## The ABCs of School-Based Oral Health

November 15, 2023





# CareQuest Institute for Oral Health®









Overview of school-based oral health



Legislative trends



State examples



Q&A

Agenda



## "THE ABCS OF SCHOOL-BASED ORAL HEALTH

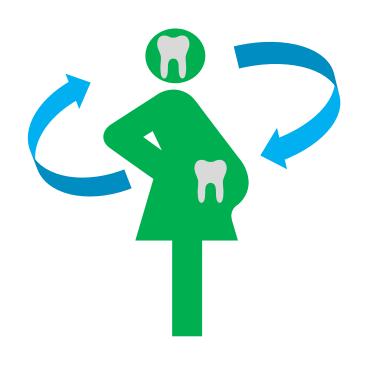
SERVICES" the differences in oral health access for children, the overall importance of oral health for the lifespan, and schools as an access point for oral health

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DEAN, SCHOOL OF DENTISTRY

MEHARRY MEDICAL COLLEGE

# ORAL HEALTH THROUGH THE LIFESPAN: SYSTEMIC CHANGES



- Puberty
- Pregnancy
- Menopause

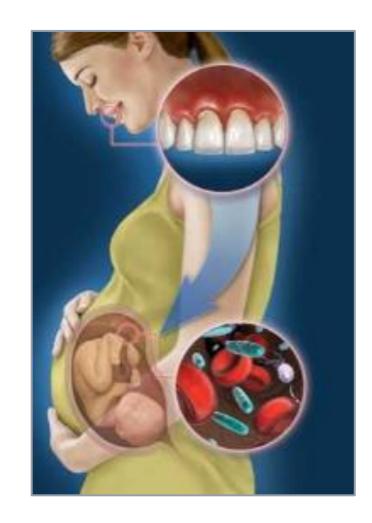






## Oral Health in Pregnancy

- Hormonal Changes
  - Increased Estrogen
  - Increased Progesterone
- Increased Oral Bacteria
- Gum Inflammation (Periodontitis) when left untreated may be associated with:
  - Pre-Term labor and birth
  - Low birth weight infants
  - Poor glycemic control
  - Pre-eclampsia





## PUBERTY GINGIVITIS, CARIES, & GROWTH

- Hormonal Changes Occur
  - Estrogen
  - Testosterone
- Bacteria Changes
  - Normal Oral Bacteria
  - Caries Causing Bacteria



- Bone Growth
  - Maxillae & Mandible Growth
  - Occlusion May Change
- Periodontal (Gum) Disease
  - Increased Blood Flow
  - Increased Gingival Bleeding





## MENOPAUSE AND ORAL HEALTH

- Xerostomia
- Glossodynia
- Tooth Pain
- Periodontal Disease





Photo from: Colgate Professional



#### CHILDREN AND ORAL HEALTH FACTS

- 20% of their waking hours are spent in school
- Caries is the most common chronic disease of childhood in the United States
- Approximately 17% of days missed are associated with dental pain and infection

Data from the CDC

■ Children aged I—17 years living in families with incomes below 400% of the federal poverty level were less likely to have had an annual dental examination or cleaning in 2020 than in 2019

Data from the National Center for Health



Image from Colgate.com

**Statistics** 



## STATE OF CHILDREN'S ORAL HEALTH

#### **UNITED STATES**

- 4 out of 10 American children have tooth decay before they start kindergarten
- Among children aged 6-11 years, 45% have caries and 15% have untreated caries
- Among children aged 12-19 years, 54% have caries and 13% have untreated caries
- Kids from low-income families have twice the risk of tooth decay than kids from higher income families
- Black and Hispanic children experience caries at a higher rate than Non-Hispanic whites

Data from the CDC & State of Tennessee Oral Health Plan



## TYPES OF SCHOOL-BASED PROGRAMS

- School-based **Dental Sealant** Program
  - Cavity Prevention
- School-based Fluoride Programs
  - Cavity Prevention
- School-based **Dental Screening and Referral** Programs
  - Oral Health Education
  - Establish a Dental Home
- School-based Comprehensive Dental Care Programs
  - Cleanings
  - Dental Cavities
  - Extractions



## SCHOOL-BASED PROGRAMS & ORAL HEALTH IMPROVEMENT

- Help Improve Access
  - Low Income Children
  - Rural & Underserved Communities
- Promote Health Equity
- Serve to Integrate Oral and Systemic Health
- Reduce Dental Caries, Tooth Decay, & Oral Health Disparities

- Support& Promote Collaboration
  - School Leadership
  - Oral Health Community
  - Families



