



2019 Annual Meeting & Conference

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OCTOBER 28-29, 2019
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***Healthy Mothers, Healthy Babies. In That Order.
Centering Mother's Voices in Maternal Care.***



Integration of Services: Dental and Obstetrics

A COLLABORATIVE APPROACH TO PATIENT TREATMENT

Learning objectives

- ▶ List Common Dental Diseases that can be found in pregnant women
- ▶ Learn how these Dental Diseases can lead to adverse pregnancy outcomes
- ▶ Learn how to integrate services between Obstetrics and Dental Services

Common Dental Diseases that can be found in pregnant women

- ▶ **Pregnancy Gingivitis**
- ▶ **Pregnancy Tumor / Pyogenic Granuloma**
- ▶ **Periodontal Disease**
- ▶ **Dental Caries / Dental Decay**
- ▶ **Tooth Erosion**

Common Dental Diseases that can be found in pregnant women

► Pregnancy Gingivitis



Caused by the hormonal changes that increase the blood flow to the gum tissue that cause your gums to be more sensitive, irritable and swollen. Pregnancy Gingivitis typically peaks during the third trimester. If left untreated, it may lead to Periodontal Disease.

Common Dental Diseases that can be found in pregnant women

► Pregnancy Tumors / Pyogenic Granuloma



Benign growth of tissue that usually resolves after the delivery of the baby.
Occurs in approximately 5% of pregnancies.

Common Dental Diseases that can be found in pregnant women

► Periodontal Disease



Gingivitis when left untreated can progress to Periodontal Disease. Inflammation moves from gingival tissues to the supporting structures including the root surface, periodontal ligament and bone. The loss of bone due to periodontal disease is permanent. Bacteremia may result.

Common Dental Diseases that can be found in pregnant women

► Dental Caries / Dental Decay



Dental Caries may occur in pregnancy due to the increased acidity in the mouth, increased intake of sugary snacks and drinks secondary to pregnancy cravings, and decreased attention to oral health maintenance.

Common Dental Diseases that can be found in pregnant women

▶ Tooth Erosion



Due to the increased exposure to gastric acid from vomiting secondary to morning sickness or gastric reflux during late pregnancy.

“Periodontal Disease and Pregnancy Outcomes: Overview of Systematic Reviews”

Published September 25, 2017

L.A. Daalderop, B.V. Wieland, K. Tomsin, L. Reyes, B.W. Kramer, S.F. Vanterpool, J.V. Been

Study Overview:

- ▶ Findings taken from a comprehensive review of 23 individual studies.
- ▶ Systematic reviews with the lowest risk of bias consistently demonstrated positive associations between periodontal disease and preterm birth, low birth rate, and preeclampsia.
- ▶ Study found no association between Periodontal Disease and maternal or perinatal mortality.
- ▶ Study highlights that Periodontal Disease is an important risk factor for several common adverse pregnancy outcomes.

“It was recently established that the placental microbiome exhibits close resemblance to the oral microbiome”

Fusobacterium nucleatum

If found in the placenta, amniotic cavity, cord blood and neonatal gastric aspirates is associated with preterm delivery, LBW and early-onset neonatal sepsis

Porphyromonas gingivalis

If found in DNA of chorionic villous tissue or amniotic fluid it can lead to early miscarriage or premature labor and LBW.

When found in the placenta or umbilical cord it has been associated with preterm birth and preeclampsia

The American College of Obstetricians and Gynecologists

Committee Opinion:
Committee on Health Care for
Underserved Women

www.acog.org

Published: August 2013

Reaffirmed: 2017

- ▶ Abstract:
 - ▶ Oral health is an important component of general health and should be maintained during pregnancy.
 - ▶ Optimum maternal oral hygiene during pregnancy may decrease the amount of decay producing bacteria transmitted to the infant during common parenting behaviors. Sharing spoons and cleaning pacifier with mouth.
 - ▶ Studies have shown a possible association between periodontal infection and preterm birth, low birth weight and preeclampsia.
 - ▶ No known concerns about the safety of dental services during pregnancy.

ACOG Committee Opinion: Committee on Health Care for Underserved Women

Periodontal Disease and pregnancy outcomes

- ▶ 40% of pregnant women have some form of periodontal disease
- ▶ Periodontal Disease has been associated with pre-term birth, low birth weight and preeclampsia

Considerations for Obstetrician and Midwife

- ▶ Pregnancy is a teachable moment when women are motivated to adopt healthy behavior.
- ▶ Most obstetricians acknowledge the need for oral health care during pregnancy.
- ▶ 80% did not use oral health screening questions in their prenatal visits
- ▶ 94% did not routinely refer all patients to a dentist

Sample Oral Health Questions

- 1 Do you have swollen or bleeding gums, a toothache, problems eating or chewing food, or other problems in the mouth?
- 2 When was your last dental visit?
- 3 Do you need help finding a dentist?

