# State Medicaid Coverage of Adult Dental Benefits

<table>
<thead>
<tr>
<th>Dental Benefits Category</th>
<th>Offered to Medicaid Base Population</th>
<th>Offered to Medicaid Expansion Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>No dental benefits</td>
<td>3 states: AL, DE, TN</td>
<td>2 states: DE, ND</td>
</tr>
<tr>
<td>Emergency-Only</td>
<td>14 states: AZ, FL, GA, HI, ID, ME, MD, MS, NV, NH, OK, TX, UT, WV</td>
<td>6 states: AZ, HI, MD, NV, NH, WV</td>
</tr>
<tr>
<td>Limited</td>
<td>17 states: AR, CO, IL, IN, KS, KY, LA, MI, MN, MO, NE, PA, SC, SD, VT, VA, WY</td>
<td>10 states: AR, CO, IL, IN, KY, LA, MI, MN, PA, VT</td>
</tr>
<tr>
<td>Extensive</td>
<td>17 states: AK, CA, CT, DC, IA, MA, MT, NJ, NM, NY, NC, ND, OH, OR, RI, WA, WI</td>
<td>14 states: AK, CA, CT, DC, IA, MA, MT, NJ, NM, NY, OH, OR, RI, WA</td>
</tr>
</tbody>
</table>

**Notes:** Bolded states expanded Medicaid eligibility under the ACA. DC is included as a state. North Dakota offers different categories of benefits to its Medicaid base vs. expansion populations. Idaho offers limited Medicaid dental benefits beyond emergency care to pregnant woman and adults with disabilities and/or other special health care needs. Maryland’s contracted managed care organizations provide a limited dental benefit to adult Medicaid beneficiaries who are enrolled in managed care.

Source: Center for Healthcare Strategies
MDAC Adult Oral Health Efforts to Achieve Success

- 2015: Survey of adult oral health in Maryland

- 2016: Cost analysis of expanding MD Medicaid to include adult dental benefits (The Hilltop Institute Report)

- 2017: Unanimous passage of SB 169 authorizing the inclusion of an adult dental benefit in Medicaid, which instructs MDAC to conduct a study of the cost of emergency department use by adults for chronic dental conditions

- Report was submitted by MDAC to the Maryland General Assembly on December 1, 2017
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The Problem
The Problem

The Cost of Health Care
How much are we spending?

$2.5 Trillion
spent in the U.S. on health care in 2009

The Cost of Health Care
How much is waste?

WASTE:
$765 Billion
30% of 2009 total health care spending

Unnecessary Services
$210 Billion

Excessive Administrative Costs
$190 Billion

Inefficiently Delivered Services
$130 Billion

Prices That Are Too High
$105 Billion

Missed Prevention Opportunities
$55 Billion

Fraud
$45 Billion
The report focused on ED visits and ED visits that result in Inpatient Admission for Adult (20+ years) Maryland Residents.
Deadly Toothaches

Between 2013 and 2016 in Maryland after visiting the ED or being admitted to the hospital for a Dental Condition

- 311 lost working years
- $13.8 million in lost productivity

15 adults died

National and State Perspective

2014 – All Ages

Rate Per 10,000 of Population

Proportion of All E.D. Visits

Maryland Dental Action Coalition
National and State Perspective

2014 – All Ages

<table>
<thead>
<tr>
<th>State</th>
<th>Medical Charge</th>
<th>Dental Charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>National</td>
<td>$897</td>
<td>$897</td>
</tr>
<tr>
<td>Maryland</td>
<td>$458</td>
<td>$1,000</td>
</tr>
<tr>
<td>New Jersey</td>
<td>$2,007</td>
<td>$2,007</td>
</tr>
<tr>
<td>New York</td>
<td>$1,150</td>
<td>$2,270</td>
</tr>
<tr>
<td>Kentucky</td>
<td>$1,031</td>
<td>$2,736</td>
</tr>
<tr>
<td>Florida</td>
<td>$1,349</td>
<td>$4,619</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>$1,010</td>
<td>$1,820</td>
</tr>
</tbody>
</table>

(2013)
Study Reports

County Summary Reports

Baltimore City

Hospital Visits for Dental Conditions in Maryland

Financial Impact of Emergency Department Visits by Adults for Dental Conditions in Maryland
Summary

Inpatient Admission

32,909
$18,780,742

9,418
$3,919,258

2016 TOTAL: $26,380,277

Average: $537

Emergency Department

Single ED:
$83,086,756
Repeat ED:
$16,451,244
Inpatient:
$18,658,353

Total:
$118,196,352

FY2013-FY2016
Rates and Total Charges for Dental ED Visits

<table>
<thead>
<tr>
<th>Rate Per 10,000 of Adult Population</th>
<th>Inflation Adjusted Total Charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY2013 119 79 $24,823,000</td>
<td>FY2014 116 84 $25,553,000</td>
</tr>
<tr>
<td>FY2015 110</td>
<td>FY2016 94 $26,462,000</td>
</tr>
</tbody>
</table>

