county:** Using the county level data, create a bar chart that compares enrollment in each county in a state. See **Exhibit 3** for an example (not using actual state data).

Exhibit 2. Example of the Percentage of Each Type of Medicare-Medicaid Enrollee Nationwide Compared to a Specific State

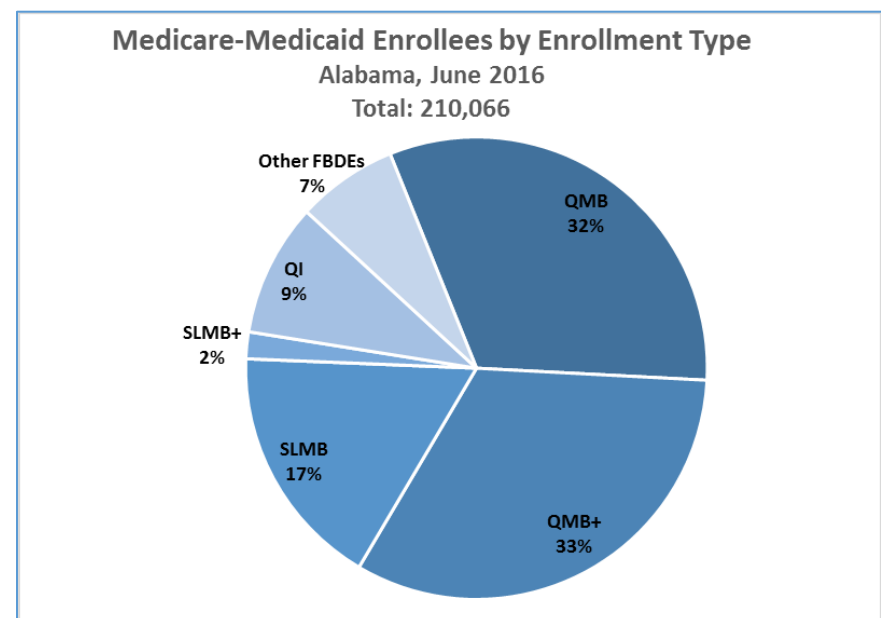
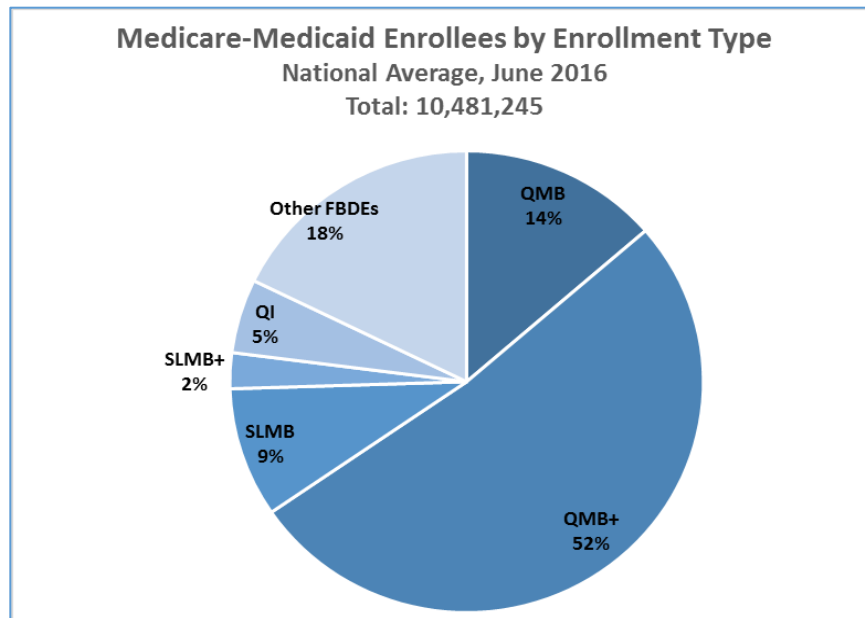
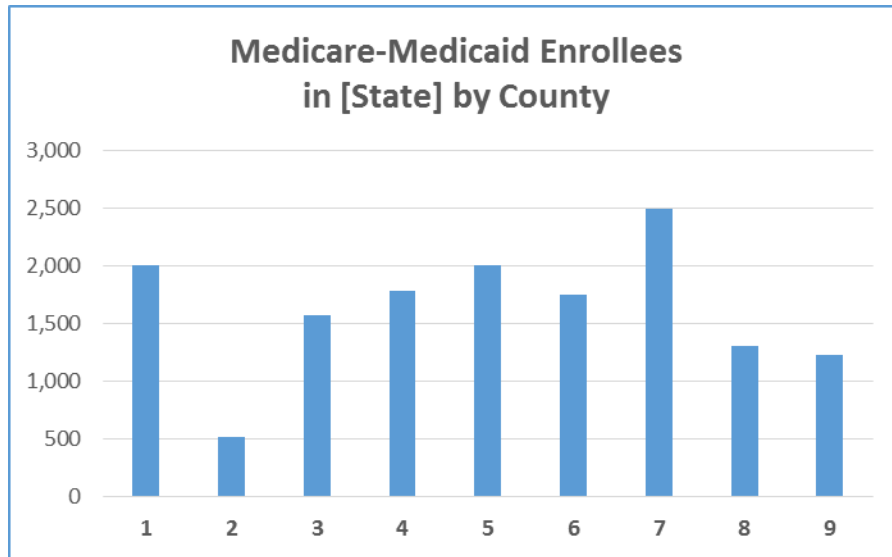


Exhibit 3. Example of Medicare-Medicaid Enrollees in a State by County



Data Source: Medicare-Medicaid Linked Enrollee Analytic Data Source (MMLEADS) Public Use File (PUF)

- **File Name and Location:** “Medicare-Medicaid Linked Enrollee Analytic Data Source (MMLEADS), Version (Number) – Public Use File (Year – Year) – EXCEL” (<https://www.cms.gov/Medicare-Medicaid-Coordination/Medicare-and-Medicaid-Coordination/Medicare-Medicaid-Coordination-Office/Analytics.html>)
- **What it Contains:** The MMLEADS-PUF contains annual state-level Medicare-Medicaid enrollees by enrollment type, demographics, diagnostic conditions, service utilization and spending. The data in this public use file are aggregated into relatively large pre-specified categories. The file does not contain data at the individual level, and the data cannot be manipulated to show categories and comparisons other than those provided in the PUF.³ (The MMLEADS Research Identifiable File [RIF] contains data at the individual level The MMLEADS PUF also contains data on Medicare-only beneficiaries and Medicaid-only beneficiaries with disabilities in order to facilitate comparisons of those populations to Medicare-Medicaid enrollees.
- **Why it Is Useful:** To track demographic, condition prevalence, utilization, and spending by type of beneficiary in each state.
- **Description:** The MMLEADS-PUF provides more detailed information about Medicare and Medicaid enrollees in each state. This file offers annual demographic, enrollment, condition prevalence, utilization, and spending data at the state level for calendar years 2006 to 2012. The variables for full- and partial-benefit, Medicare-only, and Medicaid-only enrollees include: demographic characteristics; enrollment variables (e.g., original reason for Medicare or Medicaid entitlement), chronic or disabling conditions (e.g., percent of Medicare-Medicaid enrollees with intellectual disabilities); Medicare and Medicaid utilization (e.g., Medicare and Medicaid combined readmission rates); and Medicare and Medicaid payments for services (e.g., Medicare durable medical equipment payments). **Appendix B** of this guide lists all of the variables available in each category of the MMLEADS file. Although the data include Medicare and Medicaid fee-for-service payments only, as of calendar year 2012, over 80 percent of Medicare-Medicaid enrollees were in fee-for service for some or all of their Medicare and Medicaid benefits in that year, and therefore these tables cover the majority of Medicare-Medicaid enrollees and the services they used during the 2006-2012 period.⁴
- **Illustrative Excerpts.** **Exhibit 4** shows how the data in this file are organized and some of the columns, as well as the denominators used for calculating the remainder of the columns and some of the types of demographic characteristics available. **Exhibit 5** shows data on chronic condition prevalence, **Exhibit 6** shows data on service utilization for Medicare and Medicaid combined (separate Medicare and Medicaid service utilization is also available but not shown here), and **Exhibit 7** shows data on Medicare service payments (Medicaid service payments are also available but not shown here). These exhibits use the data for 2012. Separate tabs in the MMLEADS file show the same data for 2006 through 2011. See **Appendix A** of this document for useful tips on using Excel to manipulate data and create graphs and charts.

³ The MMLEADS Research Identifiable File (RIF) contains data at the individual level and can be used to analyze a wide variety of categories and comparisons. The MMLEADS RIF is available to CMS and to external researchers with CMS permission: <https://www.resdac.org/cms-data/files/mmleads>.

⁴ MedPAC–MACPAC. “[Data Book: Beneficiaries Dually Eligible for Medicare and Medicaid](#).” Exhibits 11 and 12 January 2017.

Exhibit 4. Medicare-Medicaid Linked Enrollee Analytic Data Source (MMLEADS), Denominators and Demographic Characteristics

| Denominators | | | | | Demographic Characteristics | | | | | | |
|---|------------------|---------------------------|----------------------------|--------------------------|--|--|--|------------------------|-----------------------------|-----------------------------|--|
| Number of People by Medicare-Medicaid Enrollment Type | Number of People | Number of People with FFS | Number of Females with FFS | Number of Males with FFS | Percent with all 12 months in FFS Medicaid | Percent with all 12 months in FFS Medicare | Percent with all 12 months with Medicare Part D coverage | Percent under 40 Years | Percent between 40-64 Years | Percent between 65-84 Years | |
| Full Benefit | 7,552,114 | 6,637,236 | 4,050,229 | 2,587,007 | 54.60% | 79.60% | 97.80% | 10.20% | 30.60% | 44.20% | |
| Partial Benefit | 2,901,092 | 2,841,232 | 1,693,704 | 1,147,528 | 94.00% | 69.30% | 98.20% | 5.51% | 36.70% | 50.80% | |
| Medicare Only | 43,143,977 | 27,899,627 | 14,935,346 | 12,964,273 | . | 64.50% | 54.40% | 0.86% | 9.92% | 76.22% | |
| Medicaid Only (Disability) | 6,295,355 | 2,217,472 | 1,023,060 | 1,194,306 | 35.20% | . | . | 51.90% | 47.40% | . | |
| Full Benefit | 16,204 | 16,187 | 8,883 | 7,304 | 98.70% | 99.00% | 97.20% | 11.10% | 35.00% | 45.10% | |
| Partial Benefit | 612 | 612 | 309 | 303 | 99.20% | 99.50% | 90.70% | 3.76% | 29.70% | 62.60% | |
| Medicare Only | 60,782 | 52,988 | 25,782 | 27,206 | . | 87.10% | 22.80% | 0.92% | 8.33% | 83.75% | |
| Medicaid Only (Disability) | 10,850 | 10,850 | 5,218 | 5,632 | 100.00% | . | . | 48.40% | 49.90% | . | |
| Full Benefit | 94,557 | 83,390 | 54,904 | 28,486 | 87.20% | 80.30% | 98.70% | 13.70% | 34.20% | 38.10% | |
| Partial Benefit | 121,157 | 105,336 | 67,219 | 38,117 | 86.30% | 63.70% | 98.50% | 5.65% | 38.40% | 47.10% | |
| Medicare Only | 729,766 | 546,093 | 290,400 | 255,693 | . | 74.80% | 46.50% | 1.53% | 16.50% | 72.10% | |
| Medicaid Only (Disability) | 129,972 | 34,400 | 16,762 | 17,638 | 26.50% | . | . | 53.40% | 46.20% | . | |
| Full Benefit | 75,253 | 74,159 | 48,062 | 26,097 | 89.70% | 87.70% | 98.20% | 13.10% | 29.20% | 41.10% | |
| Partial Benefit | 61,301 | 60,985 | 35,976 | 25,009 | 97.50% | 75.20% | 98.20% | 7.52% | 45.90% | 41.10% | |
| Medicare Only | 453,605 | 357,611 | 188,198 | 169,413 | . | 78.70% | 52.40% | 1.35% | 15.10% | 73.10% | |
| Medicaid Only (Disability) | 92,713 | 18,618 | 8,131 | 10,487 | 20.10% | . | . | 65.00% | 34.90% | . | |
| Full Benefit | 140,109 | 65,105 | 36,091 | 29,014 | 6.21% | 43.50% | 98.10% | 11.10% | 32.90% | 46.10% | |
| Partial Benefit | 44,675 | 43,834 | 26,199 | 17,635 | 96.70% | 41.50% | 98.00% | 2.92% | 29.60% | 56.10% | |

