Gestational Diabetes: A New Approach to Care

Betsy Portugal, RNC, CNM, MSN
Department of Obstetrics & Gynecology
Texas Tech Health Science Center - El Paso

- & GDM Group Care Model

Objectives

Pre-gestational diabetes: Type 1, Type 2

Gestational Diabetes: "carbohydrate intolerance that begins or is first recognized during pregnancy"

Diabetes in Pregnancy

- & Increased risk for Cesarean delivery

GDM: Maternal Effects

- k Increased risk of macrosomia

GDM: Perinatal Effects

- & American Diabetes Association (ADA)

Screening for GDM

ACOG

- k Age <25 years of age
- Not a member of an ethnic group at risk for GDM
- & BMI < 25
- № No history of abnormal glucose tolerance
- No history of adverse obstetric events associated with GDM
- № No known diabetes in 1st degree relative

ACOG's "Low-Risk Factors"

- If result is >130, 135, or 140, a 3 hour, 100 gram
 GTT is required
- & GTT requires the patient to be fasting

ACOG Recommended Screening

- & Carpenter criteria is most widely used
- № If 2 of 4 results are abnormal, GDM is diagnosed
- & Threshold Values

k FBS: 95

k 1-hr: 180

k 2-hr: 155

k 3-hr: 140

3-hour, 100 gram GTT Results

- & Administer 2-hour, 75 gram GTT at 24-28 weeks

American Diabetes Association

- National Institutes of Health
- № Prediction: 2 hour, 75 gram GTT will be endorsed and established as the standard of care

Final Decision on GDM Screening

- ≥ 25,505 patients, 15 centers, 9 countries
- & 2-hour, 75 gram GTT at 24-32 weeks

Hyperglycemia and Adverse Pregnancy Outcomes (HAPO) Study

- - ø birth weight
- & Secondary Outcomes
 - g Preterm delivery

 - g NICU admission
 - ø Hyperbilirubinemia
 - ø pre-eclampsia

HAPO Outcomes

⟨ FBS: greater or equal to 92

≥ 1-hour: greater or equal to 180

& 2-hour: greater or equal to 153

Threshold Values for 2-hour, 75-gram GTT

"Satisfaction with care, generally considered to be a measure of a patient's perception of the care experience, is regarded as both an outcome of care as well as a measure of its quality"

Why Group Care

Quality Improvement

- & Benchmarks: satisfaction of care, maternal & neonatal outcomes

Pilot Study

&Assessment
&Education
&Support

&Facilitative Leadership Style

GDM Group Prenatal Care

&Change Dietary Habits
&Increase Exercise
&Decrease Stress

Lifestyle Modification

Patient Centered Care

Blood glucose Monitoring
Physical activity
Healthy Eating
Medication taking
Problem solving
Risk reduction
Coping

Self Management of Care

- & GDM is consider to be a pre-diabetes state
- **Empower** women to Lifestyle Modification for themselves and their families for a lifetime
- & Encourage Health Promotion & Prevention
- Representation Primary Care follow up

Opportunities



Together We Can Make a Difference in Diabetes Care!