



The Hilltop Institute

analysis to advance the health of vulnerable populations

The Maryland Medicaid Dental Program: CY 2012 to CY 2016

A Chart Book

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Maryland Department of Health*



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Chapter 1. Overview of the Maryland Medicaid Dental Program

Chapter 1. Overview of the Maryland Medicaid Dental Program

Maryland Medicaid Dental Program

The *Maryland Medicaid Dental Program Chart Book* outlines the demographics and service utilization for individuals enrolled in the Maryland Medicaid Dental Program. This chart book provides information about program participants who received services in calendar years (CYs) 2012 through 2016.

Program Eligibility

The Maryland Medicaid program covers dental benefits for children aged 20 and younger under EPSDT, pregnant women and Rare and Expensive Case Management (REM) adult populations. Individuals who qualify for dental services include those enrolled in Medicaid fee-for-service (FFS) or a HealthChoice managed care organization (MCO). Non-pregnant adults may receive dental benefits provided as an additional benefit of their MCO. As of March 2018, all 9 MCOs voluntarily cover limited adult dental services to their members as a part of their benefit package using their own profits. Typically, an oral exam and cleanings 2x/year; x-rays and extractions; and fillings. The study population excludes participants who are not eligible for the dental benefit, including the following:

- Primary Adult Care (PAC) program participants (2012-2013)
- Undocumented immigrants
- Family Planning Program participants

Key Findings

Maryland Medicaid Dental Program Participants' Service Utilization by Children

- Rates of dental visits increased across all age groups of children aged 0 to 20 who were enrolled in Medicaid between CY 2012 and CY 2016.
- Among participants aged 4 to 20, the Washington Suburban region had the highest dental utilization rate in CY 2016.
- Less than 1% of children aged 0 to 20 years had ED visits with a dental diagnosis or procedure in CY 2016.
- Enrollees aged 6 to 9 years demonstrated the highest rates of preventive/diagnostic dental visits in CY 2016, while enrollees aged 19 to 20 demonstrated the lowest utilization rates of all dental services, including diagnostic and preventive services, throughout the evaluation period.

Maryland Medicaid Dental Program Participants' Service Utilization by Pregnant Women and Adults

The percentage of pregnant women aged 14 years or older who had dental visits decreased from 30.7% in CY 2012 to 25.9% in CY 2016. The percentage of pregnant women aged 21 years or older who had dental visits decreased from 30.1% in CY 2012 to 26.1% in CY 2016.

The percentage of non-pregnant adults (adults aged 21 to 64) with 90 or more days in HealthChoice who received dental services decreased from CY 2012 to CY 2016. Non-pregnant adults aged 21 to 39 had a higher percentage of at least one dental visit than the age group of 40 to 64.

Chapter 1. Overview of the Maryland Medicaid Dental Program continued

Chart Book Organization

The data in this chart book are presented in five sections:

Dental Visits for Children: This section includes data on children enrolled in FFS Medicaid or a full-benefit HealthChoice MCO who received Medicaid dental services during each calendar year.

ED Visits with Dental Diagnoses/Procedures for Children: This section includes data on children aged 0 to 20 enrolled in Medicaid who had a dental diagnosis or procedure during an ED visit for any period during the measurement year.

Dental Visits for Pregnant Women: This section includes data on pregnant women aged 14 years and older—and pregnant women aged 21 years and older—who utilized Medicaid dental services.

Dental Visits for Non-Pregnant Adults: This section includes data on non-pregnant adults (aged 21 through 64 years) who were enrolled in a HealthChoice MCO for at least 90 days during the calendar year and had at least one dental visit or received dental services.

Dental Providers and Access: This section includes data on dental providers participating in Medicaid by region who have billed one or more services, or have billed \$10,000 or more for services.

Data Sources

The information in this chart book was derived from Medicaid FFS claims and HealthChoice MCO encounter data that were updated as of June 2016.

