



Capturing the Future



MISSOURI DEPARTMENT OF
**HEALTH &
SENIOR SERVICES**

Office of Dental Health

The Office of Dental Health: Updates, Initiatives and Action

Jacqueline Miller DDS, MS, MPH, Dental Director
Drue Barton, DDS, Associate Dental Director

Introducing:



**Drue Barton, DMD, MBA
Associate Dental Director**



MISSOURI DEPARTMENT OF
**HEALTH &
SENIOR SERVICES**

Office of Dental Health

Office of Dental Health Mission

We are committed to improving the oral health of all Missourians through education, prevention and leadership.

- Maternal and Child Health (MCH) Grant
 - Preventive Services Program (PSP)
 - Improving oral health to the MCH population
- Elks Mobile Dental Program
- Donated Dental Program
- Community Water Fluoridation Training, Equipment Repair and Replacement (PHSS and Delta Dental)
- Delta Dental Grant for Dental Assisting in High Schools
- HRSA (competitive 4-year grant)
 - Tele-dentistry in nursing homes and increasing dental services for veterans (Missouri Foundation for Health, Veteran's United, and Align Technology)
- CDC (competitive 5-year contract)
 - Sealant program
 - Community water fluoridation



ODH Strategic Goals



Goal 1: Enhance access to oral health services.



Goal 2: Provide current evidence-based oral health information.



Goal 3: Support the development of the oral health workforce.



Goal 4: Surveil and report on oral health problems.



Goal 5: Participate in policy development to improve health outcomes in Missouri.



**Goal 1:
Enhance
Access to Oral
Health Services**

We are making a difference!!

	FY22	FY23	Increase
Enrolled Total Participants	1,448,416	1,621,131	172,715
Unique Billing Dental Providers by NPI	743	845	102
Unique Participants Served	344,119	394,299	50,180
Participants Served Less than 21 Years of Age	271,456	294,872	23,416
Participants Served Age 21 Years and Older	73,027	100,146	27,119*

*Totals take in to account participants whose turned 21 within the timeframe

MMAC reported **101** new dental providers in FY2022 and **184** FY2023. According to the claims data, 845 of enrolled dentists billed and provided services in FY2023 which is an increase of 102 providers providing services and more importantly, **50,180** more Medicaid recipients had dental services.

**Let's celebrate
these wins!!**

MO HealthNet coverage of:

Periodic Oral Exam
(DO120)

Silver Diamine Fluoride



AHR Ranks MO as 41st in Maternal Oral Health —Healthy Teeth = Healthy Pregnancy

- 43.4% of Missouri Medicaid participants don't use pregnancy dental benefits —MO HealthNet provides comprehensive dental care for pregnant women and **one year post-partum** as of 2023!!



Meet Dr. Marcus Ramos-Pearson, now providing dental cleanings for the pregnant women of the Uzazi Village in Kansas City. The clinic was furnished with mostly donated equipment!

“If gum inflammation is treated during pregnancy, the risk of a baby being born preterm is reduced by approximately 50 percent.”

Professor Joerg Eberhard

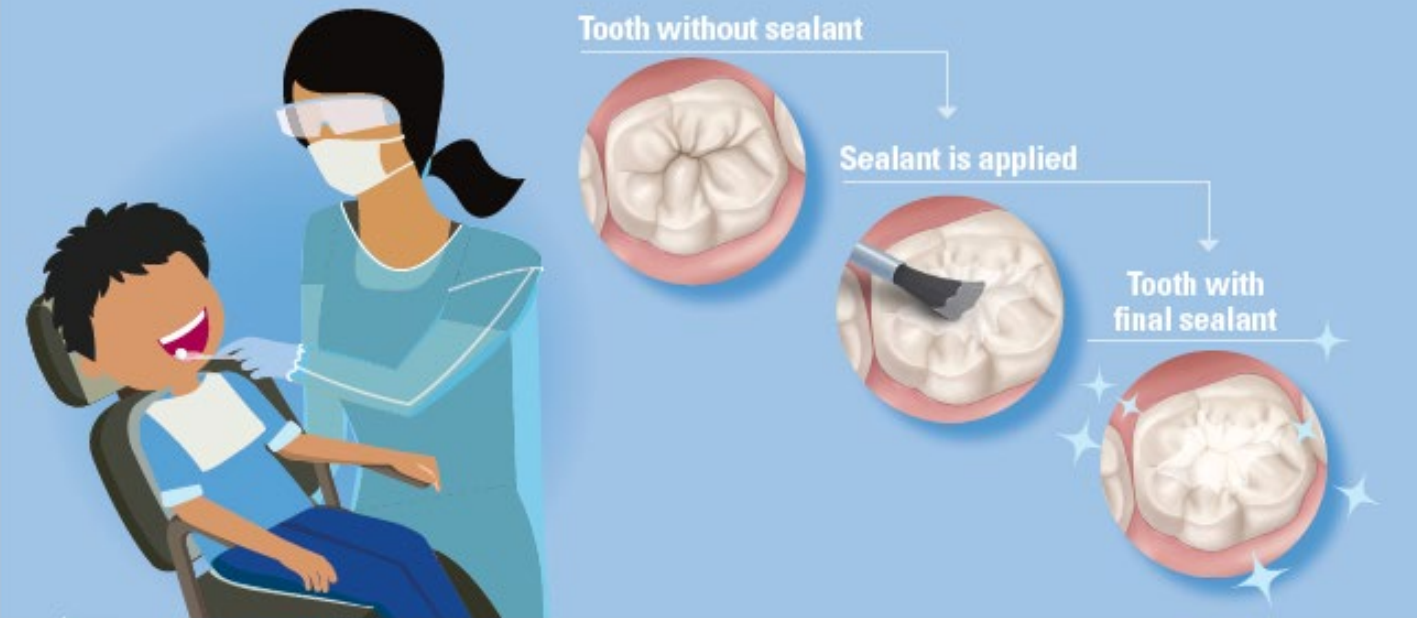


St. Louis Public School District Partnering with Colgate



SCHOOL BASED SEALANT PROGRAM

Dental sealants can prevent cavities when applied to molar teeth.



School-based programs are one way to reach millions of children with sealants to prevent cavities.

