THE SHIFTING STATE OF ORAL HEALTH IN MISSOURI

Dr. John Dane, DDS, FAAHD, DABSCD

Dental Director

Missouri Department of Health and Senior Services

Missouri Department of Social Services

DISCLOSURE & CONFLICT OF INTEREST DECLARATION

I declare that neither I nor any member of my family have a financial arrangement or affiliation with any corporate organization offering financial support or grant monies for this continuing dental education program, nor do I have a financial interest in any commercial product(s) or service(s) I will discuss in the presentation.

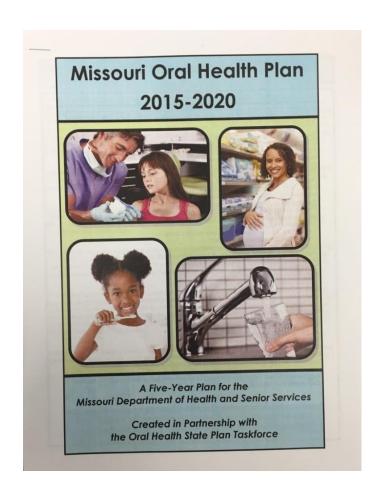
OBJECTIVES

- Review where we started in 2016
- Where we are now
- 2015 State Oral Health Plan
- Challenges and Barriers
- Opportunities
- 2018 priorities

PRIORITIES 2016

- Dental Sealants Delta Dental Foundation Grant
- Adult Dental Care- Started January 2016 full May 2016
- Access 8 dentist SLRP
- Medicaid Improvements Managed Care started May 2017
- Underserved only 35% of Medicaid eligible children seen 2016
- Fluoride 4 PWS stopped fluoridating
- Education First graduating class AT Still MOSODOH
- Opioid Diversion Major problem
- Sustainability ?

MISSOURI ORAL HEALTH PLAN



WHERE ARE WE IN THE PLAN

- Goal 1. Identify, investigate, monitor, and report on oral health problems, determinants, and disparities.
- Goal 2. Coordinate and participate in policy development aimed at improving oral health in Missouri.
- Goal 3. Be a resource that provides up-to-date, evidence-based information on oral health issues for medical and dental professionals.

WHERE WE ARE IN THE PLAN CONT.

- Goal 4. Increase awareness and knowledge about the importance of oral health across the lifespan.
- Goal 5. Implement and collaborate with programs that focus on prevention of oral disease.
- Goal 6. Reduce disparities and promote oral health across the lifespan.

WHERE WE ARE IN THE PLAN CONT.

- Goal 7. Support and enhance access to preventive oral health services and appropriate emergency dental care.
- Goal 8. Support the development of the oral health workforce.
- **Goal 9.** Implement, evaluate, and report on the Missouri Oral Health Plan: 2015-2010.

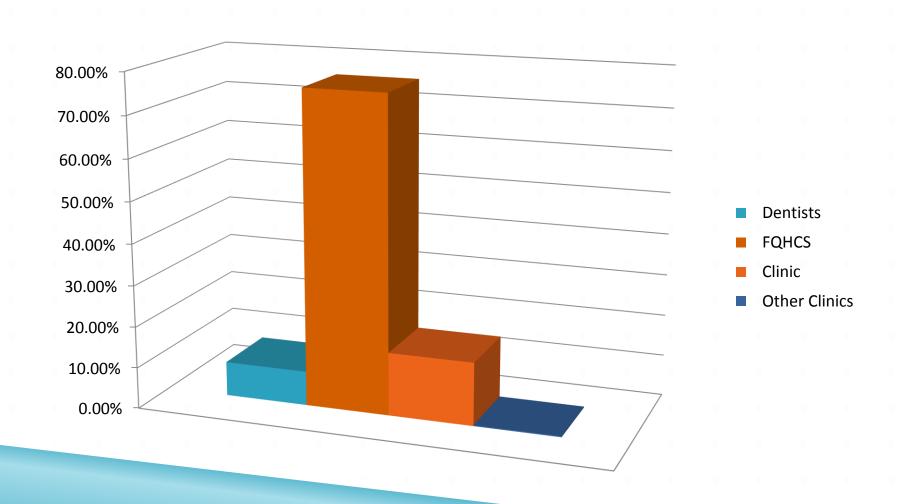
Appendix 1. National Oral Health Surveillance System Components with Missouri and National Statistics and Healthy People 2020 Objectives

Indicator	Indicator Missouri		Year	Missouri 2020 Objective
Percentage of Adults Who Have Visited a Dentist in the Last Year	61.8%	67.2%	2012	67.2%
Complete Tooth Loss Among Adults 65 and Older	65 and Older: 24.9% (65 to 74 year-olds: 23.9%)	65 and Older: 16.1%	2012	(65 to 74 year- olds: 21.6%)
Loss of 6 or more Teeth Among Adults 65 and Older	53.5%	43.1%	2012	48.2%
Percent Served by Community Water Systems that Receive Fluoridated Water	76.4%	74.6%	2012	80.0%**
Caries Experience Among Third Grade Students	54.7%	55.4%	2005	6 to 9 year-olds: 49%
Untreated Tooth Decay Among Third Grade Students	27.0% 26.1%		2005	6 to 9 year-olds: 25.9%
Dental Sealants Among Third Grade Students	28.6% 37.8% 20		2005	6 to 9 year-olds: 31.5%**
Cancer of the Oral Cavity and Pharynx Incidence	11.1 per 100,000 10.8 per 100 population population		2010	10.8/ 100,000**