Exhibit 5. Medicare-Medicaid Linked Enrollee Analytic Data Source (MMLEADS), Chronic Condition Prevalence

| CCW Disease/Condition Period Prevalence | | | | | | | | | | | |
|---|---|--|---|--|--|-------------------------------|-------------------------------|--|----------------------------------|---|--|
| State | Number of People by Medicare-Medicaid Enrollment Type | Percent of people with acquired hypothyroidism | Percent of people who have had a heart attack | Percent of people with Alzheimer's disease | Percent of people with Alzheimer's and related disorders | Percent of people with anemia | Percent of people with asthma | Percent of people with atrial fibrillation | Percent of people with cataracts | Percent of people with chronic kidney disease | Percent of people with chronic obstructive pulmonary disease |
| National | Full Benefit | 13.70% | 1.00% | 9.91% | 21.30% | 31.30% | 8.04% | 6.09% | 12.70% | 20.30% | 16.40% |
| National | Partial Benefit | 8.59% | 0.71% | 1.71% | 4.94% | 17.30% | 5.09% | 3.76% | 7.72% | 12.60% | 12.00% |
| National | Medicare Only | 13.40% | 0.79% | 3.50% | 8.08% | 20.60% | 3.91% | 8.06% | 18.90% | 13.90% | 9.42% |
| National | Medicaid Only (Disability) | 2.80% | 0.38% | 0.26% | 1.63% | 10.10% | 5.39% | 0.98% | 2.18% | 6.61% | 5.80% |
| AK | Full Benefit | 8.82% | 0.72% | 3.90% | 12.40% | 20.70% | 7.06% | 4.79% | 8.32% | 15.70% | 14.60% |
| AK | Partial Benefit | 5.88% | * | * | 4.25% | 15.70% | 4.08% | 5.07% | 7.03% | 10.60% | 14.40% |
| AK | Medicare Only | 8.60% | 0.52% | 1.93% | 5.21% | 12.70% | 2.88% | 6.30% | 11.70% | 9.60% | 6.37% |
| AK | Medicaid Only (Disability) | 2.52% | 0.32% | * | 1.12% | 6.17% | 2.94% | 1.00% | 2.01% | 4.29% | 4.36% |
| AL | Full Benefit | 12.70% | 0.93% | 12.90% | 24.20% | 33.00% | 7.68% | 5.75% | 10.10% | 19.70% | 19.60% |
| AL | Partial Benefit | 8.71% | 0.69% | 2.72% | 6.92% | 20.30% | 5.06% | 4.29% | 7.56% | 12.80% | 13.60% |
| AL | Medicare Only | 12.80% | 0.80% | 3.92% | 8.61% | 21.20% | 4.05% | 7.49% | 17.40% | 13.40% | 10.80% |
| AL | Medicaid Only (Disability) | 2.83% | 0.03% | 0.50% | 2.15% | 12.20% | 4.90% | 0.76% | 1.72% | 5.39% | 7.09% |
| AR | Full Benefit | 12.40% | 1.11% | 13.10% | 26.00% | 26.40% | 5.68% | 6.48% | 11.30% | 18.40% | 17.90% |
| AR | Partial Benefit | 7.69% | 0.77% | 1.23% | 4.38% | 14.40% | 4.48% | 3.88% | 9.35% | 10.20% | 13.10% |
| AR | Medicare Only | 11.70% | 0.78% | 3.32% | 8.13% | 16.40% | 3.07% | 7.52% | 21.70% | 11.30% | 9.61% |
| AR | Medicaid Only (Disability) | 1.14% | 0.39% | 0.34% | 2.01% | 5.85% | 2.29% | 0.71% | 1.98% | 3.94% | 3.80% |
| AZ | Full Benefit | 12.20% | 0.75% | 5.93% | 13.40% | 20.90% | 6.46% | 3.92% | 6.61% | 18.80% | 10.80% |
| AZ | Partial Benefit | 5.22% | 0.37% | 0.72% | 2.42% | 8.05% | 2.61% | 2.05% | 3.63% | 8.02% | 5.17% |
| AZ | Medicare Only | 15.50% | 0.71% | 2.92% | 6.42% | 17.20% | 4.62% | 7.69% | 18.30% | 14.80% | 8.92% |
| AZ | Medicaid Only (Disability) | * | * | * | 0.93% | 0.70% | 0.70% | * | * | 7.74% | 0.85% |
| CA | Full Benefit | 12.10% | 0.86% | 6.26% | 14.50% | 31.40% | 7.44% | 5.40% | 15.70% | 19.90% | 13.40% |
| CA | Partial Benefit | 6.80% | 0.40% | 1.88% | 5.22% | 15.20% | 3.57% | 2.92% | 7.21% | 10.90% | 6.61% |
| CA | Medicare Only | 12.80% | 0.58% | 3.34% | 7.51% | 20.60% | 3.95% | 7.52% | 17.30% | 13.10% | 7.23% |
| CA | Medicaid Only (Disability) | 1.07% | 0.48% | * | 0.60% | 10.90% | 2.12% | 0.66% | 0.89% | 8.95% | 2.22% |
| CO | Full Benefit | 17.50% | 0.72% | 10.40% | 22.30% | 23.60% | 7.06% | 5.59% | 11.10% | 18.90% | 16.30% |
| CO | Partial Benefit | 11.20% | 0.62% | 0.56% | 3.06% | 13.20% | 5.95% | 2.92% | 8.60% | 11.50% | 11.80% |
| CO | Medicaid Only (Disability) | 14.00% | 0.54% | 3.07% | 7.17% | 13.70% | 3.62% | 6.42% | 18.20% | 11.90% | 8.14% |

Exhibit 6. Medicare-Medicaid Linked Enrollee Analytic Data Source (MMLEADS), Service Utilization: Medicare and Medicaid Combined

| Utilization: Medicare and Medicaid Combined | | | | | | | | | | | |
|---|---|--|--|--|---|--|---|-------------------------------|--|--|--|
| State | Number of People by Medicare-Medicaid Enrollment Type | Count of Acute IP Hospital Days - Medicare and Medicaid combined | Count of Acute IP Hospital Admissions - Medicare and Medicaid combined | Total dollars (Medicare and Medicaid) associated with IP hospital admissions | Count of Acute IP Hospital 30-day Readmissions - Medicare and Medicaid combined | Readmission Rate (% of admissions that are readmissions) | Count of ED Visits - Medicare and Medicaid combined | ED Visits per 1,000 enrollees | Percent with at least one Medicare or Medicaid Nursing Facility or non Facility-based Long-term Care Service (claim or assessment) | Percent with at least one Medicare or Medicaid Residential Mental Health service | Percent with at least one Medicare or Medicaid Community Mental Health service |
| National | Full Benefit | 25,280,033 | 4,146,614 | 33,405,999,154 | 1,136,418 | 27.40% | 9,900,231 | 1,491.60 | 16.00% | 2.60% | 17.50% |
| National | Partial Benefit | 4,885,136 | 962,778 | 7,420,557,447 | 231,696 | 24.10% | 2,533,567 | 891.70 | 1.11% | 1.35% | 9.24% |
| National | Medicare Only | 33,347,787 | 6,996,944 | 73,714,395,183 | 1,156,184 | 16.50% | 13,896,506 | 498.10 | 0.16% | 0.27% | 2.98% |
| National | Medicaid Only (Disability) | 14,524,095 | 1,874,767 | 13,563,528,100 | 938,168 | 50.00% | 6,534,268 | 2,946.70 | 2.77% | 1.11% | 5.55% |
| AK | Full Benefit | 45,178 | 7,466 | 89,097,508 | 1,305 | 17.50% | 21,499 | 1,328.20 | 4.78% | 1.78% | 21.50% |
| AK | Partial Benefit | 1,015 | 195 | 2,839,917 | 33 | 16.90% | 432 | 705.90 | * | * | 6.86% |
| AK | Medicare Only | 43,232 | 9,371 | 145,802,710 | 1,307 | 13.90% | 20,525 | 387.40 | 0.14% | 0.12% | 1.71% |
| AK | Medicaid Only (Disability) | 19,116 | 2,503 | 39,503,179 | 974 | 38.90% | 4,649 | 428.50 | 2.64% | 0.65% | 15.50% |
| AL | Full Benefit | 344,593 | 58,549 | 322,292,152 | 12,609 | 21.50% | 128,095 | 1,536.10 | 21.80% | 2.91% | 17.70% |
| AL | Partial Benefit | 226,795 | 42,155 | 264,832,137 | 8,192 | 19.40% | 98,002 | 930.40 | 1.35% | 1.15% | 5.77% |
| AL | Medicare Only | 721,927 | 147,402 | 1,236,531,731 | 24,025 | 16.30% | 286,127 | 524.00 | 0.18% | 0.55% | 2.71% |
| AL | Medicaid Only (Disability) | 251,532 | 38,249 | 243,792,584 | 15,134 | 39.60% | 163,605 | 4,756.00 | 2.48% | 1.08% | 16.50% |
| AR | Full Benefit | 323,249 | 55,527 | 307,837,537 | 13,883 | 25.00% | 112,528 | 1,517.40 | 24.60% | 3.93% | 13.30% |
| AR | Partial Benefit | 108,510 | 22,021 | 135,988,247 | 4,530 | 20.60% | 57,377 | 940.80 | 1.15% | 1.23% | 8.73% |
| AR | Medicare Only | 402,825 | 89,726 | 778,583,056 | 14,542 | 16.20% | 172,206 | 481.50 | 0.23% | 0.51% | 2.70% |
| AR | Medicaid Only (Disability) | 140,971 | 20,690 | 169,267,652 | 9,504 | 45.90% | 104,025 | 5,587.30 | 4.19% | 0.70% | 0.87% |
| AZ | Full Benefit | 321,803 | 57,099 | 301,355,883 | 17,879 | 31.30% | 217,081 | 3,334.30 | 1.06% | 1.74% | 6.70% |
| AZ | Partial Benefit | 30,888 | 6,790 | 69,167,388 | 1,376 | 20.30% | 20,331 | 463.80 | 0.24% | 0.93% | 4.24% |
| AZ | Medicare Only | 521,116 | 125,012 | 1,355,303,460 | 19,424 | 15.50% | 256,408 | 479.90 | 0.12% | 0.20% | 2.10% |
| AZ | Medicaid Only (Disability) | 226,420 | 30,672 | 25,690,308 | 15,361 | 50.10% | 179,495 | 44,974.90 | 0.33% | 2.58% | 1.48% |
| CA | Full Benefit | 2,905,011 | 485,323 | 5,468,267,500 | 117,307 | 24.20% | 943,774 | 1,009.10 | 8.19% | 1.18% | 9.29% |
| CA | Partial Benefit | 36,187 | 6,659 | 82,337,731 | 1,306 | 19.60% | 16,511 | 522.30 | 1.76% | 0.84% | 4.49% |
| CA | Medicare Only | 1,964,318 | 414,178 | 5,830,622,227 | 65,069 | 15.70% | 835,165 | 404.10 | 0.09% | 0.14% | 1.75% |
| CA | Medicaid Only (Disability) | 1,382,117 | 205,923 | 1,349,806,697 | 104,683 | 50.80% | 136,556 | 14,820.50 | 1.92% | 0.18% | 0.06% |
| CO | Full Benefit | 91,487 | 18,465 | 195,001,693 | 3,621 | 19.60% | 64,995 | 1,465.00 | 0.74% | 1.65% | 13.50% |
| CO | Partial Benefit | 18,267 | 4,211 | 46,922,195 | 709 | 16.80% | 17,493 | 1,027.20 | 0.22% | 1.25% | 8.49% |
| CO | Medicaid Only (Disability) | 342,959 | 81,665 | 866,501,463 | 11,397 | 14.00% | 184,144 | 501.90 | 0.13% | 0.24% | 2.22% |

Exhibit 7. Medicare-Medicaid Linked Enrollee Analytic Data Source (MMLEADS), Medicare Service Payments

| Medicare Service: Payments | | | | | | | | | | | |
|----------------------------|---|-----------------------------|---|---|--|---------------------------------|---|-------------------------------------|---|---|---|
| State | Number of People by Medicare-Medicaid Enrollment Type | Total Medicare FFS payments | Total Medicare IP Hospital FFS payments | Total Medicare Other IP Hospital FFS payments | Total Medicare Other facility-based post-acute care FFS payments | Total Medicare SNF FFS payments | Total Medicare home health FFS payments | Total Medicare hospice FFS payments | Total Medicare hospital outpatient FFS payments | Total Medicare ESRD facility FFS payments | Total Medicare RHC/FQHC clinic FFS payments |
| National | Full Benefit | \$144,170,350,400 | \$30,973,175,324 | \$2,344,598,428 | \$3,586,390,233 | \$12,267,698,280 | \$5,244,467,857 | \$4,524,106,263 | \$8,199,074,442 | \$3,629,463,189 | \$479,366,915 |
| National | Partial Benefit | \$42,491,537,877 | \$7,138,678,452 | \$485,178,257 | \$778,242,064 | \$1,001,488,176 | \$1,431,669,415 | \$592,353,122 | \$2,809,720,061 | \$962,727,883 | \$139,832,684 |
| National | Medicare Only | \$353,514,106,951 | \$73,714,395,183 | \$1,833,119,857 | \$7,774,357,221 | \$16,798,800,646 | \$11,417,378,199 | \$10,019,044,900 | \$30,259,646,369 | \$3,987,986,206 | \$651,249,645 |
| National | Medicaid Only (Disability) | \$0 | | | | | | | | | |
| AK | Full Benefit | \$265,100,803 | \$82,821,301 | \$3,687,480 | \$8,281,991 | \$7,381,904 | \$3,983,125 | \$1,743,054 | \$34,713,045 | \$7,536,394 | \$1,110,987 |
| AK | Partial Benefit | \$7,485,941 | \$2,839,917 | | | \$288,265 | \$63,792 | | \$1,274,578 | | \$33,550 |
| AK | Medicare Only | \$376,311,844 | \$145,802,710 | \$1,846,131 | \$8,936,309 | \$11,231,700 | \$7,464,548 | \$4,313,516 | \$65,372,829 | \$4,779,972 | \$983,062 |
| AK | Medicaid Only (Disability) | \$0 | | | | | | | | | |
| AL | Full Benefit | \$1,526,375,741 | \$283,479,624 | \$34,636,407 | \$30,305,728 | \$142,190,274 | \$48,908,372 | \$73,247,793 | \$80,839,505 | \$40,804,240 | \$5,433,465 |
| AL | Partial Benefit | \$1,765,160,859 | \$250,675,361 | \$14,660,848 | \$28,489,558 | \$42,238,947 | \$55,357,066 | \$51,618,394 | \$94,772,583 | \$39,155,856 | \$4,862,168 |
| AL | Medicare Only | \$5,766,702,288 | \$1,236,531,731 | \$50,066,469 | \$164,947,541 | \$208,093,807 | \$248,590,825 | \$226,834,950 | \$532,095,498 | \$84,779,659 | \$9,995,709 |
| AL | Medicaid Only (Disability) | \$0 | | | | | | | | | |
| AR | Full Benefit | \$1,285,061,071 | \$274,667,441 | \$34,971,062 | \$55,319,586 | \$125,115,425 | \$39,031,363 | \$46,147,863 | \$82,685,841 | \$26,639,425 | \$5,217,974 |
| AR | Partial Benefit | \$736,465,871 | \$126,749,992 | \$6,869,240 | \$21,899,388 | \$10,027,000 | \$15,277,647 | \$7,193,134 | \$59,010,528 | \$14,721,802 | \$3,272,943 |
| AR | Medicare Only | \$3,227,929,733 | \$778,583,056 | \$25,659,387 | \$148,835,346 | \$127,233,320 | \$104,201,975 | \$80,592,464 | \$354,608,263 | \$37,025,789 | \$9,712,179 |
| AR | Medicaid Only (Disability) | \$0 | | | | | | | | | |
| AZ | Full Benefit | \$2,299,963,949 | \$297,066,615 | \$20,812,620 | \$38,539,856 | \$58,739,015 | \$21,458,980 | \$141,815,451 | \$82,067,715 | \$59,802,518 | \$3,918,908 |
| AZ | Partial Benefit | \$627,183,861 | \$68,633,967 | \$5,373,822 | \$6,981,289 | \$8,146,503 | \$4,192,414 | \$17,934,835 | \$19,946,448 | \$9,551,536 | \$887,228 |
| AZ | Medicare Only | \$7,317,866,750 | \$1,355,303,460 | \$22,112,596 | \$177,064,836 | \$211,641,066 | \$129,287,013 | \$353,981,511 | \$468,439,615 | \$67,564,836 | \$6,568,624 |
| AZ | Medicaid Only (Disability) | \$0 | | | | | | | | | |
| CA | Full Benefit | \$22,763,756,401 | \$5,038,194,626 | \$268,003,227 | \$585,111,000 | \$1,676,591,457 | \$736,160,745 | \$372,751,556 | \$1,111,730,996 | \$709,062,982 | \$97,392,699 |
| CA | Partial Benefit | \$576,316,021 | \$80,907,802 | \$5,811,865 | \$6,194,904 | \$17,791,312 | \$8,519,950 | \$9,082,486 | \$19,986,797 | \$10,692,619 | \$1,990,769 |
| CA | Medicare Only | \$36,389,494,145 | \$5,830,622,227 | \$116,269,919 | \$454,747,269 | \$1,253,696,435 | \$769,052,990 | \$1,167,480,399 | \$1,819,475,711 | \$295,639,279 | \$38,746,626 |
| CA | Medicaid Only (Disability) | \$0 | | | | | | | | | |
| CO | Full Benefit | \$1,166,899,937 | \$195,001,693 | \$15,787,197 | \$28,071,150 | \$91,406,768 | \$26,827,220 | \$58,620,744 | \$72,884,983 | \$21,645,858 | \$6,482,245 |
| CO | Partial Benefit | \$305,986,518 | \$46,922,195 | \$3,939,866 | \$3,273,600 | \$4,324,314 | \$3,203,865 | \$2,623,223 | \$22,840,495 | \$5,542,501 | \$2,428,578 |
| CO | Medicare Only | \$4,976,706,007 | \$866,501,463 | \$18,715,417 | \$83,207,918 | \$223,160,408 | \$117,291,285 | \$171,486,709 | \$407,873,344 | \$44,489,351 | * |