SCHOOL-BASED ORAL HEALTH PROGRAMS: **DENTAL SEALANTS**

BY THE NUMBERS



DENTAL SEALANTS

Dental sealants act as a shield for your teeth. They are thin, protective coatings that are applied to the back teeth, because the chewing surfaces are hard to keep clean. Teeth with sealants are less likely to be affected by germs and food, making it easier to avoid tooth decay. School-based sealant programs are an effective way to deliver preventive services to children who otherwise may not receive them. These services also help families save time and money!

THE NUMBERS

30

Preschools and schools with an oral health program during the 2022-2023 school year.

1,741

Children served by a school-based oral health program during the 2022-2023 school year.

4,505

Teeth that received a dental sealant during the 2022-2023 school year.

WHO WE HELP

PK-12th grade children served during the 2022-2023 school year.

43% of children served were eligible for Medicaid during the 2022-2023 school year.

48% of children served did not have dental health insurance during the 2022-2023 school year.

OUR PROGRAMS

The Missouri Department of Health and Senior Services funds school-based oral health programs that offer a variety of dental services in preschools and schools with a high number of children from low-income households. All programs provide services to help prevent cavities, such as fluoride varnish treatments, while some programs provide restorative services such as fillings.



Dental sealants



Low-cost dental care



Office of Dental Health



(573)751-5874



Oralhealth@health.mo.gov

ORALHEALTH.MO.GOV

30 Preschools and schools with an oral health program during the 2022-2023 school year.

1,741 Children served by a school-based oral health program during the 2022-2023 school year.

4,505 Teeth that received a dental sealant during the 2022-2023 school year.

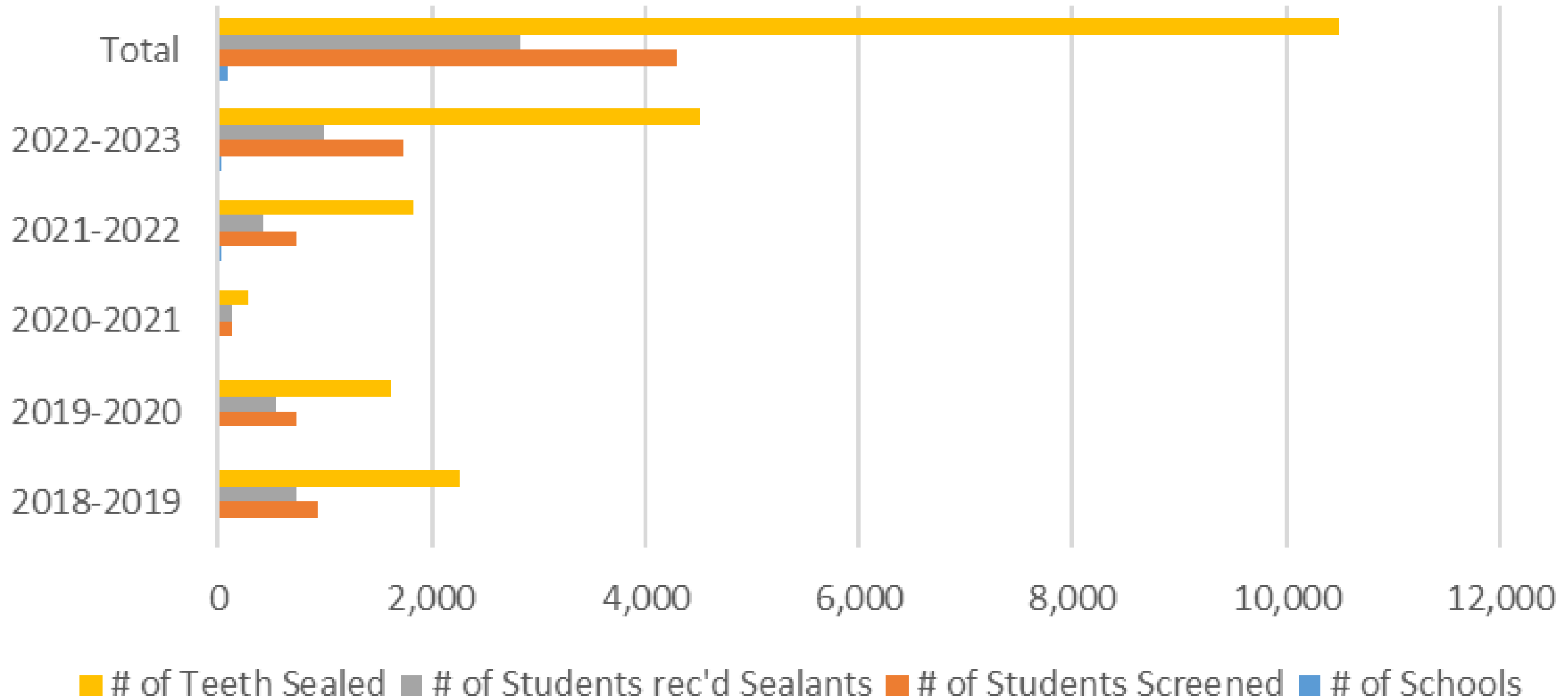
CDC Sealant Program 10,500 Sealants Placed

- CDC Funding of \$354,000 per year for five years, we hope to renew the grant in August 2024.
- Goal to provide sealants to students in high risk schools.
- Schools that had more than 50% of children on Free or Reduced Lunch Program (FRLP) participants.
- 90 schools have provided 4,293 student screenings
- Five Contractors, UMKC, Jefferson County HD, Lincoln County HD, Missouri Southern State University, and recently added St. Louis Community College.



