



Hospital Visits for Chronic Dental Conditions in Maryland

January 24th, 2018

Maryland Dental
Action Coalition

State Medicaid Coverage of Adult Dental Benefits

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

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.

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?

■ = \$1 Billion

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



The Cost of Health Care How much is waste?

■ = \$1 Billion

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

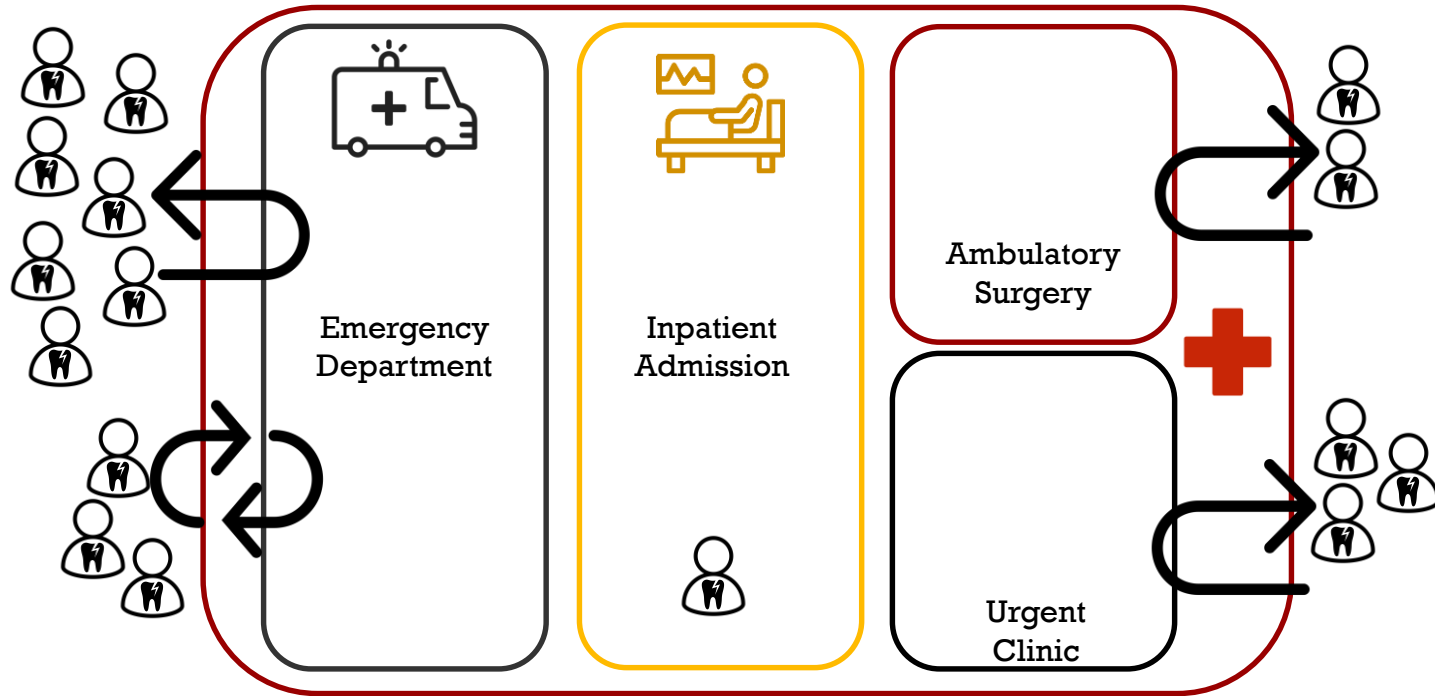
■ = \$1 Billion





Tice New England Journal of Medicine 2002

Hospital Utilization for Dental

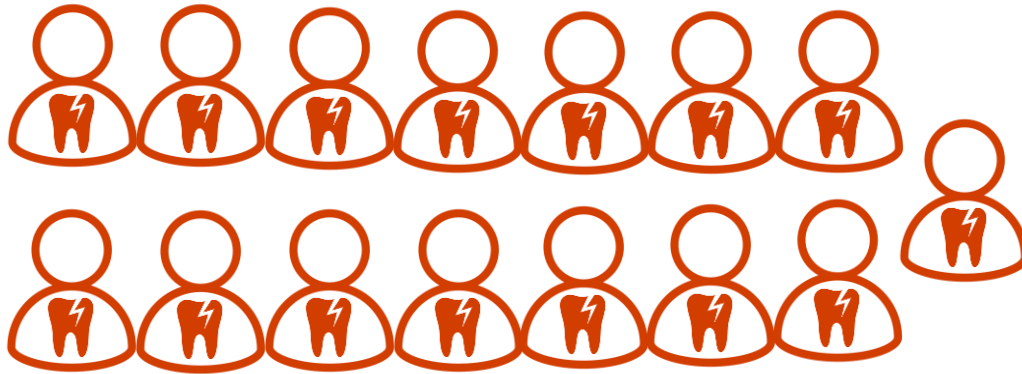


The report focused on ED visits and ED visits that result in Inpatient Admission for Adult (20+ years) Maryland Residents

Deadly Toothaches



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

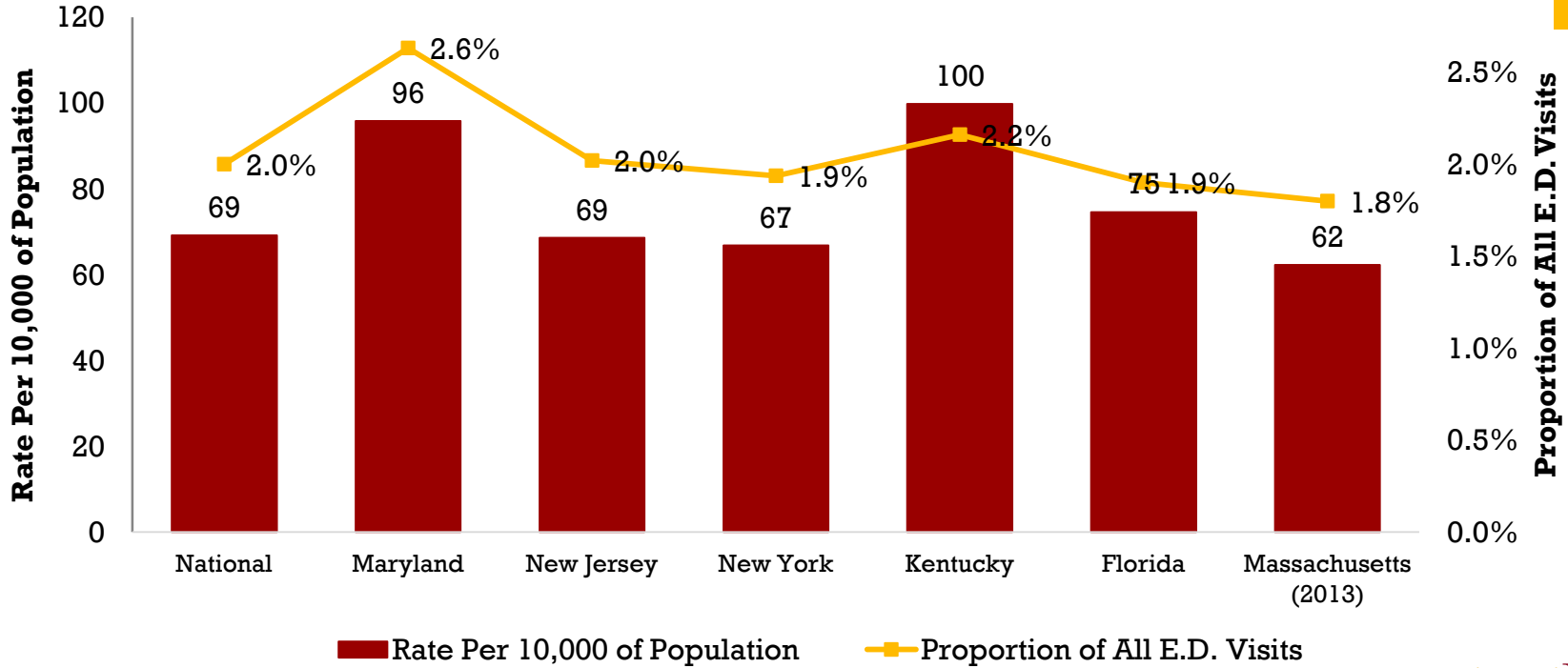


15 adults died

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

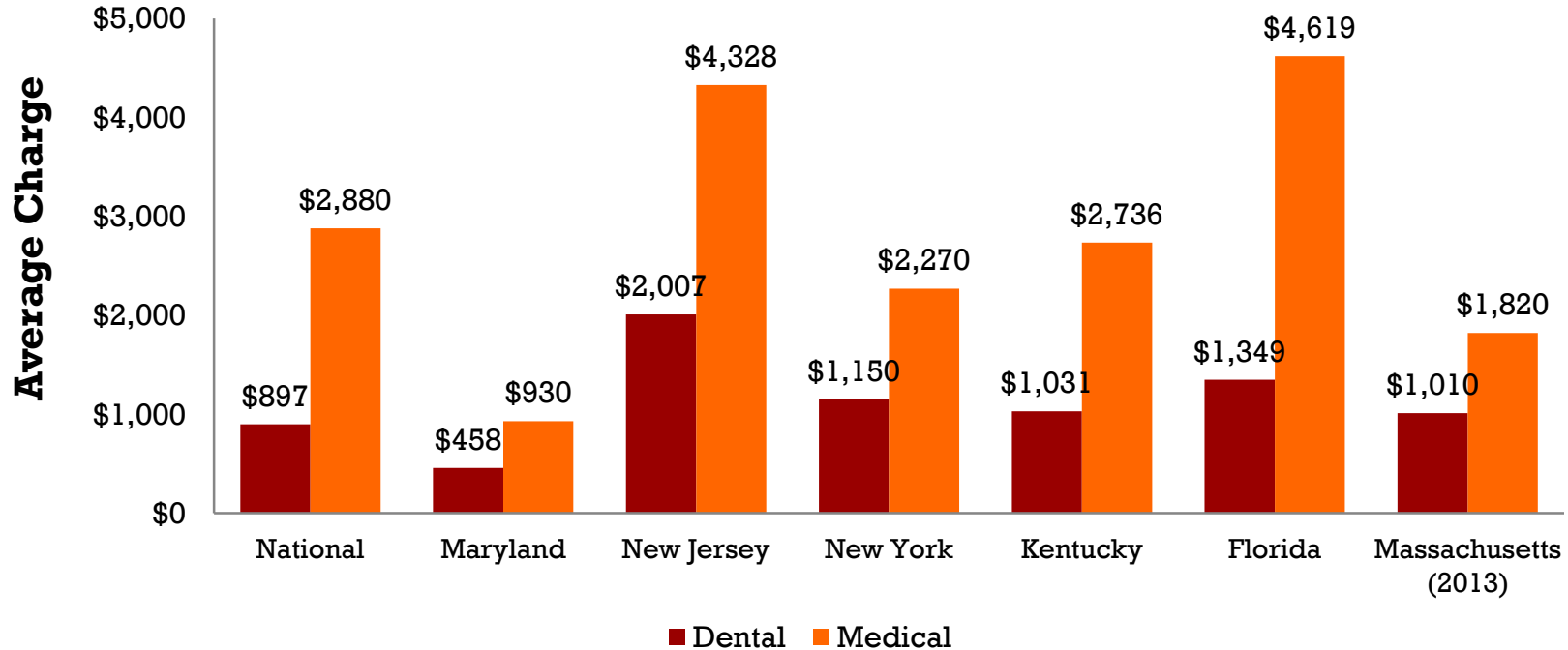
Hanly et al (2015)
doi:10.1002/ijc.29105

