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# **Research Article**

# Perinatal Oral Health: A Novel Collaborative Initiative to Improve Access, Attitudes, Comfort Level, and Knowledge of Pregnant Women and Dental Providers

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#### Abstract

Despite national recommendations, many U.S.A. dentists' are reluctant to treat pregnant patients. Disrupting care barriers and evolution of practice begins in education and through collaboration. The objectives of this program were to increase access to dental care and promote oral health education among pregnant women, improve dental student's exposure and comfort level, increase the likelihood of treating pregnant women and improve knowledge of the potential impact of poor oral health on pregnancy outcomes.

Through collaborative efforts, the University of Detroit Mercy (UDM) School of Dentistry and Wayne State University (WSU) Medical School, the Oral Health Pregnancy Day Initiative (OHPDI) was developed. Dental students were educated on the impact poor oral health may have on pregnancy outcomes and the importance of access to care. Pregnant women were educated on the importance of oral health and the negative impact poor oral health may have on pregnancy and birth outcomes and received needed dental care.

Thirty-four pregnant women presented for the OHPDI. Thirty-nine dental students participated. 85% of students reported they learned how poor oral health could potentially have a negative impact on pregnancy and birth outcomes, 87% were comfortable treating pregnant women compared to 63% pre-event, 79% agreed as a result of the event they were more likely to treat pregnant women. 94% of pregnant women reported not having a dentist and 100% received perinatal oral health education. This initiative resulted in increased students' knowledge, exposure, attitudes, and comfort level to treating pregnant women and pregnant women received needed oral health care education and dental treatment.

#### Keywords

Pregnancy; Access to care; Maternal; Oral health; Students; Dentists; Collaborative care

# Introduction

This paper presents a novel pilot project to initiate change in knowledge, perception, and behavior of pregnant women and dental students. There have been no documented studies of initiatives such

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as this project that demonstrate collaboration of a dental education clinical program with obstetrics, free dental treatment to pregnant women, enhanced educational opportunities for dental students and patients, and dedicated care to pregnant women.

The initiative described in this paper sought to increase exposure of dental students to the treatment of pregnant women, facilitate promotion and awareness of the 2013 American College of Obstetricians Gynecologists guideline [1], and the 2012 National Consensus Statement [2], increase exposure and comfort to treating pregnant patients, and create opportunities for pregnant women to receive needed dental care and oral health education.

Misinformation regarding the safety and importance of oral health care treatment for pregnant women and their unborn child exist among patients and providers [3]. Health literacy plays a role among patients [3]. Many are unaware of the potential negative impact of poor oral health on preterm birth, low birth weight, pregnancy outcomes, and early childhood caries [3,4]. While social determinants of health also impact dental care utilization for pregnant women, [5] a study in Michigan showed that poor patient knowledge and understanding of perinatal oral health crosses demographic boundaries [6].

Reluctance to treat attitudes of dentists can have a significant negative impact on current practice [3] as dentists play key roles in the health of pregnant women [4,7]. Many U.S. studies examining dentists' attitudes regarding treating pregnant women report a number of dentists' practice patterns are not consistent with current guidelines and recommendations. Thirteen states and national organizations have published perinatal oral health guidelines to reduce barriers to care and increase oral/dental care utilization during pregnancy [8]. Thus it is important to provide training and exposure in dental schools. In 2013, Curtis and Silk suggested that future efforts of prenatal oral health education in U. S. Dental Schools should include increasing exposure of dental students to pregnant patients [9].

Despite national recommendations and guidelines, utilization of care during pregnancy is reported as low [5]. Obstetricians play an important role in advancing oral health and dental treatment for pregnant patients. A study involving obstetricians and gynecologists reported 77% of their pregnant patients were "declined" treatment by dentists [10]. Pregnancy represents a time of increased risk of dental pathology [5]. Delaying dental treatment due to pregnancy may worsen dental outcomes and the health of the mother and child [4]. Poor maternal oral health may lead to infection, pain, and unnecessary loss of teeth [4]. It may also lead to early childhood caries in the child [11] due to the transfer of cariogenic bacteria from mother to infant child [12]. Additionally, maternal oral health is a public health issue because poor maternal dental health may increase the risk for early childhood dental caries, which among young children is the most chronic condition in the world. Maternal dental disease may increase the risk for miscarriage, preterm birth, and fetal growth restriction [1]. Evidence is mounting that oral bacteria play a role in intrauterine infection [13]. The association of the periodontal disease with low birth weight and preterm birth have been well established [14,15]. In the 2018 Rangel-Richon et.al systematic/meta-analysis

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review of periodontal intervention on reducing adverse pregnancy outcomes, six studies showed a low positive effect on periodontal intervention on adverse pregnancy outcomes while eleven demonstrated moderate to a high positive effect on periodontal intervention reducing a adverse pregnancy outcomes [16]. It has also been noted that periodontal disease intervention during pregnancy has not consistently resulted in reduction in preterm birth and low birth weight events [14,15]. Emerging evidence suggests periodontal intervention prior to pregnancy may reduce adverse pregnancy outcomes [15].