- Maryland Rate
- National Rate
- Maryland Charge

Maryland Dental Action Coalition
Counties Rates For Dental ED Visits 2016

Rate of ED Visits Per 10K of Population:

- 31
- 294

Maryland Dental Action Coalition
Commonly Diagnosed Conditions

- 525.9 - Unspecified Disorder of the Teeth and Supporting Structures 46%
- 521.00 - Unspecified Dental Caries 29%
- 522.5 - Periapical Abscess Without Sinus 17%
- 522.4 - Acute Apical Periodontitis of Pulpal Origin 5%
- Other 4%
Payers of Dental ED Visits

<table>
<thead>
<tr>
<th>Year</th>
<th>Commercial Insurance</th>
<th>Medicaid</th>
<th>Medicare</th>
<th>Self-Pay (Uninsured)</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY2013</td>
<td>28% 14,484; $4,649,749</td>
<td>22%; 11,573; $3,969,823</td>
<td>17%; 8,176; $2,898,027</td>
<td>18%; 7,500; $2,848,839</td>
<td></td>
</tr>
<tr>
<td>FY2014</td>
<td>10% 5,296; $3,630,317</td>
<td>10%; 5,199; $3,952,235</td>
<td>11%; 5,217; $4,284,139</td>
<td>11%; 4,477; $3,778,897</td>
<td></td>
</tr>
<tr>
<td>FY2015</td>
<td>44% 22,949; $8,731,399</td>
<td>50%; 25,775; $10,100,000</td>
<td>54%; 26,552; $11,615,000</td>
<td>53%; 22,254; $9,927,085</td>
<td></td>
</tr>
<tr>
<td>FY2016</td>
<td>18% 9,398; $7,452,433</td>
<td>17% 8,883; $7,099,196</td>
<td>18% 8,768; $7,194,192</td>
<td>18% 7,421; $5,712,968</td>
<td></td>
</tr>
</tbody>
</table>
National Impact on Medicaid

2011
- Private Insurance: 17%
- Medicaid Only: 35%
- Medicare Only: 4%
- Uninsured (Self-Pay): 2%
- Other: 3%
- Total: $1.87 Billion

2012
- Private Insurance: 16%
- Medicaid Only: 38%
- Medicare Only: 2%
- Uninsured (Self-Pay): 2%
- Other: 3%
- Total: $1.43 Billion

2013
- Private Insurance: 16%
- Medicaid Only: 38%
- Medicare Only: 2%
- Uninsured (Self-Pay): 2%
- Other: 3%
- Total: $1.55 Billion

2014
- Private Insurance: 17%
- Medicaid Only: 31%
- Medicare Only: 6%
- Uninsured (Self-Pay): 2%
- Other: 3%
- Total: $1.8 Billion

ADA HPI 2017 and DQI analysis
Summary: Impact on Medicaid

FY2013-FY2016

Single ED: $31,140,018
Repeat ED: $9,233,466
Inpatient: $5,591,685
Total: $55,965,169

2016 TOTAL: $11,364,349

16,308
$7,582,980

5,946
$2,344,105

145
$1,437,264

Avg: $446
Avg: $9,912
## Impact on Medicaid 2016

Medicaid Enrolled Adults are **15%** of the MD Adult Population

<table>
<thead>
<tr>
<th># of Visits</th>
<th>% of Total Visits among Adults in MD</th>
<th>Rate Per 10,000 Medicaid Eligible Pop.</th>
<th>Total Charges</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ED Visits for Chronic Dental</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single Visit in Year</td>
<td>16,308</td>
<td>50%</td>
<td>235.59</td>
</tr>
<tr>
<td>Repeat Visit</td>
<td>5,946</td>
<td>63%</td>
<td>85.90</td>
</tr>
<tr>
<td><strong>Total ED Visits</strong></td>
<td><strong>22,254</strong></td>
<td><strong>53%</strong></td>
<td><strong>321.48</strong></td>
</tr>
<tr>
<td><strong>Inpatient Admissions for Chronic Dental</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>145</td>
<td>37%</td>
<td>2.09</td>
<td>$1,437,264</td>
</tr>
<tr>
<td><strong>Total Visits for Chronic Dental</strong></td>
<td><strong>22,399</strong></td>
<td><strong>46%</strong></td>
<td><strong>323.58</strong></td>
</tr>
</tbody>
</table>
Impact on Medicaid

<table>
<thead>
<tr>
<th></th>
<th>FY2013</th>
<th>FY2014</th>
<th>FY2015</th>
<th>FY2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate Per 10,000 of Population (All Payer)</td>
<td>119</td>
<td>116</td>
<td>110</td>
<td>94</td>
</tr>
<tr>
<td>Rate among Medicaid Eligible Adults (Medicaid)</td>
<td>465</td>
<td>387</td>
<td>406</td>
<td>321</td>
</tr>
<tr>
<td>% of All Adult ED Visits</td>
<td>5.7%</td>
<td>5.8%</td>
<td>5.3%</td>
<td>4.7%</td>
</tr>
<tr>
<td>% of All Medicaid Enrolled Adult ED Visits</td>
<td>3.3%</td>
<td>3.4%</td>
<td>3.1%</td>
<td>2.7%</td>
</tr>
</tbody>
</table>
## Hospital Utilization for Dental Needs