- Keep in Mind:** Beneficiaries are included as Medicare-Medicaid enrollees if they were dually eligible at any point during the year. The full versus partial status refers to the most recent month of dual eligibility. States can also find their state-specific Medicare-Medicaid Enrollee State Profile that shows the demographic characteristics, utilization, condition prevalence, and spending patterns for Medicare-Medicaid enrollees in each state, as well as nationally from 2007-2009 and 2011. See the [Medicare-Medicaid Enrollee State Profiles](#) for those State and National reports. They provide a good illustration of how the MMLEADS data can be shown in graphs and concise tables.
- Using the Data:** The MMLEADS file is most useful for comparing demographics, chronic conditions, utilization patterns and payments across benefit types within states, across different states, and over time, rather than as a source of current information. We anticipate the ability to add more current years as TMSIS is fully implemented. The data are less current due to the lag in receiving Medicaid claims data and prepare those files. **Exhibits 8, 9, 10,** and **11** present examples of how states can utilize the disparate information in the file.

- **Chronic Condition Prevalence:** Users may select a state, and select a specific chronic condition and make a bar chart by enrollment type. States may also compare these numbers to other years, states, or conditions. As an example, **Exhibit 8** shows the percentage of people nationwide with a chronic condition of Alzheimer’s disease by enrollment type compared to a specific state.
- **Medicare or Medicaid Utilization:** Users may select a state and service utilization type and create a bar chart by enrollment type. States could also compare these numbers to other years, to other states, or to other service use types. As an example, **Exhibit 9** shows the percentage of people in fee-for-service Medicare nationwide who use Durable Medical Equipment by enrollment type compared to a specific state.

Exhibit 8. Example of the Percent of Enrollees with a Chronic Condition, by Enrollment Type Nationwide vs a Specific State

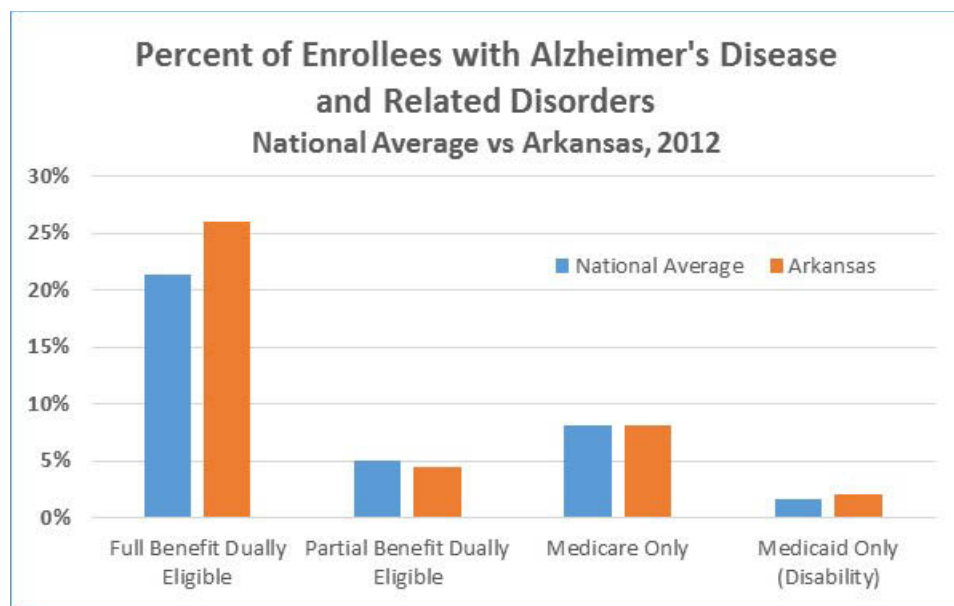
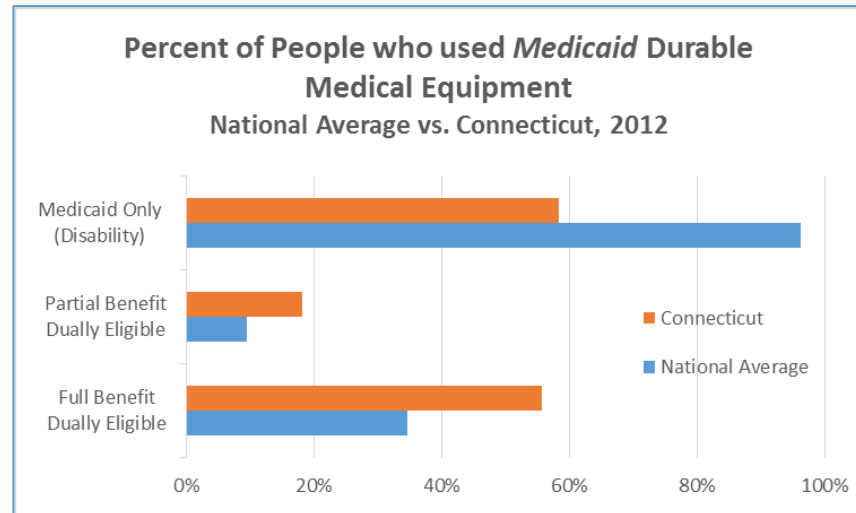
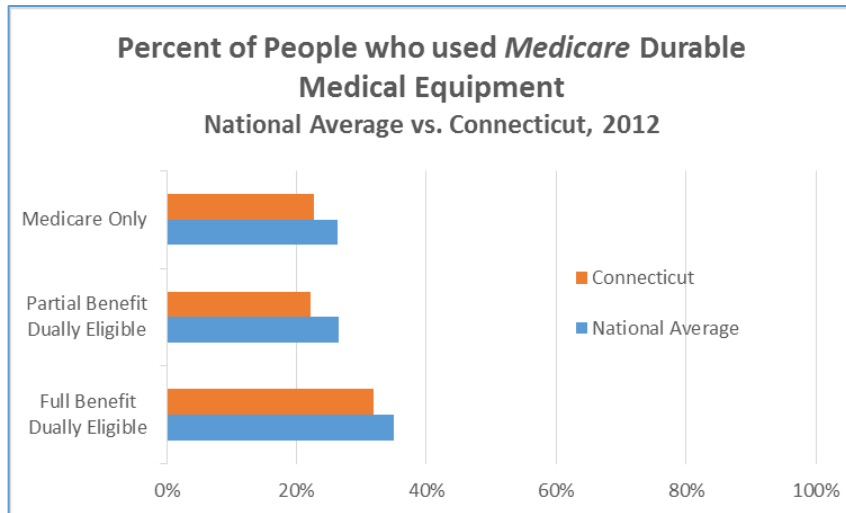


Exhibit 9. Example of the Percent of People who used Medicare and Medicaid Durable Medical Equipment, by Enrollment Type Nationwide vs a Specific State



- **Medicare and Medicaid Combined Service Utilization:** Users may select a state, and then select the utilization data to compare, and make a bar chart by enrollment type. States could also compare these numbers to other years, to other states, or to other utilization types. For example, **Exhibit 10** shows the percentage of people with at least one Medicare or Medicaid Nursing Facility or other Long-Term Care Service, by enrollment type compared to a specific state.
- **Medicare or Medicaid Service Use Payments:** Users may select a state, and then select the payment data to compare, and make a table or chart. States can calculate the percentage of each service type payment compared to the total Medicare or Medicaid payment amount in their state. **Exhibit 11** shows the distribution of Medicare payments for full benefit dually eligible beneficiaries nationally and for a specific state in the form of pie charts.

Exhibit 10. Example of the Percent of Enrollees with at Least One Medicare or Medicaid Nursing Facility or Other Long-Term Care Service, by Enrollment Type Nationwide vs a Specific State

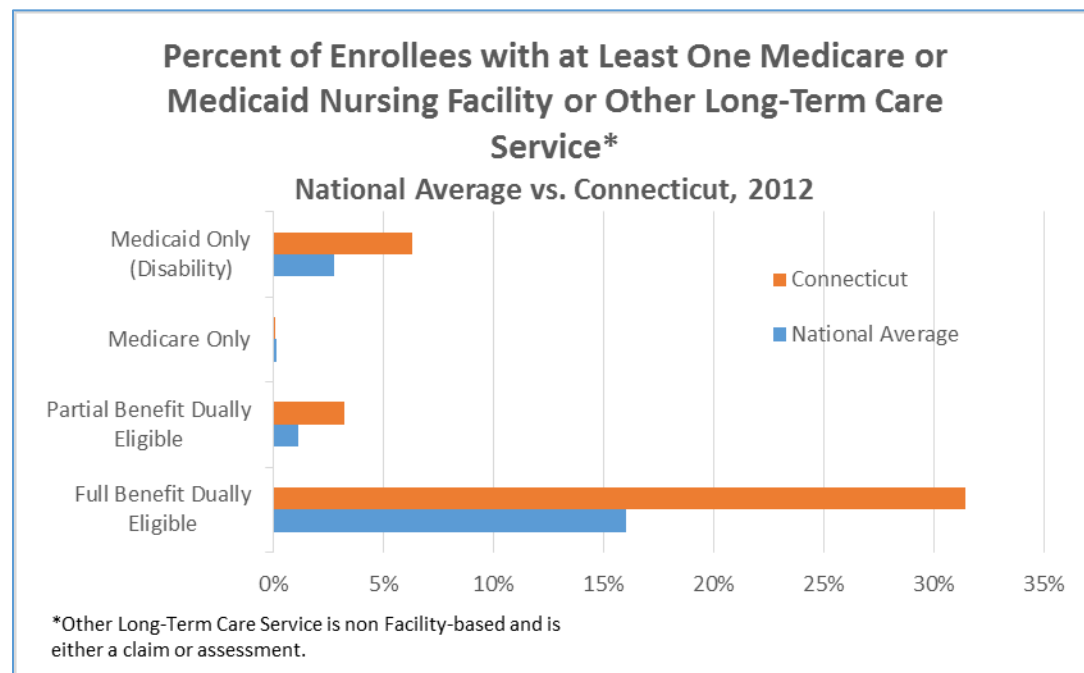
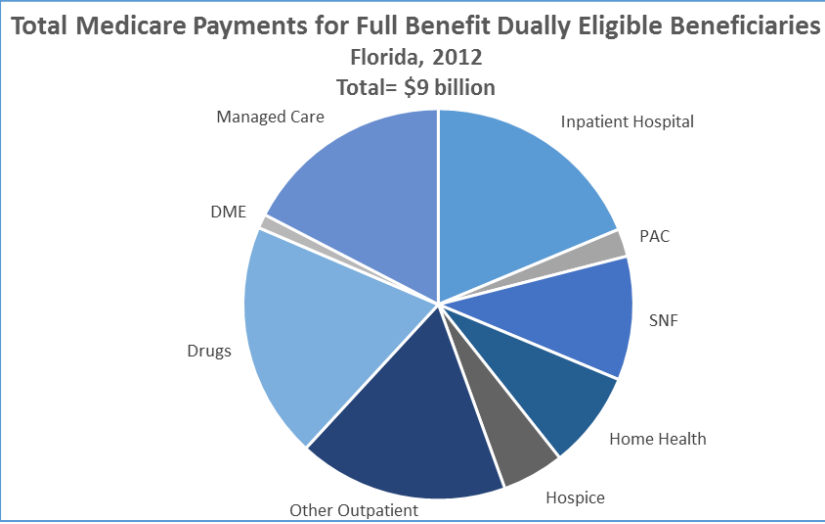
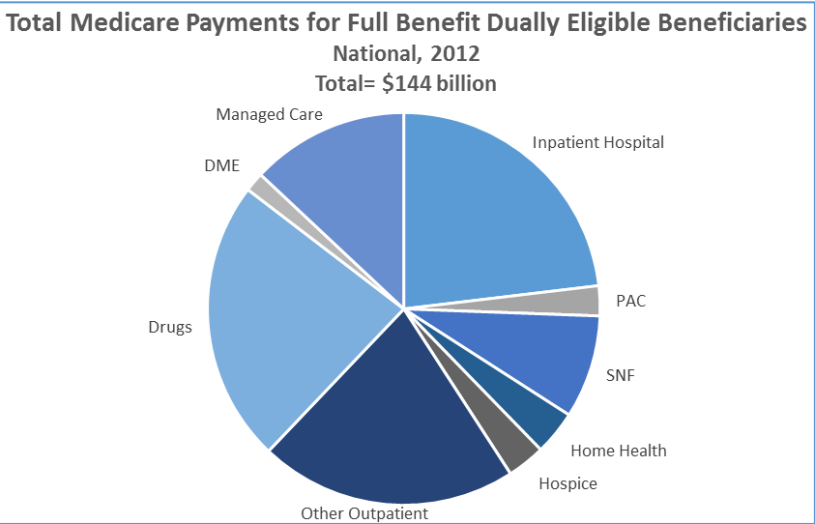


