Improving Oral Health Services Utilization Among WV's Perinatal Eligible Populations

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Presenter Disclosures

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(1) The following personal financial relationships with commercial interests relevant to this presentation existed during the past 12 months:

No relationships to disclose



There are two ways to live your life.

One is as though nothing is a miracle. The other is as though everything is a miracle -Albert Einstein

Almost heaven....



-Became separate state in 1863 -Coal Mining and Tourism -Total Population- 1,808,344 -Famous West Virginians; Mary Lou Retton, Jennifer Gardner, Don Knotts, Chuck Yeager, Kathy Mattea, and Jerry West

entrier



WV Economics



- Total Population; 1,808,344
- Unemployment Rate is 8.9%
- Median Household Income is \$46,560
- Leading Single Employer; State of WV followed by Wal-mart
- 14% of Adults hold a Bachelor Degree or Higher
- 95% of total population is Caucasian



WV at Glance

Since 1990 there are 20,000 live birth annually-

- Over ¼ (27.2%) are born to mothers that smoked
- 9.7% of all births were low birth weight
- 12.4% of all births were pre-term

WV at a Glance continued

- Of the 2,020 low birth weight 67.7% were preterm (1,367)
- Over half are funded by Medicaid
- In 2005, 27.7% of women of childbearing age were obese



Snapshot of birth outcomes in WV

In an average week in West Virginia:

- 56 babies are born preterm (less than 37 weeks)
- 9 are born very preterm (less than 32 weeks)
- 37 are born low birthweight (less than 2500 g or 5.5 pounds)
- 6 are born very low birthweight (less than 1500 g or 3.3 pounds)

Source-Peristats, March of Dimes

Scope of the Problem

- In WV, between 1994 and 2004, the rate of infants born preterm increased 31%.
- Risk factors (medical, behavior and environmental and genetic)

Note: Causes of preterm labor and delivery are likely due to multiple risk factors as opposed to any single isolated risk factor.

Preterm Birth and Low Birth Weight Lifestyle and Environmental Risk Factors

- Lack of, Poor or Late prenatal care
- Smoking
- Alcohol
- Domestic Violencephysical ,sexual or emotional abuse

- Lack of social support
- Stress
- Long working hours with long periods of standing

Financial Burden of Prematurity

- The average cost of hospital charges for newborns w/out complications run \$1,500.
- The average cost of hospital charges for infants w/a principal dx of prematurity averages \$79,000.
- Long term costs associated with prematurity



Source-Peristats, March of Dimes, WVU Birth Score Office

Pregnancy is a teachable Moment

There is an associated connection between good oral health and good birth outcomes



↑ IL-1 ↑ IL-6 ↑ TNF-∝ ↑ PGE 2

St Inflammatory Response:

Periodontal bacteria release cytokine that signal recruitment of neutrophils and monocytes

> Liver Parenchymal Cells † Fibrinogen † C-Reactive Protein † Serum Amyloid-A

2nd Inflammatory Response:

Continued cytokine release plus the migration of bacteria in periodontal biofilm may cause:

- . cardiovascular disease
- . atherosclerosis
- . damage to placenta
- premature labor
- · low birth weight
- high risk of miscarriage

IgM
C-Reactive Protein
TNF-∝
PGE 2

Lipid Infiltrate of the Atheroma
 Plasma Cells
 Macrophages
 Gram-Negative Anaerobic Microbes
 Neutrophils
 T-Cells
 Monocytes
 Cytokines

First Trimester: Organogenesis and Teratogenesis

- In order for an environmental factor to be considered a teratogen, exposure must occur during organogenesis.
- Performing dental procedures during early pregnancy has <u>**NEVER</u>** been reported to increase the rate of physical defects.</u>

Teratogen=an agent or substance that may cause physical defects in the developing embryo or fetus Organogia=development of the organs (takes place in the first

Organogenesis=development of the organs (takes place in the first ten weeks of gestation)



Oral-Facial Growth and Development

- 4-5 weeks primary tooth buds
- 4-7 weeks lips
- 8-12 weeks roof of mouth
- 12 weeks primary teeth start to harden
- 6 months permanent tooth buds



Developing a Treatment Plan

- Old Best Practices: Providers have traditionally postponed non-emergent dental treatment until the first trimester has passed or delivery.
- New Best Practices: There is no compelling evidence that precludes dental treatment any time during pregnancy including the first trimester.