## Oral Health Legislative Trends

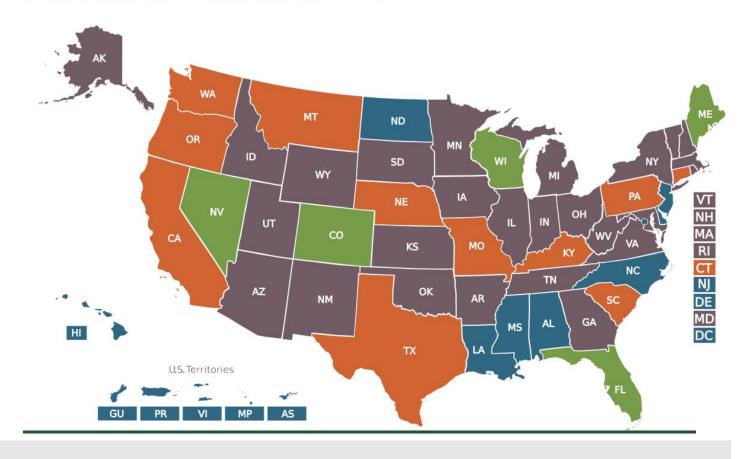
Kendall Speer, policy specialist, NCSL



## Dental Hygienists in Schools

- At least <u>five states</u> allow dental hygienists to see patients without supervision and 11 states allow direct access with educational/practice hours.
- Georgia House Bill 154 (2017): authorizes licensed dental hygienists to perform certain functions under general supervision in certain settings, including school settings and certain health facilities.
- Rhode Island Senate Bill 572 (2019):
   Includes any licensed public health dental hygienist among persons eligible to conduct dental screenings.

#### DENTAL HYGIENISTS WITH DIRECT ACCESS



- LEGEND No supervision required
  - Educational/practice hours required to practice without supervision
  - Collaborative agreement or supervision required
  - No direct access



### Dental Assistants and Medical Assistants



<u>Hawaii Senate Bill 2280</u> (2021): Provides that a dental assistant may operate under general supervision in a public health setting including schools and community centers



<u>lowa House Bill 2267</u> (2020): Permits a registered dental assistant who has successfully completed expanded function training through the University of Iowa college of dentistry or a program certified by the commission on dental accreditation to place dental sealants on teeth



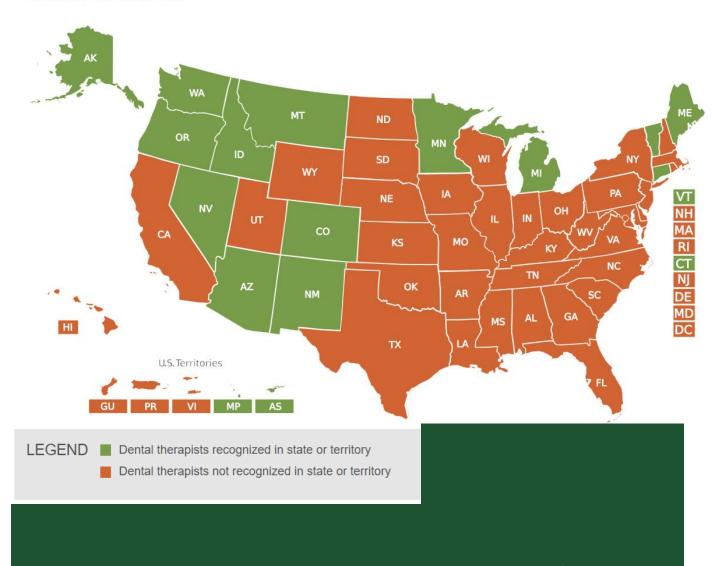
<u>Virginia House Bill 299</u> (2020): Allows a medical assistant to possess and administer topical fluoride varnish pursuant to an oral or written order or a standing protocol issued by a doctor of medicine, osteopathic medicine, or dentistry



## Dental Therapists in Schools

- Dental therapists are currently recognized in <u>14 states and two territories</u>.
- <u>Idaho Senate Bill 1129</u> (2019): Permits dental therapists to federal or Tribal health programs on Tribal reservations, including schools.
- Colorado Senate Bill 22-219 (2022): Sets the requirements to become a licensed dental therapist in Colorado and defines their scope of practice.