Exhibit 11. Example of Percent Share of Total Medicare Payments for Full Benefit Dually Eligible Beneficiaries Nationally vs a Specific State



Data Source: National and State-Level Trends Data

- **File Name and Location:** “*National and State-level Trends (Year – Year Data)*” (<https://www.cms.gov/Medicare-Medicaid-Coordination/Medicare-and-Medicaid-Coordination/Medicare-Medicaid-Coordination-Office/Analytics.html>)
- **What it Contains:** The national and state-level trends data contain annual Medicare-Medicaid enrollee characteristics by coverage type, national utilization, and cost-sharing data.
- **Why It Is Useful:** To track demographic and coverage type enrollment changes and trends over time in each state.
- **Description:** These data provide detailed population characteristics by coverage type at the state level. This file includes the reason for an enrollee’s original Medicare entitlement, Medicare coverage type (managed care, fee-for-service, mixed coverage), Medicaid coverage type (comprehensive managed care, all fee-for-service only, mixed of fee-for-service only and limited managed care only, other mixed coverage), and race. The tabs give detailed information about these variables by coverage type, which includes full duals, QMB-only, partial duals, Medicare-only, and Medicaid-only with disability). Each tab provides state-level data for these variables. At the national level, the Table 1 tab also contains other variables (age and sex) for dually eligible beneficiaries and Medicare-only beneficiaries (see **Exhibit 12** below). The columns in each tab show the percentage of each type of beneficiary as a percentage of the population within a given year, and calculates the percent change in enrollment in each of these variables each year and over time (from 2006 to 2011).
- **Illustrative Excerpts.** The Table 1 tab (**Exhibit 12**) shows Medicare and Medicaid enrollment by general characteristics. (The Table 2 tab, not shown here, shows more details about these characteristics.) **Exhibit 13** shows some of the enrollment characteristics available in the state tabs, which include the reason for original entitlement to Medicare (not shown here), Medicare coverage type, Medicaid coverage type, and race broken down by coverage type. The National and State Level Trends Data file also includes national-level data on utilization, cost sharing and coverage trajectories (tracking the beneficiaries that enrolled in 2006 over time) from 2006 to 2011. To locate the tabs with this data, scroll down to the bottom of the “Overview” tab to find the links, or scroll to the end of the tabs. The Table 3 tab (**Exhibit 14**) provides fee-for-service utilization data by type of service for dually eligible beneficiaries compared to other Medicare and Medicaid beneficiaries by coverage type. The tabs labeled Table 5A-5E (**Exhibit 15**) include data on coverage trajectories with a tab for each coverage type and shows the number of beneficiaries with one or more months of coverage, the average number of months per enrollee, and the average number of switches within dual status from 2006-2011. The tabs labeled Tables 6A-6E provide monthly coverage trajectories. See **Appendix A** of this document for useful tips on using Excel to manipulate data and create graphs and charts.

Exhibit 12: National-and-State Level-Trends Data, Medicare and Medicaid Enrollment by General Characteristics

| Table 1: Medicare and Medicaid Enrollment by General Characteristics, 2006-2011 | | | | | | | |
|---|---------|------------|-------------------------|------------|------------|------------|------------|
| | No Data | | Number of Beneficiaries | | | | |
| | No Data | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
| Enrollment Type | | | | | | | |
| All Medicare and Medicaid (with Disability) | | 49,938,380 | 51,209,486 | 52,375,295 | 53,590,448 | 54,897,142 | 56,685,029 |
| Duals | | 8,502,406 | 8,714,521 | 8,988,587 | 9,229,100 | 9,618,058 | 10,032,721 |
| Full Duals | | 6,733,847 | 6,792,921 | 6,957,330 | 7,026,010 | 7,177,537 | 7,348,939 |
| QMB-Only | | 800,467 | 889,986 | 939,186 | 1,001,404 | 1,122,639 | 1,253,388 |
| Partial | | 968,092 | 1,031,614 | 1,092,071 | 1,201,686 | 1,317,882 | 1,430,393 |
| Medicaid-Only with Disability | | 5,306,173 | 5,547,442 | 5,577,503 | 5,807,581 | 6,029,255 | 6,255,509 |
| Medicare-Only | | 36,129,801 | 36,947,523 | 37,809,205 | 38,553,767 | 39,249,829 | 40,396,799 |
| Race | | | | | | | |
| Duals | | 8,502,406 | 8,714,521 | 8,988,587 | 9,229,100 | 9,618,058 | 10,032,721 |
| White/Non-Hispanic | | 4,659,820 | 5,035,700 | 5,171,784 | 5,296,288 | 5,488,594 | 5,673,930 |
| African American/Non-Hispanic | | 1,556,682 | 1,714,909 | 1,768,102 | 1,831,174 | 1,906,976 | 2,010,884 |
| Hispanic/Latino | | 1,079,046 | 1,229,346 | 1,293,850 | 1,361,624 | 1,438,392 | 1,534,592 |
| Asian | | 407,249 | 471,063 | 491,146 | 514,986 | 538,270 | 565,610 |
| North American Native | | 63,436 | 71,788 | 77,259 | 81,528 | 83,000 | 86,114 |
| Other | | 736,173 | 191,715 | 186,446 | 143,500 | 162,826 | 161,591 |
| Medicare-Only | | 36,129,801 | 36,947,523 | 37,809,205 | 38,553,767 | 39,249,829 | 40,396,799 |
| White/Non-Hispanic | | 28,532,575 | 31,081,778 | 31,744,390 | 32,416,473 | 32,900,204 | 33,691,720 |
| African American/Non-Hispanic | | 2,510,907 | 2,802,576 | 2,884,904 | 2,955,777 | 3,060,898 | 3,153,353 |
| Hispanic/Latino | | 1,377,576 | 1,589,262 | 1,676,751 | 1,768,623 | 1,845,538 | 1,946,433 |
| Asian | | 521,928 | 615,730 | 657,866 | 700,007 | 738,900 | 788,381 |
| North American Native | | 100,353 | 115,675 | 124,557 | 130,273 | 130,169 | 132,451 |
| Other | | 3,086,462 | 742,502 | 720,737 | 552,614 | 574,120 | 684,461 |
| Medicaid-Only with Disability | | 5,306,173 | 5,547,442 | 5,577,503 | 5,807,581 | 6,029,255 | 6,255,509 |
| White/Non-Hispanic | | 2,433,749 | 2,510,521 | 2,528,837 | 2,604,460 | 2,697,403 | 2,749,773 |
| African American/Non-Hispanic | | 1,422,477 | 1,456,864 | 1,497,693 | 1,557,826 | 1,583,132 | 1,621,088 |
| Hispanic/Latino | | 560,787 | 598,186 | 619,754 | 659,831 | 680,433 | 681,253 |
| Asian | | 72,710 | 81,863 | 77,114 | 81,567 | 83,088 | 86,487 |
| Native Hawaiian/Pacific Islander | | 58,235 | 57,484 | 57,885 | 57,434 | 54,142 | 53,702 |
| American Indian/Alaska Native | | 55,401 | 56,723 | 58,437 | 61,182 | 62,920 | 63,363 |
| Other | | 702,814 | 785,801 | 737,783 | 785,301 | 868,137 | 999,841 |
| Reason for Original Entitlement to Medicare | | | | | | | |
| Duals | | 8,502,406 | 8,714,521 | 8,988,587 | 9,229,100 | 9,618,058 | 10,032,721 |
| Age | | 4,324,926 | 4,375,325 | 4,451,381 | 4,515,417 | 4,656,970 | 4,762,989 |
| Disability | | 4,082,811 | 4,245,165 | 4,446,877 | 4,633,152 | 4,881,051 | 5,160,103 |
| ESRD | | 84,486 | 93,053 | 89,378 | 79,394 | 78,637 | 85,220 |
| Unknown | | 10,183 | 978 | 951 | 1,137 | 1,400 | 24,408 |
| Medicare-Only | | 36,129,801 | 36,947,523 | 37,809,205 | 38,553,767 | 39,249,829 | 40,396,799 |
| Age | | 30,120,084 | 30,746,433 | 31,449,829 | 32,044,466 | 32,567,534 | 33,483,312 |
| Disability | | 5,889,834 | 6,075,677 | 6,230,425 | 6,379,623 | 6,550,222 | 6,771,582 |
| ESRD | | 102,228 | 103,819 | 104,307 | 101,763 | 100,142 | 106,423 |
| Unknown | | 17,655 | 21,594 | 24,644 | 27,915 | 31,931 | 35,482 |
| Age | | | | | | | |

Exhibit 12 continued

| | | | | | | | | | | | |
|----|--|---------|-------------------------|------------|------------|------------|------------|------------|--|--|--|
| 1 | Overview | | | | | | | | | | |
| 2 | Table 1: Medicare and Medicaid Enrollment by General Characteristics, 2006-2011 | | | | | | | | | | |
| 3 | | No Data | Number of Beneficiaries | | | | | | | | |
| 4 | | No Data | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | | | |
| 47 | Age | | | | | | | | | | |
| 48 | <i>Duals</i> | | 8,502,406 | 8,714,521 | 8,988,587 | 9,229,100 | 9,618,058 | 10,032,721 | | | |
| 49 | Under Age 65 | | 3,258,823 | 3,385,046 | 3,543,219 | 3,697,779 | 3,906,075 | 4,131,732 | | | |
| 50 | Age 65+ | | 5,243,583 | 5,329,475 | 5,445,368 | 5,531,321 | 5,711,983 | 5,900,989 | | | |
| 51 | <i>Medicare-Only</i> | | 36,129,801 | 36,947,523 | 37,809,205 | 38,553,767 | 39,249,829 | 40,396,799 | | | |
| 52 | Under Age 65 | | 4,006,051 | 4,095,365 | 4,141,006 | 4,191,309 | 4,264,454 | 4,354,921 | | | |
| 53 | Age 65+ | | 32,123,750 | 32,852,158 | 33,668,199 | 34,362,458 | 34,985,375 | 36,041,878 | | | |
| 54 | Medicare Coverage Type /1/ | | | | | | | | | | |
| 55 | <i>Dual</i> | | 8,502,406 | 8,714,521 | 8,988,587 | 9,229,100 | 9,618,058 | 10,032,721 | | | |
| 56 | Managed Care | | 874,407 | 1,103,091 | 1,325,581 | 1,517,080 | 1,605,607 | 1,814,460 | | | |
| 57 | Fee-for-Service | | 7,192,592 | 7,159,392 | 7,195,792 | 7,315,073 | 7,607,393 | 7,817,406 | | | |
| 58 | Mixed Coverage | | 432,671 | 450,119 | 465,370 | 395,773 | 404,405 | 400,120 | | | |
| 59 | <i>Medicare-Only</i> | | 36,129,801 | 36,947,523 | 37,809,205 | 38,553,767 | 39,249,829 | 40,396,799 | | | |
| 60 | Managed Care | | 5,575,318 | 6,864,092 | 7,943,671 | 8,892,082 | 9,382,110 | 10,037,341 | | | |
| 61 | Fee-for-Service | | 29,359,210 | 29,205,167 | 29,982,357 | 29,923,104 | 29,478,765 | 29,818,142 | | | |
| 62 | Mixed Coverage | | 1,194,268 | 876,496 | 879,223 | 735,731 | 687,166 | 540,128 | | | |
| 63 | Medicaid Coverage Type /1/ | | | | | | | | | | |
| 64 | <i>Dual</i> | | 8,502,406 | 8,714,521 | 8,988,587 | 9,229,100 | 9,618,058 | 10,032,721 | | | |
| 65 | Comprehensive Managed Care (MC) | | 632,347 | 656,063 | 723,766 | 738,264 | 761,008 | 831,746 | | | |
| 66 | All Fee-for-Service (FFS) Only | | 5,718,945 | 5,718,286 | 5,850,081 | 6,018,315 | 6,333,178 | 6,231,409 | | | |
| 67 | Mix of FFS only with Limited MC Only | | 1,903,151 | 2,001,205 | 2,068,971 | 2,124,931 | 2,234,714 | 2,411,078 | | | |
| 68 | Other Mixed Coverage | | 247,963 | 338,967 | 345,769 | 347,590 | 289,158 | 558,488 | | | |
| 69 | <i>Medicaid-Only with Disability</i> | | 5,306,173 | 5,547,442 | 5,577,503 | 5,807,581 | 6,029,255 | 6,255,505 | | | |
| 70 | Comprehensive Managed Care (MC) | | 1,166,431 | 1,262,161 | 1,429,969 | 1,542,141 | 1,647,967 | 1,818,518 | | | |
| 71 | All Fee-for-Service (FFS) Only | | 1,885,217 | 1,655,926 | 1,559,399 | 1,527,432 | 1,531,066 | 1,351,813 | | | |
| 72 | Mix of FFS only with Limited MC Only | | 1,813,903 | 1,886,367 | 1,950,748 | 2,097,083 | 2,216,280 | 2,105,290 | | | |
| 73 | Other Mixed Coverage | | 440,622 | 742,988 | 637,387 | 640,925 | 633,942 | 979,884 | | | |
| 74 | Sex /1/ | | | | | | | | | | |
| 75 | <i>Dual</i> | | 8,502,406 | 8,714,521 | 8,988,587 | 9,229,100 | 9,618,058 | 10,032,721 | | | |
| 76 | Female | | 5,317,027 | 5,433,155 | 5,579,422 | 5,702,316 | 5,922,870 | 6,142,631 | | | |
| 77 | Male | | 3,185,379 | 3,281,366 | 3,409,164 | 3,526,713 | 3,695,151 | 3,890,085 | | | |
| 78 | <i>Medicare-Only</i> | | 36,129,801 | 36,947,523 | 37,809,205 | 38,553,767 | 39,249,829 | 40,396,799 | | | |
| 79 | Female | | 19,548,297 | 19,930,848 | 20,339,439 | 20,684,375 | 20,985,243 | 21,520,201 | | | |
| 80 | Male | | 16,581,401 | 17,016,569 | 17,469,697 | 17,869,379 | 18,264,553 | 18,876,595 | | | |
| 81 | <i>Medicaid-Only with Disability</i> | | 5,306,173 | 5,547,442 | 5,577,503 | 5,807,581 | 6,029,255 | 6,255,505 | | | |
| 82 | Female | | 2,659,676 | 2,769,276 | 2,754,505 | 2,839,475 | 2,922,471 | 3,006,114 | | | |
| 83 | Male | | 2,639,860 | 2,777,910 | 2,822,843 | 2,964,692 | 3,106,639 | 3,249,135 | | | |
| 84 | /1/ Medicare Coverage Type, Medicaid Coverage Type, and Sex subcategories may not sum to totals due to missing information | | | | | | | | | | |
| 85 | | | | | | | | | | | |