Photo of sealed tooth courtesy of Ohio Department of Health

Sealant Program Data



Missouri School Children Dental Sealants Dashboard 2021-2022

of Participants in Sealant Program:
440

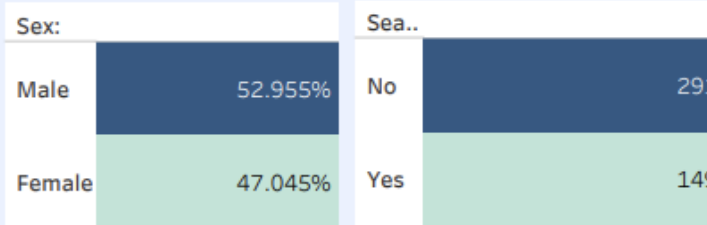
Percent of Participants by Race to Age Group

Race:	Age Groups		
	0-5 years old	6-12 years old	13+
White	71.43%	77.88%	76.04%
Multi-Racial		2.12%	1.04%
Decline		0.30%	
Black	28.57%	18.79%	20.83%
Asian		0.30%	
American In..		0.61%	2.08%

Oral Hygiene



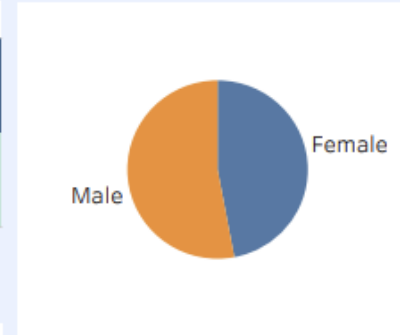
Gender



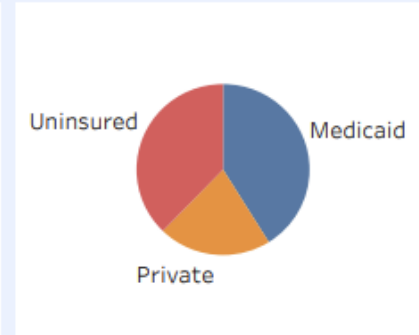
Sealants Present



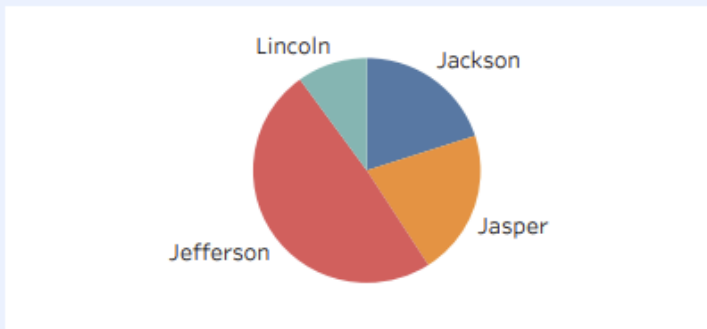
Teeth Sealed by Sex



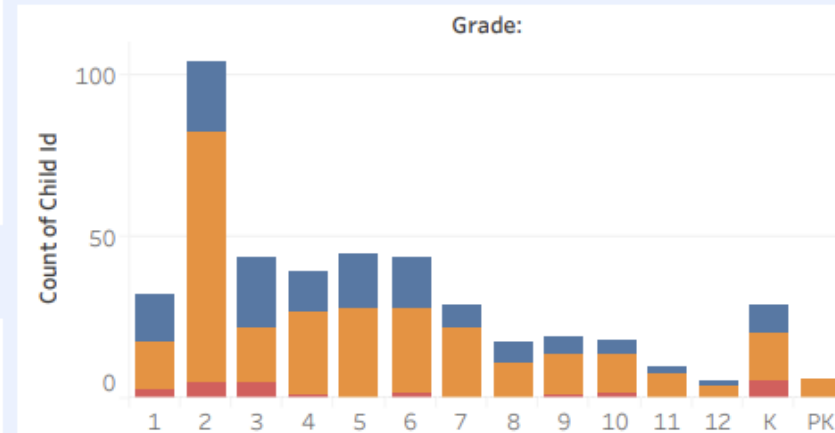
Insurance



Number of Teeth sealed by County



Treatment Urgency by Grade

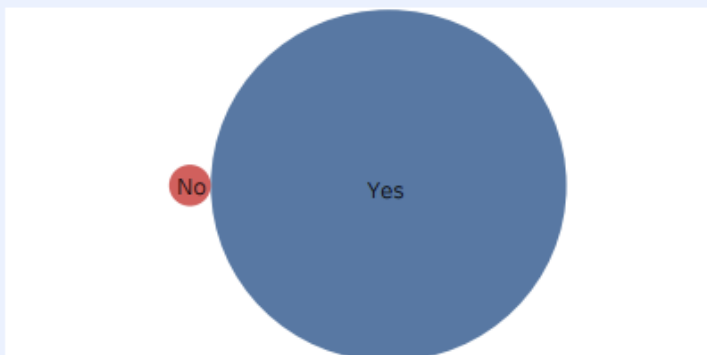


The dental sealant program helped the parents identify the level of urgency for dental treatment and provided referrals to dental clinics if follow up is needed. More Grade 2 children are screened since one of the contractors only saw Grade 2.

Treatment Urgency

Early Dental Care no obvious prob.. urgent care

Treated with Flouride Varnish



Missouri Rural Immersion Program

Inclusion of dental school students in program to further medical and dental integration and encourage rural practice opportunities in Missouri

UMKC

UNIVERSITY OF MISSOURI-KANSAS CITY

SCHOOL OF
DENTISTRY



Kansas City
University

ATSU

Missouri School of
Dentistry & Oral Health

SLRP

- Up to \$60,000
- Two-year, full-time service obligation
- DDS, DMD Required

HPLRP

- Up to \$65,000
- Two-year, full-time service obligation
- DDS, DMD Required

NHSC LRP

- Up to \$50,000
- Two-year, full-time or half-time service obligation
- DDS, DMD Required

S2S LRP

- Up to \$120,000
- Three-year service obligation
- Final year of dental school

NHSC Scholarship

- Tuition and eligible fees, other reasonable educational costs, and monthly stipend
- Two-year, full-time service obligation
- Full-time dental student

Missouri Southern State University & Rural Citizens Access to Telehealth Proposal (RCAT)

Objectives

- Promote and provide oral health education
- Decrease barriers and provide access to oral health education and preventive services
- Extend teledentistry outreach services to McDonald and Newton County
- Develop a sustainable program

Total cost for three (3) years of grant awarded was \$363,000

- Administrative coordinator salary,
- Part time dental hygienist salary
- Cargo van with lift
- Computer tablets
- Portable dental units
- Intra oral cameras.

Mobile Integrated Health and Rural Citizens Access to Telehealth Proposal (RCAT)

Objectives

- Working with Mobile Integrated Health to consider a grant to include an oral health review in their home visits.
- Promote and provide oral health education.
- Decrease barriers and provide access to oral health education and preventive services.
- Extend teledentistry outreach services to Washington County.
- Develop a sustainable program.
- May include hygiene services delivered in the home.