Dental-related ED visits were identified using the International Classification of Diseases-9th edition-Clinical Modification, (ICD-9-CM) diagnosis; International Classification of Diseases-10th edition-Clinical Modification (ICD-10-CM) diagnosis; and Current Procedural Terminology (CPT) codes.

Chapter 2.

Dental Visits for Children

Figure 1. Number of Children Aged 4–20 Years Enrolled in Medicaid* for at Least 320 Days Receiving Dental Services, CY 2012–CY 2016

| Year | Total Number of Enrollees | Enrollees Receiving One or More Dental Services | Percentage Receiving Service |
|---------|---------------------------|---|------------------------------|
| CY 2012 | 385,132 | 261,077 | 67.8% |
| CY 2013 | 405,873 | 277,272 | 68.3% |
| CY 2014 | 423,625 | 286,713 | 67.7% |
| CY 2015 | 404,118 | 278,796 | 69.0% |
| CY 2016 | 440,100 | 301,367 | 68.5% |

Overall, the rate of children aged 4 to 20 years enrolled in Medicaid for at least 320 days receiving dental services increased by .7% between CY 2012 and CY 2016.

*The study population for CY 2012 through CY 2016 measured dental utilization for all qualifying individuals in Maryland’s Medical Assistance program, including FFS and HealthChoice MCO enrollees. The study population excludes participants who are not eligible for the dental benefit, including undocumented immigrants, those enrolled in the Women’s Breast and Cervical Cancer Health Program, those enrolled in the Family Planning program, and those enrolled in the Primary Adult Care program. Non-pregnant dental benefit is optional and could be rescinded by the MCO’s discretion.

Figure 2. Number of Children Aged 0-20 Years Enrolled in Medicaid* for Any Period, CY 2012–2016

| Age Group | CY 2012 | CY 2013 | CY 2014 | CY 2015 | CY 2016 |
|------------|----------------|----------------|----------------|----------------|----------------|
| 0–3 | 155,338 | 154,298 | 158,683 | 158,166 | 156,936 |
| 4–5 | 77,300 | 78,016 | 78,914 | 75,907 | 73,610 |
| 6–9 | 131,709 | 140,127 | 153,213 | 154,389 | 150,612 |
| 10–14 | 140,708 | 146,197 | 156,994 | 158,609 | 160,418 |
| 15–18 | 98,641 | 101,181 | 111,178 | 113,844 | 112,581 |
| 19–20 | 41,866 | 42,053 | 48,396 | 48,754 | 47,948 |
| All | 645,562 | 661,872 | 706,378 | 709,669 | 702,105 |

The total number of children aged 0 to 20 years enrolled in Medicaid for any period increased steadily between CY 2012 and CY 2015, but decreased between CY 2015 and CY 2016.

*See footnote from Figure 1.

Figure 3. Percentage of Children Aged 0–20 Years Enrolled in Medicaid* for Any Period who Had at Least One Dental Visit by Age Group, CY 2012–CY 2016

| Age Group | CY 2012 | CY 2013 | CY 2014 | CY 2015 | CY 2016 |
|------------|--------------|--------------|--------------|--------------|--------------|
| 0–3 | 27.9% | 29.8% | 29.8% | 28.9% | 30.0% |
| 4–5 | 64.8% | 65.8% | 65.2% | 64.7% | 66.3% |
| 6–9 | 67.8% | 68.9% | 68.0% | 68.0% | 69.1% |
| 10–14 | 62.9% | 63.4% | 62.1% | 62.8% | 64.7% |
| 15–18 | 52.4% | 53.2% | 51.3% | 51.6% | 54.3% |
| 19–20 | 35.1% | 35.8% | 34.3% | 34.0% | 36.7% |
| All | 52.3% | 53.7% | 52.9% | 52.8% | 54.5% |

Overall, the percentage of children aged 0 to 20 enrolled in Medicaid for any period who had at least one dental visit increased across all age groups between CY 2012 and CY 2016.