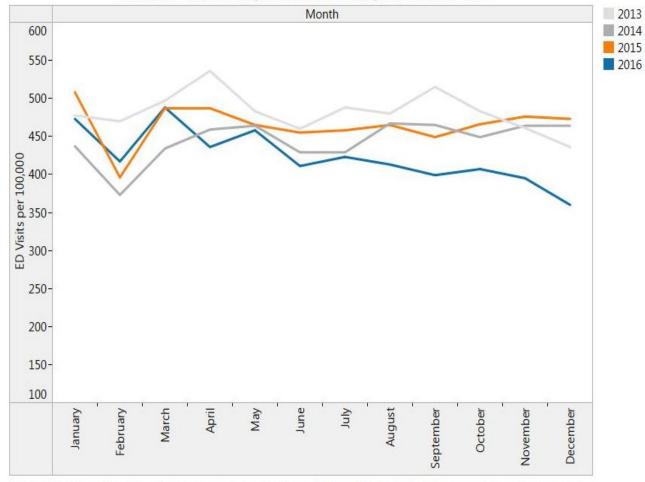
MEDICAID ADULT DENTAL SERVICES PROVIDED MAY 2016-2017

- Total Claims Paid: 364,916
- Provider Participation: 86% paid to FQHC providers
- Value of reimbursements: \$28,898,274

DISTRIBUTION BY PROVIDER TYPE

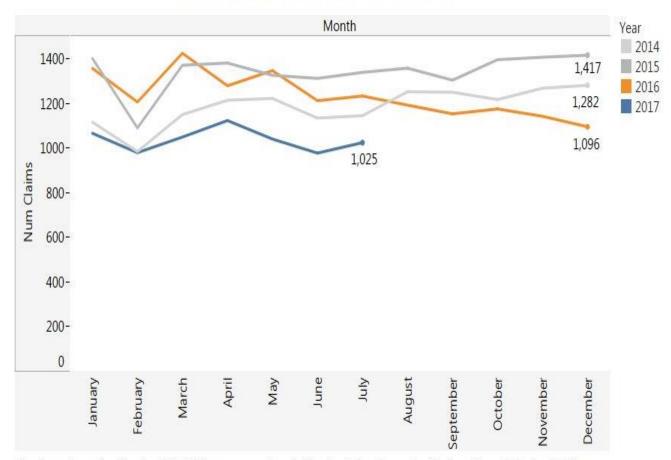


Annual Dental Visits per 100,000 Participants 2013-2016



The trend of Num Claims for Month. Color shows details about Year. A Revised Policy was in place effective Jan in 2016. Since then the number of ED visits has decreased as illustrated by the Blue Line.

Dental ED Visits 2014 - 2017 YTD



The chart shows the Number (#)of Claims processed each Month. Color shows details about Year. A Revised Policy was in place effective Jan 2016. Since then the number of ED visits has decreased as illustrated by the Blue Line.

MEDICAID PARTICIPANTS ER UTILIZATION

- ► About 5.3% of eligible FFS Participants have had claims processed for non-emergent Dental ED claims 2013 2016
- ► Average ER reimbursement for FFS is \$269.71 including physician's fees.
- ▶9.52% total decrease in ER, FFS Medicaid Claims in 2016 compared to 2015.
- December 2016 had a monthly 11% decrease compared to December 2015.

FLUORIDE VARNISH IN WIC PROGRAMS

- Initial Pilot Project 3-4 LPHA's
- Limited funding from Managed Care Organizations
- Planned start up this spring
- Working with MCOH.

DENTAL SEALANTS

- 2016 Grant from Delta Dental Foundation for 3 years with optional 2 years
- Four contracts awarded in February 2017
- Program development by contractors and first sealant event by the end of June 2017
- Fall 2017 provided the full start of the Sealant Program
 - First half of the year reports 3914 sealants placed
- Barriers we have seen, providers, school cooperation and billing

TELEDENTISTRY - WHERE WE ARE NOW

- MHN Provider Bulletin on <u>Telehealth</u> (Vol. 40, No. 47)
- HB 1617 revision of telehealth statute
- Missouri Dental Board Rules
 Revised, Effective 1/1/2018



ACCESS TO DENTAL CARE

DID YOU KNOW?

- Dental Hygienists in a public health setting can enroll as Medicaid providers
- Dental Hygienists in a public health setting can provide preventive dental services including sealants.
- Under teledentistry dental hygienists can perform examinations, x-rays, periodontal probing and photographs to be forwarded to a dentist for a diagnosis. Then the dental hygienist can perform preventive services in that remote location.

