Learning Objectives

- Quantify Emergency Department (ED) visits for Dental Complaints in Missouri.
- Describe financial impact associated with ED visits.
- Describe populations that experience highest ED rates.
- Define factors that contribute to use of the ED for dental problems.
ED Visit Data

- Missouri Information for Community Assessment.
  - [www.health.mo.gov/data](http://www.health.mo.gov/data)
  - Missouri Hospital Association’s Hospital Industry Data Institute.
- Dental complaints – Disorders of Teeth and Jaws.
  - Not injuries or cancer.
<table>
<thead>
<tr>
<th>Year</th>
<th>Number</th>
<th>Rate per 1,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>39,259</td>
<td>7.0</td>
</tr>
<tr>
<td>2005</td>
<td>39,573</td>
<td>7.1</td>
</tr>
<tr>
<td>2006</td>
<td>41,914</td>
<td>7.5</td>
</tr>
<tr>
<td>2007</td>
<td>48,987</td>
<td>8.7</td>
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<tr>
<td>2008</td>
<td>52,872</td>
<td>9.4</td>
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<tr>
<td>2009</td>
<td>57,281</td>
<td>10.1</td>
</tr>
<tr>
<td>2010</td>
<td>57,902</td>
<td>10.2</td>
</tr>
<tr>
<td>2011</td>
<td>58,714</td>
<td>10.3</td>
</tr>
<tr>
<td>2012</td>
<td>58,309</td>
<td>10.3</td>
</tr>
<tr>
<td>2013</td>
<td>57,641</td>
<td>10.2</td>
</tr>
<tr>
<td>2014</td>
<td>56,073</td>
<td>9.9</td>
</tr>
</tbody>
</table>
Estimated Costs

- National estimates: $300 per ED visit.
  - Based on this conservative estimate, 2014 ED visits may cost $16.8 million.
- Preliminary data from Missouri ED visit data: $425.
  - Based on this Missouri-specific, conservative estimate, ED visits may cost more than $20 million.
- Who pays?
Trends in ED Visits by 3 Common Payment Sources, 1994-2014
<table>
<thead>
<tr>
<th>Age of Patient</th>
<th>Number</th>
<th>Rate per 1,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Under 15</td>
<td>2,400</td>
<td>2.1</td>
</tr>
<tr>
<td>15 to 24</td>
<td>10,897</td>
<td>13.1</td>
</tr>
<tr>
<td>25 to 44</td>
<td>33,833</td>
<td>22.1</td>
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<tr>
<td>45 to 64</td>
<td>8,132</td>
<td>5.0</td>
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<tr>
<td>65 and over</td>
<td>811</td>
<td>0.9</td>
</tr>
<tr>
<td>All ages</td>
<td>56,073</td>
<td>9.9</td>
</tr>
</tbody>
</table>
Emergency Department Utilization for Dental Complaints by County of Residence, Missouri 2014

Rate per 1,000 Population
- 1.3 - 5.1
- 5.2 - 8.0
- 8.1 - 11.5
- 11.6 - 14.5
- 14.6 - 29.5
Dental benefit reinstated January 2016.
  • 70,000 claims @ $16.6 million in 2016.

Preliminary claims data MO HealthNet.
  • Decline in ED Visits among adults?
Contributing Factors

- ED Visits are considered preventable.
- Regular dental visits and preventive measures can avoid dental emergencies.
- Even dental emergencies should be addressed in dental setting.
Annual Dental Visits

- 2015 Youth Risk Behavior Surveillance System – High School Students*
  - Missouri: 69.2%
  - National: 74.4%

*Difference is statistically significant.
Medicaid - FY 2015

- **Any Type Dental Services (0-20 Year-Olds):**
  - Missouri: 35.8%
  - National: 44.8%

- **Dental Sealants (6-14 Year-Olds):**
  - Missouri: 5.5%
  - National: 6.3%
2014 Behavioral Risk Factor Surveillance System – Adults 18 and Older

- Missouri: 58.6%
- National: 65.3%

Disparities – lowest rates:

- Least educational attainment.
- Lowest annual income.
- African Americans, Hispanics.
Annual Dental Visits – Adults

Source: Missouri Behavioral Risk Factor Surveillance System, 2014
Missouri Department of Health and Senior Services
About 11% of Missourian adults have diabetes (compared to 10% nationally).

Annual Dental Visit Rate among Adults with Diabetes.*
- Missouri: 49.4%
- National: 56.1%

*Difference is statistically significant.
Pregnancy Risk Assessment Monitoring System (PRAMS) – 2014:

- Only about half of women visited a dentist during their most recent pregnancy.
- Similar figure nationally.
Medicaid Dental Providers

Active MO HealthNet Dentists by County of NPI
April 2016
Contact Information

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Thank you!