



## CMEO S BriefCase **Promoting Equitable Oral Health in Patients** of Color

## Monica E. Peek, MD, MPH, MS, FACP

**Professor of Medicine** 

Associate Director, Chicago Ctr for Diabetes Translation Research

Exec Medical Director, Community Health Innovation

Director of Research (and Associate Director), MacLean Center for Clinical Medical Ethics

University of Chicago Medicine Chicago, IL



### Maxine Feinberg, DDS

Periodontist
Past President, American Dental Association,
Past President, New Jersey Dental Association
and New Jersey State Board of Dentistry
Cranford, NJ



# Learning Objective

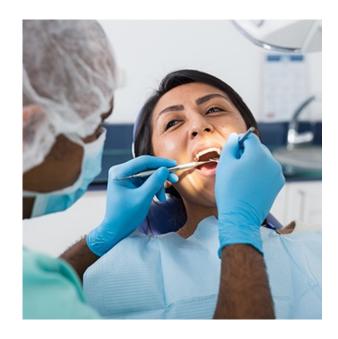
Apply action steps to eliminate barriers to equitable dental and oral health care in patients of color.



### Oral Health Disparities



- Vulnerable populations have disproportionate oral health care<sup>1</sup>
  - Children and adults with lower SES
  - Racial / ethnic minority populations
  - ▶ Elderly individuals
  - Pregnant people
- ▶ Lack of dental insurance<sup>2</sup>
  - 1 in 3 adults have no form of dental coverage

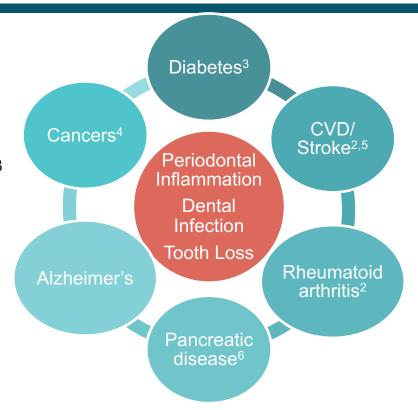




## Oral Health Integral to Overall Health



- Poor oral health ↑ risk of systemic inflammation, CVD and other disorders¹
- Sleep disorders/deficit trigger/worsen periodontal disease³
- Studies show a high correlation between periodontal disease and pre-hypertension/hypertension<sup>1</sup>
  - Dentists can and should screen patients by taking blood pressure readings at appointments





## **Patient Cases**



#### Patient Case: Rachel, Age 28 years

- ▶ Pregnant (~5 weeks); G4 P1; two recurrent miscarriages < 20th week pregnancy without genetic abnormalities or poor obstetric history (pre-eclampsia etc.)
- No systemic health conditions and does not take any medications
  - ▶ BMI = 32; previous history of gestational diabetes
  - No primary care physician and has not seen a nutritionist
- ▶ Poor oral health, untreated dental caries
  - ▶ Patient complaints: sore gums, persistent halitosis
  - ▶ Reports she last had dental care at age16 years for toothache
- ➤ Has Medicaid insurance



## Audience Response



- ▶ Rachel's new obstetrician refers her for a dental checkup. What are the most likely initial findings during an oral health examination?
- 1. Abundant plaque within the gingival pocket
- 2. Mild gingiva inflammation
- 3. No bleeding on probing
- 4. Microcavitation in tooth enamel



#### Oral Health and Prenatal Care



- Oral infections trigger pro-inflammatory mediators that may be risk factors for miscarriage<sup>1</sup>
- Pregnancy changes raise periodontal disease and cavities risk
  - ▶ 60% to 75% of pregnant women have gingivitis²
- Poor oral health → poor maternal and infant health outcomes
  - Dental erosions, gum ulcers, dry mouth, loose teeth
  - Preterm birth and/or low birth weight, miscarriage, pre-eclampsia
  - Pregnancy granuloma, pregnancy tumors (epulis gravidarum)
- Black and Hispanic women significantly less likely to obtain dental care during pregnancy than White women<sup>3,4</sup>



## Treatment: Oral Health During Pregnancy



- ▶ What is the best way to assess oral health in pregnant people?
  - > Full periodontal, gingival, plaque and bleeding examinations
- ▶ Is routine dental care safe during pregnancy?
- Which trimester is best for dental procedures during pregnancy?
- Oral health treatment options during pregnancy
  - Preventive maintenance procedures
  - ▶ Plaque removal, dental caries filling/repair
  - Daily oral and dental care





#### Patient Case: Maria, Age 9 years

- ▶ Rampant caries in both primary and permanent dentition
  - Increasingly missing school due to dental discomfort
- → Has Medicaid insurance
  - ➤ Aunt who adopted sought care but had difficulty finding a pediatric dentist taking Medicaid



## Audience Response



Which is higher in children – the rate of asthma or dental caries/cavities?