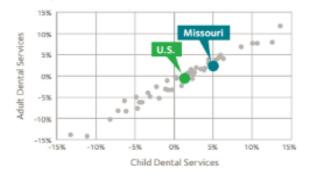
Oral Health Care System: **Missouri**

Change in Private Dental Benefit Plan Charges Between 2003 and 2013

CHANGE IN PRIVATE DENTAL BENEFIT PLAN CHARGES
BETWEEN 2003 AND 2013

CHILD ADULT

MISSOURI 5.0% 2.5%
U.S. 1.2% -0.6%



Medicaid Fee-for-Service Reimbursement as a Percentage of Private Dental Benefit Plan Charges for Child Dental Services

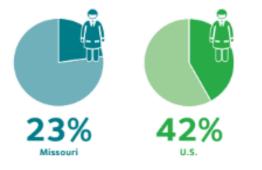




Number of Dentists per 100,000 Population



Percentage of Dentists Participating in Medicaid for Child Dental Services in 2014

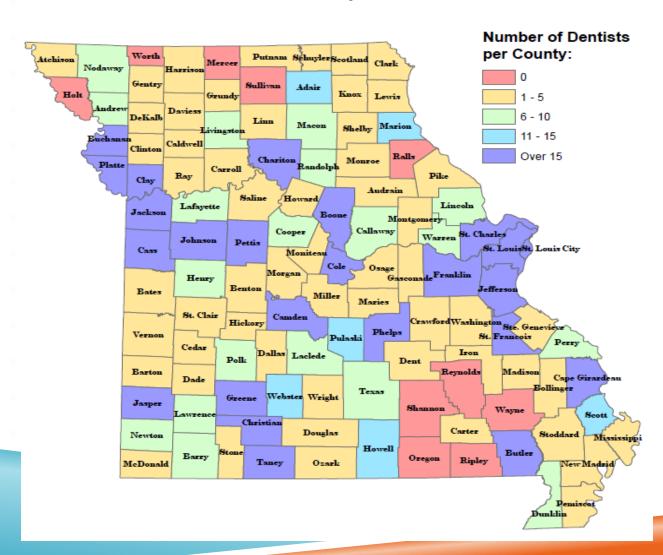


We are 41st!!!!!!

WHERE DO WE RANK ON DENTIST TO POPULATION RATIO

DENTIST DISTRIBUTION IN MISSOURI

Dentists Per County, March 2018



MASSACHUSETTS HAS THE BEST RANKING OF 80 DENTISTS/100,000 PEOPLE

State	Rank	Ratio/100,000	# of Dental Schools
Missouri	41	48.5/100,000	2
Kansas	37	50/100,000	0
Iowa	34	51.9/100,000	1
Nebraska	13	65.1/100,000	2
Illinois	12	67.4/100,000	3
Kentucky	25	54.6/100,000	2
Tennessee	40	49.2/100,000	1
Arkansas	50	41/100,000	0

MISSOURI LICENSURE STATISTICS

Fiscal Year	Dentists	Specialists	Hygienists
2002	3029	592	2419
2017	3288	689	4085
Percent Increase	8.5%	16.3%	68.8%

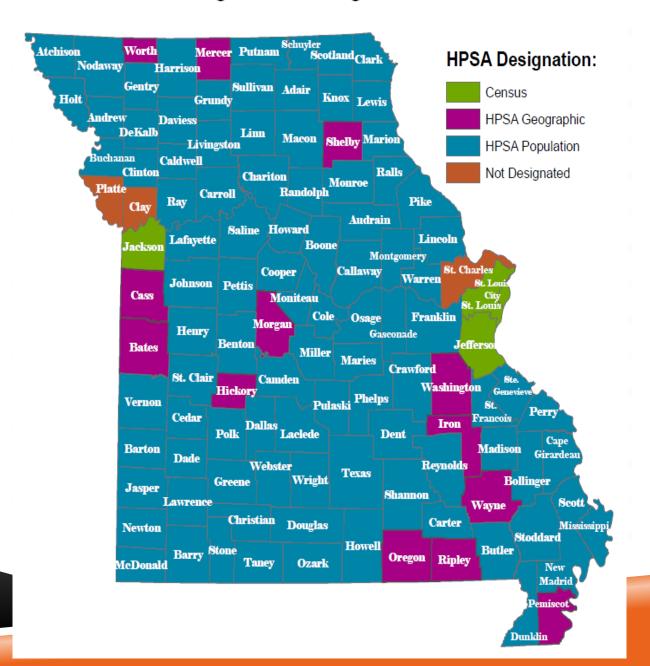
WHERE DO THE DENTISTS COME FROM?

New Dentist Applications	By Examination	By Credentials	Total
2013	158	39	197
2017	176	76	252
Percentage Increase	11.3%	94.8%	27.9%

REASONS FOR INCREASE

- New generation don't seem to mind moving from state to state
- Missouri accepts all clinical competency examinations
- Missouri's initial licensure fees are lower
- New Dental Hygiene programs accredited in Missouri
- Two year license renewal with low fees

Dental Shortage Area Designation- 01/2018



MO HEALTHNET MISSOURI MEDICAID

MISSOURI MEDICAID PROGRAMS

- 4 possible payers for Missouri Medicaid
 - MO HealthNet FFS
 - Home State Health Envolve
 - United Health Care Dental Benefit Providers
 - Missouri Care DentaQuest
- Coverage is dictated by MO HealthNet Policy and the Managed Care Contract https://dss.mo.gov/business-processes/managed-care/
- By contract, MCO's can develop their own payment criteria
 - Should be available to all participating providers
 - Not necessarily identical to MO Health Net