National and State Perspective



2014 – All Ages

National and State Perspective



2014 – All Ages

Study Reports

↑ EMERGENCY
↑ Main Entrance

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

DentaQuest INSTITUTE

EMERGENCY

Hospital Visits for Dental Conditions in Maryland

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County Summary Reports

Baltimore City

BALTIMORE CITY

Hospital Visits for Chronic Dental Conditions among Adults in Baltimore City Maryland, Fiscal Years 2013-2016

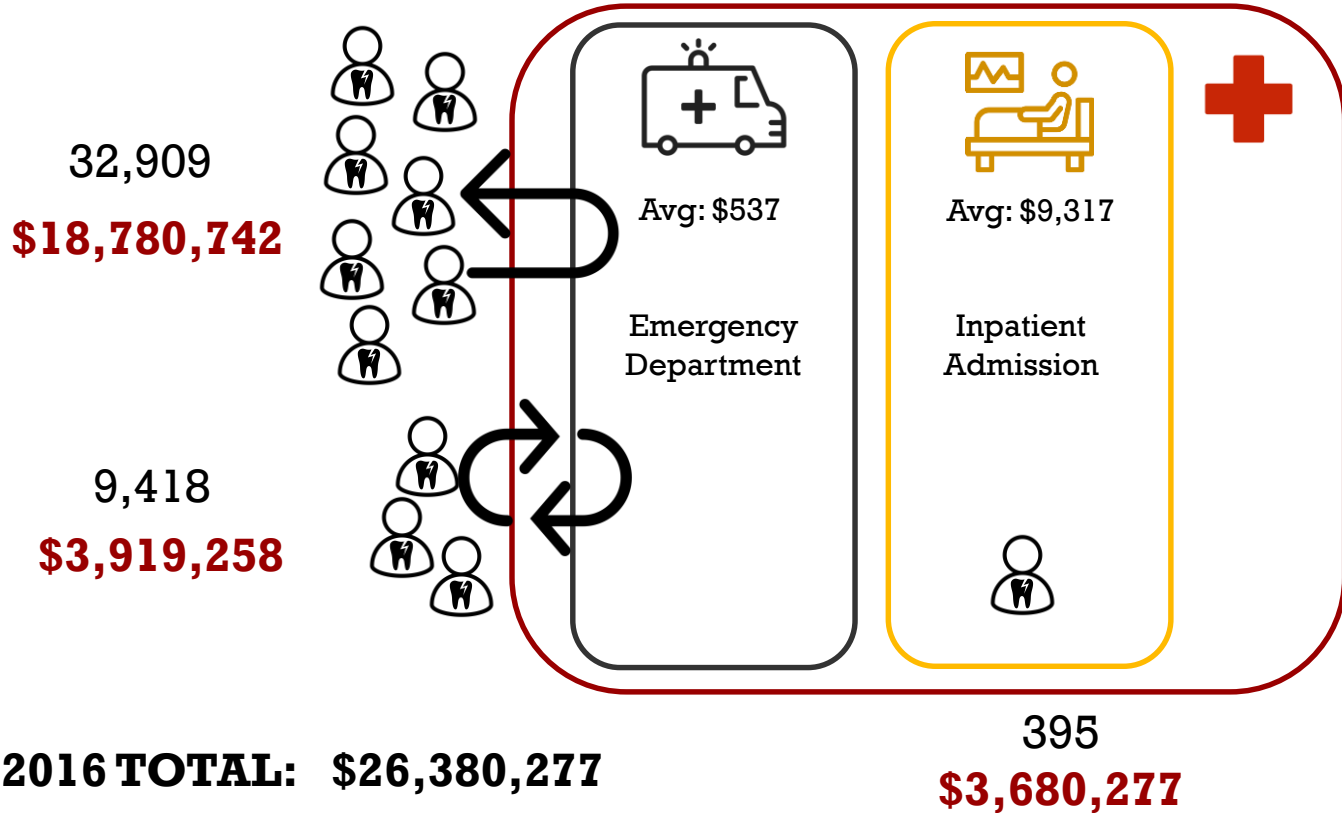
	Count			
	2013	2014	2015	2016
ED Visits	16,788	16,603	15,713	13,469
Impatient Admissions	169	140	127	85
Total	16,957	16,743	15,840	13,554

	Rate Per 10,000 of Population			
	2013	2014	2015	2016
ED Visits	354.9	352.2	333.1	284.4
Impatient Admissions	3.6	3.0	2.7	1.8
Total	358.5	355.2	335.8	286.2

	Total Charge			
	2013	2014	2015	2016
ED Visits	\$8,208,242	\$8,753,385	\$8,755,625	\$10,081,267
Impatient Admissions	\$144,337	\$1,271,954	\$1,431,547	\$933,026
Total	\$8,352,579	\$10,025,339	\$10,187,172	\$11,014,293

Note: --- indicates 10 or fewer discharges in cell. Charges Adjusted to 2016 dollars.

Summary

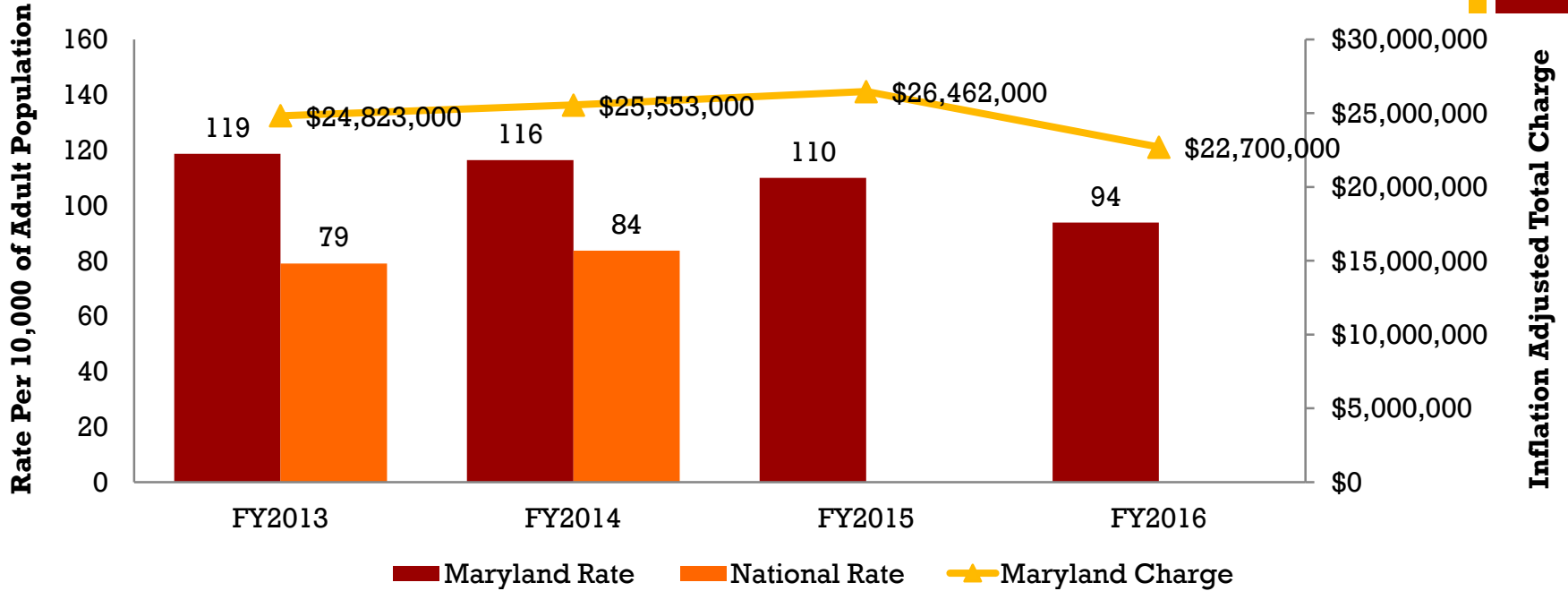


FY2013-FY2016

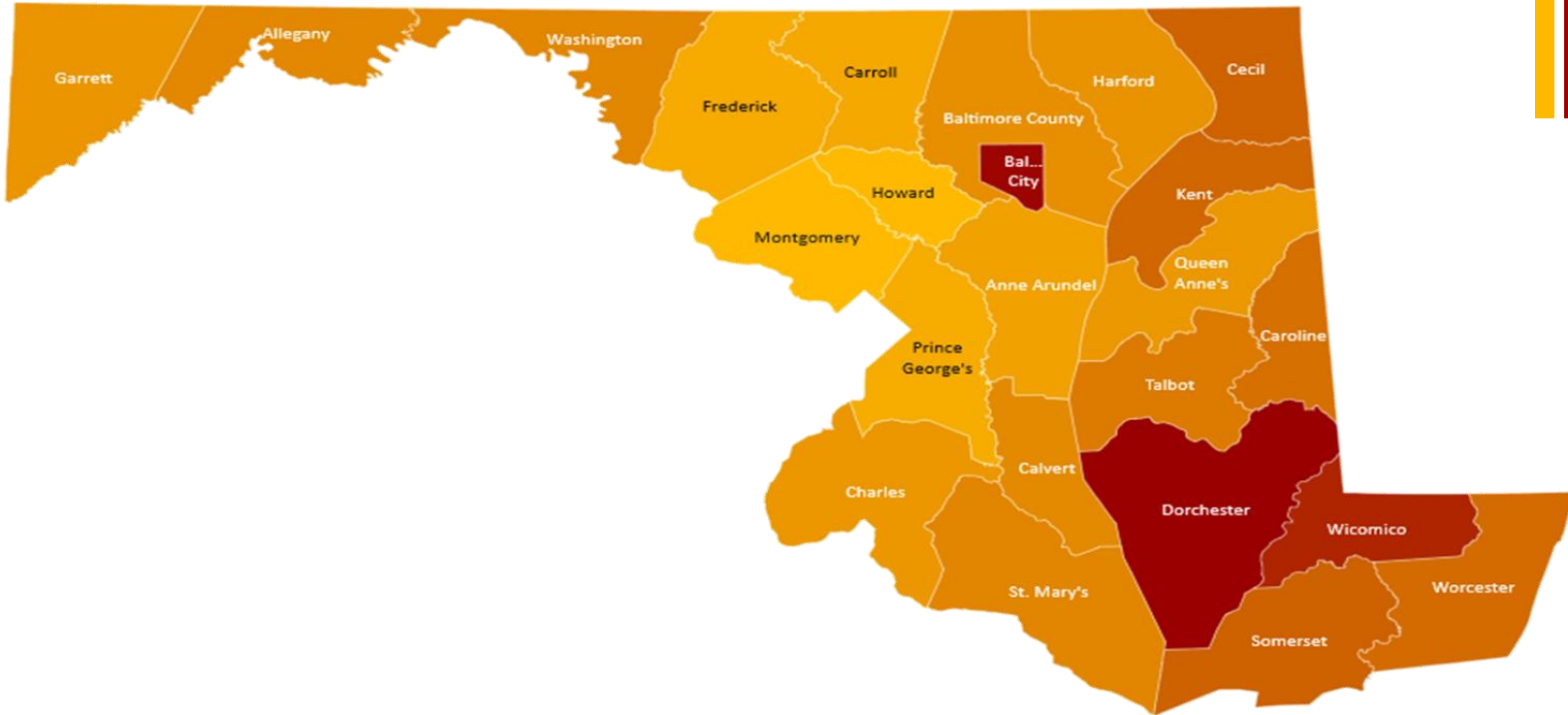
Single ED:
\$83,086,756
Repeat ED:
\$16,451,244
Inpatient:
\$18,658,353

