Pregnancy & Diabetes Classification

Pre - gestational	Gestational
Appears before pregnancy or within first 5 months (20 wks of pregnancy	Appears after 20 wks of pregnancy
Higher risk to baby for birth defect	Lower risk to baby in 1 st trimester
Difficult to control	Relatively easier to control
Usually continue after delivery	May disappear after delivery

 Approximately 7% of all pregnancies are complicated by GDM

 In India it is reported as high as 12% of all pregnancy

Definition of Diabetes during pregnancy (GTT 100 gms glucose)

FBS	More than 95 %
1 Hour Blood Glucose	Level≥180 mg/dl
2 Hour Blood Glucose	Level≥155 mg/dl
3 Hour Blood Glucose	Level≥140 mg/dl

Diagnosis of diabetes during pregnancy

FBS	More than 95 %
PLBS	More than 130 mg%
Screening test positive	More than 140 mg%
1 hour blood glucose	
after 50 gms oral	
glucose	

Complications due to uncontrolled blood glucose in early pregnancy

- congenital malformations
- spontaneous abortion

Complications due to uncontrolled blood glucose in later pregnancy

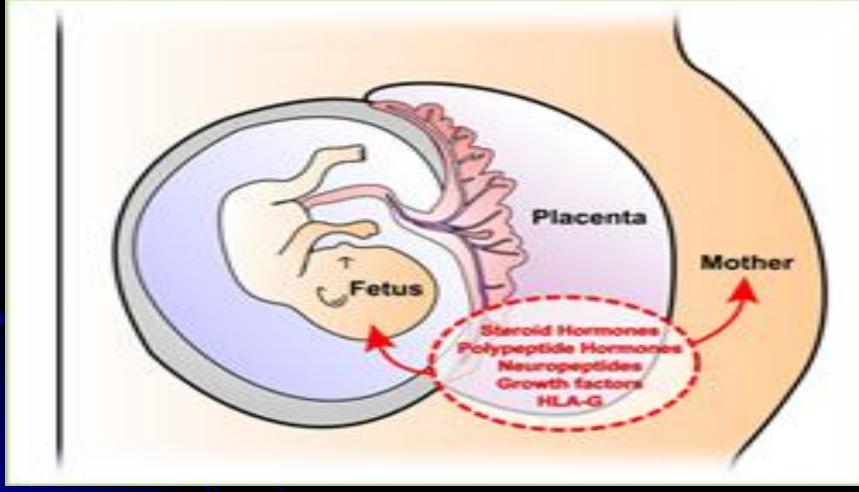
- fetal macrosomia (Large size baby, more than 4 kg wt),
- Preeclampsia

(High BP, Proteinuria, swelling all over the body)

spontaneous abortion

Sudden foetal death

Why there is increased tendency for diabetes during pregnancy



Maternal complications

Transverse position



Breech presentation



Placenta abruptio



Placenta previa





1- mother's blood brings extra glucose to the fetus

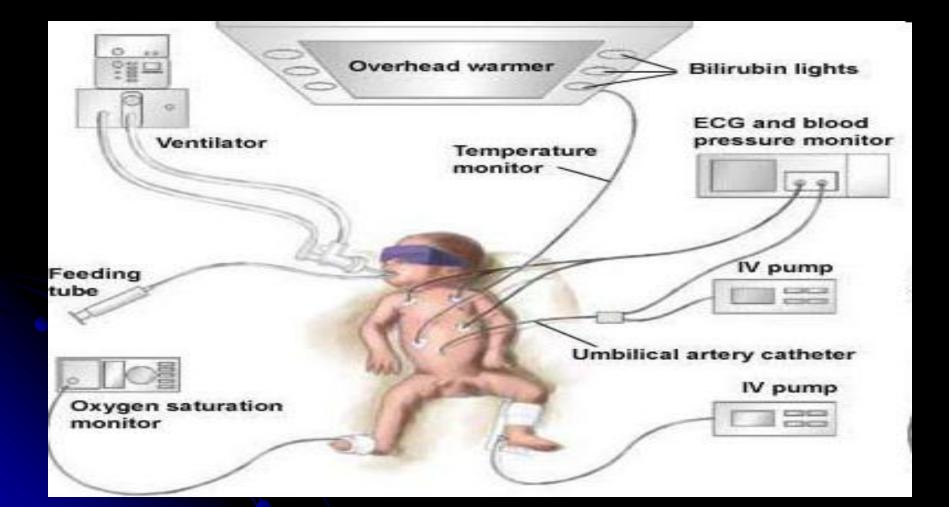
> 2- fetus makes more insulin to handle extra glucose

3- extra glucose gets stored as fat and fetus becomes larger than normal

Complications in new born

- respiratory distress,
- hypoglycemia,
- hypocalcemia
- Hyperbilirubinemia (Neonatal jaundice)
- polycythemia and hyperviscosity (thick blood)

New born complications



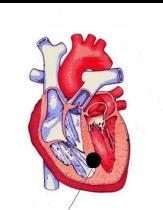


Congenital malformations (birth defects)









In Ventricular Septal Defect a hole exists withint the septum of the left and right ventricles. This hole is represented by the black circle above

Treatment

- Close monitoring
- Tight control of plasma glucose

Management of complications

Management of diabetes during pregnancy

- Home blood glucose monitoring
- Diet control/Folate supplementation
- Regular exercise
- Fetal monitoring by ultrasound scan
- Accurate insulin regimen

In whom to check for diabetes during pregnancy

- Family history of Diabetes
- Glucose in urine sample
- History of unexplained prenatal loss
- History of large baby
- History of congenitally malformation infant
- Maternal obesity
- Maternal age more than 25 years
- Members of racial group with high prevalence of Diabetes Mellitus

Successful outcome

- Preconception counseling
- and optimal control of diabetes before, during, and after pregnancy minimize maternal and fetal risks

Prevention of birth defects

 malformations may develop before pregnancy is diagnosed (6-10 wks of pregnancy), the need for constant, strict control of glucose levels is stressed to women who have diabetes and who are considering pregnancy