Developing a Treatment Plan

- Oral health professionals should consider the gestational age of the fetus and the estimated date of delivery.
- Second trimester (14 to 20 weeks gestation) is considered the best time to provide treatment, as teratogenicity has passed, nausea and vomiting are less common.
- Opportunity to provide Intervention to combat harmful maternal behaviors

Source: Oral Health Care during Pregnancy and Early Childhood Practice Guidelines, New York State Department of Health August 2006

WV Perinatal Partnership

- <u>Mission</u>- We are a statewide partnership of health care professionals and public and private organizations working to improve perinatal health in West Virginia.
- We want health care providers to be able to best care

for pregnant women and their babies.

- We encourage new laws that promote better health
 - for pregnant women and their babies.
- We create opportunities for perinatal professionals to share their expertise with each other.
- We spread the latest knowledge about perinatal health through educational programs.
- We work to reduce tobacco and drug use among pregnant women and foster oral health care in pregnant women and infants.
- We study research and trends in mother/child health and work to distribute that information.



Work plan;

2006 Key Informant Survey Established a Website and Work Group



Blueprint to Improve WV Perinatal Health 2006, 2007, 2008



<u>Committee on the Lack of Oral Health</u> <u>Care in Pregnancy</u>

Committee Members –

Gina Sharps RDH, BS - Chair WVU HSC Dr. Elliott Shulman – WVU Pediatric Dentist Dr. Richard Meckstroth – WVU Dentist Dr. Eros Chaves – WVU Periodontist Dee Messinger RN- RFTS Paula Darby RN- RFTS Jeannie Clark- RFTS Jeff Allen- Council of Churches Dr. David H. Walker- WV Dental Director

Staff- Bobbi Muto RDH, BS- MU SOM Mary Bee Antholz- WVHCA



Policy Recommendations

Provide Preventive
 Dental Care to WV
 PEIA covered
 Pregnant Women



 Provide Dental Coverage to all Medicaid Eligible Woman

Looking at WV Medicaid



Medicaid Patients are identified as high risk-

- Just 27.7% of pregnant WV women sought and received dental exams
- Of those 3.7% received treatment for oral health

2002-2004 Data, WV HCA, May 2007

Facts going in.....

- Pregnant women in WV can receive Medicaid
- WV Medical Card-Covers dental treatment for pregnant women under the age of 21
- Age 21 and over will only cover emergency care (exam, x-ray, and extraction)
- A majority of RFTS Clients were Medicaid Recipients

Take Home Messages for the Dental Team

- Definitive treatment should **NOT** be postponed because of pregnancy.
- Appropriate treatment of pain and infection is important.
- Emergency dental treatment to relieve pain, swelling, bleeding or infection should be sought ASAP no matter what stage of pregnancy (↑ Stress and Pain is unhealthy for the fetus)
- WV Medicaid Coverage
- Use of antibiotics and analgesics for treating infection and controlling pain is acceptable.
- Pharmacotherapeutics should not be a substitute for appropriate and timely dental procedures!

Take Home Messages for the Perinatal Providers

- Definitive treatment should **NOT** be postponed because of pregnancy.
- WV Medicaid Coverage
- Referrals to the Dental Team should be as routine as ultrasound referrals
- Appropriate treatment of pain and infection is important.
- Emergency dental treatment to relieve pain, swelling, bleeding or infection should be sought ASAP no matter what stage of pregnancy (↑ Stress and Pain is unhealthy for the fetus)
- Use of antibiotics and analgesics for treating infection and controlling pain is acceptable.



Take Home Messages for Pregnant Patients

- Encourage all women to schedule an oral health exam during pregnancy.
- Dental care is safe and effective.
- First trimester diagnosis and treatment can be undertaken safely.
- Delay in treatment could result in adverse effects for the mother and child.