Teledentistry Pilot

- Teledentistry elevates the level of services to elementary schoolchildren
- In August 2024, a teledentistry pilot will begin in Benton Elementary School and Goodman Elementary School
- Teledentistry services will be provided in partnership with Freeman Neosho Hospital, which has an existing telemedicine agreement with the Neosho School District

Newton County school districts to be outfitted with telemedicine in partnership with Freeman

By Kimberly Barker kbarker@joplinglobe.com Oct 7, 2020 4 min to read



https://www.joplinglobe.com/coronavirus/newton-county-school-districts-to-be-outfitted-with-telemedicine-in-partnership-with-freeman/article_b97e082d-ce42-54f2-847e-08884e4c1d30.html

https://www.neoshosd.org/10230_2

Teledentistry

- Telemedicine carts are used to connect with and transmit information to providers
- Multiple attachments are available for the carts
- KCU College of Dental Medicine purchased 10 dental lenses through a grant
 - The dental lenses attach to the existing Horus Scopes used at the schools
- All services will be provided only with parental consent and protocols will be in place to safeguard patient confidentiality
- Children without a dental home can be seen at KCU's Oral Health Center to have their oral health needs met



<https://www.323.tv/product/horus-scope-dental-lens/>



<https://www.cdw.com/product/avizia-amwell-c500-ptz-20x-telemedicine-cart/6348908>

First-Aid/Trauma Kits

I would like to send a HUGE shout out to DHSS and the MO Office of Dental Health. I attended a school nurse event and received a dental trauma kit for our health office. Little did I know that we would be using the kit just a few months later. We had a student visit our office with a central tooth avulsion (upper front tooth was completely knocked out) after being hit by a ball. The trauma kit was utilized to transport the tooth to the dentist who successfully replaced the tooth in the socket, splinted the tooth and saved the smile.

From all of us, Thank You.,
DeAnna Newberry (Branson School Nurse)



10,000 Newborn Dental Kits in Development

We have submitted a “shovel ready” project for the newborn kits if the state has any lapsed funding is available.



Brushing for Two: Early Dental Health Starter Kit Video

The image shows a YouTube video player interface. At the top, there is a menu icon, the YouTube logo, and a search bar. The video player itself features a central thumbnail image of dental supplies including toothbrushes, toothpaste, and a flosser, with a QR code and the text 'Brushing for Two Early Dental Health Starter Kit' and 'oralhealth.mo.gov'. The video player includes a play button, a progress bar showing 0:03 / 4:10, and various control icons like volume, closed captions, settings, and full screen. Below the video player, the video title 'Brushing for Two: Early Dental Health Starter Kit - Office of Dental Health' is displayed, along with an 'Unlisted' status icon.

YouTube

Search

Play (k)

0:03 / 4:10

Brushing for Two
Early Dental Health Starter Kit

oralhealth.mo.gov

Brushing for Two: Early Dental Health Starter Kit - Office of Dental Health

Unlisted

Elks Dental Van

- Delivering care to children and adults with developmental or intellectual disabilities

Year	Patient Visits	Procedures	Estimated Value	Number of Counties Served	Notes
Totals for SFY19	546	4945	\$ 234,013.00	60	Start of COVID
Totals for SFY20	441	3900	\$ 182,756.00	58	
Totals for SFY21	429	3716	\$ 183,799.00	80	
Totals for SFY22	430	3599	\$ 191,870.00	71	RDH & DDS retired

- Two mobile units one on east side of the state and one on the west
- UMKC dental students working one week a month on KC side.
- Part time dentist works one week a month on STL side.

Missouri Donated Dental Services (DDS) Program

Patients

124 patients served.

Donated treatment

\$429,885 in donated treatment.

Volunteers

\$4.92 worth of care donated for every \$1 spent supporting volunteers. There are 335 dentists and 95 labs participating.

Program established
in 1999

Since 1999, 2,402 total patients have been served with \$11,613, 215 in total care donated by volunteers.




**Goal 2:
Provide current
evidence-based
oral health
information.**

Speaking engagements to educate about oral health:

- Kansas City University-Joplin
- Conference on Younger Years
- Missouri Primary Care Association
- Missouri Association of School Nurses
- Coordinated School Health Conference
- Fostering Health Equity in Missouri: A Focus on Mothers & Infants
- Long Term Healthcare Facilities
- Local Public Health Agencies
- MO Society of the American College of Osteopathic Family Physicians.
- UMKC dental students
- UMKC faculty
- Conference on the Younger Years
- Concorde Hygiene Program
- Congregate older adults webinar
- Oral Health Network
- Missouri Coalition for Oral Health

Human Papilloma Virus (HPV)

- HPV is responsible for the recent surge in head and neck cancers.
- The American Dental Association, American Academy of Pediatrics, CDC and many other agencies and organizations recommend HPV vaccine for prevention of HPV infection.
- ODH is partnering with the Bureau of Immunizations to promote HPV vaccinations.
- ODH is working to educate dentists in talking with their patients 9-26 years of age about the importance of the HPV vaccine in preventing cancer.
- Speaking opportunity at the Missouri Immunization Coalition



**Goal 3:
Support the
development
of the oral
health
workforce.**

Dental Assistant Pipeline

Develop a Dental Assistant Pipeline through Missouri High School Career Centers (HSCC)