*See footnote from Figure 1.

Figure 4. Number and Percentage of Children Aged 4-20 Years Enrolled in Medicaid* for 320 Days who had Dental Services in CY 2016, by Region¹

| Region | Number of Enrollees | Number with at Least One Visit | Percentage with Dental Visits |
|---------------------|---------------------|--------------------------------|-------------------------------|
| Baltimore City | 74,314 | 48,025 | 64.6% |
| Baltimore Suburban | 125,986 | 83,986 | 66.7% |
| Eastern Shore | 41,911 | 28,658 | 68.4% |
| Out of State | 324 | 164 | 50.6% |
| Southern Maryland | 20,948 | 12,523 | 59.8% |
| Washington Suburban | 141,188 | 103,908 | 73.6% |
| Western Maryland | 35,429 | 24,103 | 68.0% |
| Total | 440,100 | 301,367 | 68.5% |

Children aged 4 to 20 in different regions of Maryland showed slight variance in their utilization of dental services. Out-of-state participants had the lowest utilization rate at 50.6%, while Washington Suburban participants had the highest utilization rate at 73.6%.

*See footnote from Figure 1.

¹ Baltimore City: Baltimore City; Baltimore Suburban: Anne Arundel, Baltimore County, Carroll, Harford, and Howard Counties; Southern Maryland: Calvert, Charles, and St. Mary's Counties; Western Maryland: Allegany, Frederick, Garrett, and Washington Counties; Eastern Shore: Caroline, Cecil, Dorchester, Kent, Queen Anne's, Somerset, Talbot, Wicomico, and Worcester Counties; Washington Suburban: Montgomery and Prince George's Counties; and Out of State: outside of Maryland

Chapter 3. ED Visits with Dental Diagnoses/ Procedures for Children

Figure 5. Number of ED Visits with a Dental Diagnosis or Procedure by Children Aged 0–20 Years Enrolled in Medicaid* for any Period, CY 2012–CY 2016

| Year | Total Number of Enrollees | Number of Enrollees who had an ED Visit with a Dental Diagnosis or Procedure | Percentage of Enrollees who had an ED Visit with a Dental Diagnosis or Procedure | Number of ED Visits with a Dental Diagnosis or Procedures |
|---------|---------------------------|--|--|---|
| CY 2012 | 645,562 | 2,899 | 0.4% | 5,699 |
| CY 2013 | 661,872 | 2,815 | 0.4% | 5,464 |
| CY 2014 | 706,378 | 2,806 | 0.4% | 5,337 |
| CY 2015 | 709,669 | 2,642 | 0.4% | 5,547 |
| CY 2016 | 702,105 | 2,741 | 0.4% | 5,090 |

*See footnote from Figure 1.

The number of ED visits with a dental diagnosis by children aged 0 to 20 years enrolled in Medicaid for any period experienced little variation throughout the evaluation period.

Of children aged 0 to 20 years enrolled in Medicaid, 0.4% had ED visits with a dental diagnosis or procedure. This percentage remained consistent from CY 2012 to CY 2016.

Figure 6. Percentage of Children Aged 0–20 Years Enrolled in Medicaid* for Any Period who Received a Preventive/Diagnostic Visit followed by a Restorative Visit, CY 2012–2016

| Year | Total Number of Enrollees | Number with Preventive/Diagnostic Visit | Percentage with Preventive/Diagnostic Visit | Number with Preventive/Diagnostic Visit Followed by a Restorative Visit | Percentage with Preventive/Diagnostic Visit Followed by a Restorative Visit |
|---------|---------------------------|---|---|---|---|
| CY 2012 | 645,562 | 331,496 | 51.3% | 102,028 | 30.8% |
| CY 2013 | 661,872 | 349,864 | 52.9% | 106,862 | 30.5% |
| CY 2014 | 706,378 | 367,908 | 52.1% | 107,595 | 29.2% |
| CY 2015 | 709,669 | 369,645 | 52.1% | 109,614 | 29.7% |
| CY 2016 | 702,105 | 377,058 | 53.7% | 109,048 | 28.9% |

The percentage of children aged 0 to 20 years enrolled in Medicaid for any period who received a preventive/diagnostic visit increased overall but decreased when followed by a restorative visit.