Total:
\$118,196,352

Rates and Total Charges for Dental ED Visits

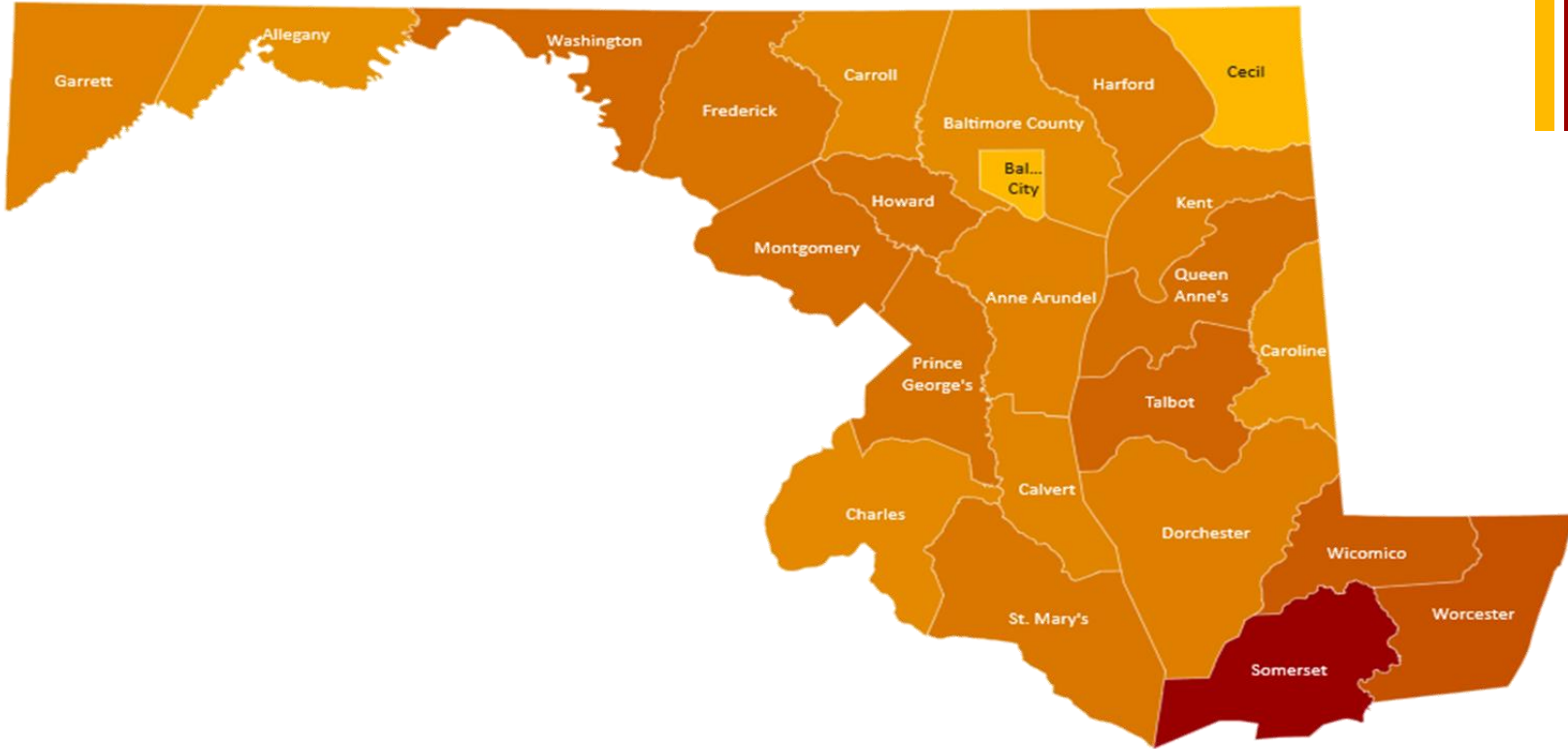


Counties Rates For Dental ED Visits 2016



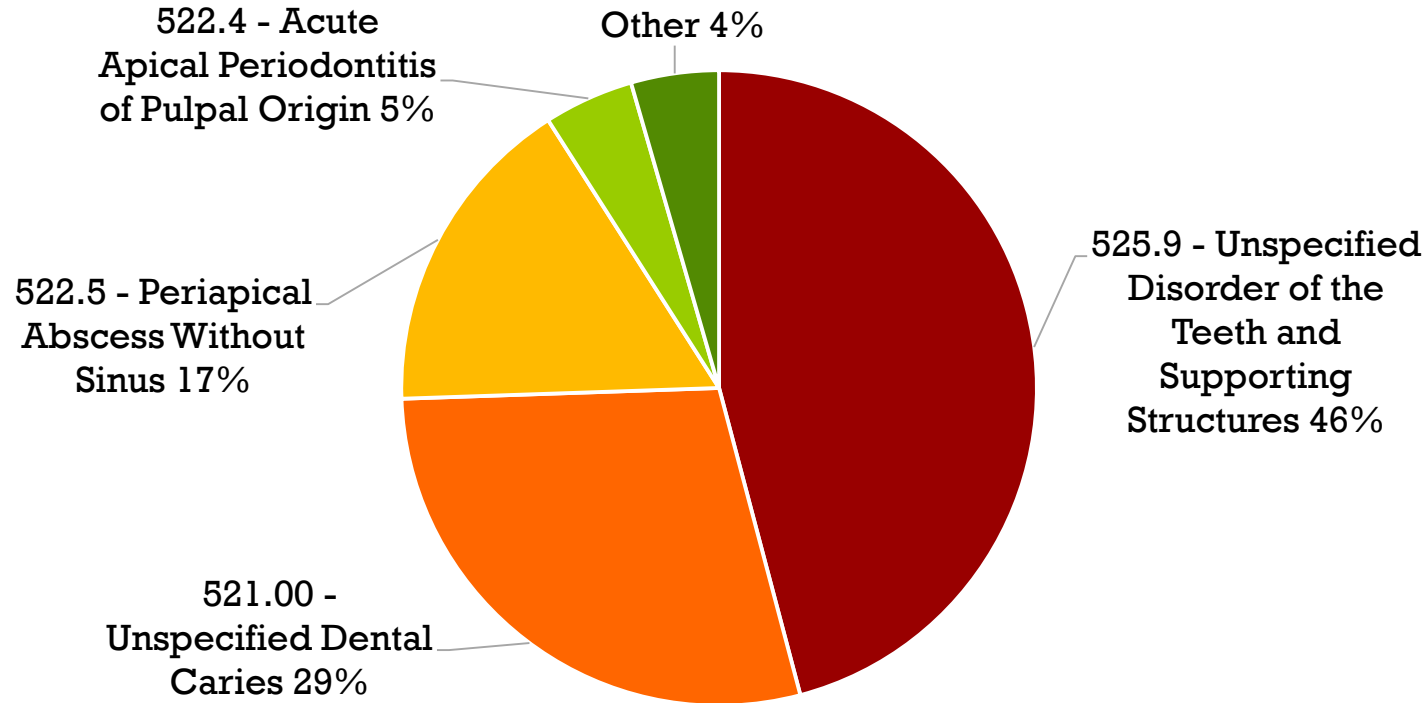
Rate of ED Visits Per 10K of Population 31 294

Change from 2013 to 2016



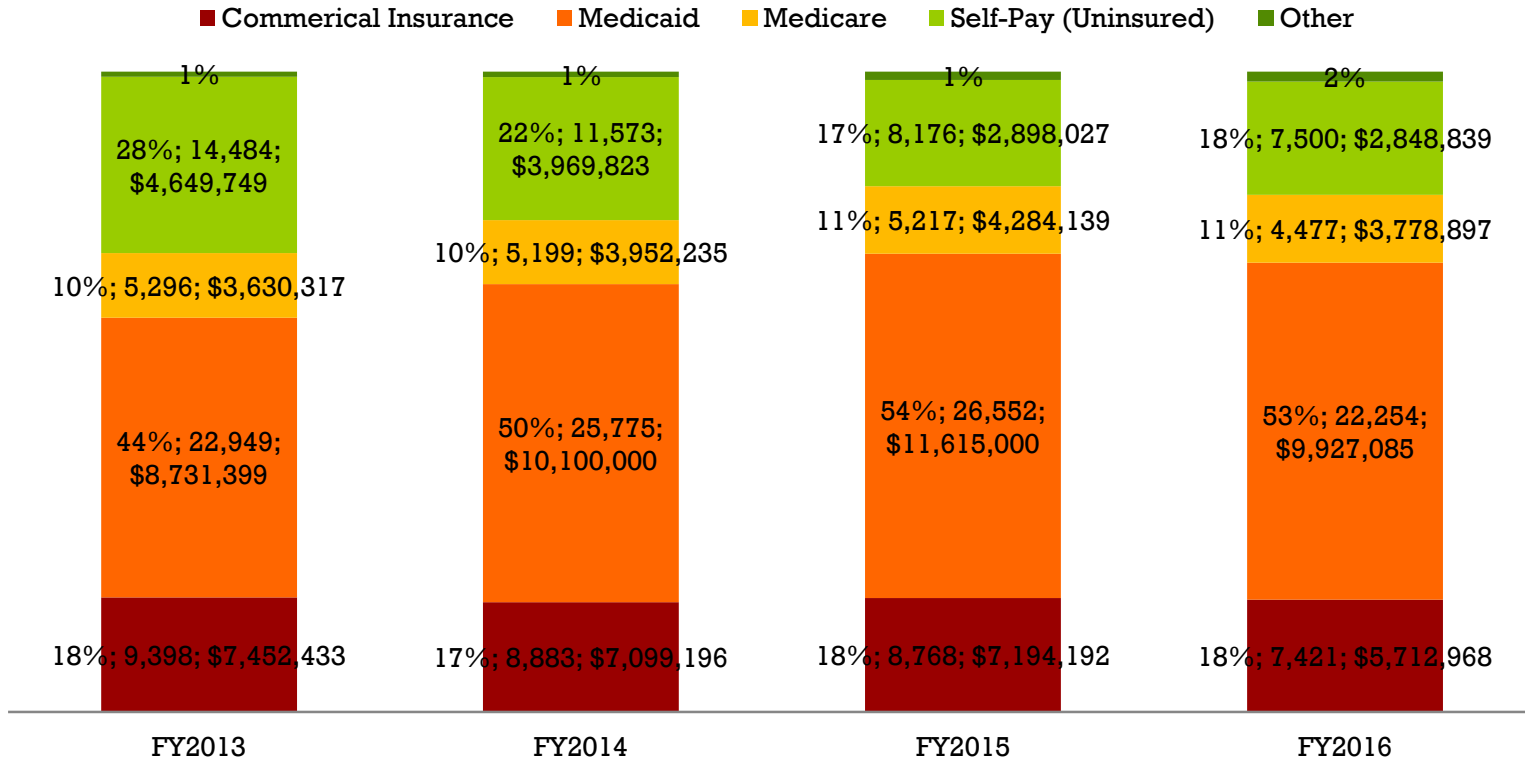
Change in Rate of ED Visits Per 10K of Population
-67.6 70.6

