Gestational diabete



Gestational diabetes (or gestational diabetes mellitus, GDM)

When a woman is not diagnosed of diabetes but exhibits high blood pressure level during pregnancy, it is often the condition of gestational diabetes.



1. Classification

- 1.Pre-gestational Diabetes either type I o r type II
- 2.Gestational diabetes: diabetes that develops during pregnancy

2. Complications of Diabetes in pregnancy

1.Maternal

- · Polyhydroamnios: from fetal polyuria
- · Nephropathy: common in pregestational diabetes, increasing the risk of preeclampsia
- · Retinopathy: occurs after several years of pregestational diabetes, often deteriorates during pregnancy
- · Diabetes ketoacidosis: May occur at lower glucose concentration

2.Fetus

- · Fetal demise: increased spontaneous miscarrage and fetal death in utero
- · Respiratory distress syndrome
- · Macrosomia(>4000-4500 g)
- · Fetal hypoglycemia
- · Hyperbilirubinemia

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3. Screening glucose challenge test

- (1) All patient screened between 24 and 28 weeks.
- (2) With 75gm high concentration sugar water and keep fasting before test 4-6 hours.
- (3)2 hours(75gm) Oral glucose tolerance testIntra-partum management
- (4) Nutritional counseling differs individually and it varies with patients' weight and height.
- (5) fasting glucose levels should be under 105 mg/dl. or 2-hr post-meal sugar level should be under 120mg/dl, if not, pharmacologic treatment was suggested (insulin administration)
- (6) Fetal evaluation
 - · fetal activity assessment, NST(non-stress test: a 20-minutes-test of fetal movement and fetal heart beat relation) beginning at 32-34 wks
 - · Ultrasound: first time at 18-20 weeks, and the second time is at 30-32 weeks
 - · Insulin treatment: It is usually recommended that oral hypoglycemic agents be discontinued once pregnancy is diagnosed
 - · Exercises like swimming and bicycle riding are highly recommended; however, riding bicycles is inappropriate toward the last stage of the pregnancy, simple walk is recommended.

(6) During labor care

- · Maintain euglycemia(normal sugar level) during labor
- · Sugar control with Insulin drip and check sugar every hour in labor
- (7)Postpartum management
- (8) Home glucose monitoring
- (9) Diet instruction
- (10) Prevention of hemorrhage and infection
- (11) Regular postpartum blood sugar trace, and sugar test within 6 wks of delivery
- (12)Breastfeeding encouraged