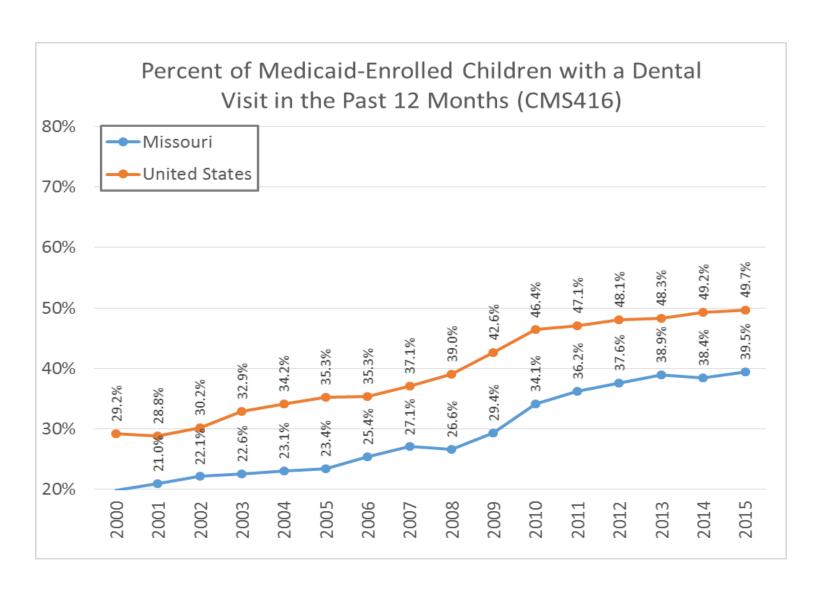
WHEN A NEW CODE IS ADDED

- MO HealthNet goes thru a decision making process to determine whether a code should be added, D1354 Silver Diamine Fluoride
- Once determined that the code should be covered a Provider Bulletin is developed and approved.
- The approved Bulletin is published on the MO HealthNet Website and then becomes the current Policy for that code or codes.
- The MCO plans will reimburse for that code from that date.
 - Each plan will need to update their systems to process that code.
 - Once in place the plans will reimburse back to the date published.

ADA CODES ADDED IN 2018

Proc Code	W/O Copay	Proc EFDT	Description	Restrictions
D5511	\$ 63.94	01/01/2018	REP BROKE COMP DENT BASE MAN	
D5512	\$ 63.94	01/01/2018	REP BROKE COMP DENT BASE MAX	
D5611	\$ 65.49	01/01/2018	REP RESIN PART DENT BASE MAN	
D5612	\$ 65.49	01/01/2018	REP RESIN PART DENT BASE MAX	
D5621	\$ 91.63	01/01/2018	REP CAST PART FRAME MAN	Op Report Required
D5622	\$ 91.63	01/01/2018	REP CAST PART FRAME MAX	Op Report Required
D7296	\$ 87.19	01/01/2018	CORTICOTOMY, 1-3 TEETH	
D7297	\$ 174.38	01/01/2018	CORTICOTOMY, 4 OR MORE TEETH	
D8695	\$ 325.00	01/01/2018	REMOVE FIXED ORTHO APPLIANCE	
D9222	\$ 113.33	01/01/2018	DEEP ANEST, 1ST 15 MIN	
D9239	\$ 113.33	01/01/2018	IV MOD SEDATION, 1ST 15 MIN	
D9995	\$ 14.60	01/01/2018	TELEDENTISTRY REAL-TIME	
D9996	\$ 14.60	01/01/2018	TELEDENTISTRY DENT REVIEW	

