



### Importance of Discussion and Addressing Oral Health among Pregnant Persons

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### Housekeeping Items

- All attendees are muted and attendees cannot share video during this session.
- Remember to ask questions using the chat box.
- Slides and resources for today's session can be accessed on our program website.
- Continuing education credits are available for today's session. To receive a certificate for continuing education, you must complete the evaluation.
- We have made every attempt to make today's presentation secure. If we need to end today's presentation unexpectedly we will follow-up with you using your registration information.

### Land Acknowledgement Statement

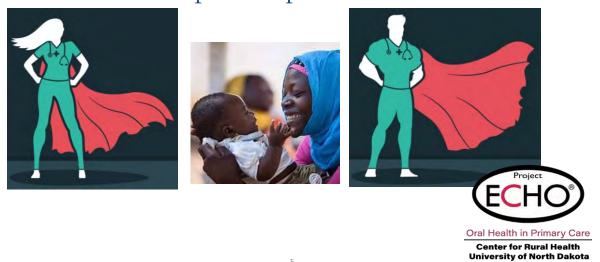
<u>UND Land Acknowledgement Statement</u>: Today, the University of North Dakota rests on the ancestral lands of the Pembina and Red Lake Bands of Ojibwe and the Dakota Oyate - presently existing as composite parts of the Red Lake, Turtle Mountain, White Earth Bands, and the Dakota Tribes of Minnesota and North Dakota. We acknowledge the people who resided here for generations and recognize that the spirit of the Ojibwe and Oyate people permeates this land. As a university community, we will continue to build upon our relations with the First Nations of the State of North Dakota - the Mandan, Hidatsa, and Arikara Nation, Sisseton-Wahpeton Oyate Nation, Spirit Lake Nation, Standing Rock Sioux Tribe, and Turtle Mountain Band of Chippewa Indians.



- · Reduce the risk of caries transmission from mother to child
- Counsel patients about the safety of common dental interventions in pregnancy
- Improve dental care access for pregnant women through interprofessional collaboration



# Why it is so important to discuss oral health with expectant parents?



## The Maternal-Child Linkage



#### DENTAL CARIES IS A TRANSMISSIBLE DISEASE!

- Mothers or main caregiver are the main source of passing the bacteria responsible for causing caries to their infants
- · Transmission occurs via saliva contact such as tasting food
- · If mom's bacterial level is high, transmission is more likely
- If colonization is delayed (>age 2), child may have fewer caries
- Caregivers with caries also often pass on bad habits (high sugar intake, poor oral hygiene)
- · Fathers can pass on bacteria, but this is less common
- Message is: BRUSH FOR TWO!



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### Reduce the Risk!!

#### Untreated caries can lead to:

- Infections
  ·Missed school/Work
  - Pain
    •Nutritional deficiencies
- Poor self-esteem •Sleep disruption

# Caregivers can decrease their own caries levels by:

•Receiving regular comprehensive dental care, including during pregnancy

- •Limiting the frequency of sugar in the diet
- •Maintaining excellent oral hygiene

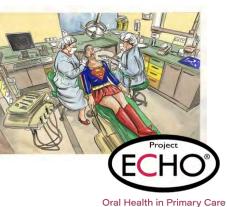




### **Oral Conditions in Pregnancy**







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### Pregnancy Granuloma

#### Symptoms

- •Occur in 5% of pregnant women
- •Erythematous, non-painful, smooth or lobulated mass
- ·Bleeds easily when touched
- •Usually develops on the gingiva

#### Etiology

•Develops as a response to local irritation such as poor hygiene or trauma and hormonal changes

#### Treatment

•Observe unless lesions are bleeding excessively, interfere with eating, or do not resolve spontaneously after delivery



### Hyperemesis Gravidarum

•Gastroesophageal reflux and excessive vomiting (Hyperemesis gravidarum) are both common in pregnancy and can cause enamel erosion

#### Management

- Rinse with water bicarbonate to reduce acid in mouth immediately after vomiting
- · Avoid brushing too firmly or just following vomiting





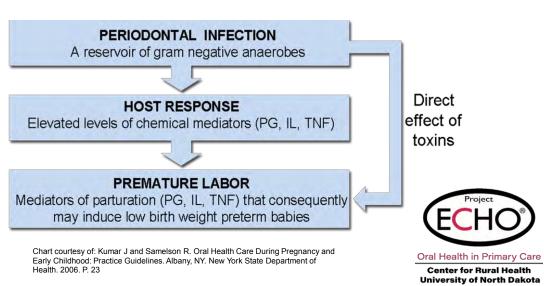


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### The Effects of Periodontal Disease on Pregnancy