<table>
<thead>
<tr>
<th>Service Description</th>
<th>All Payers</th>
<th>Medicaid</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Count</td>
<td>Total Charge</td>
</tr>
<tr>
<td>ED Visits for Unspecified Jaw Pain</td>
<td>1,409</td>
<td>$1,405,480</td>
</tr>
<tr>
<td>Urgent Care Visits for Chronic Dental</td>
<td>4,107</td>
<td>$4,192,637</td>
</tr>
<tr>
<td>Ambulatory Surgeries for Chronic Dental</td>
<td>1,168</td>
<td>$2,783,805</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>6,684</strong></td>
<td><strong>$8,381,922</strong></td>
</tr>
<tr>
<td>Year</td>
<td>Dental FY2013</td>
<td>Medical FY2013</td>
</tr>
<tr>
<td>------</td>
<td>---------------</td>
<td>----------------</td>
</tr>
<tr>
<td></td>
<td>7% 16%</td>
<td>18% 24%</td>
</tr>
<tr>
<td>FY2013</td>
<td>FY2014</td>
<td>FY2015</td>
</tr>
</tbody>
</table>

Dental Patients in the ED are Healthier
Dental Patients Common Comorbidities

- Hypertension, Uncomplicated: 11.4%, 11.8%, 13.1%, 13.8%
- Chronic Pulmonary Disease: 5.9%, 5.9%, 6.9%, 7.7%
- Diabetes, Uncomplicated: 4.3%, 4.6%, 5.1%, 5.1%
- Depression: 2.7%, 2.6%, 3.0%, 2.9%
- Drug Abuse: 1.4%, 1.9%, 2.8%, 2.6%

FY2013 - FY2016
Dental Repeat Visits 2016

Single ED Visit: 80%; 25,363 Patients; $18,780,742

One or More Consecutive ED Visits within 365 Days: 20%; 6,299 Patients; $3,919,258

Between 365 and 30 Days: 3%; 900

Between 30 and 15 Days: 1%; 431

Between 15 Days and 1 Day: 15%; 4,692

Same Day: 1%; 275

213 Visit a Different ED
Dental Repeat Visits for Medicaid 2016

Single ED Visit: 75%; 11,814 Patients; $7,582,980

One or More Consecutive ED Visits within 365 Days: 25%; 3,896 Patients; $2,344,105

Between 365 and 30 Days: 3%; 440
Between 30 and 15 Days: 2%; 243
Between 15 Days and 1 Day: 19%; 3,038
Same Day: 1%; 175

136 Visit a Different ED
Overall ED Use, Dental Needs, Substance Abuse and Behavioral Health 2016

% of Patients in Category

0% 1% 2% 3% 4% 5%
No Dental ED Visits Single ED Visits for Dental 2+ ED Visits for Dental

Number of Total ED Visits

0 5 10 15 20
0 1 2 3 4

20+ ED Visits 30+ ED Visits Average # of ED Visits

Maryland Dental Action Coalition
In 2016, dental ED visits were only 2.7% of all ED visits by adults, but were 26% of those with 20+ and 25% of those with 30+ED.
The Opioid Epidemic and Dental Pain in the Emergency Department
Counties with More Dental ED visits have more Opioid Deaths 2016

Rate of Opioid Deaths Per 10,000 of Population

Rate of ED Visits for Chronic Dental Conditions Per 10,000 of Population

$r = .45, p < .05$
Counties with More Dental ED visits have more Fentanyl Deaths 2016

Rate of Fentanyl Deaths Per 10,000 of Population

Rate of ED Visits for Chronic Dental Conditions Per 10,000 of Population

$r = .54, p < .05$
Hospital Utilization for Dental

Emergency Department

Inpatient Admission

Ambulatory Surgery

Urgent Clinic
## The Bottom Line for 2016

<table>
<thead>
<tr>
<th>All Adults</th>
<th>Medicaid Adults</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct Medical Charges: $26.4</td>
<td>Direct Medical Charges: $11.4</td>
</tr>
<tr>
<td>Underreporting: $8.4 Million</td>
<td>Underreporting: $1.2 Million</td>
</tr>
<tr>
<td>Lost productivity: $3 Million</td>
<td>Lost productivity: $1 Million</td>
</tr>
<tr>
<td>Total: $37.8 Million</td>
<td>Total: $13.6 Million</td>
</tr>
</tbody>
</table>

* underreporting and lost productivity are estimates and requires further study
Better Oral Health for All Marylanders: Children and Adults