Commonly Diagnosed Conditions

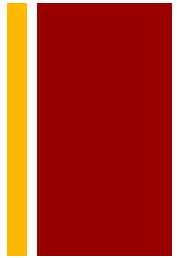
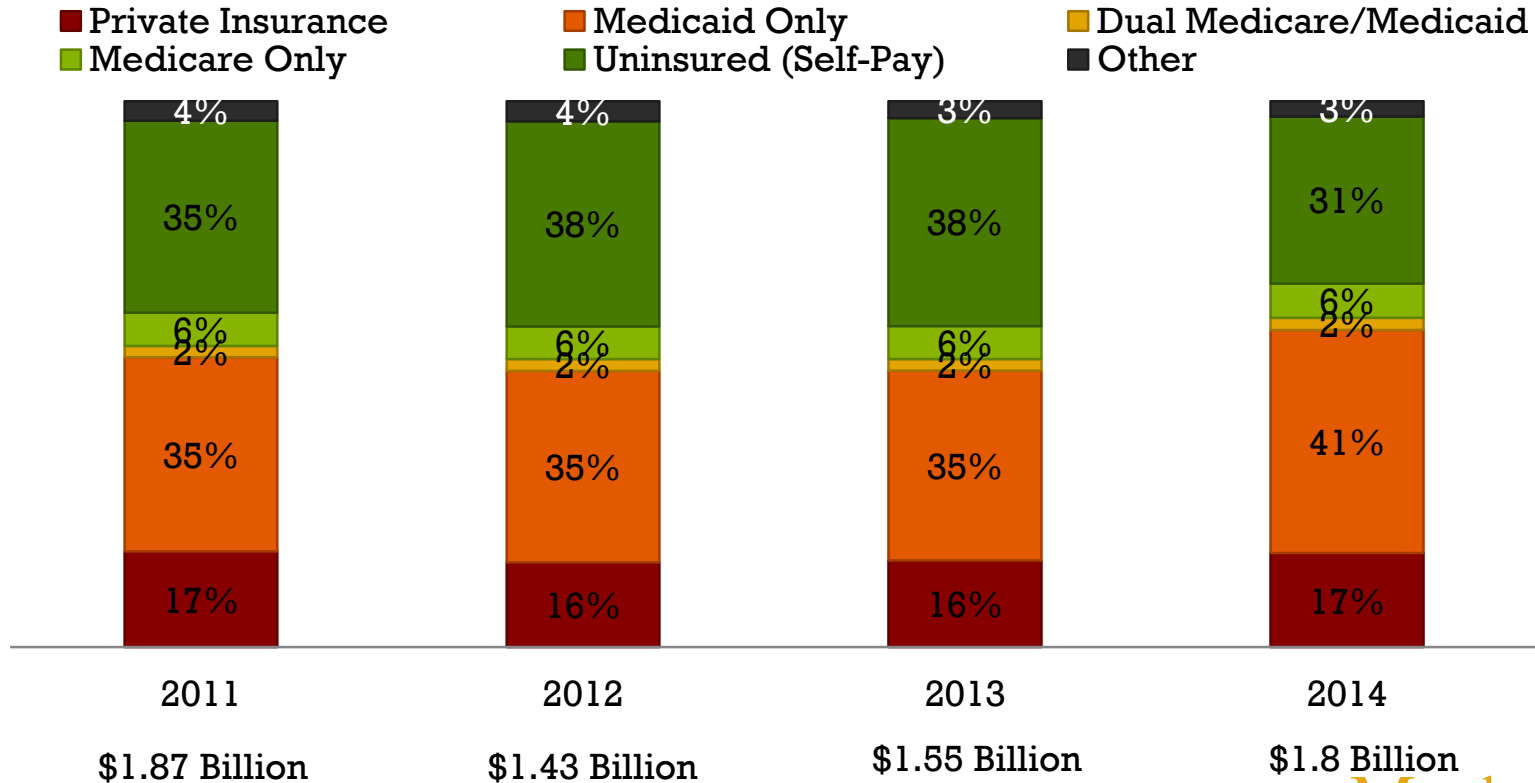


2014

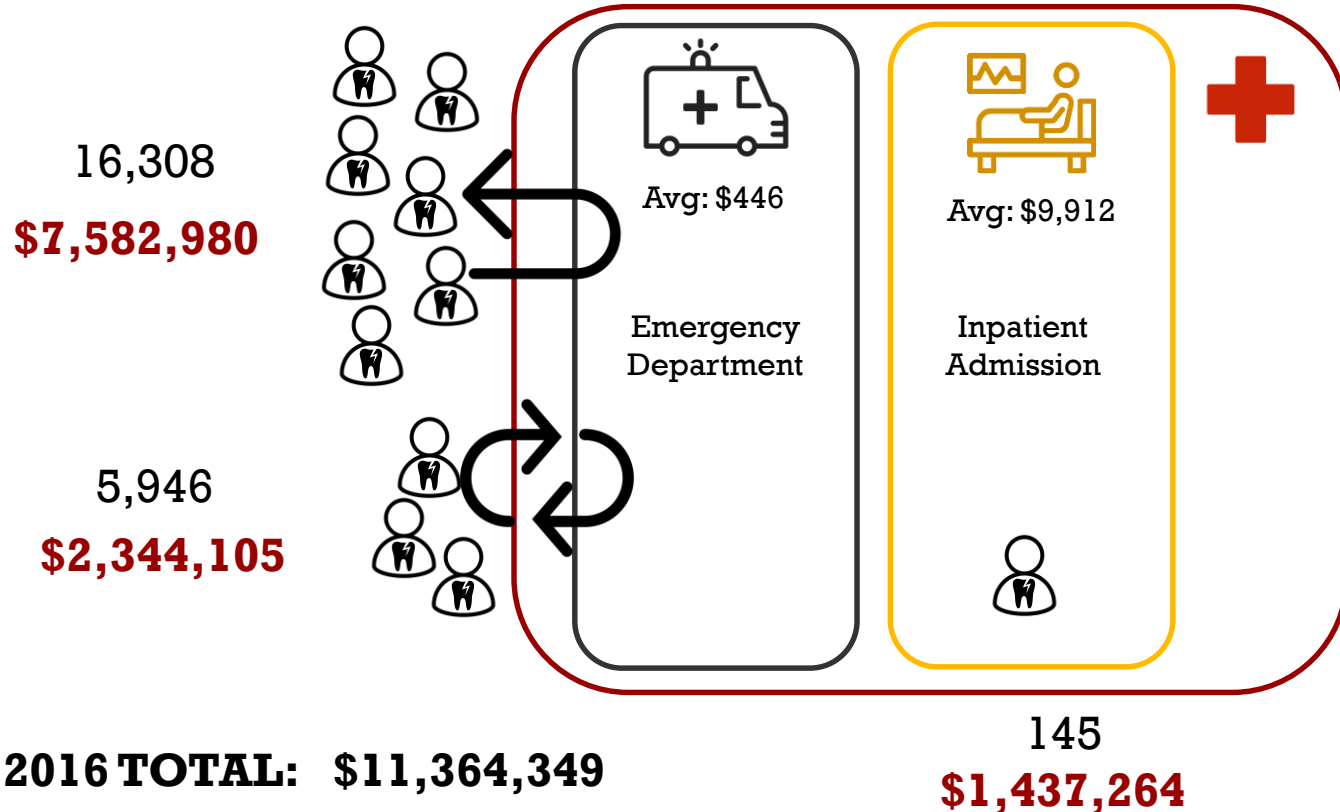
Payers of Dental ED Visits



National Impact on Medicaid



Summary: Impact on Medicaid



FY2013-FY2016

Single ED:

\$31,140,018

Repeat ED:

\$9,233,466

Inpatient:

\$5,591,685

Total: \$55,965,169

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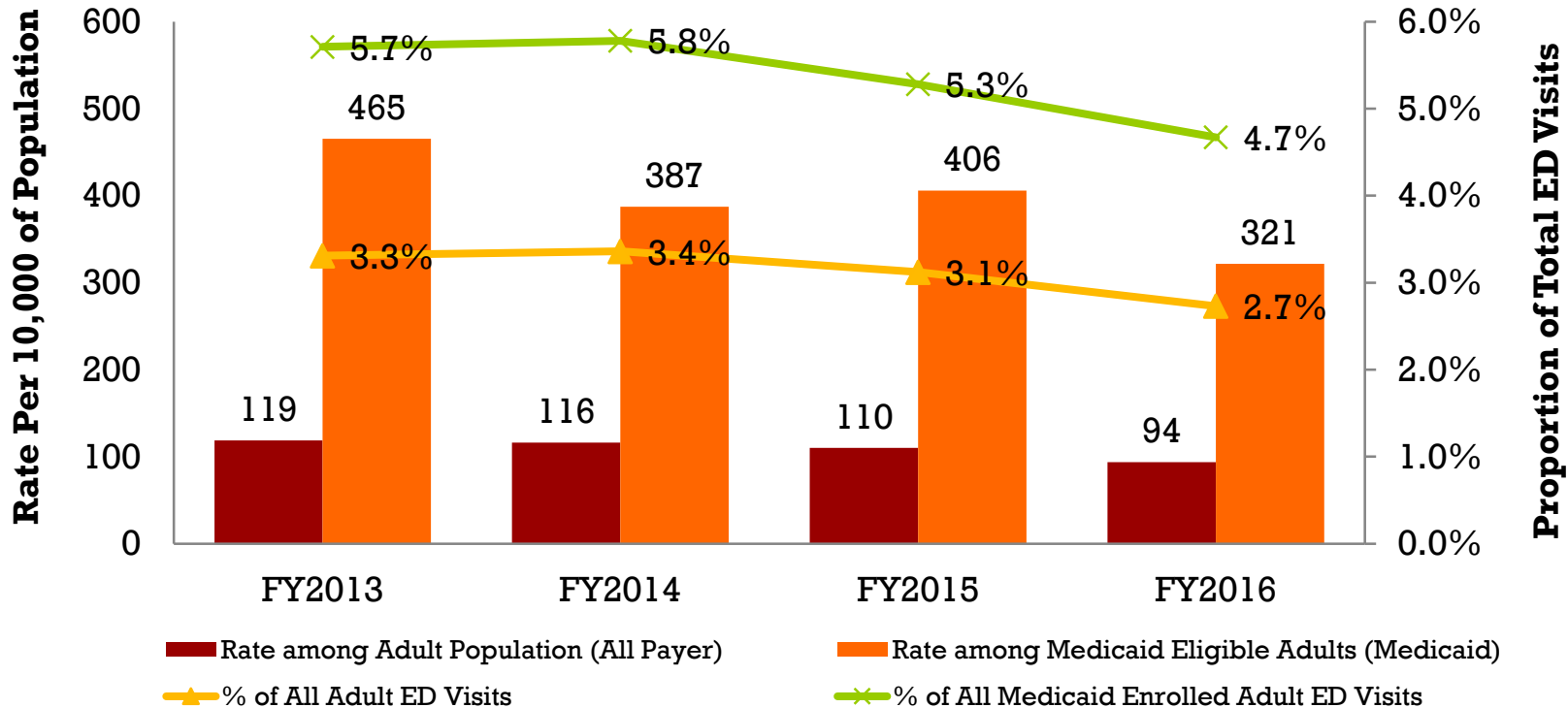
Impact on Medicaid 2016



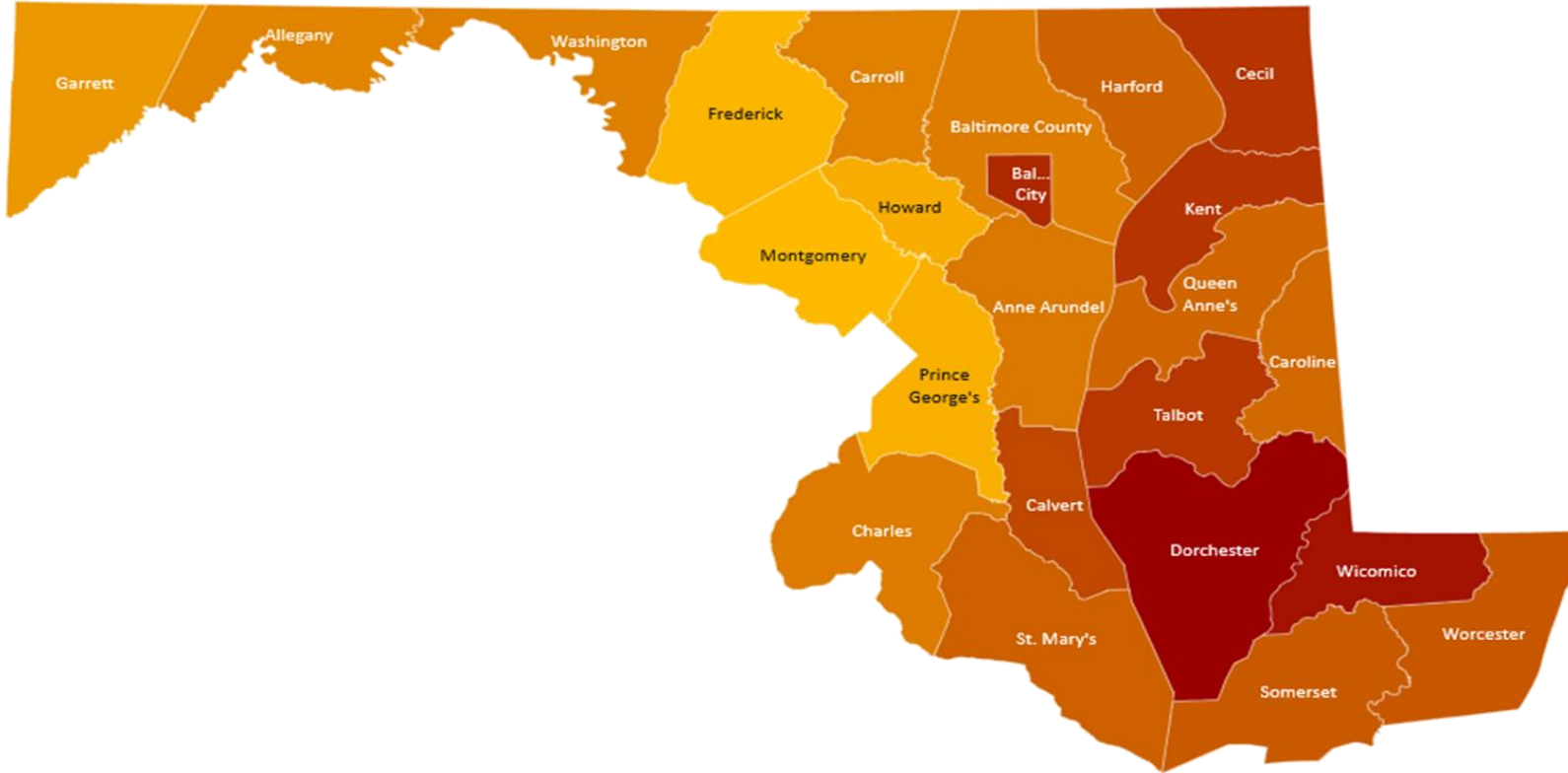
Medicaid Enrolled Adults are 15% of the MD Adult Population

	# of Visits	% of Total Visits among Adults in MD	Rate Per 10,000 Medicaid Eligible Pop.	Total Charges
ED Visits for Chronic Dental				
Single Visit in Year	16,308	50%	235.59	\$7,582,980
Repeat Visit	5,946	63%	85.90	\$2,344,105
Total ED Visits	22,254	53%	321.48	\$9,927,085
Inpatient Admissions for Chronic Dental				
	145	37%	2.09	\$1,437,264
Total Visits for Chronic Dental	22,399	46%	323.58	\$11,364,349

Impact on Medicaid



Counties Rates For Medicaid Adults 2016



Rate of Dental ED Visits Per 10K of Medicaid Eligible Population

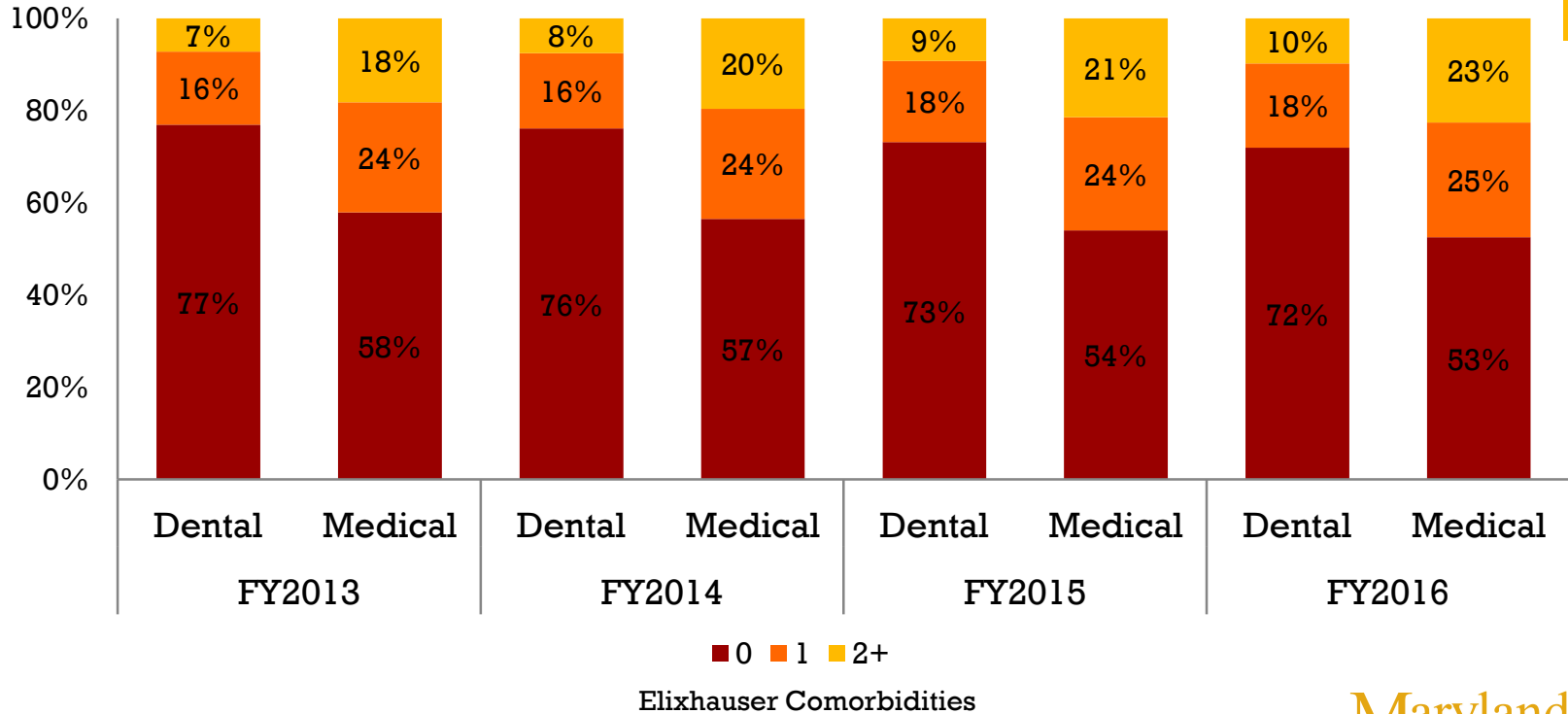


Hospital Utilization for Dental Needs



	All Payers			Medicaid		
	Count	Total Charge	Average Charge	Count	Total Charge	Average Charge
ED Visits for Unspecified Jaw Pain	1,409	\$1,405,480	\$998	474	\$391,292	\$826
Urgent Care Visits for Chronic Dental	4,107	\$4,192,637	\$1,021	588	\$305,977	\$520
Ambulatory Surgeries for Chronic Dental	1,168	\$2,783,805	\$2,383	354	\$512,030	\$1,446
Total:	6,684	\$8,381,922	--	1,416	\$1,209,299	--