Mechanisms for Preterm Birth

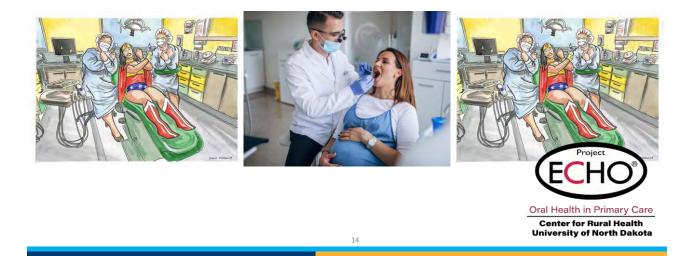


### The Bottom Line

- Periodontal disease is *associated* with preterm birth and low birth weight
- Periodontal treatment during pregnancy has not been shown to improve birth outcomes
- Periodontal treatment does improves the women's oral health
- · Periodontal treatment is safe during pregnancy
- Need additional research to determine if pre-pregnancy treatment would lower risk



### Dental Treatment in Pregnancy is Safe!



### The Dental Disconnect

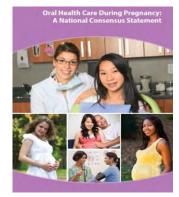
# Women frequently do not see a dentist when pregnant

- •Only 26-34% of all pregnant women visit the dentist
- •Percentage is even lower for Hispanic women, low SES, and those not aware of oral-systemic linkages
- •Only 50% of pregnant woman with a dental problem visit a dentist

•Even among women with dental insurance, dental care rated decline during pregnancy



### Treatment Guidelines





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#### Oral Health Care During Pregnancy and Through the Lifespan

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American Congress of Obstetricians and Gynecologists (ACOG) states "A dental checkup early in pregnancy will help ensure that your mouth stays healthy. Pregnant women are at an increased risk for cavities and gum

disease"

### Treatment Tips

#### **First Trimester**

·Care should begin early especially if extensive care is needed

•Schedule visits in the afternoon to avoid morning sickness

#### **Second Trimester**

·ldeal time for dental care

•The fetus is not large, making it easier for mothers to recline in the dental chair for prolonged periods

•Organogenesis is complete, reducing fear of harm to the baby (even though dental procedures are safe throughout pregnancy)

#### **Third Trimester**

•Position woman slightly on left side with a towel prop to avoid vena cava compression

•Encourage standing and walking periodically

•Elevating the head helps avoid shortness of breath



### Dental Radiographs

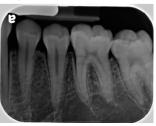
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### Risks

 Radiation exposure to the fetus from dental x-rays is so low, it cannot be measured by conventional techniques

### Procedures

- · X-ray as necessary to make diagnosis
- Proper radiographic techniques to minimize radiation exposure
  - Utilize lead apron shielding
  - Avoid retakes when possible
  - Use a long cone to focus radiation only on mouth
  - Newer digital X-rays (80% less radiation)





### Preventive Agents

#### The following are appropriate for use during pregnancy at standard dental doses:

#### •Fluoride

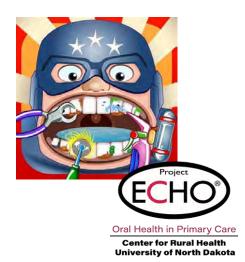
- o Inhibits bacteria growth and strengthens enamel
- Used topically to prevent dental caries

#### •Xylitol Gum

- o Decreases level of bacteria in saliva and plaque
- o Selects for less virulent strains of mutans streptococci

#### Chlorhexidine

- o Used as mouthwash to decrease bacteria
- o Reduces gingivitis and plaque



### What Can We Do as a Team?

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Oral Health in Primary Care

### Integrating Oral Health into Pregnancy Clinical Exam

#### Screening

- Evaluate oral health risk history
- · Perform an oral exam
- · Document findings in prenatal record
- · Include oral handouts in prenatal packets

#### **Anticipatory Guidance**

- · Brush with soft toothbrush twice daily with fluoride toothpaste
- Floss daily
- · Limit sugary snacks and drinks to meal times only
- · Chew xylitol gum four to five times per day after eating
- · Establish a dental home for the family
- Regular dental visits q 6 months
- · Reassure regarding safety of dental treatment during pregnancy





### Case Presentation





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