WV Perinatal Partnership Policy Recommendation Revised

RECOMMENDATIONS:

- Encourage and support a broad partnership of health professionals to work together to assure that all health care providers are aware of the association between oral health and overall health, therefore recognize the correlation between infectious oral disease and unfavorable birth outcomes.
- Encourage and support programs working with families to promote oral care before, during, and after pregnancy as a key strategy to improve maternal health, fetal development, infant health, and birth outcomes.
- The Bureau for Medical Services should review the reimbursement rates for Medicaid-covered dental services and evaluate the positive impact of preventable dental services for all women of childbearing age. Dental care for all pregnant women may result in an overall cost savings by reducing the number of PT/LBW incidence.

Getting our "Messages" out there.....

Start with the front lines- RFTS, MIHOW, WIC, and Early Head Start

- Grab Attention of Dental Professional with Free CEU's
- Work with Perinatal Provider Professional Groups

NEEDED Funding!



Worked with RFTS Case Managers

- Identified top three barriers to access to oral health care;
- Educational Voids- who, what, when
- Lack of Dental Provider willing to See Pregnant Patient
- Prenatal Providers unsure of standard of Oral Health Care during Pregnancy

Trained WV RFTS

- 8 regions
- Nurses and Social Workers
- Armed them with Front line knowledge and tools
- Oral Health Kits to Expectant Mothers and Siblings

- Training Modules
 Developed for future use
- Development of Dental Provider Linkages for referrals

"First Smiles CE Campaign"-conducted with Dental and Non-Dental Professionals

- Dental components could elect either a 4 hr.
 CE course or a 6 hr. CE course
- 6 hr. course included Perinatal Oral Health
- Organizations participating in CE include: WV Right from the Start Program, WIC, WVDA, WVDHA, WVAPA & WV AAP





Pilot Projects With WV WIC Programs for Expectant Mothers



Mailings to Non-Dental providers

- Received a copy of the Summary Guidelines/ Brochure with a letter from ED/Pres
- Within the letter, participants are urged to complete the online training module offered by the University of Albany (CE available to medicine, nursing and dental)
- Barrier of Coverage quickly became an issue- 21yrs and over faced extraction or pay scenario



Pregnancy and Dental Care

Continue to see a dentist and dental hygienist for check-ups even when you are pregnant.

Having healthy teeth and gums when you are pregnant will help keep you healthy.

There are germs in your mouth that cause tooth decay. These germs can be passed to your baby.

Moms with healthy teeth and gums are less likely to pass these germs to their babies.

Learn more at http://www.nyhealth.gov/ publications/0824.pdf

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2008-2009 Highlights

- Educate the OB and **Dental Providers in the** state-
 - Various grant funding to provide training, education and the development and printing of WV guidelines for Oral Health and Pregnancy



Two Healthy Smiles

Tips to Keep You and **Your Baby Healthy**

Taking care of your mouth while you are pregnant is important for you and your baby. Brushing, flossing, eating healthy foods, and getting dental checkups and treatment will help make you and your baby healthy.

Changes to your body when you are pregnant can make your gums sore, puffy, and red if you do not brush and floss every day. This problem is called gingivitis ("gin-gih-vi-tis"). If gingivitis is not treated, it may lead to periodontal ("pear-eeoh-don-tuhl") disease.

Give your baby a healthy start! Here are tips to keep you and your baby's teeth and gums healthy.

While You Are Pregnant

Brush and Floss

- o To prevent or control tooth decay, brush your teeth with a soft toothbrush and toothpaste with fluoride ("floor-ide") twice a day.
- Floss once a day.
- If you can't brush your teeth because you feel sick, rinse your mouth with water or a mouth rinse that has fluoride.
- If you yomit, rinse your mouth with water.

Eat Healthy Foods

- Eat fruits, vegetables, whole grain products like bread or crackers, and dairy products like milk, yogurt, or cheese. Lean meats, fish, poultry, eggs, beans, and nuts are also good choices. Eat foods that have sugar at mealtimes only.
- Drink water or low-fat milk instead of fruit juice, sport drinks, or pop or soda.
- Drink water at least a few times a day, especially between meals and snacks.
- o Cut down on sweets like candy, cookies, cake, and sugary drinks (like sport drinks, pop, or soda).
- Look for products (like chewing gum or mints) that are sugar-free or contain xylitol ("zy-lih-tohl").