DENTAL CARE USE

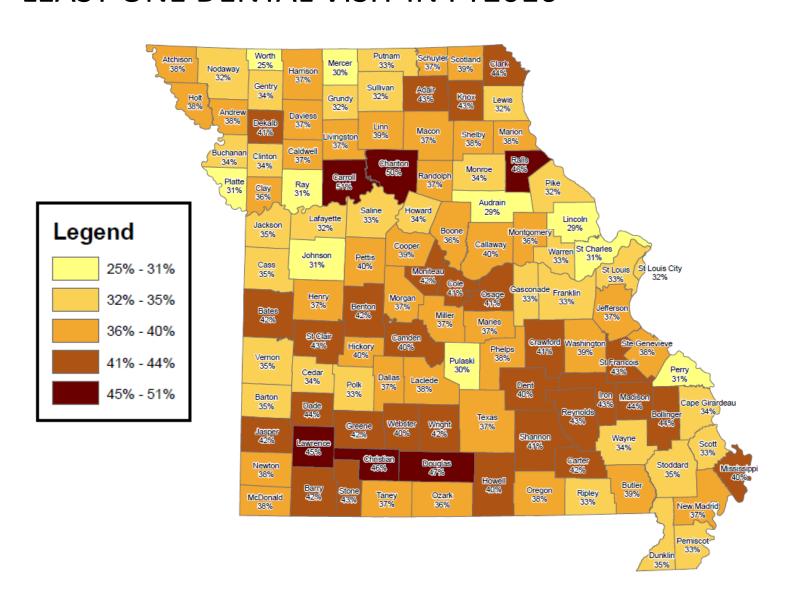


2016 EPSDT 416 REPORT ON DENTAL SERVICES

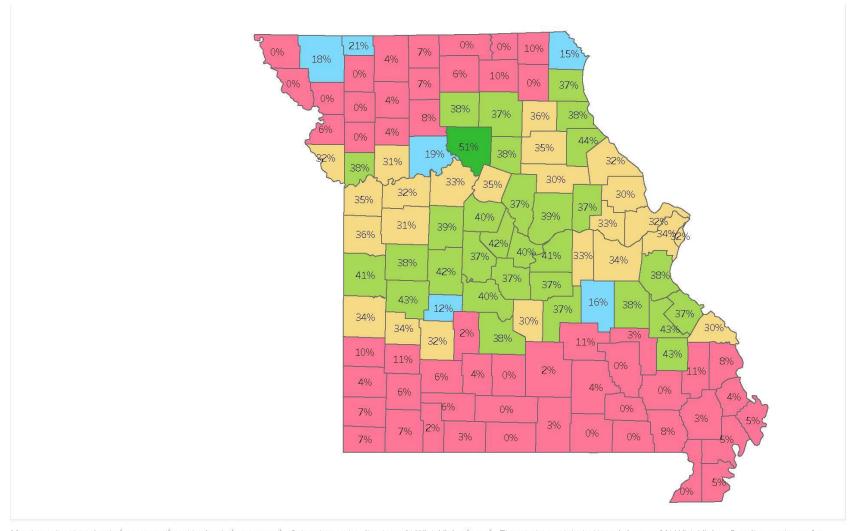
Total eligible 717324

12a. Total Eligibles Receiving Any Dental Services	CN:	250,529	▶ 12a. 34.9% Any services
	MN:	0	
	Total:	250,529	
12b. Total Eligibles Receiving Preventive Dental Services	CN:	224,849	▶ 12b. 31.3% preventive
	MN:	0	
	Total:	224,849	services
12c. Total Eligibles Receiving Dental Treatment Services	CN:	107,803	▶ 12c, 15% dental treatment
	MN:	0	12c, 13/0 dental treatment
	Total:	107,803	▶ 12d. 5% dental sealants
12d. Total Eligibles Receiving a Sealant on a Permanent Molar	CN:	37,450	
	MN:	0	
Tooth	Total:	37,450	120 22 00/ diagnostic complete
12a Total Eligibles Resolving Dental	CN:	236,540	▶ 12e. 32.9% diagnostic services
12e. Total Eligibles Receiving Dental	MN:	0	
Diagnostic Services	Total:	236,540	
12f. Total Eligibles Receiving Oral Health Services provided by a Non-Dentist Provider	CN:	4,498	▶ 12.F 0.6% non-dentist
	MN:	0	
	Total:	4,498	
12g Total Eligibles Descriving Any	CN:	252,421	▶ 12g. 35% Any dental or oral
12g. Total Eligibles Receiving Any Dental Or Oral Health Service	MN:	0	,
Dental Of Oral fleatiff Service	Total:	252,421	health service.

PERCENT OF MO HEALTHNET CHILDREN WITH AT LEAST ONE DENTAL VISIT IN FY2016



Managed Care Members 20 and Younger



Map based on Longitude (generated) and Latitude (generated). Color shows details about % With Visits (copy). The marks are labeled by minimum of % With Visits. Details are shown for County. The data is filtered on Age Group and FFSM Cind. The Age Group filter keeps 20 and younger. The FFSM Cind filter keeps MC. The view is filtered on minimum of % With Visits and County. The minimum of % With Visits filter keeps all values. The County filter keeps 115 of 115 members.

Fee-For-Service Participants 20 and Younger

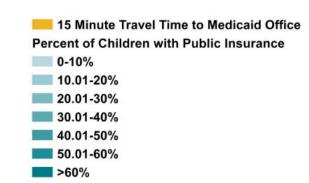


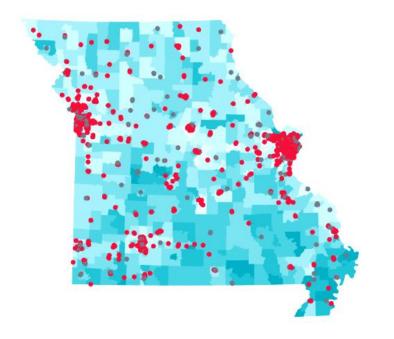
Map based on Longitude (generated) and Latitude (generated). Color shows details about % With Visits (copy). The marks are labeled by minimum of % With Visits. Details are shown for County. The data is filtered on Age Group and FFSM Cind. The Age Group filter keeps 20 and younger. The FFSM Cind filter keeps FFS.