Exhibit 13. National and State Level Trends Data Report, Detailed Characteristics, State Tab

[Overview](#)

Table 2: Medicare and Medicaid Enrollment by Detailed Characteristics, 2006-2011, AL

| State | Year | Number of Beneficiaries | | | | | |
|-------------------------|-------------------------------|-------------------------|---------|---------|---------|---------|--------|
| Coverage Type | Medicare Coverage Type | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
| Duals | | 196,831 | 200,458 | 202,679 | 200,809 | 202,745 | 210,65 |
| Full Duals | Total | 98,058 | 97,100 | 96,548 | 95,476 | 94,566 | 95,21 |
| | Managed Care | 7,231 | 10,089 | 11,414 | 12,629 | 12,711 | 12,37 |
| | Fee-for-Service | 85,836 | 82,572 | 81,542 | 79,694 | 79,023 | 80,21 |
| | Mixed Coverage | 4,957 | 4,408 | 3,555 | 3,127 | 2,816 | 2,60 |
| QMB-Only | Total | 53,455 | 56,340 | 57,999 | 57,368 | 59,356 | 63,16 |
| | Managed Care | 10,530 | 13,761 | 15,541 | 16,438 | 17,369 | 17,75 |
| | Fee-for-Service | 38,613 | 38,889 | 39,361 | 37,913 | 39,067 | 42,77 |
| | Mixed Coverage | 4,307 | 3,684 | 3,092 | 3,015 | 2,919 | 2,63 |
| Partial | Total | 45,318 | 47,018 | 48,132 | 47,965 | 48,823 | 52,27 |
| | Managed Care | 11,572 | 14,976 | 17,453 | 19,208 | 20,866 | 21,30 |
| | Fee-for-Service | 30,006 | 28,813 | 27,687 | 25,691 | 25,081 | 28,26 |
| | Mixed Coverage | 3,738 | 3,228 | 2,991 | 3,065 | 2,875 | 2,70 |
| Medicare-Only | Total | 618,555 | 633,051 | 650,660 | 668,943 | 684,752 | 703,31 |
| | Managed Care | 49,715 | 67,561 | 87,178 | 125,191 | 123,308 | 125,09 |
| | Fee-for-Service | 550,092 | 553,850 | 536,808 | 528,161 | 550,760 | 570,61 |
| | Mixed Coverage | 18,728 | 11,614 | 26,616 | 15,556 | 10,661 | 7,58 |
| Coverage Type | Medicaid Coverage Type | | | | | | |
| Duals | | 196,831 | 200,458 | 202,679 | 200,809 | 202,745 | 210,65 |
| Full Duals | Total | 98,058 | 97,100 | 96,548 | 95,476 | 94,566 | 95,21 |
| | Comprehensive Manag | 3,427 | 4,498 | 5,735 | 9,418 | 6,737 | 9,86 |
| | All Fee-for-Service (FF | 79,172 | 77,584 | 72,469 | 70,537 | 72,592 | 76,93 |
| | Mix of FFS only with Li | 12,191 | 11,809 | 11,888 | 11,931 | 11,826 | 4,77 |
| | Other Mixed Coverage | 3,268 | 3,209 | 6,456 | 3,590 | 3,411 | 3,63 |
| QMB-Only | Total | 53,455 | 56,340 | 57,999 | 57,368 | 59,356 | 63,16 |
| | Comprehensive Manag | 2,078 | 2,732 | 6,330 | 12,916 | 9,348 | 13,28 |
| | All Fee-for-Service (FF | 48,843 | 49,579 | 42,257 | 40,668 | 45,661 | 45,30 |
| | Mix of FFS only with Li | 572 | 540 | 515 | 561 | 594 | 34 |
| | Other Mixed Coverage | 1,962 | 3,489 | 8,897 | 3,223 | 3,753 | 4,23 |
| Partial | Total | 45,318 | 47,018 | 48,132 | 47,965 | 48,823 | 52,27 |
| | Comprehensive Manag | * | * | * | 22 | 19 | 1 |
| | All Fee-for-Service (FF | 44,921 | 46,687 | 47,626 | 46,964 | 48,323 | 51,87 |
| | Mix of FFS only with Li | 216 | 222 | * | 186 | 216 | 14 |
| | Other Mixed Coverage | * | * | 337 | 793 | 265 | 24 |
| Medicaid-Only wi | Total | 110,877 | 111,901 | 114,065 | 118,987 | 122,721 | 126,18 |
| | Comprehensive Manag | 15 | 16 | 12 | 17 | 15 | 2 |
| | All Fee-for-Service (FF | 1,839 | 1,841 | 2,504 | 2,431 | 5,529 | 14,37 |
| | Mix of FFS only with Li | 108,383 | 109,367 | 110,891 | 115,882 | 116,305 | 110,77 |
| | Other Mixed Coverage | 640 | 677 | 658 | 857 | 872 | 1,00 |
| Coverage Type | Race | | | | | | |
| Duals | | 196,831 | 200,458 | 202,679 | 200,809 | 202,745 | 210,65 |
| Full Duals | Total | 98,058 | 97,100 | 96,548 | 95,476 | 94,566 | 95,21 |
| | White/Non-Hispanic | 49,511 | 51,859 | 51,488 | 51,240 | 50,659 | 50,85 |
| | African American/Non- | 40,083 | 42,559 | 42,333 | 42,183 | 41,946 | 42,22 |
| | Hispanic/Latino | 476 | 551 | 617 | 648 | 699 | 73 |
| | Asian | 540 | 659 | 686 | 720 | 727 | 77 |
| | North American Native | 105 | 106 | 110 | 113 | 118 | 11 |
| | Other | 7,343 | 1,366 | 1,314 | 572 | 417 | 51 |
| QMB-Only | Total | 53,455 | 56,340 | 57,999 | 57,368 | 59,356 | 63,16 |
| | White/Non-Hispanic | 30,214 | 33,056 | 33,543 | 32,760 | 33,524 | 35,33 |
| | African American/Non- | 19,885 | 22,312 | 23,541 | 23,785 | 24,964 | 26,82 |
| | Hispanic/Latino | 257 | 312 | 347 | 361 | 406 | 47 |

[Overview](#) | [Methodology](#) | [Table_1](#) | [Table_2](#) | **AL** | [AK](#) | [AZ](#) | [AR](#) | [CA](#) | [CO](#) | [CT](#)

Exhibit 14. National and State Level Trends Data, Table 3, Utilization Tab

| Overview | | | | |
|--|-------------------------------|---|----------------|------------|
| Table 3: Medicare and Medicaid Fee-for-Service Utilization by Selected Type of Service for Dual-Eligible Beneficiaries Compared to Other Medicare and Medicaid Beneficiaries | | | | |
| No Data | Coverage Type | Measure | 2006 | 2007 |
| | | | Overall | |
| Number of beneficiaries who are FFS | and Medicaid) | | 4,761,660 | 4,591,660 |
| | Medicare-Only | | 26,163,703 | 25,771,660 |
| | Medicaid-Only with Disability | | 1,885,217 | 1,651,660 |
| Medicare /2/ | | | | |
| Inpatient | | | | |
| ER Admits | Duals | # with at least one unit of service | 1,056,231 | 1,011,660 |
| | | Median Utilization Among Users | 1 | 1 |
| | | Among users, IQR (25th percentile, 75th percentile) | (1, 2) | (1, 2) |
| | Medicare-Only | # with at least one unit of service | 3,198,431 | 3,141,660 |
| | | Median Utilization Among Users | 1 | 1 |
| | | Among users, IQR (25th percentile, 75th percentile) | (1, 2) | (1, 2) |
| ER days | Duals | # with at least one unit of service | 1,062,816 | 1,021,660 |
| | | Median Utilization Among Users | 6 | 6 |
| | | Among users, IQR (25th percentile, 75th percentile) | (3, 13) | (3, 13) |
| | Medicare-Only | # with at least one unit of service | 3,177,567 | 3,121,660 |
| | | Median Utilization Among Users | 5 | 5 |
| | | Among users, IQR (25th percentile, 75th percentile) | (3, 9) | (3, 9) |

Exhibit 15. National and State Level Trends Data, Table 5A, Coverage Trajectories for 2006 Full-Benefit Dual Enrollees Tab

| Overview | | | | | | | |
|---|---------|-------------------------|-----------|-----------|-----------|-----------|-----------|
| Table 5A: Coverage Trajectories for 2006 Full-Benefit Dual Enrollees, 2006-2011 | | | | | | | |
| No Data | No Data | Number of Beneficiaries | | | | | |
| | | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
| Overall | | | | | | | |
| Full-Benefit Duals /4/ | | 6,733,847 | 6,219,560 | 5,745,417 | 5,331,024 | 4,980,535 | 4,666,589 |
| Number of Beneficiaries with one or more months of coverage | | | | | | | |
| Full-Benefit Coverage | | 6,733,847 | 5,978,040 | 5,358,174 | 4,881,635 | 4,437,272 | 4,099,670 |
| Partial Dual Coverage | | 79,690 | 89,470 | 112,053 | 147,238 | 155,590 | 161,452 |
| QMB-Only | | 83,469 | 107,376 | 132,328 | 159,691 | 173,257 | 178,422 |
| Medicare-Only | | 1,029,937 | 686,337 | 649,807 | 659,705 | 647,513 | 793,133 |
| Medicaid-Only | | 276,167 | 12,860 | 18,146 | 21,600 | 24,529 | 26,123 |
| Average Number of Months per Beneficiary | | | | | | | |
| Full-Benefit Coverage | | 10.5 | 10.7 | 10.5 | 10.3 | 10.0 | 9.9 |
| Partial Dual Coverage | | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 |
| QMB-Only | | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 |
| Medicare-Only | | 0.8 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 |
| Medicaid-Only | | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| Average Number of Switches within Dual Status | | | | | | | |
| Any Coverage | | 0.4 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |

/4/ We track those enrolled in Medicare and/or Medicaid among those observed in January 2006.

- **Using the Data:** States can use the National and State Level Trends Data to show trends in the characteristics of the Medicare and Medicaid populations in their state for the time periods covered in these tables. If they need to show more recent trends, states are can use their own state data, if available. The following are a few examples of the trend data that states can extract from these files.
 - **Enrollment by Coverage Type:** For each coverage type (e.g., Full Duals, Partial Duals) find the total enrollment number of beneficiaries (Columns C through H) and create a stacked bar chart to show the enrollment over time. See **Exhibit 16** comparing nationwide enrollment to a state’s enrollment. You can also see the percentage change in enrollment using the “change over entire period” column (Column T) and create a bar chart to show the percent enrollment growth or decline in each type. States can also create more detailed bar charts for each variable within each coverage type, such enrollment in Medicare and Medicaid by coverage type over time (see **Exhibit 17** using nationwide enrollment as a comparison for a specific state).

Exhibit 16. Enrollment by Coverage Type Nationwide vs a Specific State, from 2006-2011