### Methods

#### Overview

This study was approved by the Institutional Review Board at the University of Detroit Mercy. A dental faculty member from the University of Detroit Mercy School of Dentistry and a medical faculty member from the Obstetrics and Gynecology (OBGYN)/Maternal and Fetal Medicine Department of Wayne State University Medical School in Detroit engaged in an interprofessional collaboration to create the School of Dentistry's first Oral Health Pregnancy Day Initiative (OHPDI) held over two separate days due to patient demand. The OHPDI occurred during normal clinic hours and oral health care treatments were supervised by faculty normally assigned to the clinic. Both events occurred on Fridays, one day in March and another day in April. Both schools have clinics that are co-located on the Detroit Medical Center Campus.

#### Pregnant women participation criteria

All pregnant women qualified for the event with the presentation of a medical consult from their OB provider indicating current pregnancy status. Patients learned of the event through radio advertisement, community care coordinators, social workers, and local health care providers. Patients requiring treatment beyond the day of the events were encouraged to return for the continuation of care, free of charge. Patients that presented for the OHPDI were registered in a similar fashion as any patient seeking dental care at the School of Dentistry. The length of time each patient spent varied based on the time the patient presented to the clinic for treatment, dental treatment needs to be identified, and patients' personal time schedule. Thirty-four women sought care at this event. The maximum number that could be seen per day was approximately 78 patients. All women that presented were seen. Care was provided on a first-comefirst-served basis.

#### Dental students participation criteria

The dental class size for each class varies from 141 to 144. At the time of this event, a maximum of 40 students could have participated due to the number of dental clinic chairs available in this clinic. Assigned students were expected to see pregnant patients. Student clinic assignments were scheduled randomly several months in advance. Thirty-nine 3rd and 4th-year dental students participated. Some participated due to their normal clinical assignment at the 40 chair hospital-based dental clinic. Others, third-year students, in particular, volunteered to participate through their oral medicine course. All the dental chairs were reserved for this event. Each of the participating students provided care for one woman and a few students may have shared a patient. Student availability varied both days of the event due to student schedules. Assigned students were available all day to see patients.

# Dental students and pregnant women perinatal oral health education

Dental students were educated on the potential negative impact poor oral health may have on pregnancy and birth outcomes. Faculty from dental and obstetrics were present. Supervised by faculty, dental students treated pregnant women. Pregnant women patients were educated on the importance of oral health for them and their baby and the negative impact poor oral health may have on pregnancy and birth outcomes.

## Oral health/dental treatment provided

Oral health care treatment was provided free of charge through the generous grant of the Detroit Medical Center Foundation (grant # 2015-0098). Due to the number of students available to treat patients and the number of patients that presented for treatment, there was a minimal wait time for patients to be seen. Treatment provided to pregnant patients was based on oral health exams and radiographic assessments. Treatment provided during the OHPDI included perinatal oral health education, oral health examinations, radiographic assessments, prophylaxis, gross debridements, fluoride treatments, amalgam, and composite fillings. All procedures including health education and preventive services were performed by dental students.

Thirty-four pregnant patients received oral health examinations, radiographic assessments as needed and oral health education and treatment over the two-day event. Patients requiring additional services were encouraged to return for the continuation of care.

#### Dental students survey assessment post participation

Post-event paper surveys were presented to participating students. The survey was developed and designed by author MM and reviewed by faculty for clarity and content and pilot-tested with a small sample of non-participating students. Feedback was used to revise the survey and to develop the final version. Similar questions have been used in other reported studies [17]. Surveys were administered to students immediately after the OHPDI. Surveys were confidential and kept secured in a locked file cabinet. The instrument included 7 questions with question #4 as a four-part Likert agreement scale question (Table 1). The survey response rate for the participating dental students was 100%. However, some students did not answer all survey questions.