Get Dental Care

- o Get a dental checkup. It is safe to have dental care when you are pregnant. Don't put it off until after you have the baby.
- o Tell the dental office staff that you're pregnant and your due date. This will help the dental team keep you comfortable.
- The dental team may recommend rinses with fluoride or chewing gum with xylitol, which can help reduce bacteria that can cause tooth decay and gingivitis.
- Talk to your doctor if you need help getting dental care or making an appointment.

Chair-side Resource

Oral Health Care during Pregnancy: At-a-Glance Reference Guide

This guide highlights the key recommendations for both assessment and entidpetory guidance for the pregnant petient. It is designed to be used chair-side as a check list when providing care.

When providing care to the programt petient keep in mind the following.

- Pregnancy and early childhood are particularly important times to initiate and maintain are health care because the consequences of poor oral health can have a lifelong impact.
- Improving the oral health of pregnant women prevents complications of dental diseases during pregnancy, has the potential to decrease early childhood carles and may reduce preterm and low birth weight deliveries.
- Assessment of one health risks in infents and young children, along with anticipatory guidence, has the potential to prevent early childhood carles.
- Drai health professionals should render all needed services to pregnant woman because Pregnancy by Rself is NOT a reason to defer routine dental care and necessary treatment for oral health problems.
- First trimester disgnosis and treatment, including needed dental x-rays, can be undertaken safely to diagnose. disease processes that need immediate treatment.
- Needed treatment can be provided throughout the remainder of the second and third trimester, however, the time period between the 14th and 20th week is local due to the fact that the baby's major agrant have formal and bout or maring address and/or an esegarated agr and/or and/or the the major agrant marks the second or the second comfortable.

Use the following when clinically indicated (lies the following clast for ecceptable and anecceptable drugs):

- Local anesthetic with solnaphrine.
- Aneigenics such as acateminophen and/or codeine, antibiotics including paniciline, caphelosporins and entromylcine, excluding wythromycin estolets
- Radiographs with thyroid collar and abdominal apror
- Non-steroidal anti-inflammatory drugs for 48-72 hours
- Avoid aspirin, aspirin-containing products, erythromycin estolate and tetracycline

Acceptable and Usecceptable Drugs for Pregnant Woman

| These drugs may be used during programmy | PDA Category | These drags should NOT be used during programmy | FDACabagery | | | | |
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Managing the Oral Health of Pregnant Women

In complying with the standard of care have you?

- Recorded the Chief dental complaint and medical history
- Performed and Documented the patient's history of tobacco, alcohol and other substance use.
- member there is no sets emount of elcohol consumption during pregnancy and women who smoke during gnancy are at increased risk for low birth weight bables, bleeding during pregnancy, premature labor and pretoneous are at locros eoclated with maternal an preterm rupture of memb noking include sudden infant death syndrome, hospit
- Performed a comprehensive clinical evaluation including an oral cancer screening
- Taken Radiographs when needed. Protective thyroid collars substantially reduce radiation exposure to the thyroid during dental radiographic procedures. Because every precaution should be taken to minimize radiation thyroid during dental radiographic p exposure, protective thyroid collers enever possible. This practice is strongly inded for childre
- Provided or plan to provide dental prophylads and treatment during pregnancy, preferably during early second trimester but definitely prior to delivery.
- Developed and discussed a comprehensive treatment plan that includes preventive, restaurtive and maintenance CANE.
- Provided or plan to provide emergency care at any time during pregnancy as indicated by oral condition.
- Here you considered the following strategies for improving the oral health of the pregnant patient?
- Successed fluoride toothpaste?
- Recommended chlorohexidine and fluoridated mouth rinees?
- Recommended fluoride varnish as appropriate?
- Recommanded the use of xylitol-containing chewing gum?
- Advised use of baking sode rinse when experiencing "morning sickness" or acid reflux? Baking sode will help. restore of balance in the oral cavity.
- Recommended the use of a low-sude or fearing toothpasts if the patient is experiencing an exaggerated gag reflex? Reading daily
- Limiting sugary foods and drinks

Easy is mind the following when treating the programt patient?