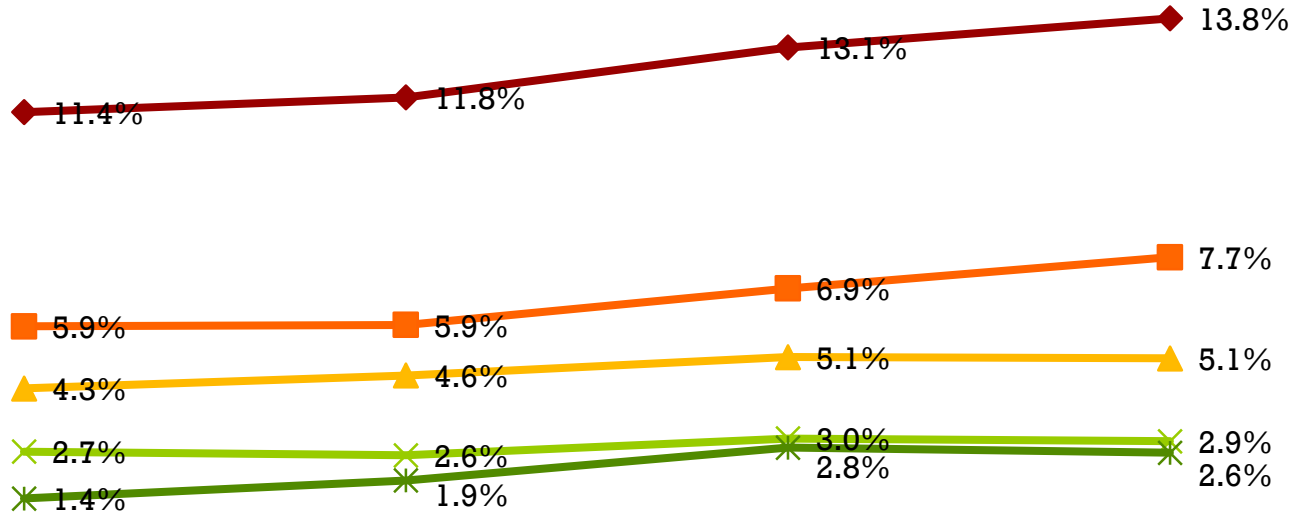
Dental Patients in the ED are Healthier



Dental Patients Common Comorbidities



◆ Hypertension, Uncomplicated ■ Chronic Pulmonary Disease ▲ Diabetes, Uncomplicated ✕ Depression ✱ Drug Abuse