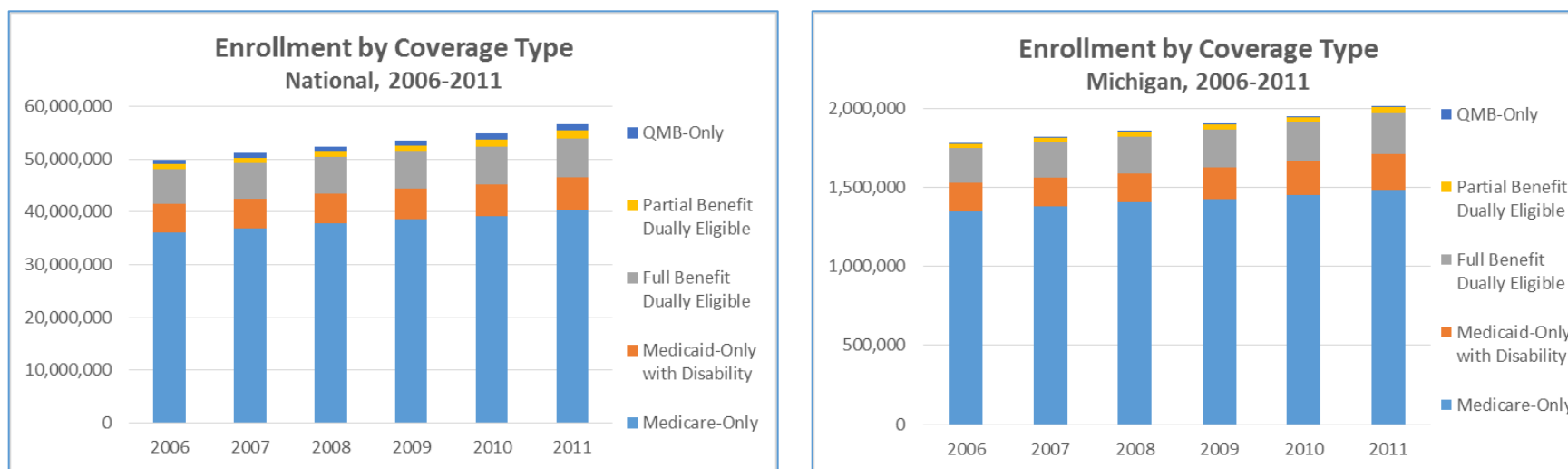
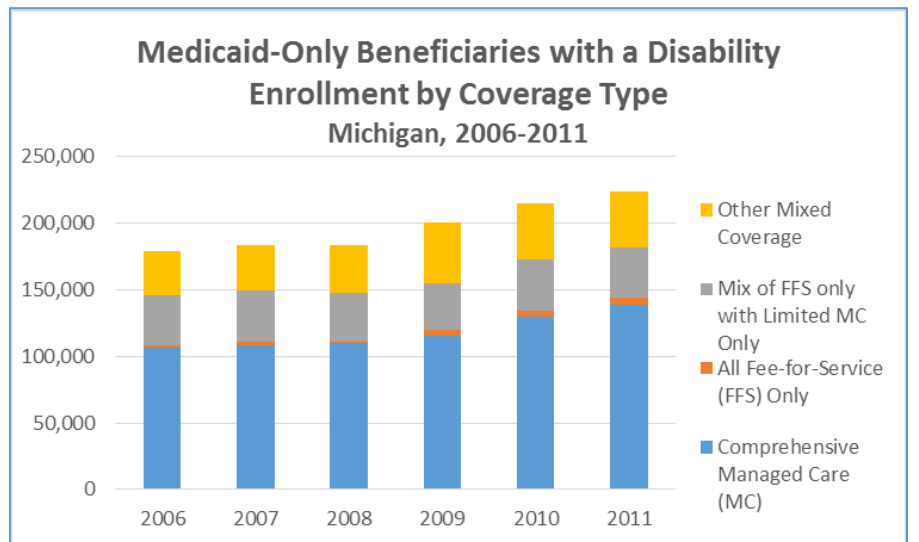
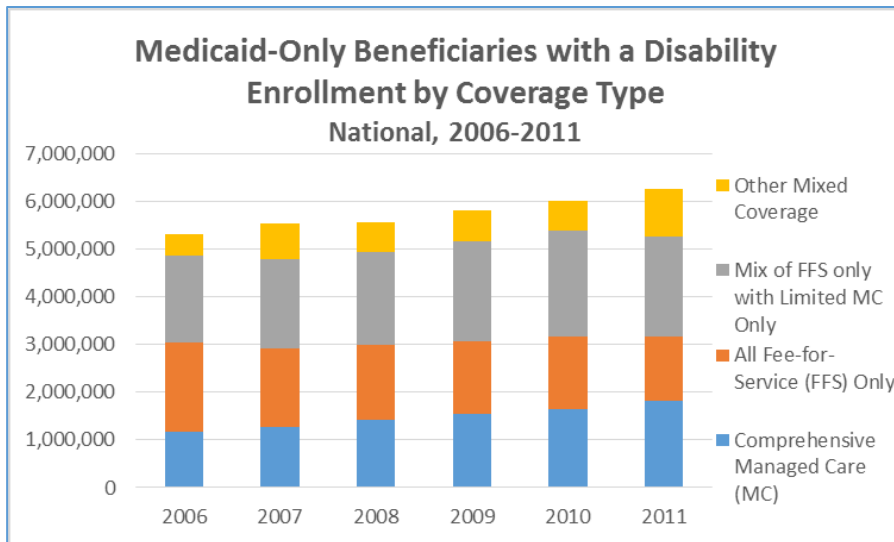
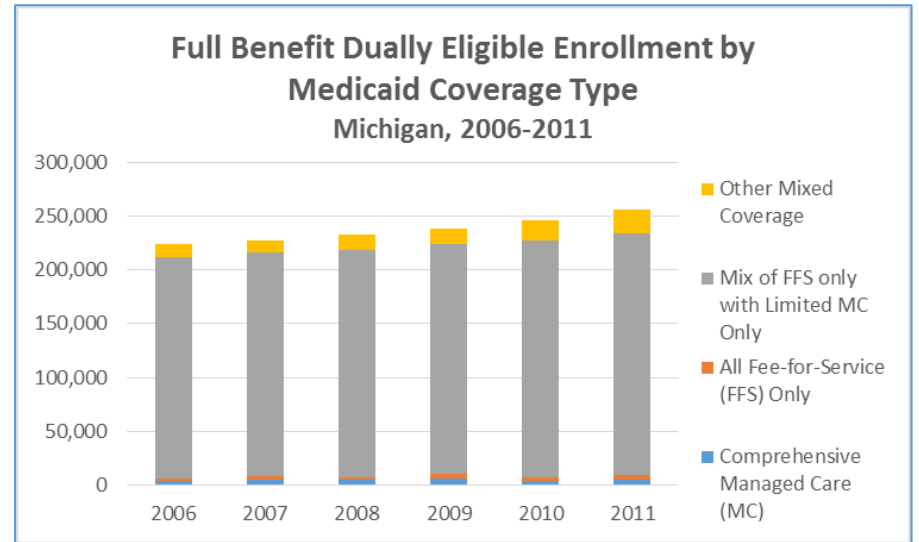
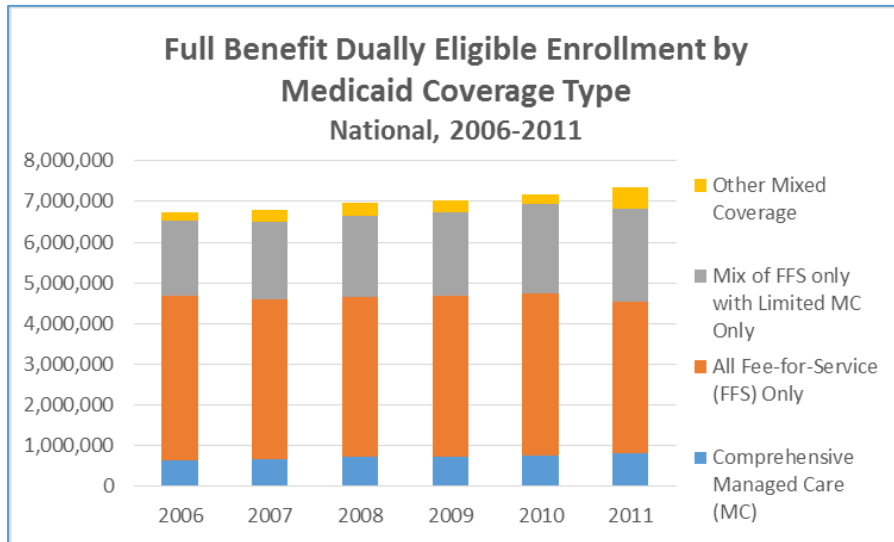


Exhibit 17. Full Benefit Dually Eligible Enrollment and Medicaid-only Beneficiaries with a Disability by Medicaid Coverage Type Nationwide vs a Specific State, from 2006-2011



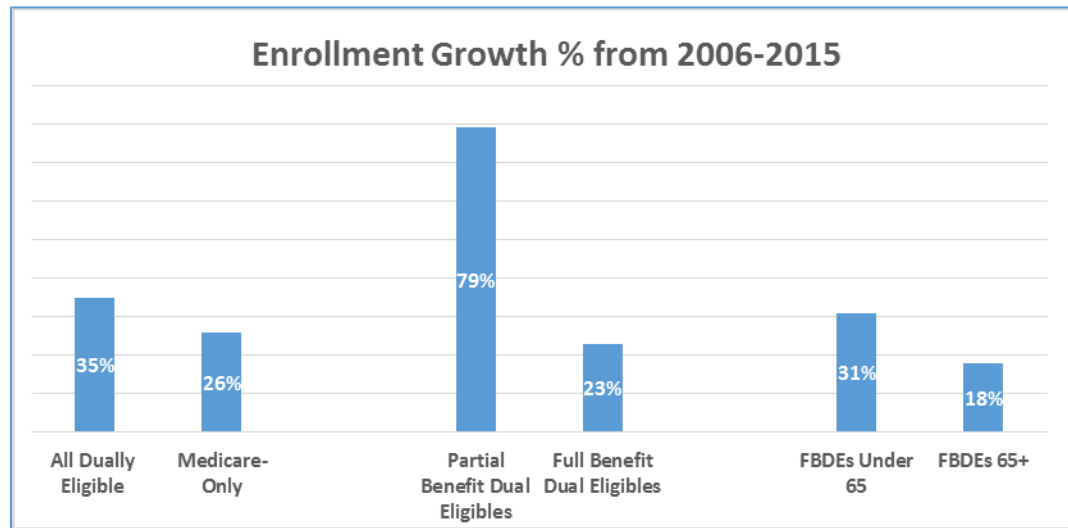
Data Source: Ever-Enrolled Trends Report

- **File Name and Location:** “*Ever enrolled Trends Report – Accompanying Data Tables (2006 – 20xx year data)*” (<https://www.cms.gov/Medicare-Medicaid-Coordination/Medicare-and-Medicaid-Coordination/Medicare-Medicaid-Coordination-Office/Analytics.html>)
- **What it Contains:** National Total of Medicare-Only and Medicare-Medicaid Dual Enrollees by Eligibility Category and Demographic Characteristics
- **Why it Is Useful:** The Ever-Enrolled Trends Report provides the authoritative number of individuals ever dually enrolled in Medicare and Medicaid in the year prior to the current year as well as since 2006. This report also provides enrollment trends for different categories of dual enrollment and demographic variables for Medicare-Medicaid beneficiaries as well as Medicare-only beneficiaries across all years of analysis.
- **Description:** For a comprehensive list of enrollment data for all types of Medicare beneficiaries, use the Ever-Enrolled Trends Report – Accompanying Data Tables. These tables provide annual *national* enrollment numbers for each type of Medicare beneficiary: Medicare-only, Full-Benefit Medicare-Medicaid Dual Enrollees, and Partial-Benefit Medicare-Medicaid Dual Enrollees. The tables also show the percentages within those groups by demographic category (age, race, ethnicity, sex), and by eligibility status (QMB, SLMB, QMB+, SLMB+ etc.), original reason for Medicare entitlement, and current Medicare status). The file provides a tab for each calendar year since 2006. CMS also provides an accompanying data analysis brief that highlights trends in the data. **Exhibit 18** is an example table.
- **Keep in Mind:** This report does not include state-level data. All data is at the national level. The enrollment numbers count beneficiaries who were ever-enrolled (cumulative) at any point in time during the calendar year. Among individuals qualifying as being ever-dually enrolled in Medicare and Medicaid in the year, Full- and Partial-benefit assignments are made according to a beneficiary’s most recent dual eligibility status.
- **Using the Data:** The Ten-Year Ever-Enrolled Trends Report offers numerous opportunities to analyze subsections of the population by age, demographic category, and eligibility and to compare dual enrollees over time and across types to identify trends and plan for future integrated care needs. The following are examples of ways to use and find the data.
 - **Enrollment growth by type of dual enrollee:** Create a table of total enrollment for each type of dual enrollee by calendar year. Calculate the percent increase from year-to-year and show the results on a bar chart. See **Exhibit 19** for an example of the enrollment growth percentages by type of dual enrollee.
 - **Percentage of enrollees in each age or eligibility category:** The Ever-Enrolled Trends Report already calculates the percentage of enrollees in each age and eligibility category. Search across dual enrollee types or across years to look for national trends to find specific percentages.

Exhibit 18. Ever-Enrolled Trends Report

| Ever-Enrolled in Calendar Year 2015 (Period Prevalence) | | | | | | | | | | | | | | | | | |
|---|----------------------|---------------------------------------|----------------------------------|--|---|--|---|---|--|---|--|---|--|--|---|--|---|
| Demographic Information | | | | | | | | | | | | | | | | | |
| | All Medicare: Number | All Medicare: Percent within Category | Medicare-only (Non-Dual): Number | Medicare-only (Non-Dual): Percent of Medicare Population | Medicare-only (Non-Dual): Percent within Category | All Dual (Medicare-Medicaid) Enrollees: Number | All Dual (Medicare-Medicaid) Enrollees: Proportion of Medicare Population | All Dual (Medicare-Medicaid) Enrollees: Percent within Category | All Dual (Medicare-Medicaid) Enrollees: Prevalence Rate Ratio (Duals vs. Nonduals) | Full-Benefit Medicare-Medicaid Dual Enrollees: Number | Full-Benefit Medicare-Medicaid Dual Enrollees: Percent within Category | Full-Benefit Medicare-Medicaid Dual Enrollees: Prevalence Rate Ratio (Duals vs. Nonduals) | Full-Benefit Medicare-Medicaid Dual Enrollees: Proportion of All Dual (Medicare-Medicaid) Population | Partial-Benefit Medicare-Medicaid Dual Enrollees: Number | Partial-Benefit Medicare-Medicaid Dual Enrollees: Percent within Category | Partial-Benefit Medicare-Medicaid Dual Enrollees: Prevalence Rate Ratio (Duals vs. Nonduals) | Partial-Benefit Medicare-Medicaid Dual Enrollees: Proportion of All Dual (Medicare-Medicaid) Population |
| TOTAL | 58,349,059 | 100% | 46,950,767 | 80.5% | 100% | 11,398,292 | 19.5% | 100% | 1 | 8,178,700 | 100% | 1 | 71.8% | 3,219,592 | 100% | 1 | 28.2% |
| Age | | | | | | | | | | | | | | | | | |
| <21 | 16,536 | 0.0% | 4,002 | 0.0% | 0.0% | 12,534 | 0.0% | 0.1% | 12.90 | 12,170 | 0.1% | 17.46 | 0.1% | 364 | 0.0% | 1.33 | 0.0% |
| 21-44 | 1,976,110 | 3.4% | 601,421 | 1.0% | 1.3% | 1,374,689 | 2.4% | 12.1% | 9.42 | 1,108,015 | 13.5% | 10.58 | 9.7% | 266,674 | 8.3% | 6.47 | 2.3% |
| 45-54 | 2,526,838 | 4.3% | 1,139,880 | 2.0% | 2.4% | 1,386,958 | 2.4% | 12.2% | 5.01 | 968,767 | 11.8% | 4.88 | 8.5% | 418,191 | 13.0% | 5.35 | 3.7% |
| 55-64 | 4,783,799 | 8.2% | 2,875,532 | 4.9% | 6.1% | 1,908,267 | 3.3% | 16.7% | 2.73 | 1,247,820 | 15.3% | 2.49 | 10.9% | 660,447 | 20.5% | 3.35 | 5.8% |
| 65-74 | 27,795,928 | 47.6% | 24,503,184 | 42.0% | 52.2% | 3,292,744 | 5.6% | 28.9% | 0.55 | 2,235,644 | 27.3% | 0.52 | 19.6% | 1,057,100 | 32.8% | 0.63 | 9.3% |
| 75-84 | 14,288,160 | 24.5% | 12,190,088 | 20.9% | 26.0% | 2,098,072 | 3.6% | 18.4% | 0.71 | 1,509,583 | 18.5% | 0.71 | 13.2% | 588,489 | 18.3% | 0.70 | 5.2% |
| 85+ | 6,961,688 | 11.9% | 5,636,660 | 9.7% | 12.0% | 1,325,028 | 2.3% | 11.6% | 0.97 | 1,096,701 | 13.4% | 1.12 | 9.6% | 228,327 | 7.1% | 0.59 | 2.0% |
| TOTAL | 58,349,059 | 100.0% | 46,950,767 | 80.5% | 100.0% | 11,398,292 | 19.5% | 100.0% | | 8,178,700 | 100.0% | | 71.8% | 3,219,592 | 100.0% | | 28.2% |
| Age (binary) | | | | | | | | | | | | | | | | | |
| <65 | 9,303,283 | 15.9% | 4,620,835 | 7.9% | 9.8% | 4,682,448 | 8.0% | 41.1% | 4.17 | 3,336,772 | 40.8% | 4.15 | 29.3% | 1,345,676 | 41.8% | 4.25 | 11.8% |
| 65+ | 49,045,776 | 84.1% | 42,329,932 | 72.5% | 90.2% | 6,715,844 | 11.5% | 58.9% | 0.65 | 4,841,928 | 59.2% | 0.66 | 42.5% | 1,873,916 | 58.2% | 0.65 | 16.4% |
| TOTAL | 58,349,059 | 100.0% | 46,950,767 | 80.5% | 100.0% | 11,398,292 | 19.5% | 100.0% | | 8,178,700 | 100.0% | | 71.8% | 3,219,592 | 100.0% | | 28.2% |
| Race | | | | | | | | | | | | | | | | | |
| White | 46,886,383 | 80.4% | 39,854,761 | 68.3% | 84.9% | 7,031,622 | 12.1% | 61.7% | 0.73 | 4,863,021 | 59.5% | 0.70 | 42.7% | 2,168,601 | 67.4% | 0.79 | 19.0% |
| Black/African American | 6,196,660 | 10.6% | 3,839,656 | 6.6% | 8.2% | 2,357,004 | 4.0% | 20.7% | 2.53 | 1,618,726 | 19.8% | 2.42 | 14.2% | 738,278 | 22.9% | 2.80 | 6.5% |
| Hispanic/Latino | 1,647,635 | 2.8% | 728,730 | 1.2% | 1.6% | 918,905 | 1.6% | 8.1% | 5.19 | 746,125 | 9.1% | 5.88 | 6.5% | 172,780 | 5.4% | 3.46 | 1.5% |
| Asian | 1,331,644 | 2.3% | 717,232 | 1.2% | 1.5% | 614,412 | 1.1% | 5.4% | 3.53 | 558,601 | 6.8% | 4.47 | 4.9% | 55,811 | 1.7% | 1.13 | 0.5% |