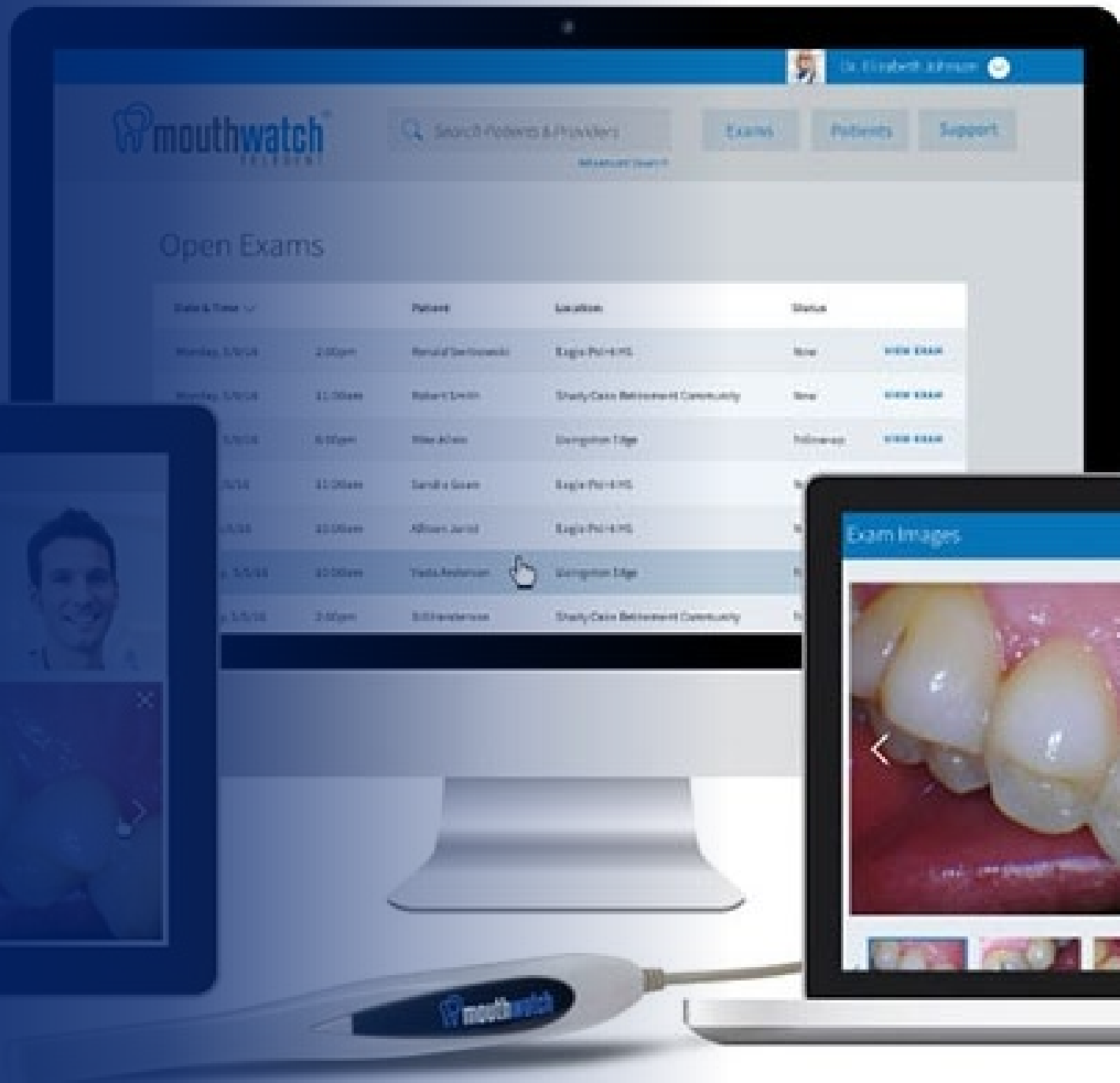
1. ODH project funded by Delta Dental (\$100,000).
2. In cooperation with an HSCC, develop a 10-month educational pilot program for high school juniors and seniors. **Planned start for Fall 2024** in Pike/Lincoln and St. Charles County Career Centers
3. Would allow students to graduate with high school diploma and dental assisting certificate, in the future, we would like to add expanded functions dental assistant certificates.

Oral Preventive Assistant-EFDA

Develop an Oral Preventive Assistant (OPA)-EFDA


1. ODH has received the authorization from the MDB to start this pilot project to address workforce shortages, to be carried out by the ODH and the MDB.
2. OPA EFDA would deliver oral health instruction and preventive care, including supragingival scaling on patients, under direct supervision of a dentist or hygienist.
3. Pilot would include curriculum development, training, testing and measurement with reporting to MDB and ODH.

Teledentistry Pilot Project



High School Virtual Career Day

YouTube Search



(Draft) Health Care Career Day 24 - Dentistry



FEB
23RD
2024
 VIRTUAL EVENT

**Learn what it takes to be a
 HEALTH CARE HERO**

This statewide, virtual event will take students inside Missouri hospitals to learn about the hottest careers in health care and engage in real world learning. All grade levels are invited to join the free event!

Health Care Career Day was developed by the Missouri Chamber Foundation in partnership with the Missouri Hospital Association and the Missouri Dept. of Elementary and Secondary Education. Visit mochamber.com/events or scan below to register!



Dental Professions will be highlighted:

- Dentist
- Dental Hygienist
- Dental Assistant
- Dental Laboratory Tech

- 11:20AM HOME HEALTH CARE** – Missouri Alliance for Home Care
 Work with new patients from all walks of life in a field where you'll never experience the same day twice. Home health care is filled with unique challenges in an ever-changing setting. Home health care professionals foster independence while improving their patient's quality of life. There's no place like home!
- 11:40AM DENTISTRY** – State Office of Dental Health
 Would you like to change lives one smile at a time? Dentistry is the treatment of diseases and other conditions that affect the teeth and gums. Find out more about the various roles of health care personnel working in a dental office during this session. A career in dentistry will give others something to smile about!
- 12:00PM EMERGENCY MEDICINE** – Ozarks Healthcare



A close-up photograph of a human mouth, showing the tongue and teeth. The image is slightly blurred and has a dark, reddish-brown tint. Overlaid on the center of the image is white, bold text.

**Goal 4: Surveil and
report on oral health
problems.**

Preventive Services Program (PSP)



Oral Health Education

Oral Health Screening
(0-18 years of age)

Fluoride Varnish
Application (2)