*See footnote from Figure 1.

Figure 7. Percentage of Children Aged 4–20 Years Enrolled in Medicaid* for at Least 320 Days Receiving Dental Services, by Type of Service, CY 2012–CY 2016

| Year | Diagnostic | Preventive | Restorative |
|---------|------------|------------|-------------|
| CY 2012 | 66.0% | 62.5% | 24.3% |
| CY 2013 | 66.8% | 63.2% | 24.4% |
| CY 2014 | 66.2% | 62.6% | 23.2% |
| CY 2015 | 67.6% | 64.0% | 24.0% |
| CY 2016 | 67.0% | 63.4% | 23.2% |

*See footnote from Figure 1.

Across all calendar years, diagnostic services were the most utilized type of dental service received by children aged 4 to 20 enrolled in Medicaid. Restorative services were the least utilized.

Figure 8. Number and Percentage of Children Aged 4–20 Years Enrolled in Medicaid* for 320 Days Who had Dental Visits in CY 2016, by Age Group and Type of Service

| Age Group | Number of Enrollees | Number with at Least One Visit | Percentage with Dental Visits | Number with Diagnostic Service | Percentage with Diagnostic Service | Number with Preventive Service | Percentage with Preventive Service | Number with Restorative Service | Percentage with Restorative Service |
|--------------|---------------------|--------------------------------|-------------------------------|--------------------------------|------------------------------------|--------------------------------|------------------------------------|---------------------------------|-------------------------------------|
| 4 – 5 | 59,861 | 43,817 | 73.2% | 43,401 | 72.5% | 41,059 | 68.6% | 12,149 | 20.3% |
| 6 – 9 | 123,904 | 93,940 | 75.8% | 92,745 | 74.9% | 88,209 | 71.2% | 33,984 | 27.4% |
| 10 – 14 | 132,158 | 94,124 | 71.2% | 92,154 | 69.7% | 88,041 | 66.6% | 29,851 | 22.6% |
| 15 – 18 | 90,367 | 55,013 | 60.9% | 52,829 | 58.5% | 49,290 | 54.5% | 20,264 | 22.4% |
| 19 – 20 | 33,810 | 14,473 | 42.8% | 13,856 | 41.0% | 12,211 | 36.1% | 5,711 | 16.9% |
| Total | 440,100 | 301,367 | 68.5% | 294,985 | 67.0% | 278,810 | 63.4% | 101,959 | 23.2% |

*See footnote from Figure 1.

Children aged 6 to 9 years had the highest percentage of utilization for both diagnostic and preventive services. Children aged 19 to 20 demonstrated the lowest utilization rates of all dental services throughout the evaluation period.

Figure 9. Number and Percentage of Children Aged 0–20 Years Enrolled for Any Period in Medicaid* who had Preventive/Diagnostic Visits followed by Restorative Visits in CY 2016, by Age Group

| Age Group | Number of Enrollees | Number with Preventive/Diagnostic Visit | Percentage with Preventive/Diagnostic Visit | Number with Preventive/Diagnostic Service Followed by Restorative Service | Percentage with Preventive/Diagnostic Service Followed by Restorative Service |
|--------------|---------------------|---|---|---|---|
| 0 – 3 | 156,936 | 46,989 | 29.9% | 3,566 | 7.6% |
| 4 – 5 | 73,610 | 48,599 | 66.0% | 12,682 | 26.1% |
| 6 – 9 | 150,612 | 103,348 | 68.6% | 34,985 | 33.9% |
| 10 – 14 | 160,418 | 102,219 | 63.7% | 30,726 | 30.1% |
| 15 – 18 | 112,581 | 58,964 | 52.4% | 20,719 | 35.1% |
| 19 – 20 | 47,948 | 16,939 | 35.3% | 6,370 | 37.6% |
| Total | 702,105 | 377,058 | 53.7% | 109,048 | 28.9% |

The percentage of children who received a follow-up restorative service after a preventive or diagnostic visit varied across age groups.