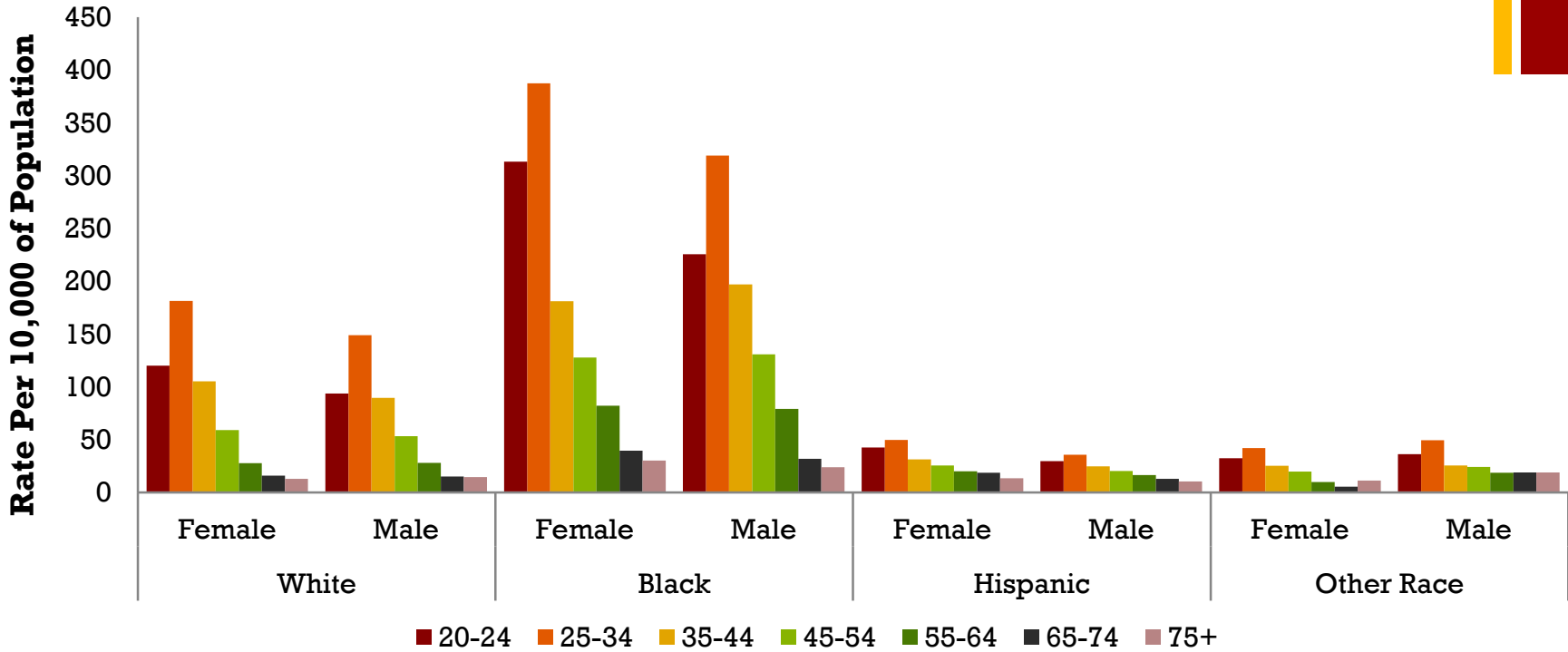
FY2013

FY2014

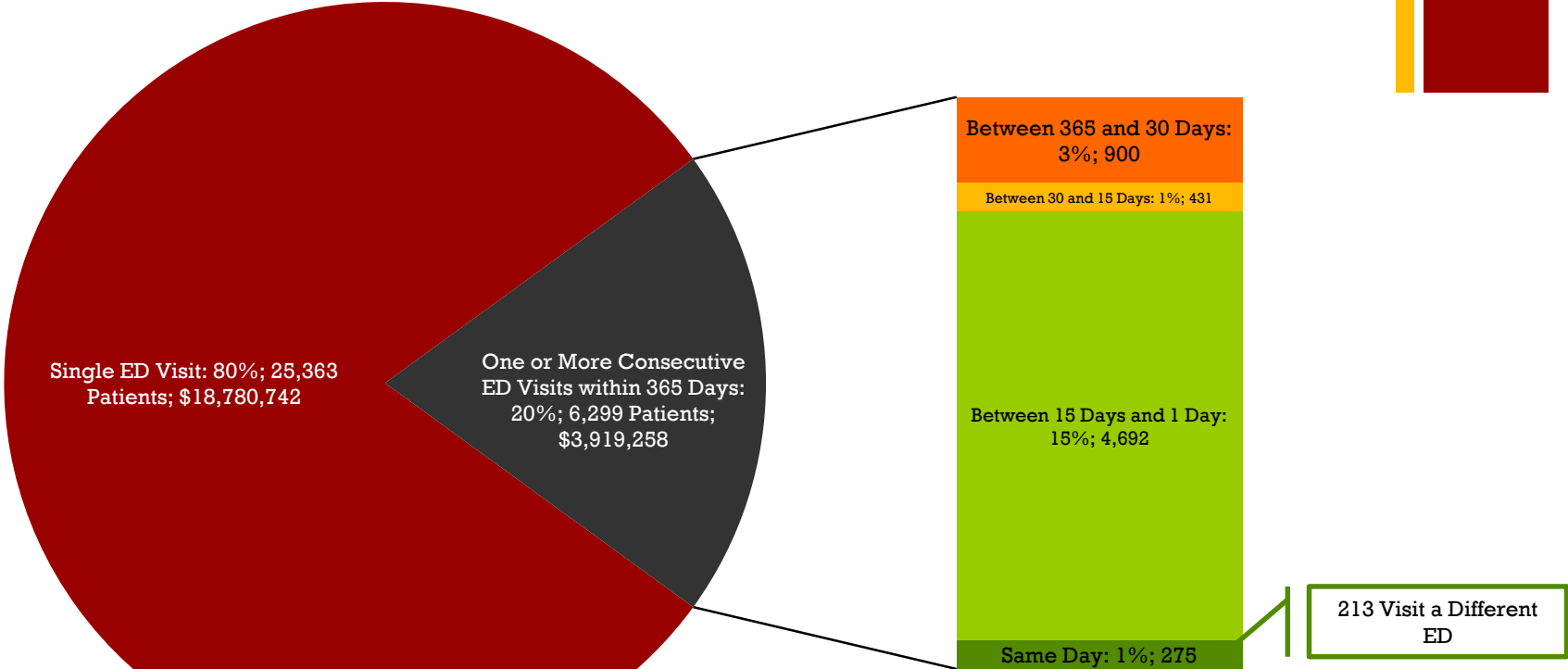
FY2015

FY2016

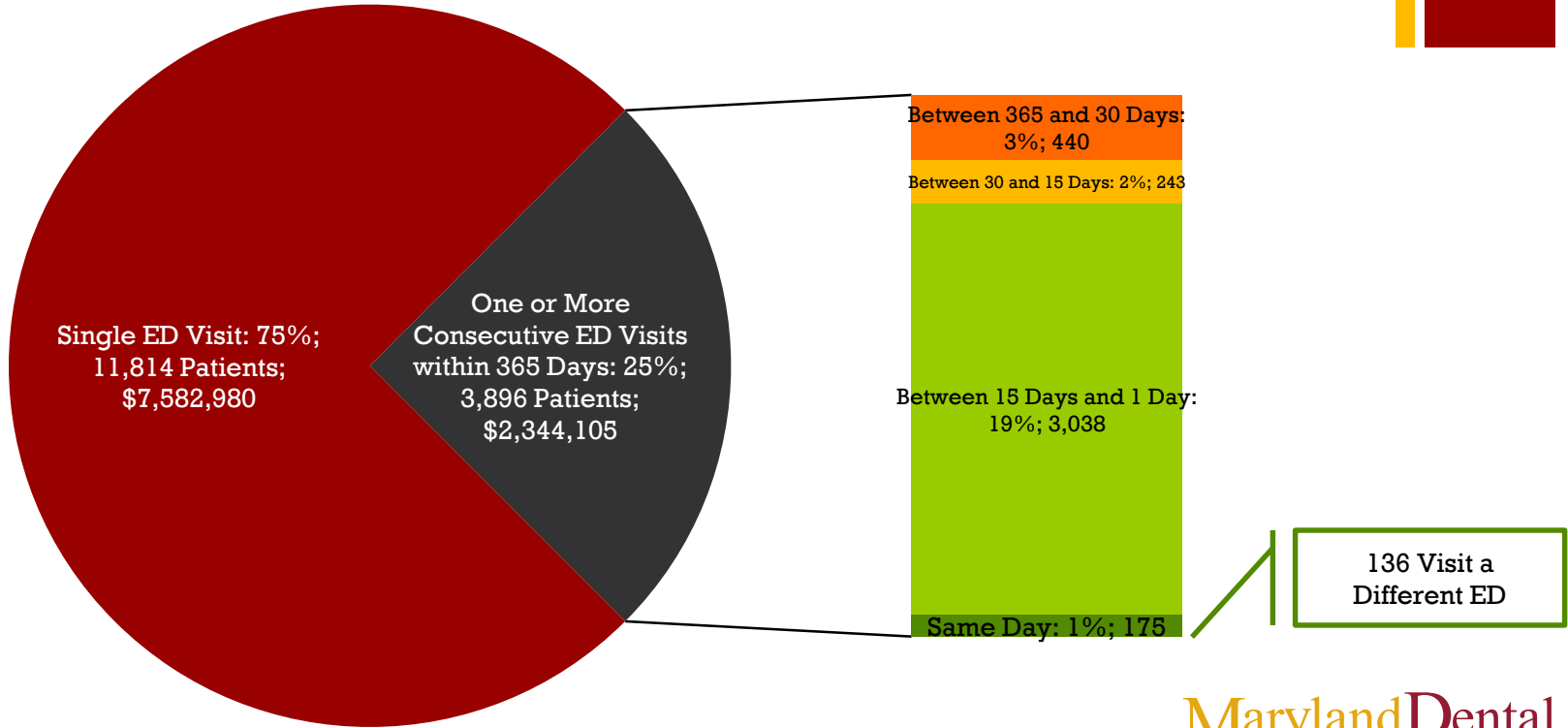
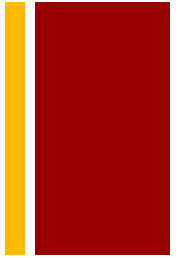
Race and Gender Disparities 2016



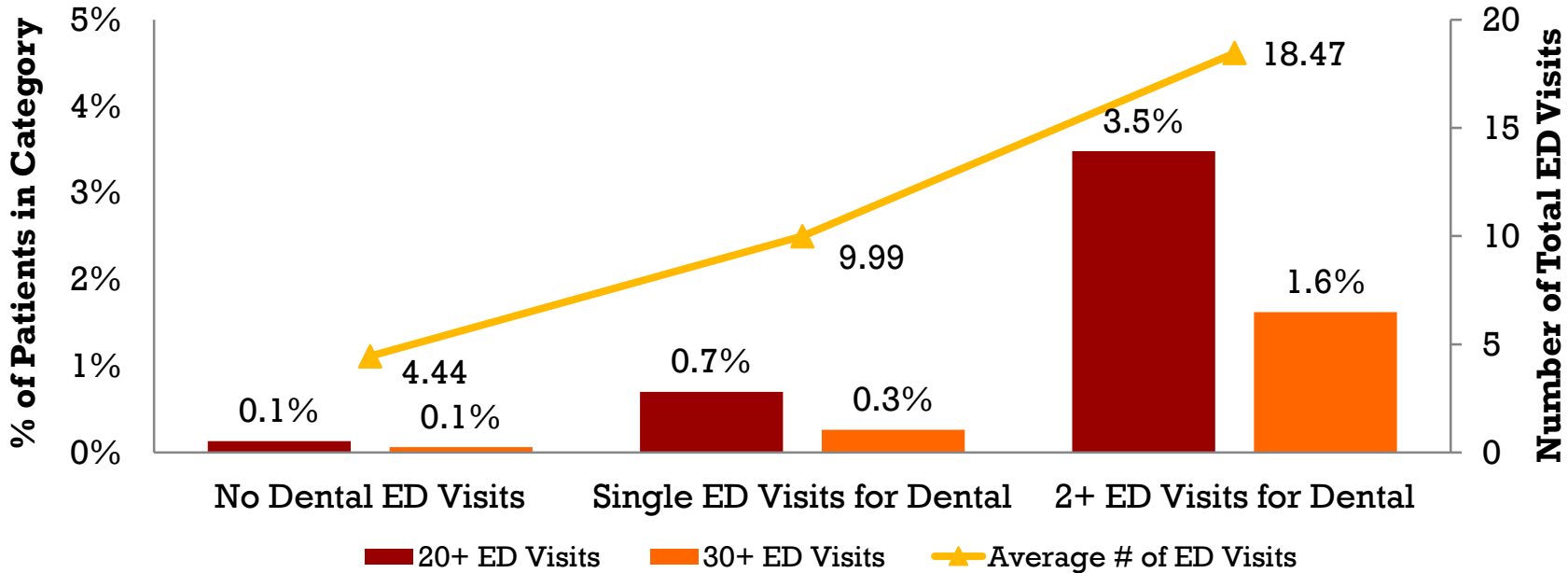
Dental Repeat Visits 2016



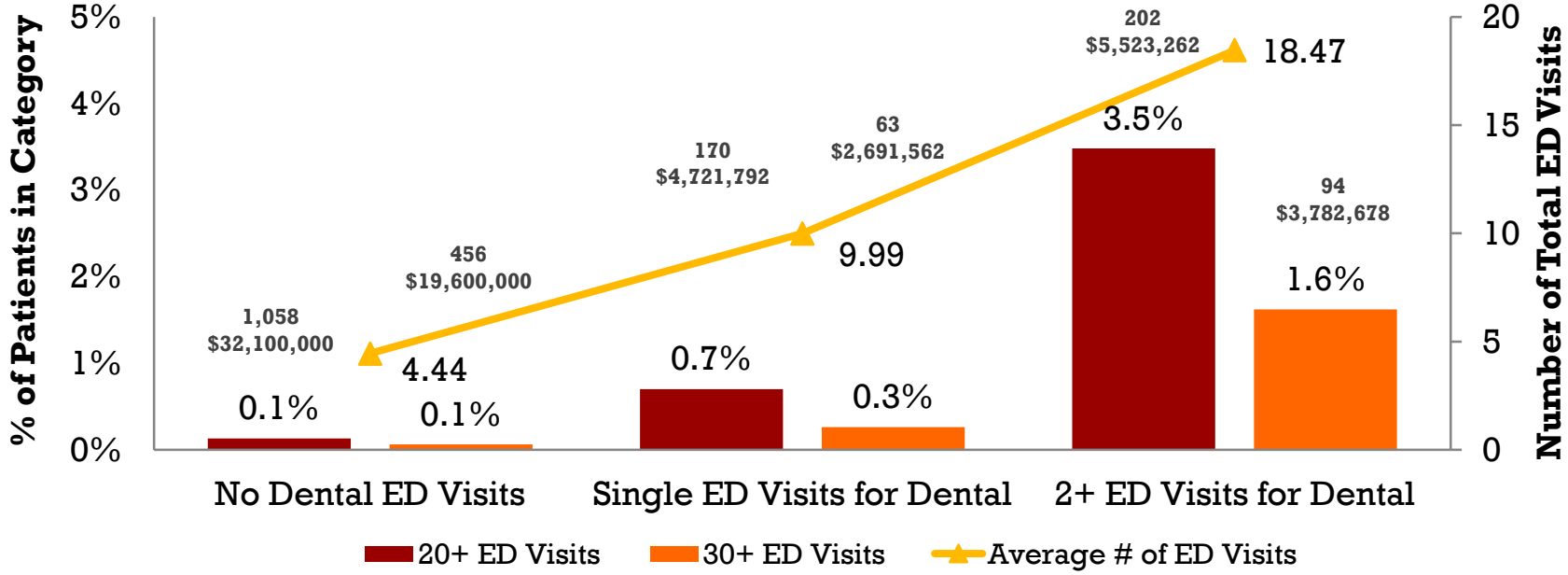
Dental Repeat Visits for Medicaid 2016



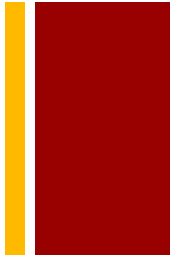
Overall ED Use, Dental Needs, Substance Abuse and Behavioral Health 2016



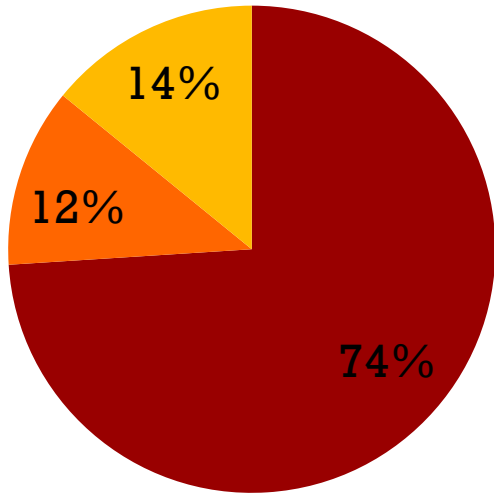
Overall ED Use, Dental Needs, Substance Abuse and Behavioral Health 2016



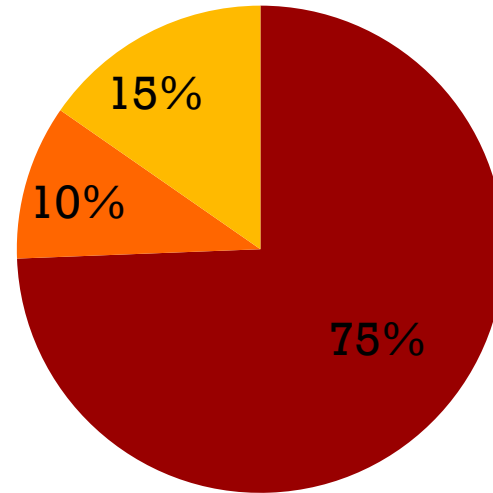
Dental Needs of High ED Utilizers



20+ ED Visits



30+ ED Visits



- No Dental
- Single Dental
- 2+ ED Dental

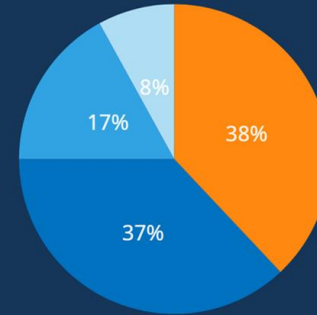
In 2016, dental ED visits were only 2.7% of all ED visits by adults, but were 26% of those with 20+ and 25% of those with 30+ED