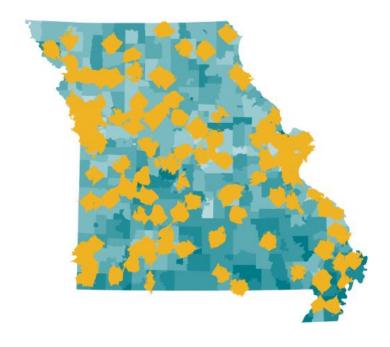
GEOGRAPHIC ACCESS

Dental Offices Office Does Not Participate in Medicaid Office Participates in Medicaid Percent of Children with Public Insurance 0-10% 10.01-20% 20.01-30% 30.01-40% 40.01-50% 50.01-60%

>60%







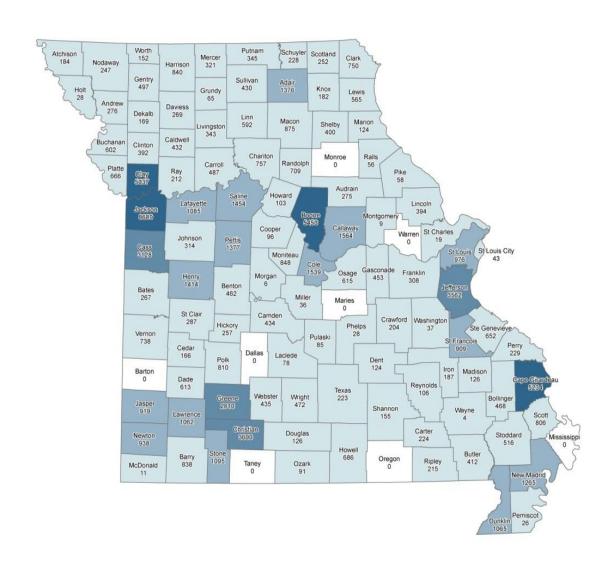
MEDICAID PROVIDERS TODAY*

- **2016 722**
- **2018**
 - ▶ Dentists 903
 - ► Dental Hygienists 52
 - ▶ Pediatric Dentists 3

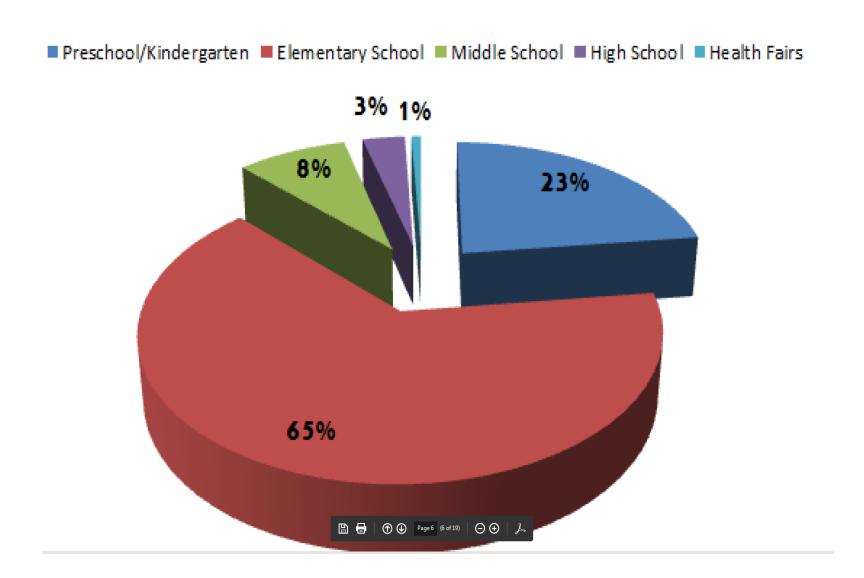
* Mo Medicaid Audit and Compliance – January 2018

PREVENTATIVE SERVICE PROGRAM (PSP)

NUMBER OF PSP PARTICIPANTS BY COUNTY, 2015-2016



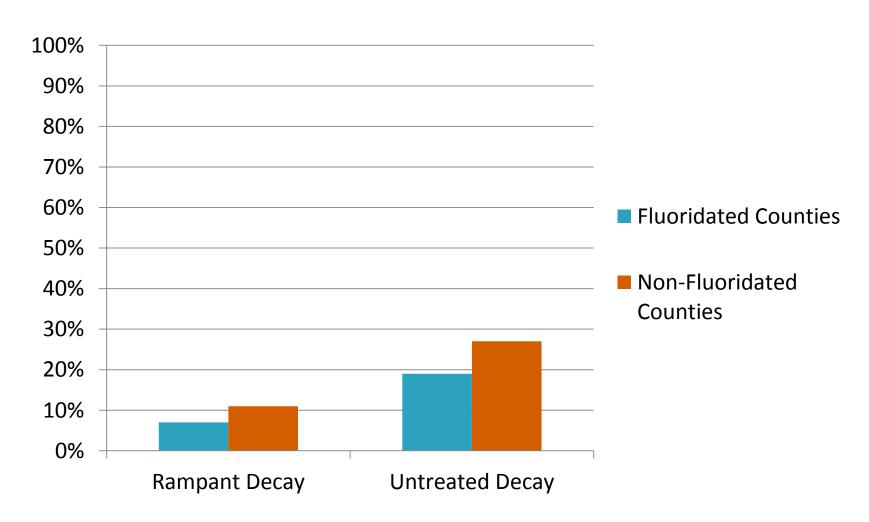
PSP PARTICIPANTS BY GRADE LEVEL



3.77% DECREASE IN DECAY EXPERIENCE IN 3RD GRADERS OF PSP PROGRAM

School Year	Decay Experience	Total Screened	% Decay Experience
2013-2014	6710	9978	67.25%
2014-2015	7292	11170	65.28%
2015-2016	7129	11328	62.93%
2016-2017	8374	13192	63.48%

TOOTH DECAY IN CHILDREN



HISTORY OF RAMPANT CARIES PSP 2017

	Rural County	Urban County	Totals	Percentage
Blank	725	522	1247	1.34%
No	46723	38052	84775	91.4%
Yes	3752 (7.3%)	2918 (7%)	6670	7.1%
total	51200	41492	92692	

MORE PSP DATA

 20.1% of all children in the PSP 2017 data had untreated decay

• 18% of all children in PSP 2017 data had sealants.