- Avoid long weits in the waiting room/reception area
- Avoid early morning appointments for patients experiencing morning sickness
- Allow for bathroom breaks
- Conscious of exacquerated gap reflex;
- To keep head higher than the feet

Consult with the Prenatal Care Provider when:

- Deterring any treatment because of pregnancy.
- Managing conditions that affect oral conditions such as diabetes, hypertension, etc.
- Using enerthesis other than a local block to complete a dental procedure
- DR AT ANY TIME YOU ARE UNSURE OF PLANNED PROCEDURES OR THE ADMINISTERING OF MEDICATIONS!

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The share we suggested guidelines of the mesugement of the program patient. Always consult with the patient's primary physician If any contractionizate) possibly exist. Deletive diagnosis and treatment is ultimately mearved at the discretion of the practitioner. *Content of this reference guide was edupted from the New York State Department of Health, Oral Health Care chaing Programmy and Early Childhood Prestice Strikelines.





Birth Score Office Adds Oral Health Questions to Screening

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| Wy babys Birth Score, Developmental Risk Scoren and Newborn Hearing Screen why babys Birth Score Developmental Risk Screen and Newborn Hearing Screen was been service such as case management or early intervention. Wy babys Birth Score Developmental Risk Screen and Newborn Hearing Screen was been service such as case management or early intervention. Wy babys Birth Score Developmental Risk Screen and Newborn Hearing Screen service such as case management or early intervention. Wy babys Birth Score Developmental Risk Screen and Newborn Hearing Screen service such as case management or early intervention. Parent/guardian signature Date | | O Oral tobacco O Patch | | | | | |
| _OMCPH Hearing Referral | or Office Use | High Birth Score is abov | 99. have been expla | ined to me. I understand m | ly baby may be eligible for a specia | ien il | |
| 1888 Parent/Guardian Suffix Copies: BirthScore Office, Chart, Parent/Guardian | OMCFH Hearin | g Referral | | | | | |
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| 14//tenent simplify | Parent/G | uaroian | | | | | |

- 1- Have you noticed any loose teeth?
 - 2- Bleed Gums in the past 6 months?
 - 3- Have you had regular cleaning in the past 6 years in a dental office?

Issue:

Self Reported Data

Oral Health Brochure: A Parent's Guide for Healthy Teeth

Project

- Designed as a collaborative project between WVU Birth Score Office and WVU School of Dentistry
- Distributed to EVERY Birth Mother in WV
- Along side of three oral health questions

Endorsements

WVDA, WV Hospital
Association, WV ChapterAmerican Academy of
Pediatrics, WV Academy of
Family Physicians, WV
Chapter American College
of Nurse Midwives, WV
OMCFH and WV Healthy
Start/HAPI Project

Brochure Highlights

- Don't let the infant fall asleep with a bottle unless it has <u>plain water</u>
- Teach use of a cup by one year
- Wean from a bottle by 12-14 month
- Constant sippy-cup use with sugar drinks should <u>**not**</u> be allowed
- As baby teeth begin to appear avoid <u>frequent</u> on demand feedings during the night
- Thumb sucking
- Cleaning Gums
- Vertical Transmission
- Establishment of Dental Home by Age 1





Hospitals

New Partners – Labor and Delivery Newborn Nursery Pediatric Nurses

Received Funding from WV Grant makers to target Three of WV Delivery Hospitals for Lunch and Learns – for nursing staff





Other Highlights

- Several grants awarded to partners for education, outreach and training (Head Start, CHC's etc)
- National Recognition of Efforts
- Data now accessible



Results to be Proud of ????



2006/0724% Sought a Dental
Exam
48% Sought Dental
Treatment

2002-2005 Data, WV HCA, May 2007, 2006-2007 Data, WV HCA, May 2009

Preventive Dental Care and Treatment should be as routine as an ultrasound for every Woman





Oral Health Committee Focus for 2009

2009 Goal-

Continue to improve utilization of services in that population where there is coverageideally like to reach 50% utilization rate for Treatment

Continue to address barriers identified during training sessions;

- Dental Providers uncomfortable seeing pregnant patients
- OB unsure of referral and releases
- Lack of education of services available
- Educate Policy Makers influence policy decisions

Dr. Samelson: An appreciation for how oral health is part of and integral to overall health, that the separation of oral health from medical care is artificial and dangerous, and that the key is prevention with education.



Thank You for Your Attention! Questions & Comments

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