Exhibit 19. Example of National Enrollment Growth Percentages by Type of Dual Enrollee



Appendix A: Microsoft Excel Tips for Using CMS Data

Microsoft Excel is a useful tool to manipulate and analyze data. Following are tips for using Microsoft Excel.

“Read-Only” Locked Files: Many Excel files on the CMS website are saved as “Read-Only,” and are locked for editing. That means you cannot manipulate the data directly in the file. To be able to manipulate the data, select the entire sheet you are interested in by right clicking on the green arrow in the top left-hand corner, and copy-paste it to a new Excel workbook. See **Exhibit 20** for an example.

Exhibit 20. Example of Editing a “Read-Only” Locked Excel file

The screenshot shows an Excel spreadsheet titled 'MMLEADS_PUF_EXCELTABLES_2006-2012.xlsx [Read-Only] - Excel'. A context menu is open over the top-left corner of the spreadsheet. The spreadsheet data is as follows:

| | | Number of People | Number of People with FFS | Number of Females with FFS | Number of Males with FFS | Percent with all 12 months in FFS Medicaid | Percent with all 12 months in FFS Medicare | Percent with all 12 months with Medicare Part D coverage | Percent |
|----------------------|----------------------------|------------------|---------------------------|----------------------------|--------------------------|--|--|--|---------|
| Benefit | | 7,552,114 | 6,637,236 | 4,050,229 | 2,587,007 | 54.60% | | 79.60% | 97.80% |
| Benefit | | 2,901,092 | 2,841,232 | 1,693,704 | 1,147,528 | 94.00% | 69.30% | | 98.20% |
| re Only | | 43,143,977 | 27,899,627 | 14,935,346 | 12,964,273 | | 64.50% | | 54.40% |
| id Only (Disability) | | 6,295,355 | 2,217,472 | 1,023,060 | 1,194,306 | 35.20% | | | |
| Benefit | | 16,204 | 16,187 | 8,883 | 7,304 | 98.70% | 99.00% | | 97.20% |
| Benefit | | 612 | 612 | 309 | 303 | 99.20% | | | 90.70% |
| re Only | | 60,782 | 52,988 | 25,782 | 27,206 | | 87.10% | | 22.80% |
| id Only (Disability) | | 10,850 | 10,850 | 5,218 | 5,632 | 100.00% | | | |
| AL | Full Benefit | 94,557 | 83,390 | 54,904 | 28,486 | 87.20% | 80.30% | | 98.70% |
| AL | Partial Benefit | 121,157 | 105,336 | 67,219 | 38,117 | 86.30% | 63.70% | | 98.50% |
| AL | Medicare Only | 729,766 | 546,093 | 290,400 | 255,693 | | 74.80% | | 46.50% |
| AL | Medicaid Only (Disability) | 129,972 | 34,400 | 16,762 | 17,638 | 26.50% | | | |
| AR | Full Benefit | 75,253 | 74,159 | 48,062 | 26,097 | 89.70% | 87.70% | | 98.20% |
| AR | Partial Benefit | 61,301 | 60,985 | 35,976 | 25,009 | 97.50% | 75.20% | | 98.20% |
| AR | Medicare Only | 453,605 | 357,611 | 188,198 | 169,413 | | 78.70% | | 52.40% |
| AR | Medicaid Only (Disability) | 92,713 | 18,618 | 8,131 | 10,487 | 20.10% | | | |
| AZ | Full Benefit | 140,109 | 65,105 | 36,091 | 29,014 | 6.21% | 43.50% | | 98.10% |
| AZ | Partial Benefit | 44,675 | 43,834 | 26,199 | 17,635 | 96.70% | 41.50% | | 98.00% |
| AZ | Medicare Only | 877,340 | 534,315 | 276,439 | 257,876 | | 60.90% | | 56.90% |
| AZ | Medicaid Only (Disability) | 103,436 | 3,991 | 1,698 | 2,293 | 3.86% | | | |
| CA | Full Benefit | 1,288,347 | 935,301 | 525,443 | 409,858 | 0.50% | 72.50% | | 98.40% |
| CA | Partial Benefit | 41,538 | 31,610 | 17,966 | 13,644 | 29.30% | 56.50% | | 98.50% |
| CA | Medicare Only | 4,065,718 | 2,066,631 | 1,084,471 | 982,160 | | 50.80% | | 61.50% |
| CA | Medicaid Only (Disability) | 717,550 | 9,214 | 5,519 | 3,695 | 1.28% | | | |

Sorting or Filtering: Sorting will display the spreadsheet rows based on the data in a specific column or columns. For example, sorting by the “State” column will sort the states in alphabetical order. Filtering will filter out all other data except for the data specified in a column. For example, filtering by “State” allows you to view data for a specific state. See **Exhibit 21** for where to find the sort and filter buttons.

Exhibit 21. Example of Sorting and Filtering

The screenshot shows an Excel spreadsheet titled 'Book1 - Excel'. The active sheet is 'Sheet1'. The spreadsheet contains data for 'Denominators' across various states and enrollment types. The columns are: State, Number of People by Medicare-Medicaid Enrollment Type, Number of People, Number of People with FFS, Number of Females with FFS, and Number of Male FFS. The data is sorted alphabetically by State. A context menu is open over the 'State' column header, showing options like 'Sort A to Z', 'Sort Z to A', 'Custom Sort...', 'Filter', 'Clear', and 'Resupply'.

| Denominators | | | | | |
|--------------|---|------------------|---------------------------|----------------------------|--------------------|
| State | Number of People by Medicare-Medicaid Enrollment Type | Number of People | Number of People with FFS | Number of Females with FFS | Number of Male FFS |
| National | Full Benefit | 7,552,114 | 6,637,236 | 4,050,229 | 2,586,907 |
| National | Partial Benefit | 2,901,092 | 2,841,232 | 1,693,704 | 1,147,528 |
| National | Medicare Only | 43,143,977 | 27,899,627 | 14,935,346 | 12,964,281 |
| National | Medicaid Only (Disability) | 6,295,355 | 2,217,472 | 1,023,060 | 1,194,412 |
| AK | Full Benefit | 16,204 | 16,187 | 8,883 | 7,304 |
| AK | Partial Benefit | 612 | 612 | 309 | 303 |
| AK | Medicare Only | 60,782 | 52,988 | 25,782 | 27,206 |
| AK | Medicaid Only (Disability) | 10,850 | 10,850 | 5,218 | 5,632 |
| AL | Full Benefit | 94,557 | 83,390 | 54,904 | 28,486 |
| AL | Partial Benefit | 121,157 | 105,336 | 67,219 | 38,117 |
| AL | Medicare Only | 729,766 | 546,093 | 290,400 | 255,693 |
| AL | Medicaid Only (Disability) | 129,972 | 34,400 | 16,762 | 17,638 |
| AR | Full Benefit | 75,253 | 74,159 | 48,062 | 26,097 |
| AR | Partial Benefit | 61,301 | 60,985 | 35,976 | 24,909 |
| AR | Medicare Only | 453,605 | 357,611 | 188,198 | 169,413 |

SUM Formula: Use the formula =SUM(cell1, cell2, cell3, etc...) to add numbers quickly, or type in =SUM(and in the parenthesis select all the data you want to add. Remember to close the parentheses =SUM(C7:C10). See Exhibit 22 for an example.

Exhibit 22. Example of the SUM Formula

The screenshot shows an Excel spreadsheet with the following data:

| Denominators | | | | | | | | | |
|--------------|---|------------------|---------------------------|----------------------------|--------------------------|--|--|--|------|
| State | Number of People by Medicare-Medicaid Enrollment Type | Number of People | Number of People with FFS | Number of Females with FFS | Number of Males with FFS | Percent with all 12 months in FFS Medicaid | Percent with all 12 months in FFS Medicare | Percent with all 12 months with Medicare Part D coverage | Perc |
| National | Full Benefit | 7,552,114 | 6,637,236 | 4,050,229 | 2,587,007 | 54.60% | 79.60% | 97.80% | |
| National | Partial Benefit | 2,901,092 | 2,841,232 | 1,693,704 | 1,147,528 | 94.00% | 69.30% | 98.20% | |
| National | Medicare Only | 43,143,977 | 27,899,627 | 14,935,346 | 12,964,273 | | 64.50% | 54.40% | |
| National | Medicaid Only (Disability) | 6,295,355 | 2,217,472 | 1,023,060 | 1,194,306 | 35.20% | | | |
| AK | Full Benefit | 16,204 | 16,187 | 8,883 | 7,304 | 98.70% | 99.00% | 97.20% | |
| AK | Partial Benefit | 612 | 612 | 309 | 303 | 99.20% | 99.50% | 90.70% | |
| AK | Medicare Only | 60,782 | 52,988 | 25,782 | 27,206 | | 87.10% | 22.80% | |
| AK | Medicaid Only (Disability) | 10,850 | 10,850 | 5,218 | 5,632 | 100.00% | | | |

In cell C11, the formula =SUM(C7:C10) is being entered. The formula bar shows the formula and the selected range C7:C10. The spreadsheet grid shows the data for rows 1 through 13.

Percentages: One way to calculate a percentage of a total is to use the formula **=(cell1/cell2)**. See **Exhibit 23** for an example.

Exhibit 23. Example of Calculating Percentages

The screenshot shows an Excel spreadsheet with the following data:

| State of Beneficiary | Qualified Medicare Beneficiaries (QMB)-only | QMB plus Full Medicaid Benefits | Specified Low-income Medicare Beneficiaries (SLMB)-only | SLMB plus Full Medicaid Benefits | Qualifying Individuals (QI) | Other Dual Full Medicaid Benefit | Qualified Disabled and Working Individuals (QDWI) | Total |
|------------------------|---|---------------------------------|---|----------------------------------|-----------------------------|----------------------------------|---|-------------------|
| NATIONAL TOTAL* | | | | | | | | 10,577,752 |
| AK | 38 | 11,209 | 291 | - | 319 | 5,069 | - | 16,926 |
| AL | 68,003 | 67,533 | 36,278 | 3,941 | 19,778 | 14,912 | - | 210,445 |
| AR | 28,946 | 52,352 | 20,921 | 4,529 | 10,323 | 9,929 | - | 127,000 |
| AZ | 6,259 | 114,779 | 28,332 | 3,738 | 17,405 | 37,681 | - | 208,194 |
| CA | 17,647 | 1,217,150 | 7,426 | 158 | 19,509 | 170,599 | - | 1,432,489 |
| CO | 22,564 | 38,369 | 10,712 | 7,229 | 6,402 | 31,490 | - | 116,766 |
| CT | 84,453 | 63,334 | 8,656 | 1,211 | 4,857 | 11,987 | - | 174,498 |

The formula bar at the top shows the formula **=B6/I6**, which is used to calculate the percentage of the total for the selected state (AL).

Creating Charts, Graphs, or Figures: To create a chart, graph or other figure (bar or line graph, pie chart, etc...) select the data you intend to use, then go to the “Insert” tab at the top of the screen. Select the type of figure you would like to create. See **Exhibit 24**, which shows all of the options across the top.