Some of the Recommendations from ACOG

- ▶ Discuss oral health with all patients, including those who are pregnant or in the postpartum period.
- ▶ Advise women that oral health care improves a women's general health through her lifespan, including pregnancy.
- ▶ Conduct an oral health assessment during the first prenatal visit.
- ▶ Inform women that dental treatment is safe during pregnancy
- ▶ Develop a working relationship with local dentists and refer patients for oral health care.
- ▶ Reinforce oral health maintenance such as limiting sugary foods and drinks, brushing twice a day with fluoridated toothpaste, flossing once a day and seeing their dentist twice a year.

How we integrated Dental and Obstetrics at YourTown Health

- ▶ Set up an Integration Committee with bi-monthly meetings over a period of 2 months. Committee consisted of the following:
 - ▶ Clinical Director
 - ▶ Director of Dental Operations
 - ▶ Clinic Administrator
 - ▶ Registered Dental Hygienist
 - ▶ Director of Women's Services
 - ▶ Customer Service Representatives from OB and Dental

First we determined the patients that need to be referred to the dental department

- ▶ Dental services included in the OB Contract include Dental Screening, Exam, Cleaning, and Oral Hygiene Instructions
- ▶ Begin with all new OB patients
- ▶ OB patients would be screened at their initial visit with Women's Services.
- ▶ 2 Questions Asked:
 - ▶ Was your last dental exam and cleaning more than 6 months ago?
 - ▶ Do your gums bleed when you brush?
 - ▶ If the answer to either question is "yes" the patient is referred to the dental department.

First Dental Visit

Scheduled on the
same day as initial
OB visit

- ▶ ? DENTAL SCREENING
- ▶ ? VIDEO “HEALTHY SMILES FROM THE START”
- ▶ ? ORAL HYGIENE INSTRUCTIONS
- ▶ ? ORAL HYGIENE KIT
 - ▶ SOFT BRISTLE TOOTHBRUSH
 - ▶ TOOTHPASTE
 - ▶ FLOSS

Second Dental Visit

Scheduled on same day as follow-up OB appointment

- ▶ EXAM WITH DENTIST
- ▶ CLEANING (ALL TYPES INCLUDED)
 - ▶ PROPHYLAXIS
 - ▶ SCALING WITH INFLAMMATION
 - ▶ SCALING & ROOT PLANING
 - ▶ FULL MOUTH DEBRIDEMENT

How to integrate OB and Dental when both are operated by the same company

- ▶❓ Form an integration committee to decide the best way to begin the integration process.
- ▶❓ Include members of both the OB and Dental departments as well as senior management directly over each department.
- ▶❓ Determine the equipment necessary to implement the program.
- ▶❓ Determine the patients who will be included in the program.
- ▶❓ Determine the screening process (Questions to be asked of patients).
- ▶❓ Educate all members in the OB and Dental departments on the program.

Ways to integrate OB and Dental - Dental is at another location but operated by the same company



Photo of DNTL Works

Portable Dental Equipment is easily set up in an extra room

Need access to electric outlet.



Photo courtesy of Aseptico

Way to sterilize instruments if facility does not have an autoclave

Portable delivery systems that are most often used by public health programs

Manufacturer	Web site
A-dec, Inc	www.a-dec.com
Aseptico	www.aseptico.com
ASI Medical, Inc	www.asimedical.net
Bell Dental Products, LLC	www.belldental.com
DNTLworks	www.DNTLworks.com
M-DEC (Mobile Dental Equipment Corporation)	www.portabledentistry.com
Safari Dental	www.safaridental.com

How to integrate OB and Dental Services when you don't have a dental department

- ▶ ? ESTABLISH A WORKING RELATIONSHIP WITH LOCAL DENTISTS
- ▶ ? REFER PATIENTS FOR ORAL CARE WITH A WRITTEN NOTE JUST AS YOU WOULD WITH ANY OTHER MEDICAL REFERRAL
- ▶ ? EDUCATE YOUR PATIENTS ON THE IMPORTANCE OF DENTAL HEALTH ESPECIALLY DURING PREGNANCY

Integration of OB and Dental Services at YourTown Health: 10/31/2018 – 9/30/2019

Time since last cleaning	Number of OB patients seen
6-12 Months	5
1-3 Years	8
4-5 Years	5
6-10 Years	2
NEVER	4
Unsure or Didn't Report	19

Type of Cleaning Needed	Number of OB Patients seen
Adult Prophylaxis	7
Scaling	12
Full Mouth Debridement	15
Full Quad SRP	5
Never returned for cleaning	4



Questions?