*See footnote from Figure 1.

Chapter 4. Dental Visits for Pregnant Women

Figure 10. Number and Percentage of Pregnant Women Aged 14+ Years Enrolled in Medicaid* for Any Period who had Dental Visits, CY 2012–CY 2016

| Year | Total Number of Enrollees | Number of Enrollees with at Least One Visit | Percentage with Dental Visits |
|---------|---------------------------|---|-------------------------------|
| CY 2012 | 27,092 | 8,330 | 30.7% |
| CY 2013 | 27,158 | 7,639 | 28.1% |
| CY 2014 | 30,743 | 8,228 | 26.8% |
| CY 2015 | 32,015 | 8,732 | 27.3% |
| CY 2016 | 34,275 | 8,883 | 25.9% |

*See footnote from Figure 1.

The percentage of pregnant women aged 14 or older enrolled in Medicaid with at least one dental visit varied during the evaluation period, with an overall decline of 4.8%.

Just over a quarter of pregnant women aged 14 or older enrolled in Medicaid had a dental visit in CY 2016.

Figure 11. Number and Percentage of Pregnant Women Aged 21+ Years with at Least 90 Days in Medicaid* who had Dental Services, CY 2012–CY 2016

| Year | Total Number of Enrollees | Number of Enrollees with at Least One Visit | Percentage with Dental Visits |
|---------|---------------------------|---|-------------------------------|
| CY 2012 | 21,708 | 6,537 | 30.1% |
| CY 2013 | 22,286 | 6,113 | 27.4% |
| CY 2014 | 25,408 | 6,858 | 27.0% |
| CY 2015 | 26,795 | 7,324 | 27.3% |
| CY 2016 | 29,014 | 7,562 | 26.1% |

*See footnote from Figure 1.

Although the total number of pregnant enrollees aged 21 years or older increased between CY 2012 and CY 2016, the rate at which these enrollees received dental visits declined by 4% during the evaluation period.

More than a quarter of pregnant women aged 21 years or older who had been enrolled in Medicaid for at least 90 days utilized dental services in CY 2016.

Chapter 5. Dental Visits for Non-Pregnant Adults

Figure 12. Percentage of Non-Pregnant Adults Aged 21–64 Years with 90+ Days in HealthChoice* who Received Dental Services, CY 2012–CY 2016

| Year | Total Number of Enrollees | Enrollees Receiving One or More Dental Services | Percentage Receiving Service |
|---------|---------------------------|---|------------------------------|
| CY 2012 | 236,205 | 51,619 | 21.9% |
| CY 2013 | 248,524 | 33,093 | 13.3% |
| CY 2014 | 486,025 | 65,671 | 13.5% |
| CY 2015 | 533,689 | 72,556 | 13.6% |
| CY 2016 | 521,954 | 72,318 | 13.9% |

*See footnote from Figure 1.

Overall, the percentage of non-pregnant adults receiving dental services decreased by 8% between CY 2012 and CY 2016.

Figure 13. Number and Percentage of Non-Pregnant Adults Aged 21–64 Years with 90+ Days in HealthChoice* who had at Least One Dental Visit in CY 2016, by Age Group

| Age Group | Number of Enrollees | Number with at Least One Visit | Percentage with Dental Visits |
|--------------|---------------------|--------------------------------|-------------------------------|
| 21 - 39 | 282,087 | 41,870 | 14.8% |
| 40 - 64 | 239,867 | 30,448 | 12.7% |
| Total | 521,954 | 72,318 | 13.9% |

Non-pregnant adults aged 21 to 39 years had a slightly higher percentage of dental visits than those aged 40 to 64 years.