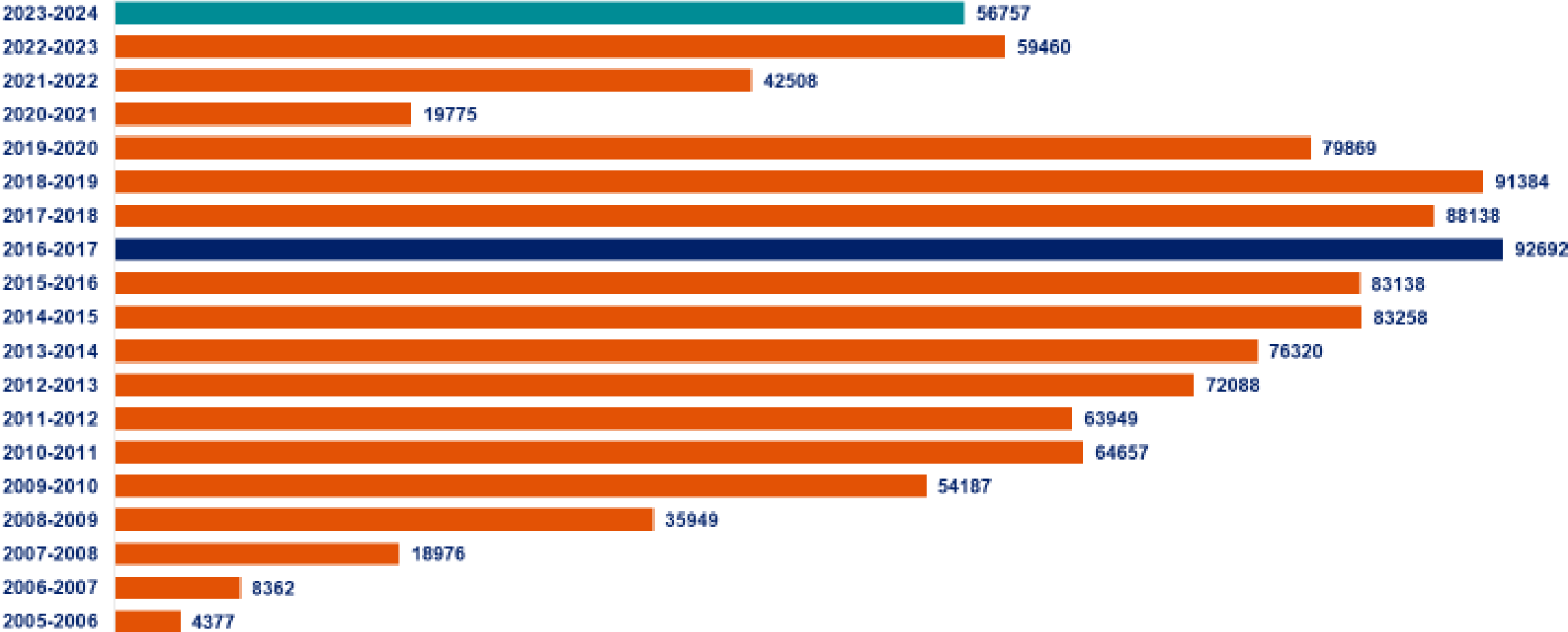
Referrals



Community Based



of PSP Participants





KANSAS CITY UNIVERSITY

Score 1


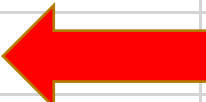
FOR HEALTH

7,629 students were screened from 32 elementary schools

- KCU's Score 1 for Health is a preventive health program that provides free, in-school health screenings for elementary-aged children in the greatest need, including urban core and low-income families from under-resourced neighborhoods.

**Collected
PSP data
and applied
fluoride
varnish!**



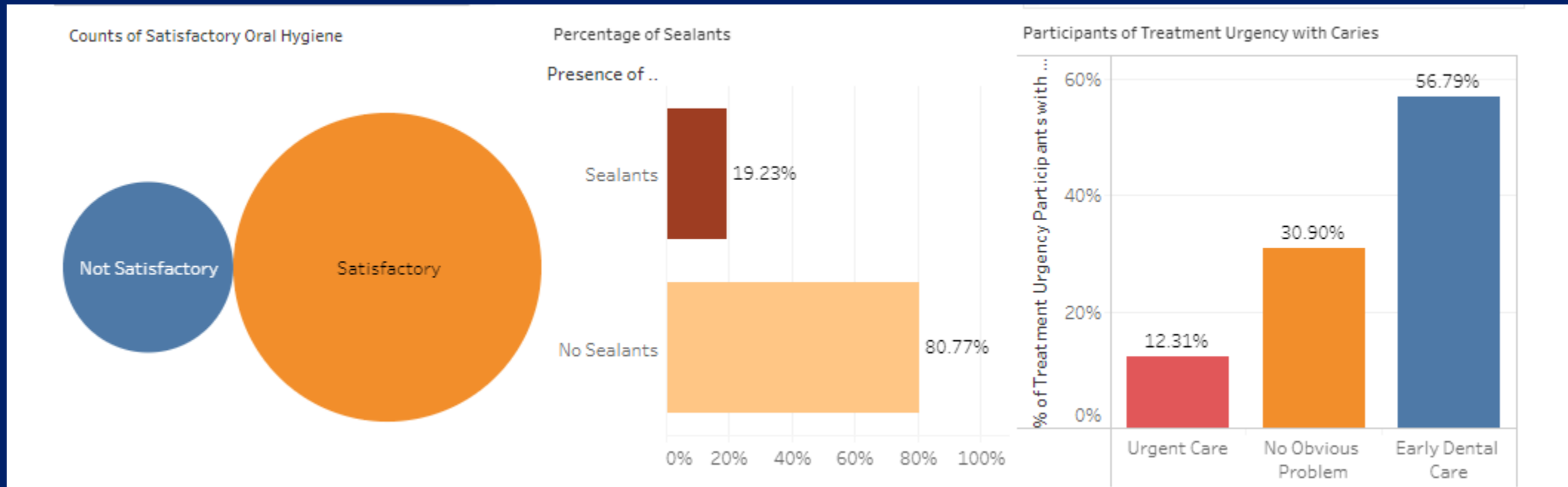
MO 2022-2023 PSP	Number of	Percent of Students		
Oral Hygiene Satisfactory	45369	76.30%		
Oral Hygiene Not Satisfactory	13902	23.38%		
History of Rampant Yes	6979	11.74%		
History of Rampant No	52289	87.94%		
Untreated Decay Yes	14679	24.69%		
Untreated Decay No	44718	75.20%		
Treated Decay Yes	19372	32.58%		
Treated Decay No	40019	67.30%		
Urgent Care Needed	2609	4.39%		
Sealants Yes*	9220	26.07%		
Sealants No*	26004	73.52%		
Total Number of Students Screened	59463			
*data reported on grades 3rd-12th only	35370			
*Note: 'Total Number of Students Screened' does not include all 59465 PSP participants				

Impact of PSP Program - Fluoride Varnish Program (based on 2022 data)

- Estimated reduction of dental decay of Medicaid patients is about 7%. Overall reduction of 4%.
- Identification of schools and areas that are having problems accessing dental care by the Untreated Decay rate.
- JADA: Topical Fluoride Impact in Future Restorative Dental Procedures. The application of fluoride varnishes and gels increased the time to future restorative and extraction dental claims and decreased the number of future restorative and extraction dental claims.