OPIOIDS PRESCRIBING

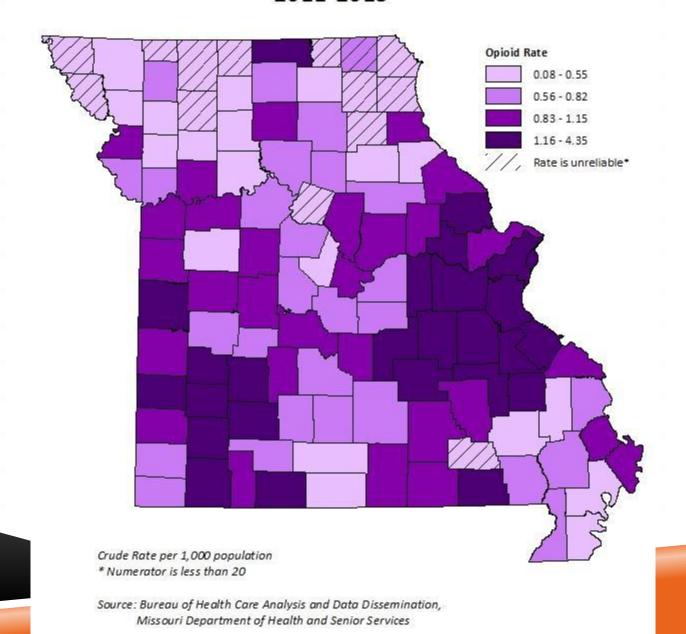
OPIOID PRESCRIPTIONS

- Since 1999 all opioid pain reliever prescriptions have quadrupled
- 2013 dentists were the fifth most frequent prescribers of opioid analgesics* a drop from 2010 when they were #3
- 2008 study in Utah 72% of dental patients reported having leftover opioids from prescriptions
 - 71% kept the leftover drugs
- According to Nationwide Children's Hospital 1 in 5 high school students report misusing prescription drugs more than 50% are opioids.

MISSOURI

- 2016, 89,000 prescriptions for narcotics per 100,000 Missourians*
- 2016, 1364 deaths by drug overdose, the January 2017 statistics for death by drug overdose had already surpassed the January 2016 total*
- Missouri is one of 22 states that registers a drug overdose rate above the national average. – CDC
- Missouri now will allow anyone to purchase Naloxone (Narcan) without a prescription for personal use.
- MO Hope Project \$20 million grant from HRSA to DMH for education and response to the opioid crisis.- DHSS.gov
- Opioid prescriptions are restricted for pediatric patients MO Health Net 2017

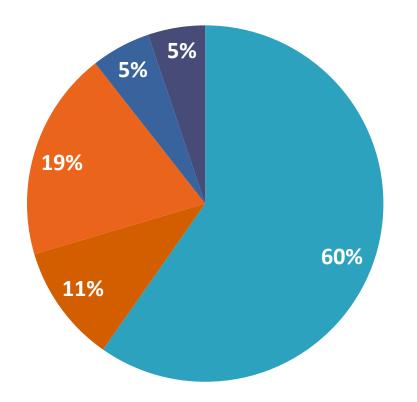
ER Visits Due to Opioid Misuse 2011-2015



MISUSED DENTAL OPIOID PRESCRIPTIONS

 NSDUH survey definition of misuse - use with out a personal prescription or simply for the experience of feeling the drugs caused.

Most Common Sources



- Free from friend or family member
- Bought from friend or family member
- Leftover from Rx from legitimate problem
- Took from friend or family without asking
- Obtained from drug dealer or stranger

2016 STUDY ON OPIOIDS PRESCRIBED FOR OUTPATIENT DENTAL SURGERY

- 79 patients in two groups Rx 28 tablets
- Control group was given routine instructions
- Experimental group was given same instruction plus disposal information.
- Experimental group was 22% more likely to dispose of remaining tablets properly
- An average of 15 tablets left over (54%)
 1010 tablets were used for the study
- What happens to those drugs?
- SB 826 and HB 1618



MO SENATE APPROVES DRUG TAKE BACK PROGRAM SB 816, HB1618

- The bill would make it easier for patients to dispose of unused prescription medications
- Currently pharmacies can only take back prescriptions that they dispensed
- ▶ Bill would allow patients to dispose of unused opioids at Federally authorized disposal sites
- Bill would limit the number of opioids dispensed for the initial prescription to 7 days
- Must be passed by the House of Representatives.