#### DENTAL THERAPISTS









## Oral Health Screenings

- As of 2022 at least 15 states and the District of Columbia had dental screening laws in place
- <u>Delaware H83</u> (2023): requires every public school and charter school to provide students enrolled in kindergarten with an oral health screening by the last student attendance day of each school year



Additional Legislation



- Maryland Senate Bill 100 (2021): establishes the Task Force on Oral Health in Maryland and puts forth provisions to study child and adult oral health in the state.
- Ohio H 203 (2020): Specifies
  requirements for the operation of mobile
  dental facilities, allows for services to be
  provided to minors with the permission
  of a parent or guardian. These can be
  used to provide on-site school-based
  dental services
- Oregon H 2969 (2021): Provides that as an integral part of the health education curriculum for students in the public schools of this state, each school district must provide age-appropriate instruction in oral health





# Reach Out Anytime!

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## TENNESSEE SCHOOL-BASED ORAL HEALTH PROGRAM

- Kindergarten thru 8<sup>th</sup> grade
- Oral health screening
  - Topical Fluoride Application
  - Referrals
- Dental sealants for cavity prevention
- Silver Diamine Fluoride to arrest caries

#### **SEALANTS**

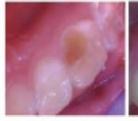






Protected After Sealant

#### SILVER DIAMINE FLUORIDE (SDF)







Non-Active Decay

Photo from State of Tennessee Oral Health Plan



## TENNESSEE SCHOOL-BASED ORAL HEALTH PROGRAM

- Oral health education for all
- Healthy school nutrition promotion
- Oral healthcare collaboration & coordination and identification of a dental home
  - Dental Providers
  - Public Health Agencies
  - Community Organizations
- Support Academic Success
  - Fewer Absences
  - Oral Health Curriculum





## TENNESSEE HEALTHY SMILE INITIATIVE

- A public-private partnership
  - Safety Net Clinics
  - Health Department
  - Dental Schools
- Diverse stakeholders
- Broaden access to high-quality, low-cost dental care to Tennesseans

- Increase the dental workforce
  - Dentists
  - Dental Hygienists
  - Dental Assistants
- Focus on rural and remote areas
- Offers high risk populations preventive services
- Improve access and availability of care



# School Dental Programs

JAYANTH KUMAR
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## Disclaimer

The views and opinions expressed in this presentation are that of the speaker and do not necessarily reflect the views or positions of the California Department of Public Health or the Health and Human Services Agency.

The author has no financial interest associated with the content of this presentation.

