Gestational Diabetes Subgroup

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Gestational Diabetes

- · Affects 2-10% pregnancies in the US
- · Affects 135,000 women each year
- Incidence is increasing, along with that of Type 2
 Diabetes Mellitus

Risk Factors for GDM

- · Family History first degree relative
- Ethnicity
 - · African American
 - · American Indian
 - · Pacific Islander
 - · Asian American
 - · Hispanic / Latino

Risk Factors

- · Age 25 or older
- · Overweight
- Medical History
 - · Hypertension
 - · PCOS
 - Delivery of at least one baby weighing over 9 pounds

Risk Factors

- · Medical History
 - · Gestational Diabetes
 - · Pre-diabetes
 - · Impaired glucose tolerance
 - · Impaired fasting glucose
- Labs
 - · Glucose in the urine

Glucose Testing

- During pregnancy
 - · High Risk patient test at the first prenatal visit
 - If normal, repeat testing between 24-28 weeks gestation
 - Average and Low Risk patient test between 24-28 weeks

Treatment During Pregnancy

- Meal Plan
- · Physical Activity
- · Insulin (if indicated)
- · Monitor blood sugar
 - Treating to postprandial targets are associated with superior pregnancy outcomes vs pre-prandial targets

Long Term Follow Up

- The majority of women with GDM failed to return for postpartum glucose testing.
- Providers initiated the postpartum testing only 60% of the time in one study.
- (Kim et al. Am J Joub Health, 2006)
- Up to one third of GDM women will have DM or impaired glucose metabolism at postpartum screening.

Why is Follow-up So Poor?

- · Fragmented medical care
- Obstetricians may refer to endocrinologist for care, patient may see a primary care MD for post partum visit

American Diabetes Association

 Recommends repeat testing at least every 3 years for women with GDM and normal results of Post Partum Testing

Long Term Outlook

- Most, but not all, women with GDM do progress to diabetes after pregnancy.
- 10% have diabetes soon after delivery.
- Five year cumulative incidence of type 2 DM is over 50% for women with GDM.
- Ten year follow up reveals a risk of about 70%

Impaired Glucose Tolerance

 Identified by Postpartum Glucose value 140-199 after a 75g 2-hour glucose tolerance test.

Impaired Glucose Tolerance

- These patients may have a 58% reduction in the risk of Type 2 DM if they have:
 - Intense lifestyle modification to promote weight loss and increase physical activity.

Goal

- · Postpartum testing of all patients with GDM
- · Appropriate interpretation of results
- Proper referrals
- Long term follow up based upon history

Algorithm

- ACOG Committee Opinion #435, 2009
- · Yearly screening for diabetes
- Emphasis on nutritionist referrals, breastfeeding, weight management
- Everyday Checklist for Healthy Women