#### Pregnant women survey assessment post participation

Post-event surveys written in English were also collected from patients. The survey was developed and designed by author MM and reviewed by faculty for clarity and content. Feedback was used to revise the survey and develop the final version. The questions were designed to specifically assess the goals of the grant initiative of increasing awareness and education of oral health among pregnant women and providing opportunities to receive needed dental care. The seven-question survey was administered to patients immediately after the OHPDI (Table 2). Written informed consents were obtained. The response rate for pregnant women was 100%.

#### Data analysis

Data was imported into Qualtrics survey. Univariate descriptive statistics were used to analyze the findings. Due to the sample size, this was regarded as a pilot project.

#### Table 1: Dental students survey assessment questions post OHPDI participation.

S.No.	Survey Questions	Response Choices
1.	To your knowledge have you ever treated a pregnant patient?	Choices provided
2.	Prior to today's Oral Health and Pregnancy Day Event, please rate your comfort of treating pregnant patients	Likert scale
3.	How comfortable did your patient seem to be receiving dental treatment?	Likert scale
4 a.	I learned how poor oral health may negatively impact pregnancy and birth outcomes.	Likert scale
4 b.	I am more likely to treat pregnant patients during any trimester, not just the second.	Likert scale
4 c.	I am more likely to treat pregnant patients in my office after graduation.	Likert scale
4 d.	I am comfortable treating pregnant patients.	Likert scale

#### Table 2: Pregnant women survey assessment questions post OHPDI participation.

S.No.	Survey Questions	Response Choices
1.	Please indicate your age range.	Choices provided
2.	Please indicate the number of months you are pregnant.	Choices provided
3.	How did you about this event?	Choices provided
4.	Do you have a dentist?	Choices provided
5.	Prior to today, when did you last see a dentist?	Choices provided
6.	Have you ever gone to an emergency room for dental care?	Choices provided
7.	Today's oral health pregnancy day event taught me that oral health is important for me.	Likert Scale
8.	Today's oral health pregnancy day event taught me that oral health is important for my pregnancy.	Likert Scale
9.	Because of today's oral health pregnancy day event I will more likely take care of my oral health.	Likert Scale
10.	Because of today's oral health pregnancy day event I will more likely take care of my baby's oral health.	Likert Scale
11.	Because of today's oral health pregnancy day event I will more likely seek comprehensive dental care for me.	Likert Scale
12.	Because of today's oral health pregnancy day event I will more likely seek preventative dental care for me.	Likert Scale
13.	Because of today's oral health pregnancy day event I will more likely seek comprehensive dental care for my baby.	Likert Scale
14.	Because of today's oral health pregnancy day event I will more likely seek comprehensive dental care for my baby.	Likert Scale