## Population health management and public health strategies

Fluoride Varnish in Primary Care Settings

CalAIM
Caries Risk
Assessment
Bundle for 0-6
P4P for preventive
Dental home

Oral health care during pregnancy

School Dental Program

#### The 3 Buckets of Prevention



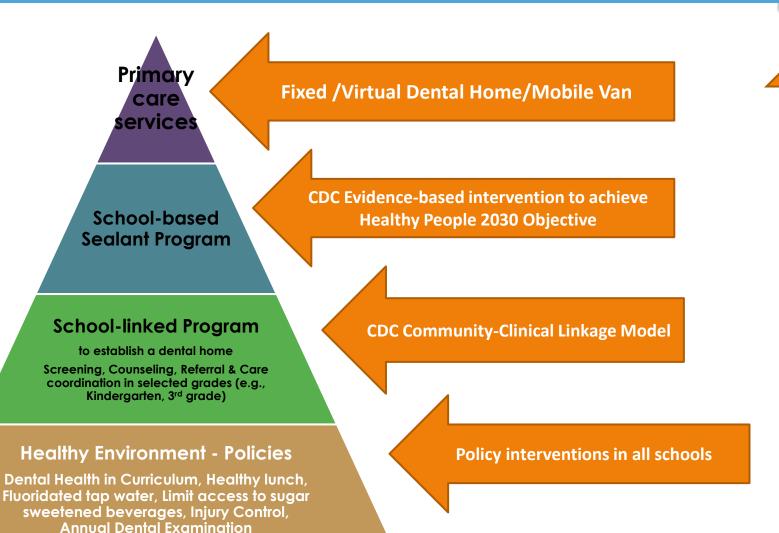
Community Water Fluoridation

Toothbrushing in Early Care & Education Programs

Rethink Your Drink
Campaign

Oral Health Literacy

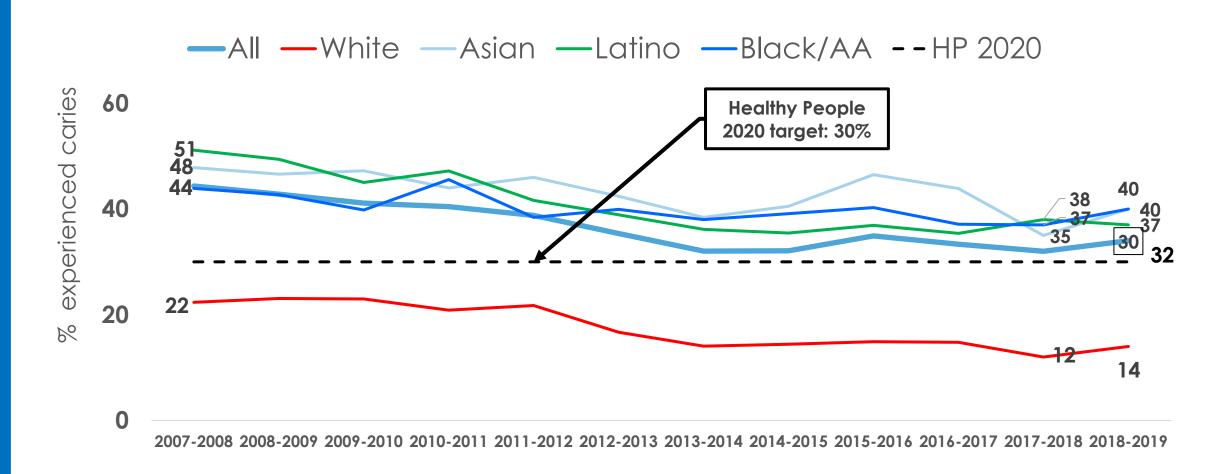




of services and

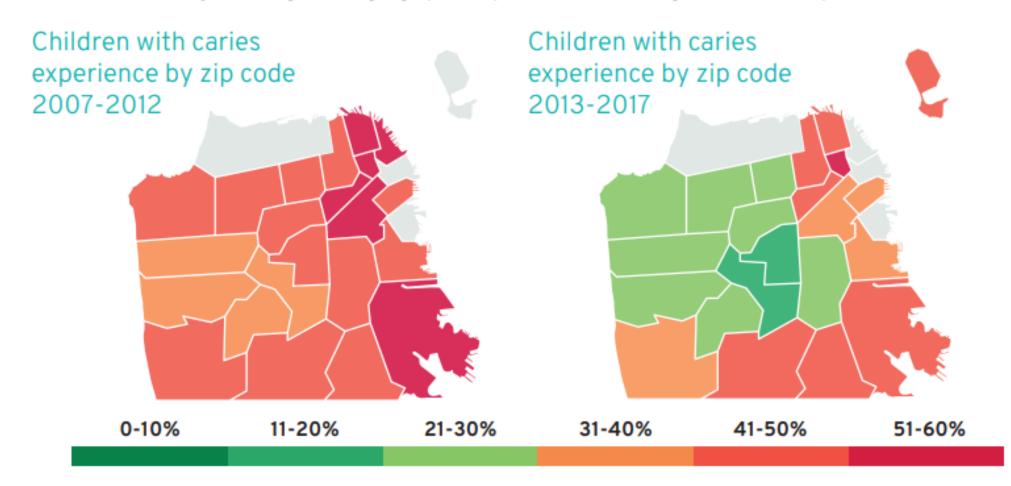
Increased intensity

# San Francisco Unified School District kindergarteners who have **experienced caries** in their primary teeth by race-ethnicity



## Changes in caries experience by zip code

Figure 6: Significant geographic disparities exist with regards to caries experience



Source: San Francisco Children's Oral Health Strategic Plan 2020–2025

## California School-linked Dental Program

Paper	
iapti	

## Electronic Referral Management

#### **Oral Health Assessment Form**

California law (*Education Code* Section 49452.8) states your child must have a dental check-up by May 31 of his/her first year in public school. A California licensed dental professional operating within his scope of practice must perform the check-up and fill out Section 2 of this form. If your child had a dental check-up in the 12 months before he/she started school, ask your dentist to fill out Section 2. If you are unable to get a dental check-up for your child, fill out Section 3.

#### Section 1: Child's Information (Filled out by parent or guardian)

Child's First Name:	Last Name:	Middle Initial:	Child's birth date:
Address:			Apt.:
City:			ZIP code:
School Name:	Teacher:	Grade:	Child's Sex:  □ Male □ Female
Parent/Guardian Name:	Child's race/ethnicity:    White		

#### Section 2: Oral Health Data Collection (Filled out by a California licensed dental professional)

**IMPORTANT NOTE:** Consider each box separately. Mark each box.

□ Yes □ No □ Yes □ No □ Urgent care needed (pain, infection, s	,
Assessment Date: Caries Experience (Visible decay and/or fillings present) Visible Decay Present: Date: Caries Experience (Visible decay and/or fillings present) Decay Present: Decay Present: Decay Present: Decay Present: Decay Present: Decay Decay Present: Decay Present: Decay Decay Decay Decay Present: Decay	



## Program Components

- 1. Policy support
- 2. Innovation
- 3. Technical package
- 4. Partnership
- 5. Communication
- 6. Accountability

Program

Screening

Referral

Care coordination

Data

PM & QI

## Challenges

- Infrastructure and capacity
- Financing
- Participation
- **▶**Reach

## Thank you



- Maternal and Child Health Database, NCSL
- Workforce Strategies to Improve Access to Oral Health Care, NCSL