*See footnote from Figure 1.

Chapter 6.

Dental Providers and Access

Figure 14. Number of Dentists Participating in Medicaid Who Billed One or More Services, by Region

| Region* | CY 2012 | CY 2013 | CY 2014 | CY 2015 | CY 2016 |
|--|--------------|--------------|--------------|--------------|--------------|
| Baltimore Metro | 465 | 471 | 490 | 536 | 538 |
| Montgomery/ Prince George's Co. | 451 | 462 | 525 | 564 | 567 |
| Southern Maryland | 52 | 48 | 55 | 54 | 60 |
| Western Maryland | 126 | 124 | 117 | 128 | 122 |
| Eastern Shore | 72 | 84 | 84 | 89 | 86 |
| Other | 125 | 161 | 179 | 182 | 167 |
| Total** | 1,291 | 1,350 | 1,450 | 1,464 | 1,540 |
| Unique Total*** | 1,220 | 1,258 | 1,361 | 1,470 | 1,467 |

*Baltimore Metro includes Baltimore City and Anne Arundel, Baltimore, Carroll, Harford, and Howard Counties. Southern Maryland includes Calvert, Charles, and St. Mary's Counties. Western Maryland includes Allegany, Frederick, Garrett, and Washington Counties. The Eastern Shore includes Caroline, Cecil, Dorchester, Kent, Queen Anne's, Somerset, Talbot, Wicomico, and Worcester Counties.

** Please note that the total is the sum of all regions.

*** Please note that the unique total does not equal the sum of all regions because an individual dentist may have offices in multiple regions. The unique total reflects the number of unique dentists unduplicated statewide. This unique total also includes out-of-state dentists who served Maryland Medicaid enrollees.

Overall, there was an increase in the number of dentists participating in Medicaid who billed one or more services between CY 2012 and CY 2016. Western Maryland was the only region to experience a decline.

Figure 15. Number of Dentists Participating in Medicaid Who Billed \$10,000 or More for Services, by Region

| Region* | CY 2012 | CY 2013 | CY 2014 | CY 2015 | CY 2016 |
|------------------------------------|------------|------------|--------------|--------------|--------------|
| Baltimore Metro | 367 | 354 | 392 | 422 | 434 |
| Montgomery/ Prince George's Co. | 319 | 343 | 417 | 434 | 450 |
| Southern Maryland | 40 | 39 | 45 | 44 | 44 |
| Western Maryland | 103 | 94 | 96 | 101 | 98 |
| Eastern Shore | 60 | 70 | 71 | 73 | 73 |
| Other | 51 | 57 | 70 | 136 | 63 |
| Total** | 940 | 957 | 1,091 | 1,137 | 1,089 |
| Unique Total*** | 908 | 938 | 1,047 | 1,092 | 1,115 |

Overall, there was an increase in the number of dentists participating in Medicaid who billed at least \$10,000 for services. Western Maryland was the only region to experience a decrease.

*Baltimore Metro includes Baltimore City and Anne Arundel, Baltimore, Carroll, Harford, and Howard Counties. Southern Maryland includes Calvert, Charles, and St. Mary's Counties. Western Maryland includes Allegany, Frederick, Garrett, and Washington Counties. The Eastern Shore includes Caroline, Cecil, Dorchester, Kent, Queen Anne's, Somerset, Talbot, Wicomico, and Worcester Counties.

** Please note that the total is the sum of all regions.

*** Please note that the unique total does not equal the sum of all regions because an individual dentist may have offices in multiple regions. The unique total reflects the number of unique dentists unduplicated statewide. This unique total also includes out-of-state dentists who served Maryland Medicaid enrollees.

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