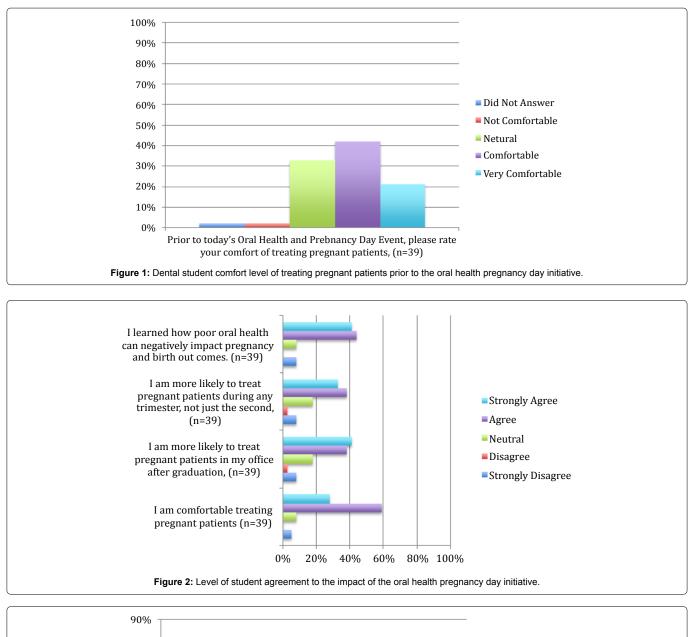
#### Results

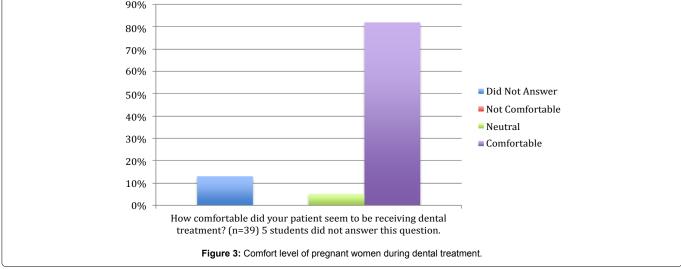
During the 2015-2016 academic year, 2 OHPDI's occurred. The descriptive survey findings of this cross-sectional design are shown in the following figures. Thirty-nine students participated and thirtyfour pregnant patients were treated during the OHPDI. The survey was confidential and did not allow the stratification of students into third or fourth-year students. However, due to normal clinic assignments for this clinic, it can be assumed the majority were fourth-year students. Eleven students (28%) reported never having treated a pregnant patient prior to the OHPDI. Fourteen students (36%) reported neutrality or uncomfortable treating pregnant patients (Figure 1). As a result of the OHPDI, 33 (85%) agree/strongly agree they learned how poor oral health can negatively impact pregnancy and birth outcomes (Figure 2), 28 (72%) agree/strongly agree they are more likely to treat pregnant patients during any trimester, not just the second trimester, 34 (87%) students agree/strongly agree they are more comfortable treating pregnant patients, and 31 (79%) agree/ strongly agree they are more likely to treat pregnant patients in their practice after graduation, and 34 (87%) agree/strongly agree they are comfortable treating pregnant patients. Thirty-two (82%) indicated their patients were comfortable during dental treatment (Figure 3).

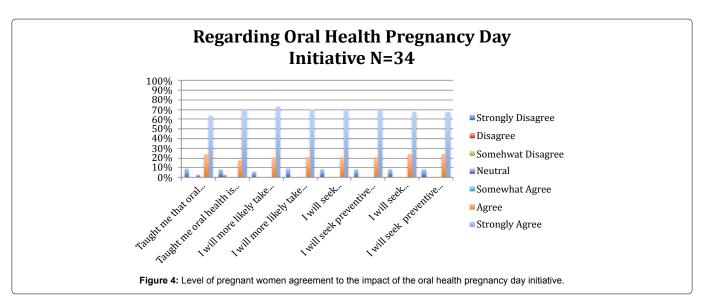
Regarding pregnant patients, two(6%) patients ranged in age between 16-20 years old, 12 (35%) ranged from 21-25 years old, 11 (32%) ranged 26-30 years old, 6 (18%) ranged from 31-35 years old, 3 (9%) ranged over 36 years old, 1 (2%) patient did not indicate the number of months she was pregnant, 9 (26%) indicated they were 1-3 months pregnant, 21 (61%) indicated they were 3-6 months pregnant, 3 (8%) indicated they were greater than 6 months pregnant. All 34 women received oral health education from the students, 32(94%) reported not having a dentist, 22 (65%) reported being over a year since they last saw a dentist, 30(88%) agreed/strongly agreed that OHPD taught that "oral health is important for me" and that "oral health is important for pregnancy", 32 (94%) agreed/strongly agreed that they will more likely take care of their oral health, 31 (91%) agreed/strongly agreed that they will more likely take care of their baby's oral health, 31 (91%) agreed/strongly agreed that they will seek comprehensive dental care and preventive for themselves, 31 (91%) agreed/strongly agreed that they will seek comprehensive dental care and preventive dental care and preventive dental care and preventive dental care for their baby (Figure 4). Recognizing that some patients may demonstrate response bias, it was more logistically feasible for the student providing the care to administer and collect the surveys. Front desk staff also collected the surveys. No pre-test survey was administered.

The distribution of treatment rendered during the OHPDI event was 34 perinatal oral health education and oral hygiene instructions, 31 exams, 7 radiographs, 21 adult prophylaxis or gross debridements, 22 fluoride applications, and 2 extractions. Students informed the patients of the recommended treatment needed. Patients were given the option to accept or decline treatment.