PSP Dashboard located at:

<https://health.mo.gov/living/families/oralhealth/dashboard.php>



If there are any schools in your area not providing PSP, talk to the school nurses and let them know about this awesome program!!



**Exciting
changes to our
PSP events and
structure**

1. Dentists.
2. Dental Students (Competency as determined by faculty of respective dental school, typically third- or fourth-year students).
3. Dental Hygienists.
4. Dental Hygiene Students (Competency as determined by faculty of respective dental hygiene program, typically second year students).
- 5. Dental Assistants (Certified Dental Assistant or passage a Missouri Dental Assisting Basic Skills exam and/or a minimum of two years chairside experience).**
- 6. Licensed Medical Professionals (i.e., Physicians, Nurses, Nurse Practitioners, etc.).**
- 7. Medical Professional Students (Competency as determined by faculty of respective medical or nursing program).**
- 8. Community Health Care Coordinator or Community Dental Health Care Coordinator.**

PSP Restructuring

- With expected increases in our PSP reach and events, we are in the process of reorganizing our PSP structure.
- We are streamlining the PSP team, from five part-time staff to 2 full-time staff for enhanced efficiency and focus—effective 10/1/2024





Basic Dental Screening Survey (BSS) or Oral Health Conditions in Third Grade Students-2019

- A randomized, standardized survey of the oral health of third grade students in Missouri.
- Third graders have a mixture of permanent and deciduous (baby) teeth.
- They are old enough to cooperate to be seen by most dentists.
- They are old enough to perform their oral care independently.
- We are currently conducting the BSS for the 2023-2024 school year

MISSOURI ORAL HEALTH PLAN 2020-2025



A five-year plan for the Missouri Department Health and Senior Services.

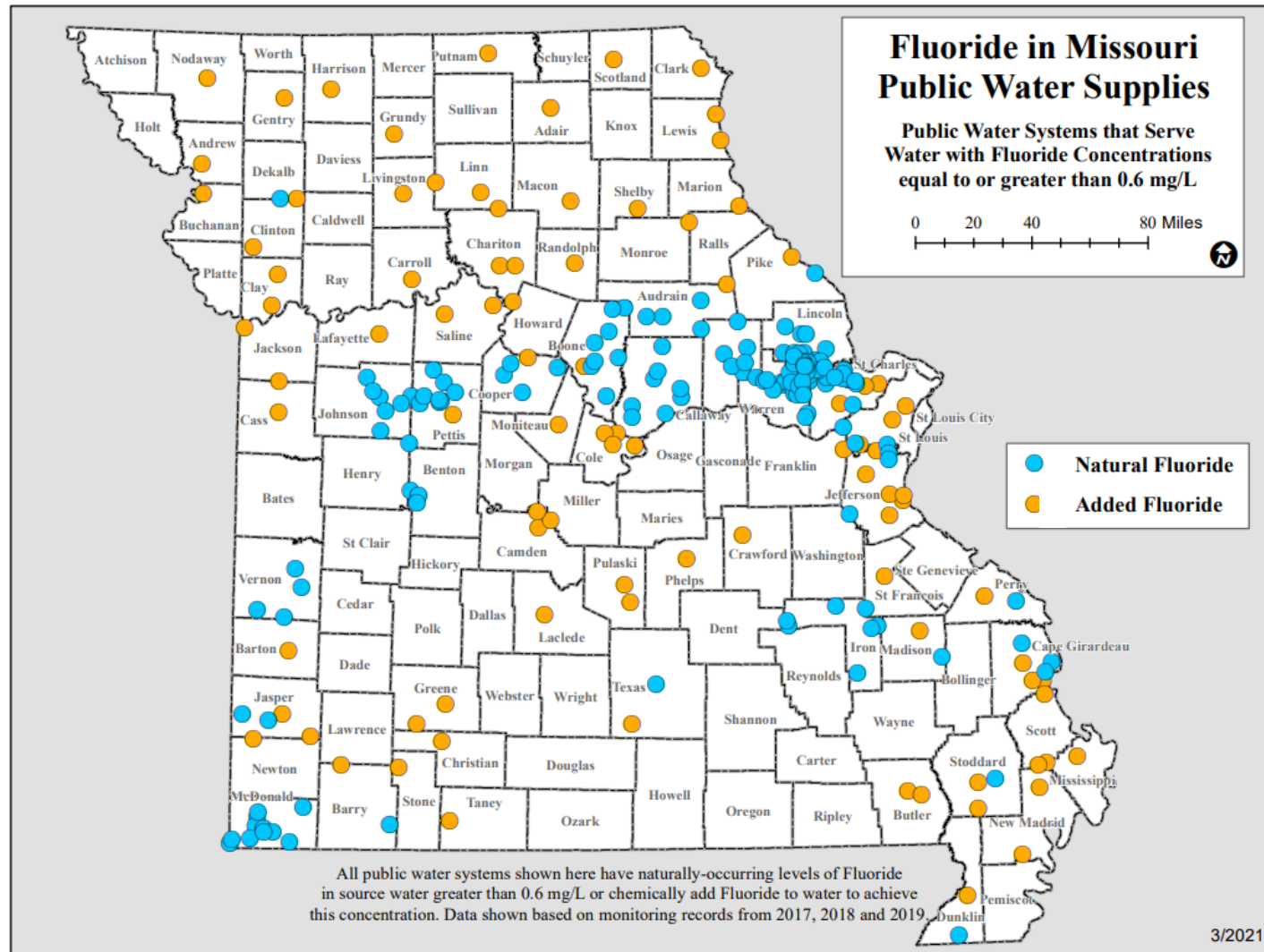
Created in partnership with the Oral Health State Plan Workgroup and Missouri Coalition for Oral Health.

Goal 5: Participate in policy development to improve health outcomes in Missouri.



CWF achieves 25% decay reduction in all citizens regardless of income or other socio-economic factors.

COMMUNITY WATER FLUORIDATION (CWF)



- 76.2% of the Missouri population is served by public water systems which receive fluoride.
- CWF has a very low cost of \$.05 per day per person.
- One dollar in CWF returns in \$25 in averted dental care.