MO HEALTHNET DENTAL PRESCRIPTIONS MARCH 2017

- 6,008 prescriptions
- Average 3.8 day supply
- Very few prescriptions for over 5 day supply
- 10 for 14+ days, linked to mandibular fractures

CONCLUSION

- Dentists in general weren't considering the strength of analgesics didn't match the expected discomfort.
- Most dentists weren't aware of the problem of leftover medication
- A national prescription audit by IMS Health...showed ER and dentists with the largest percentage decrease in opioid prescriptions of 5.7% since 2010.
- The profession needs to continue to improve awareness such as:
 - ADA practical guide to Substance Abuse Disorders and Safe Prescribing 2015
 - ADA Guidelines on the Use of Opioids in the Treatment of Dental Pain 2016
 - Increase Webinars, CE courses availability
 - Consider requirement for CE about the problem for licensure.

FLUORIDATION

COMMUNITY WATER FLUORIDATION

CDC named water fluoridation as one of 10 great public health achievements of the 20th Century



FLUORIDATION

HB 2213 - Requires Public Water Systems to request Evidence Based Fluoridation information from the Local Public Health Agency before deciding to change the fluoride levels in their water.

FLUORIDATION EDUCATION

 The Community Fluoridation on-line course it now housed at https://canvas.instructure.com/courses/1089951



developed by the Missouri Water Resources Research Center (MO WRRC)

FLUORIDATION EDUCATION

- Fluoridation Introduction (<u>Module 1 Fluoridation Introduction Part 1</u>)
- Fluoridation Costs/Benefits (<u>Module 2 Fluoridation Benefits Part 1</u>)
- Drinking Water Treatment Overview (<u>Module 3 Overview of Water Treatment</u>
 <u>Part 1</u>)
- Fluoridation Technology and Equipment (<u>Module 4 Water Fluoridation</u> <u>Equipment Part 1</u>)
- Fluoride Analysis/Laboratory Techniques/Safety (<u>Module 5 Laboratory Analysis</u>
 <u>Part 1</u>)
- Fluoridation System Design (<u>Module 6 Fluoridation System Design Part 1</u>)

FLUORIDATION EDUCATION

- We anticipate that when participants are finished with these modules, they will:
 - Be able to have informed conversations about community fluoridation.
 - Understand levels of fluoride commonly found versus levels desired.
 - Realize that there is no one size fits all fluoridation system.
 - Be able to identify where in a typical treatment train fluoride is added

SURVEY OF WATER DEPARTMENTS IN MO

- Survey just beginning, 10 facilities have been visited as of December 2017
- ▶ All of the drinking water treatment facilities used acid-fed systems regardless of population.
- Most facilities used carboy storage systems.
- Most facilities received chemical from Hawkins.
- Many facilities have/are moving to peristaltic pumps.

Appendix 1. National Oral Health Surveillance System Components with Missouri and National Statistics and Healthy People 2020 Objectives

Indicator	Missouri	National	Year	Missouri 2020 Objective
Percentage of Adults Who Have Visited a Dentist in the Last Year	61.3%	67.2%	2016	67.2%
Complete Tooth Loss Among Adults 65 and Older	65 and Older: 18.4% (65 to 74 year-olds: 23.9%)	65 and Older: 16.1%	2016	(65 to 74 year- olds: 21.6%)
Loss of 6 or more Teeth Among Adults 65 and Older	53.5%	43.1%	2016	48.2%
Percent Served by Community Water Systems that Receive Fluoridated Water	76.4%	74.6%	2016	80.0%**
Caries Experience Among Third Grade Students	63.48%	55.4%	2017	6 to 9 year-olds: 49%
Untreated Tooth Decay Among Third Grade Students	20.9%	26.1%	2017	6 to 9 year-olds: 25.9%
Dental Sealants Among Third Grade Students	26.2%	37.8%	2017	6 to 9 year-olds: 31.5%**
Cancer of the Oral Cavity and Pharynx Incidence	11.1 per 100,000 population	10.8 per 100,000 population	2010	10.8/ 100,000**

Notes:

Missouri adopted Healthy People 2020 objectives except where noted.

*BRFSS= Behavioral Risk Factor Surveillance System

PRIORITIES 2018

- Sustainability funding for Dental Director and expansion of program
- Medicaid Continuing Adult Dental Care
- Dental Sealants Work to expand programs
- Access Look for new ways to get dental care into Underserved areas/populations
- Underserved improve on 35% of Medicaid eligible children seen 2016
- Fluoride continue advocacy and start on line training
- Education Provide education to public and profession on Priorities
- Opioid Diversion Continue Education efforts about Diversion
- Plan for new State Oral Health Plan for beyond 2020

OPPORTUNITIES

- HRSA Oral Health Workforce Grant
 - Competitive 4 year, \$400.000/year with 40% match
 - Proposed, teledentistry, fluoride varnish in WIC and Dental Director Position
- CDC Cooperative Agreement with Oral Health Programs
 - NOFO due in March

CHALLENGES

- ▶ Decreased funding from Maternal Child Health Block Grant 30%
- Delayed funding from CDC/PHHS
- Missouri Legislature wrestling with deficit
- ► Limited other funding resources.

Contact information

- ▶ John Dane, DDS
- ► Office of Dental Health
- Missouri Department of Health
- ▶ 912 Wildwood
- ▶ Jefferson City, MO 65102
- **>** 5735263838
- ► John.dane@health.mo.gov