It is difficult to determine how many patients accepted and completed all the recommended treatment. However, the OHPDI event promoted awareness of the importance of perinatal oral health, the safety of the dental treatment, intentional efforts for dental students to treat pregnant women, and intentional efforts for pregnant women to receive needed dental care. It served as a gateway for more pregnant women to receive treatment. Because of the OHPDI, 88 pregnant women were seen after the OHPDI event and 20 (59%) of the patients were initially seen during the OHPDI event and returned for continuation of treatment, 63 radiographic assessments, 23 adult prophylaxis, 9 gross periodontal debridements, 15 scaling and root planning periodontal therapies, 35 fluoride applications, 10 endodontic pulp therapies (root canals), 32 restorations, 50 extractions, and 1 removable partial denture were completed. Citation: Mayberry ME, Gonik B, Trombly R (2019) Perinatal Oral Health: A Novel Collaborative Initiative to Improve Access, Attitudes, Comfort Level, and Knowledge of Pregnant Women and Dental Providers. J Womens Health, Issues Care 8:2.







### Discussion

It is not surprising that 71% of the student participants had treated pregnant patients before the OHPDIs, due to the dental clinic being located in a hospital setting that provides OB care. Future initiatives may consider analyzing students with and without prior experience before an OHPDI event. In addition, intentional efforts were made to increase student exposures and pregnant patients' access to needed dental care as dental training programs serve as entry points to care [3]. One of the components of this grant initiative, the Double O3T Project: Connecting the OBGYN and Oral Health Care Provider through Team-Based Approach Perinatal Care which includes training, teaching, and treating students, OB residents, and providing patient care, respectively, consisted of providing perinatal oral health care education to pregnant patients in the OB care wing of the hospital months before the OHPDIs.

Thirty-eight percent more (from 63% to 87%) of the students reported increased comfort after the OHPDI in treating pregnant patients and more than 75% reported they are more likely to treat pregnant patients in their practice after graduation. This data suggests that students that receive exposure and clinical experience in treating specific patient groups, such as pregnant patients, become more comfortable in treating pregnant patients and are more likely to treat them in their practice after graduation. The results reflect consistency with the 2005 Dao, Zwetchkenbaum, and Inglehart study that suggests when predoctoral students receive classroom and clinic-based exposure to specific patient groups they feel more comfortable caring for these patients in their practice [18]. This is also promising as studies report that clinical practice patterns are sustained post-graduation [19].

The role of dental and medical education in patient awareness, provider knowledge, and evolution of practice cannot be underestimated [20]. It has been documented that combining didactic and interactive teaching methods is more effective on the learner than either alone, according to a Cochrane review of continuing medical education [21]. This has also been noted in dental education as well as other areas of health care education [22,23]. Dental education evidence suggests that student comfort in predoctoral dental programs is a significant predictor of general dentists' stage of readiness to render treatment [20]. Increasing provider comfort results in 3.4 and 5.8 times more likely to perform these services

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compared to those contemplating and those unwilling to perform these services, respectively [24]. These studies were considered in the design of this purposeful hands-on initiative.

The Oral Health Pregnancy Day Initiative is the first documented event to occur in a dental school clinic that provided such an experience. In addition, a substantial amount of pregnant women, thirty-four, were seen for dental treatment in the two-day event. One previous study reported seeing fifty-five women but that was over the course of one academic year [25]. The thirty-four women noted in this initiative represent those seen in the two days OHPDIs and does not include the additional pregnant women that were seen throughout the academic year.

This study may provide other educational organizations with ideas of how to increase exposure and comfort level of all health care students through interprofessional collaboration to specific patient groups. This study is not without limitations and thus impacts the generalizability of the data presented. Increased comfort level or reported "very comfortable" level of treating pregnant patients in health education settings may not translate to practice behavior of the same reporting students due to other factors that may dictate whether a dentist treats pregnant patients. One factor that may preclude a dentist from treating pregnant patients is the patient's dental insurance coverage. Medicaid beneficiaries have greater challenges in finding dentists that accept their insurance.

Given the sample size, this should be considered as a pilot project. However, the majority of the students reported that because of the OHPDIs they learned how poor oral health may negatively impact pregnancy and birth outcomes and that they are now more likely to treat pregnant patients in their practice.

#### Conclusion

In conclusion, through interprofessional collaboration, this project positively impacted students and pregnant women. For students, it provided learning, exposure, and experiences in treating pregnant patients resulting in increased knowledge, favorable attitudes, and provider comfort. For pregnant women, it provided opportunities to receive perinatal oral health education and needed dental treatment. Grass root strategies described could be used for initiatives in other health professions. Citation: Mayberry ME, Gonik B, Trombly R (2019) Perinatal Oral Health: A Novel Collaborative Initiative to Improve Access, Attitudes, Comfort Level, and Knowledge of Pregnant Women and Dental Providers. J Womens Health, Issues Care 8:2.

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