The Opioid Epidemic and Dental Pain in the Emergency Department



Medicaid Covers Nearly 4 in 10 Nonelderly Adults with Opioid Addiction

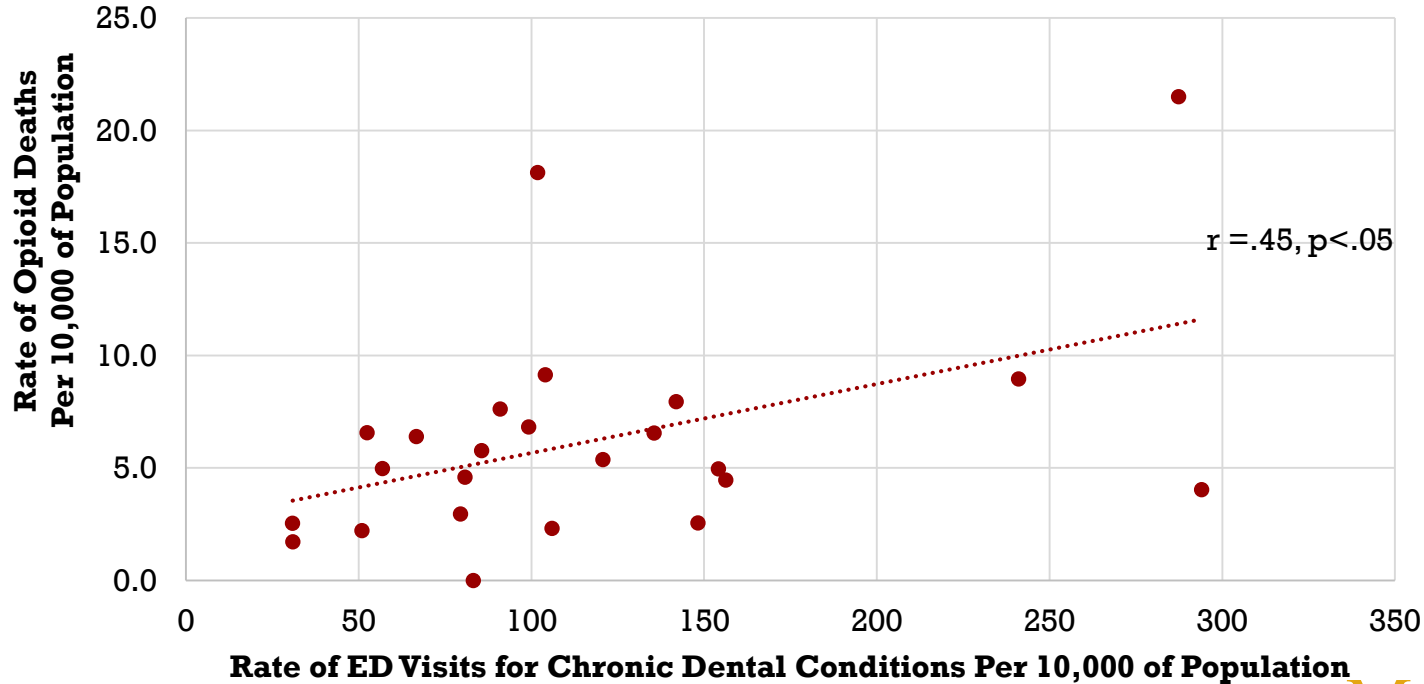
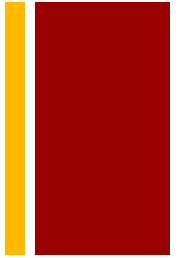
Total: 2 million in 2016



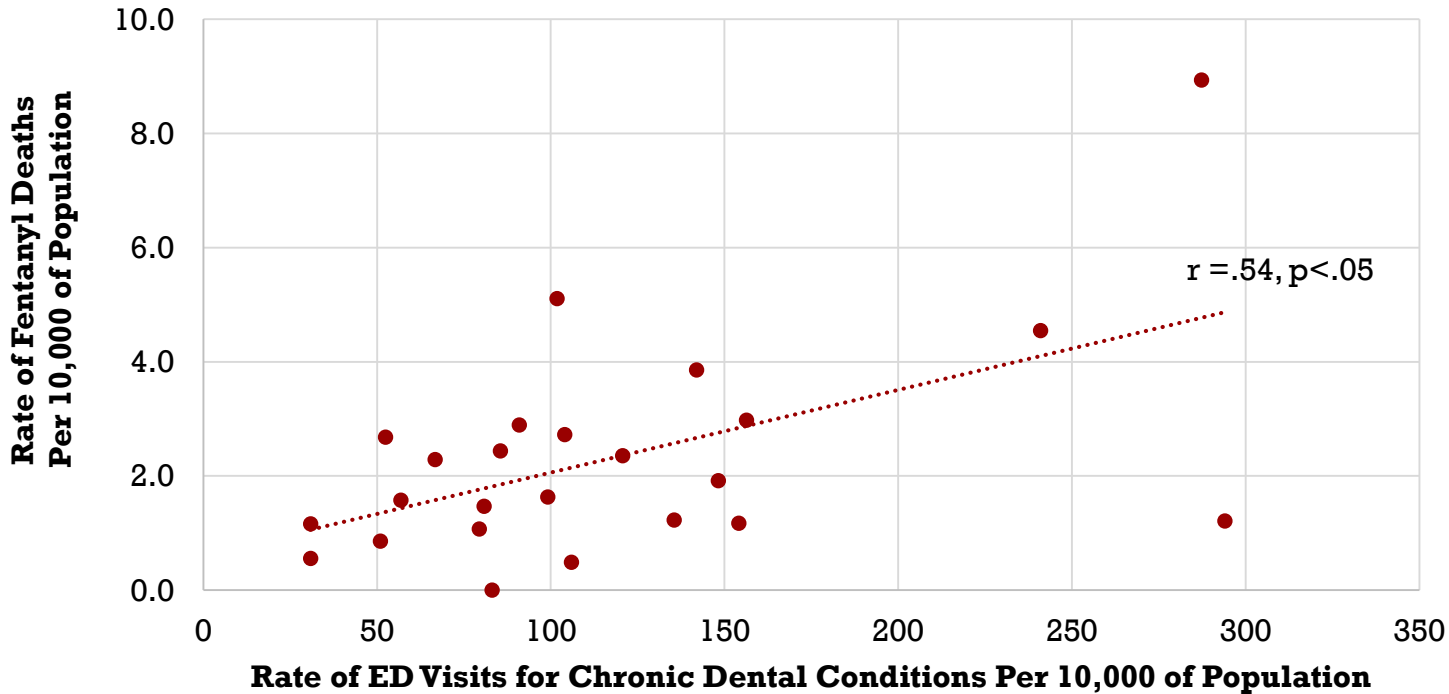
Medicaid Private Insurance
Uninsured Other/Unknown

SOURCE: <https://www.kff.org/infographic/medicaids-role-in-addressing-opioid-epidemic/>

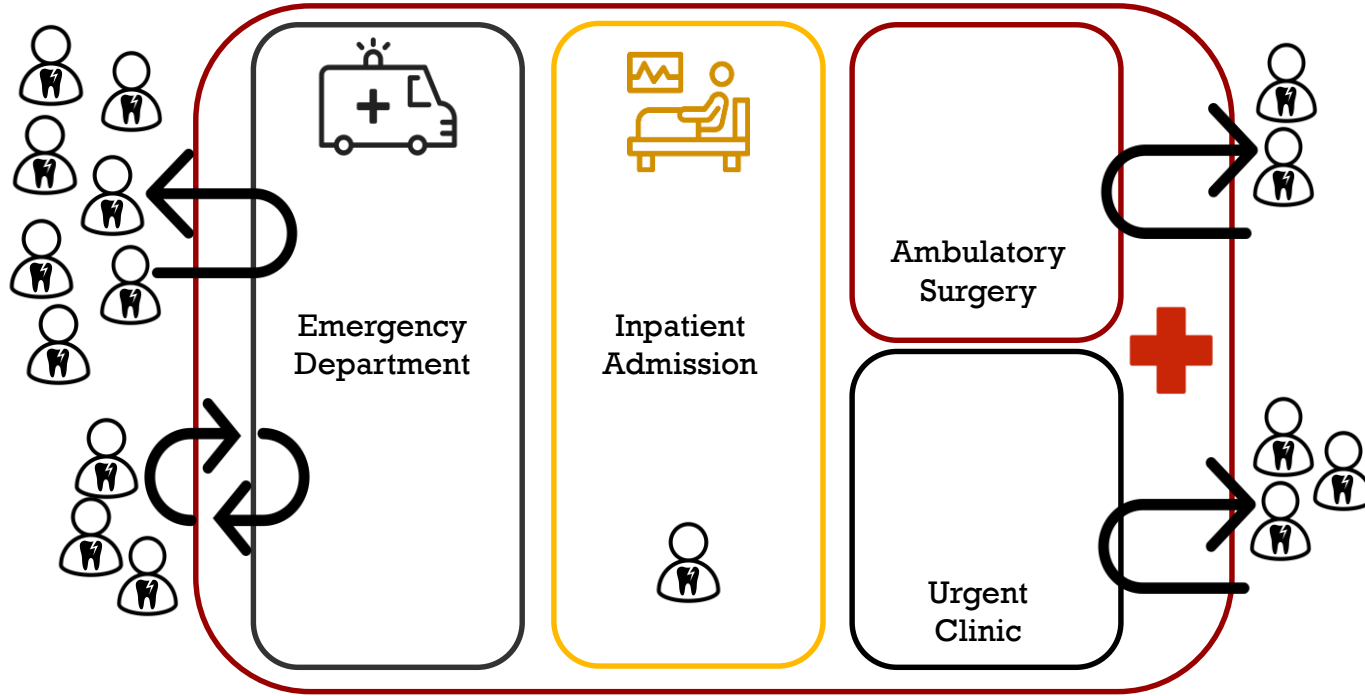
Counties with More Dental ED visits have more Opioid Deaths 2016



Counties with More Dental ED visits have more Fentanyl Deaths 2016



Hospital Utilization for Dental



The Bottom Line for 2016

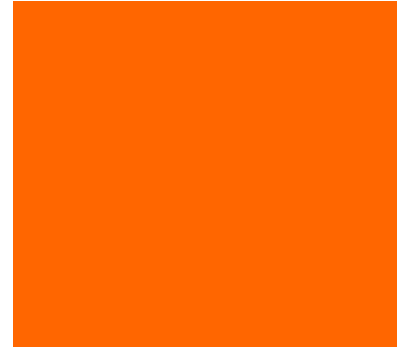
All Adults

- Direct Medical Charges: \$26.4
- Underreporting: \$8.4 Million
- Lost productivity: \$3 Million
- Total: **\$37.8 Million**

Medicaid Adults

- Direct Medical Charges: \$11.4
- Underreporting: \$1.2 Million
- Lost productivity: \$1 Million
- Total: **\$13.6 Million**

* underreporting and lost productivity are estimates and requires further study



Better Oral Health for All Marylanders: Children and Adults