CWF Program

Working with MCOH to provide water operator survey electronically

Collaborating with DNR to receive monthly operating reports from all water systems that currently have a fluoridation program

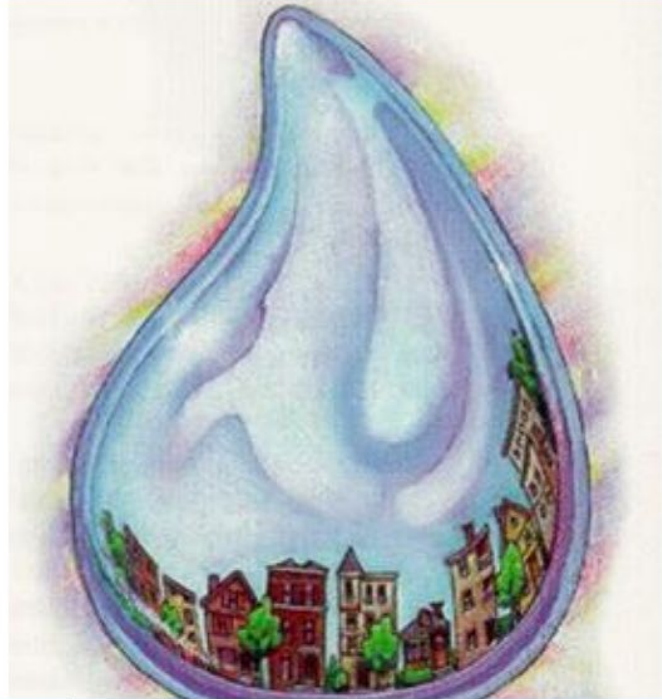
Training

CWF updates in the state

- Branson voted to discontinue fluoridation on Nov. 14, 2023
- Lake Winnebago voted to continue fluoridation on Nov. 15, 2023
- Independence has come to ODH to consider initiation of fluoridation
- Versailles would like to discuss CWF in 2024
- ODH has started conversations with all of these systems
 - North Central Wholesale Water Commission (35,000 people)
 - Tri-County Wholesale Water Commission (100,000 people)
 - Clarence Cannon Wholesale Water Commission (85,000 people)
 - Butler Co PWSD 1 (5,000 people)
 - Piedmont Public Works (Have fluoridation equipment and would like to possibly start fluoridation) (2,000 people)
 - Brunswick Water System (sells to another system) (4,000 people)

Gathering letters of support from LPHAs to be proactive in case of a CWF rollback effort

Community Water Fluoridation: A Plan for Missouri



**Opioid
Settlement
Funds
New
Decision
Item (NDI)
\$3,840,000**

- Medicaid benefits do not include tooth replacement unless you are pregnant, blind, disabled or in nursing home
- Treatment and recovery programs report having difficulty finding sufficient funding and dental treatment resources for all of the individuals in recovery who need them.
- Substance use disorder (SUD) results in poor oral health and loss of teeth
- Unmet oral health needs increase in costs for dental treatment, potentially for treatment/relapse intervention, and for negative psychosocial impacts on the individual and their family.
- Proposed the addition of two community dental health coordinators (CDHC) to help coordinate dental care for their clients.
- \$3,760,000 would go directly for dentures, partials and bridges not covered by Medicaid.

Dental Screening Laws

STATES WITH DENTAL SCREENING LAWS

- » California
- » District of Columbia
- » Georgia
- » Illinois
- » Iowa
- » Kansas
- » Kentucky
- » Nebraska
- » New York
- » Oregon
- » Pennsylvania
- » Rhode Island
- » South Carolina
- » Utah
- » West Virginia

A New K-12 Oral Health Curriculum!

Cairn Guidance, Curriculum, Instruction & Assessment, Partnerships

The 2021 Oregon Legislative Assembly, passed a House Bill that included the expectation each public school in the state must provide age-appropriate instruction in oral health to be included within the health education curriculum.

Oral Health Curriculum

<https://healthyteethoregon.org/resources>

This curriculum is free and accessible to all educators and nurses.

English Curriculum

[Teacher Guide](#)

Kindergarten

- [Lessons & Materials](#)
- [Presentations](#)

Grade 1

- [Lessons & Materials](#)
- [Presentations](#)

Grade 2

- [Lessons & Materials](#)
- [Presentations](#)

Grade 3

Spanish Curriculum

[Teacher Guide](#)

Kindergarten

- [Lessons & Materials](#)
- [Presentations](#)

Grade 1

- [Lessons & Materials](#)
- [Presentations](#)

Grade 2

- [Lessons & Materials](#)
- [Presentations](#)

Grade 3



Biomimetic system for Guided Enamel Remineralization of early caries

Curodont™ Repair Fluoride Plus (CRFP) is a unique brush-on, biomimetic system that tackles early caries through Guided Enamel Remineralization.

Curodont™ Repair Fluoride Plus acts where it is needed. The patented formulation and the application procedure help minerals, like fluoride together with calcium and phosphate from saliva, to diffuse into the white spots and to re-mineralize and re-harden the affected enamel over the next few weeks, enabling preservation of the tooth structure.

- ✓ Minimally-invasive
- ✓ Pain-free
- ✓ Works on all surfaces
- ✓ For all patients
- ✓ It does not stain
- ✓ It has no taste
- ✓ Easy and fast application (in less than 10 minutes)
- ✓ One-time application
- ✓ Clinically-proven



D2991: application of hydroxyapatite regeneration medicament, per tooth. Preparation of tooth surfaces and topical application of a scaffold to guide hydroxyapatite regeneration.

What's next?

- Discussions of additional hygiene schools in Dexter and/or Rolla
- Mobile Integrated Health including dental reviews and teledentistry
- NDI-opioid settlement funding
- Seek further funding for Brushing for Two kits
- Collect data from pilot studies and present to the MDB
- Planned Pop-up dental clinics
- CDC grant application
- Workforce survey this fall

How can we collaborate and create partnerships?

- Increase our reach with the PSP programs, ask if your school nurses participate
- Offer to volunteer and participate in a PSP event
- If your city is not naturally fluoridated at the optimal level, consider asking the city council about possible implementation
- Educate and inform your patients on cancer prevention with the HPV vaccination series

**Thank you
and shout
out to my
entire ODH
team!!**





MISSOURI DEPARTMENT OF
**HEALTH &
SENIOR SERVICES**

Office of Dental Health

Jacqueline Miller DDS, MS, MPH

Jacqueline.Miller@health.mo.gov

(573) 526-3838

Drue Barton DMD MBA

drue.barton@health.mo.gov

(620)-432-4115