- 1. Asthma
- 2. Cavities
- 3. The rates are similar



## Oral Health: First Step to Well-Being



Oral health disparities increase systemic disease burden and often begin in childhood

▶ Dental caries most common childhood disease - 5x more

than asthma, 7x than hayfever<sup>1</sup>

Children without insurance 3x more likely to require dental care, but 2.5x less likely to receivethan children with insurance

For every child without health insurance, 2.6 without dental insurance²





#### Prevention: Dental Care in Children



- ▶ How do we prevent this scenario in all children?
- Measures that may help improve oral health in children
  - Water fluoridation
  - Perinatal dental care for Mothers
  - Post-natal dental care for moms and children
  - Nutrition and lunch programs at school, community centers
  - Better dental literacy programs for parents, teachers, school nurses
  - Cross referrals between pediatricians and dentists
  - School based, Boys and Girls Club dental care and sealant programs
  - Incentives for Medicaid pediatric dentists in community settings



#### Patient Case: Edward, 67 years old

- ▶ Poorly controlled DM for ~19 years
- ▶ Generalized periodontitis, severe loss of bone support
- > Tissues extremely swollen, generalized suppuration noted
- ▶ Teeth mobile and pain on chewing
- ▶ Patient subsisting on soft carbohydrate laden diet
- ▶ Recent A1C elevated as were daily blood glucose readings
- ▶ Requires full dentures as no teeth could be treated or maintained



## Audience Response



→ How does diabetes affect oral health?

- 1. Having diabetes does not affect oral health.
- 2. Patients with diabetes may require more local anesthesia during dental procedures.
- 3. Patients with diabetes are twice as likely to have periodontal disease.
- 4. Patients with diabetes are three times more likely to have dental caries.



#### Diabetes and Oral Health Link



- ▶ Individuals with diabetes 2x as likely to have periodontal disease¹
  - ▶ 9.3% of people in the U.S. have diabetes¹
  - $\triangleright$  CDC:  $\uparrow$  3x by 2050 to 1 in 3 adults<sup>2</sup>
- ▶ 1% improvement in glycemic control can reduce mortality by 21%
  - ▶ Treating PD can improve glycemic control by .4%³
- Study: correlation between PD and missing teeth indicator of prediabetes/diabetes in 3 of 4 cases⁴
- Complete periodontal care ↓ annual diabetes medical costs by \$2,840 and hospital admissions by 39.4%



#### Oral Health Care for Older Adults



- How could this scenario have been avoided?

- Interprofessional communication
- ➤ Work with patients, family members, elderly care providers, social workers, and medical and dental insurance providers to provide outreach and encourage regular dental care





## Working Toward Systemic Change



- ▶ Integrate oral-medical health to improve outcomes
  - Collaborative care model
  - ➤ Coordinated medical-dental care
- ▶ Medicaid:
  - Adult dental coverage not mandated (children covered)
  - Include adult dental care
- ➤ Accountable Care Organizations:
  - → Only 20 out of 125 offer dental care, but see cost savings
  - Develop outcome-based reimbursement model
- → Movement to include dental care in Medicare



#### Diversity and Collaborative Care in Oral Health



- ▶ Improve "pipeline" to dental school
  - ▶ 28% dentists from medically underserved communities
    - ▶ Black dentists 3.8% and Hispanic dentists 17.0%
  - Require additional 19,700 Black, 31,200 Hispanic Dentists, 3,000 Native American Dentists to reach parity
- Interprofessional education
  - Bridge knowledge gap
  - Medical school core curriculum
  - Improve quality and content to move beyond medicine and dentistry
    - Needed for dentists, physicians, nurses, pharmacists, PAs, nurse practitioners, etc.



#### **SMART Goals**

#### Specific, Measurable, Attainable, Relevant, Timely



- ▶ Identify and expand best practices to address structural and interpersonal racism in oral health care.
- Optimize holistic oral and systemic preventative care and treatment to address patient needs.
- Improve oral-systemic collaboration between dental and non-dental health professionals.
- ▶ Increase the number of place-based total health care encounters with a dental component including screenings, referrals and resources for community oral health care.



## Visit the Diversity and Inclusion Hub

A robust hub of patient education and resources for your patients to learn more about diversity and inclusion and health equity.

https://www.cmeoutfitters.com/diversity-and-inclusion-hub/





Addressing Maternal Health
Disparities: Changes You Can Make
to Your Practice



Racial Disparities in Cardiac Arrythmia Care: A Call to Action



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