Exhibit 24. Example of Graphs, Charts and Other Figures

The screenshot shows the Microsoft Excel interface with the 'INSERT' tab selected. The ribbon includes options for PivotTables, Pictures, Add-ins, Recommended Charts, Charts, Sparklines, Slicer, Timeline, and Hyperlinks. Below the ribbon, the active cell is H4 with the value 2011. The main data area contains a table with the following structure:

| Table 2: Medicare and Medicaid Enrollment by Detailed Characteristics, 2006-2011, CA | | Number of Beneficiaries | | | | | |
|--|-------------------------------|-------------------------|-----------|-----------|-----------|-----------|-----------|
| | | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
| Coverage Type | Medicare Coverage Type | | | | | | |
| Duals | Total | 1,130,985 | 1,156,426 | 1,190,968 | 1,220,792 | 1,249,209 | 1,291,129 |
| Full Duals | Total | 1,108,054 | 1,128,923 | 1,161,339 | 1,189,269 | 1,213,796 | 1,254,129 |
| | Managed Care | 115,708 | 128,307 | 147,471 | 167,991 | 178,336 | 201,129 |
| | Fee-for-Service | 946,226 | 953,428 | 962,027 | 972,074 | 983,479 | 999,129 |
| | Mixed Coverage | 45,762 | 46,961 | 51,659 | 49,068 | 51,912 | 50,871 |
| QMB-Only | Total | 8,926 | 9,590 | 9,744 | 9,675 | 11,635 | 11,635 |
| | Managed Care | 3,598 | 3,641 | 3,591 | 3,617 | 4,131 | 4,131 |
| | Fee-for-Service | 4,791 | 5,428 | 5,613 | 5,569 | 6,844 | 6,844 |
| | Mixed Coverage | 533 | 518 | 535 | 489 | 660 | 660 |
| Partial | Total | 14,005 | 17,913 | 19,885 | 21,848 | 23,778 | 23,778 |
| | Managed Care | 8,312 | 9,668 | 10,184 | 11,250 | 11,598 | 11,598 |
| | Fee-for-Service | 4,854 | 7,394 | 8,586 | 9,393 | 10,854 | 10,854 |
| | Mixed Coverage | 838 | 851 | 1,115 | 1,205 | 1,325 | 1,325 |
| Medicare-Only | Total | 3,414,144 | 3,492,639 | 3,582,675 | 3,681,778 | 3,781,339 | 3,921,129 |
| | Managed Care | 1,257,606 | 1,304,178 | 1,353,476 | 1,411,559 | 1,470,478 | 1,541,129 |
| | Fee-for-Service | 2,057,646 | 2,108,388 | 2,154,857 | 2,197,804 | 2,232,427 | 2,311,129 |
| | Mixed Coverage | 98,781 | 79,587 | 73,233 | 71,528 | 77,826 | 68,871 |
| Coverage Type | Medicaid Coverage Type | | | | | | |
| Duals | Total | 1,130,985 | 1,156,426 | 1,190,968 | 1,220,792 | 1,249,209 | 1,291,129 |

Appendix B: List of all MMLEADS Variables

Exhibit 25 is a list of all of the MMLEADS Version 2.0 Public Use File variables. The Methodological Overview User Guide is available here: https://www.cms.gov/Medicare-Medicaid-Coordination/Medicare-and-Medicaid-Coordination/Medicare-Medicaid-Coordination-Office/Downloads/MMLEADS_PUF_UserGuide_MethodologicalOverview_042017.pdf.

Exhibit 25. Categories and Variable Names in the MMLEADS PUF File, 2006-2012

| Categories | Variable Names |
|-------------------------------|--|
| Denominators | Number of People |
| | Number of People with FFS |
| | Number of Females with FFS |
| | Number of Males with FFS |
| Demographic Characteristics | Percent with all 12 months in FFS Medicaid |
| | Percent with all 12 months in FFS Medicare |
| | Percent with all 12 months with Medicare Part D coverage |
| | Percent under 40 Years |
| | Percent between 40-64 Years |
| | Percent between 65-84 Years |
| | Percent 85+ Years |
| | Percent under 65 Years |
| | Percent 65+ Years |
| | Percent Female |
| | Percent Male |
| | Percent Non-Hispanic White |
| | Percent African American |
| | Percent Hispanic |
| | Percent Asian or Pacific Islander |
| | Percent American Indian or Alaska Native |
| Percent Other or Unknown Race | |

| Categories | Variable Names |
|--|--|
| Medicare Enrollment Variables | Percent of Medicare beneficiaries with benefits due to Old Age or Survivor's Insurance |
| | Percent of Medicare beneficiaries with benefits due to Disability Insurance |
| | Percent of Medicare beneficiaries with benefits due to ESRD with or without Disability Insurance |
| Medicaid Enrollment Variables | Percent of Medicaid enrollees with Maintenance Assistance Status (MAS) - Receiving Cash or Section 1931 |
| | Percent of Medicaid enrollees with MAS - Medically Needy |
| | Percent of Medicaid enrollees with MAS - Poverty Related |
| | Percent of Medicaid enrollees with MAS - 1115(a) Demonstration Expansion |
| | Percent of Medicaid enrollees with MAS - unclassified or unknown |
| | Percent of Medicaid enrollees with Basis of Eligibility (BOE) - Aged |
| | Percent of Medicaid enrollees with BOE - Blind/Disabled |
| | Percent of Medicaid enrollees with BOE - Child |
| | Percent of Medicaid enrollees with BOE - Adult |
| | Percent of Medicaid enrollees with BOE - Breast and Cervical Cancer Prevention Act |
| | Percent of Medicaid enrollees with BOE - Other/Unknown |
| Chronic Condition Period Prevalence | Percent of FFS people with acquired hypothyroidism |
| | Percent of FFS people who have had a heart attack |
| | Percent of FFS people with Alzheimer's disease |
| | Percent of FFS people with Alzheimer's and related disorders |
| | Percent of FFS people with anemia |
| | Percent of FFS people with asthma |
| | Percent of FFS people with atrial fibrillation |
| | Percent of FFS people with cataracts |
| | Percent of FFS people with chronic kidney disease |
| | Percent of FFS people with chronic obstructive pulmonary disease |
| | Percent of FFS people with heart failure |
| | Percent of FFS people with diabetes |
| | Percent of FFS people with glaucoma |
| | Percent of FFS people with a hip fracture |

| Categories | Variable Names |
|---|---|
| Chronic Condition Period Prevalence | Percent of FFS people with high cholesterol |
| | Percent of FFS people with hypertension |
| | Percent of FFS people with ischemic heart disease |
| | Percent of FFS people with osteoporosis |
| | Percent of FFS people with arthritis |
| | Percent of FFS people with stroke or TIA |
| | Percent of FFS females with breast cancer |
| | Percent of FFS people with colorectal cancer |
| | Percent of FFS females with endometrial cancer |
| | Percent of FFS people with lung cancer |
| | Percent of FFS males with prostate cancer |
| | Percent of FFS males with benign prostatic hyperplasia |
| | Percent of FFS people with depression (any instance including bipolar episodes) |
| Other Chronic or Potentially Disabling Condition Period Prevalence | Percent of FFS people with Major Depressive Disorders |
| | Percent of FFS people with ADHD or other conduct disorders |
| | Percent of FFS people with anxiety |
| | Percent of FFS people with bipolar disorder |
| | Percent of FFS people with personality disorders |
| | Percent of FFS people with post-traumatic stress disorder |
| | Percent of FFS people with schizophrenia |
| | Percent of FFS people with schizophrenia or other psychotic disorders |
| | Percent of FFS people with tobacco use disorder |
| | Percent of FFS people with autism |
| | Percent of FFS people with cerebral palsy |
| | Percent of FFS people with cystic fibrosis or other metabolic developmental disorders |
| | Percent of FFS people with epilepsy |
| | Percent of FFS people with intellectual disabilities |
| | Percent of FFS people with learning disabilities |
| Percent of FFS people with mobility impairments | |

| Categories | Variable Names |
|---|--|
| Other Chronic or Potentially Disabling Condition Period Prevalence | Percent of FFS people with multiple sclerosis and transverse myelitis |
| | Percent of FFS people with muscular dystrophy |
| | Percent of FFS people with deafness or other hearing impairment |
| | Percent of FFS people with blindness or other visual impairment |
| | Percent of FFS people with spina bifida or other congenital anomalies |
| | Percent of FFS people with a history of spinal cord injury |
| | Percent of FFS people with a history of traumatic brain injury |
| | Percent of FFS people with alcohol use disorder |
| | Percent of FFS people with drug use disorder |
| | Percent of FFS people with fibromyalgia or chronic pain |
| | Percent of FFS people with hepatitis a |
| | Percent of FFS people with hepatitis b (acute or unspecified) |
| | Percent of FFS people with hepatitis b (chronic) |
| | Percent of FFS people with hepatitis c (acute) |
| | Percent of FFS people with hepatitis c (chronic) |
| | Percent of FFS people with hepatitis c (unspecified) |
| | Percent of FFS people with hepatitis d |
| | Percent of FFS people with hepatitis e |
| | Percent of FFS people with viral hepatitis (general) |
| | Percent of FFS people with HIV/AIDS |
| | Percent of FFS people with leukemia or lymphoma |
| | Percent of FFS people with liver disease, cirrhosis, or other liver condition |
| | Percent of FFS people with migraines or other chronic headaches |
| Percent of FFS people with obesity | |
| Percent of FFS people with pressure ulcers or chronic ulcers | |
| Percent of FFS people with peripheral vascular disease | |
| Utilization: Medicare and Medicaid Combined | Count of FFS Acute IP Hospital Days - Medicare and Medicaid combined |
| | Count of FFS Acute IP Hospital Admissions - Medicare and Medicaid combined |
| | Total FFS dollars (Medicare and Medicaid) associated with IP hospital admissions |

| Categories | Variable Names |
|---|---|
| Utilization: Medicare and Medicaid Combined | Count of FFS Acute IP Hospital 30-day Readmissions - Medicare and Medicaid combined |
| | FFS Readmission Rate (% of admissions that are readmissions) |
| | Count of FFS ED Visits - Medicare and Medicaid combined |
| | ED Visits per 1,000 FFS enrollees |
| | Percent of FFS people with at least one Medicare or Medicaid Nursing Facility or non-Facility-based Long-term Care Service (claim or assessment) |
| | Percent of people with at least one Medicare or Medicaid Residential Mental Health service |
| | Percent of people with at least one Medicare or Medicaid Community Mental Health service |
| Medicare Service: Utilization | Number of FFS people who used Medicare IP Hospital services |
| | Number of FFS people who used Medicare Other IP Hospital services |
| | Number of FFS people who used Medicare Other facility-based post-acute care services |
| | Number of FFS people who used Medicare SNF services |
| | Number of FFS people who used Medicare home health services |
| | Number of FFS people who used Medicare hospice services |
| | Number of FFS people who used Medicare hospital outpatient services |
| | Number of FFS people who used Medicare ESRD facility services |
| | Number of FFS people who used Medicare RHC/FQHC clinic services |
| | Number of FFS people who used Medicare outpatient therapy services |
| | Number of FFS people who used Medicare Community Mental Health Clinic services |
| | Number of FFS people who used Medicare ambulatory surgical center services |
| | Number of FFS people who used Medicare Part B drugs |
| | Number of FFS people who used Medicare physician evaluation & management services |
| | Number of FFS people who used Medicare procedures |
| | Number of FFS people who used Medicare imaging services |
| | Number of FFS people who used Medicare laboratory/testing services |
| | Number of FFS people who used Medicare durable medical equipment |
| | Number of FFS people who used Medicare Other Part B services |
| | Number of people who used Medicare Part D prescription drugs |
| Number of people who were enrolled in Medicare managed care Part A or Part B | |

| Categories | Variable Names |
|---|---|
| Medicare Service: Payments | Total Medicare payments |
| | Total Medicare IP Hospital FFS payments |
| | Total Medicare Other IP Hospital FFS payments |
| | Total Medicare Other facility-based post-acute care FFS payments |
| | Total Medicare SNF FFS payments |
| | Total Medicare home health FFS payments |
| | Total Medicare hospice FFS payments |
| | Total Medicare hospital outpatient FFS payments |
| | Total Medicare ESRD facility FFS payments |
| | Total Medicare RHC/FQHC clinic FFS payments |
| | Total Medicare Outpatient Therapy FFS Payments |
| | Total Medicare Community Mental Health Clinic FFS Payments |
| | Total Medicare ambulatory surgical center FFS payments |
| | Total Medicare Part B drug FFS payments |
| | Total Medicare physician evaluation & management FFS payments |
| | Total Medicare procedure FFS payments |
| | Total Medicare imaging FFS payments |
| | Total Medicare laboratory/testing FFS payments |
| | Total Medicare durable medical equipment FFS payments |
| | Total Medicare Other Part B FFS payments |
| | Total Medicare Part D prescription drug FFS costs (total RX cost) |
| Total Part A Medicare Advantage payments | |
| Total Part B Medicare Advantage payments | |
| Medicaid Service: Utilization | Number of people who used Medicaid waiver services (across all types of service) |
| | Number of people who used Medicaid non-waiver services (across all types of service) |
| | Number of FFS people who used Medicaid IP Hospital services |
| | Number of FFS people who used Medicaid mental health services |
| | Number of FFS people who used Medicaid intermediate care facility services |
| | Number of FFS people who used Medicaid nursing facility services |

| Categories | Variable Names |
|--------------------------------------|---|
| Medicaid Service: Utilization | Number of FFS people who used Medicaid home health services |
| | Number of FFS people who used Medicaid hospice services |
| | Number of FFS people who used Medicaid hospital outpatient services |
| | Number of FFS people who used Medicaid physician services |
| | Number of FFS people who used Medicaid lab/x-ray services |
| | Number of FFS people who used Medicaid durable medical equipment services |
| | Number of FFS people who used Medicaid drugs |
| | Number of FFS people who used Medicaid personal care services |
| | Number of FFS people who used Medicaid targeted case management services |
| | Number of FFS people who used Medicaid clinic services |
| | Number of FFS people who used Medicaid dental services |
| | Number of FFS people who used Medicaid transportation services |
| | Number of FFS people who used Medicaid other services |
| | Number of people who used Medicaid managed care services |
| Medicaid Service: Payments | Total Medicaid FFS payments |
| | Total waiver FFS payments (across all types of service) |
| | Total Medicaid non-waiver FFS payments (across all types of service) |
| | Total Medicaid IP Hospital FFS payments |
| | Total Medicaid mental health FFS payments |
| | Total Medicaid intermediate care facility FFS payments |
| | Total Medicaid nursing facility FFS payments |
| | Total Medicaid home health FFS payments |
| | Total Medicaid hospice FFS payments |
| | Total Medicaid hospital outpatient FFS payments |
| | Total Medicaid physician FFS payments |
| | Total Medicaid lab/x-ray FFS payments |
| | Total Medicaid durable medical equipment FFS payments |
| | Total Medicaid drug FFS payments |
| | Total Medicaid personal care payments |

| Categories | Variable Names |
|-------------------------------|--|
| Medicaid Service: Payments | Total Medicaid targeted case management payments |
| | Total Medicaid clinic payments |
| | Total Medicaid dental payments |
| | Total Medicaid transportation service payments |
| | Total Medicaid other service payments |
| | Total Medicaid managed care payments |
| Other Medicaid Use Categories | Percent of Medicaid enrollees with Home and Community Based Services waiver payments |
| | Percent of Medicaid enrollees without Home and Community Based Services waiver payments |
| | Percent with Medicaid non facility-based long term care services (home health or Personal Care Services) |

ABOUT THE INTEGRATED CARE RESOURCE CENTER

The ***Integrated Care Resource Center*** is a national initiative of the Centers for Medicare & Medicaid Services Medicare-Medicaid Coordination Office to help states improve the quality and cost-effectiveness of care for Medicare-Medicaid enrollees. The state technical assistance activities provided by the ***Integrated Care Resource Center*** are coordinated by [Mathematica Policy Research](#) and the [Center for Health Care Strategies](#). For more information, visit www.integratedcareresourcecenter.com.