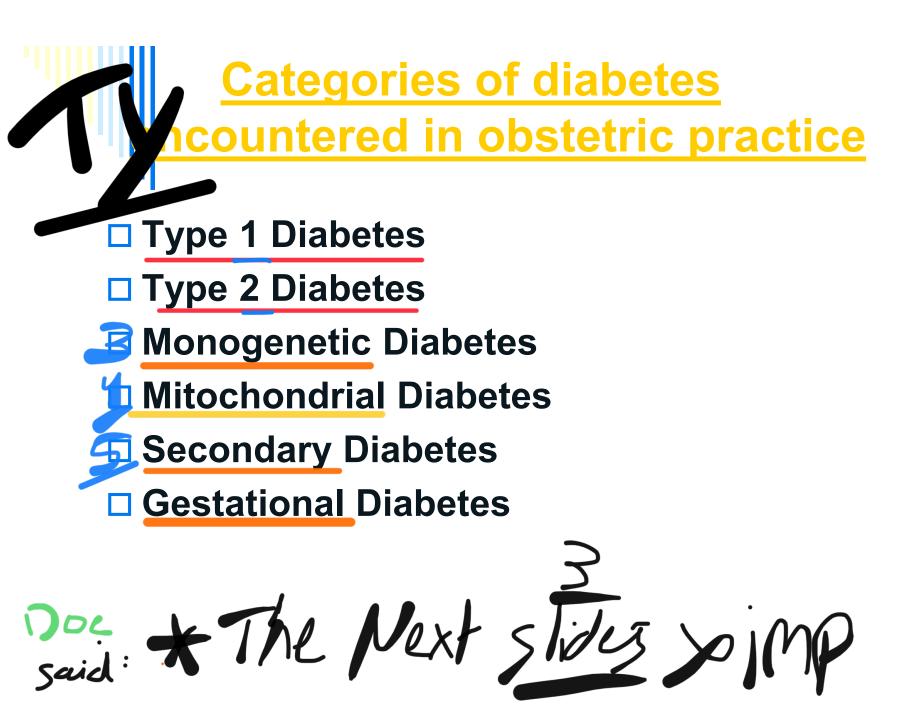
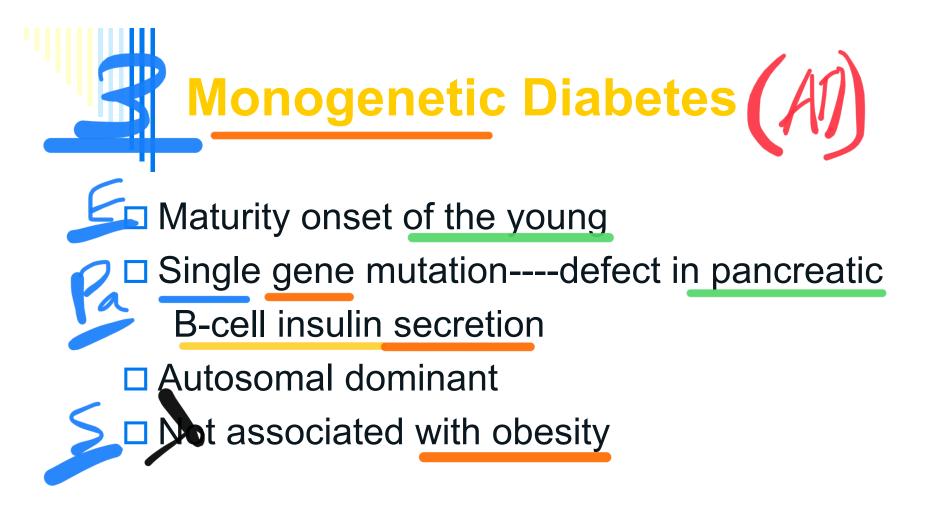
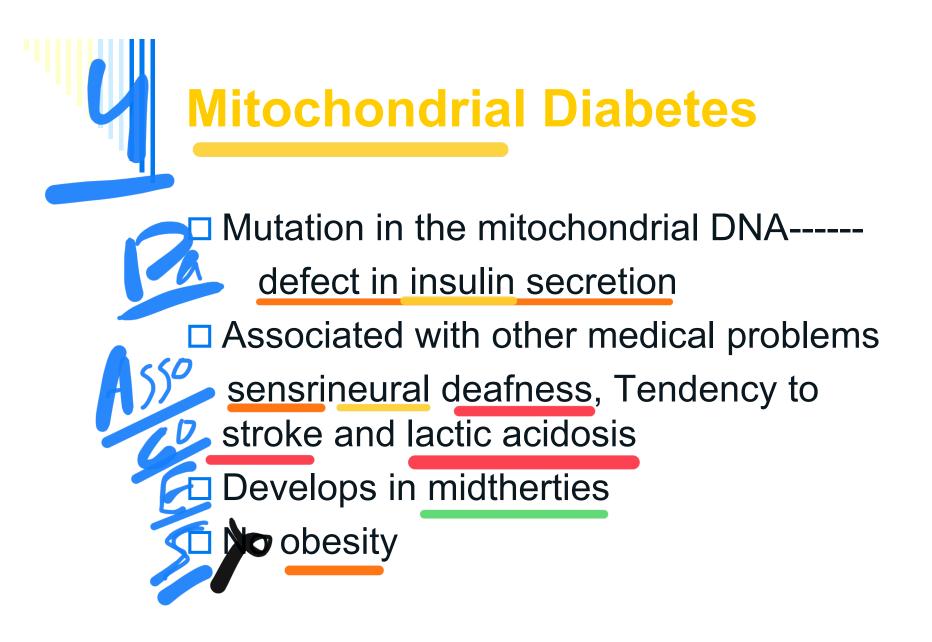




 Increase in prevalence
 -increase number of women of childbearing age with pregestational diabetes type 2
 -increase in the diagnosis of gestational D

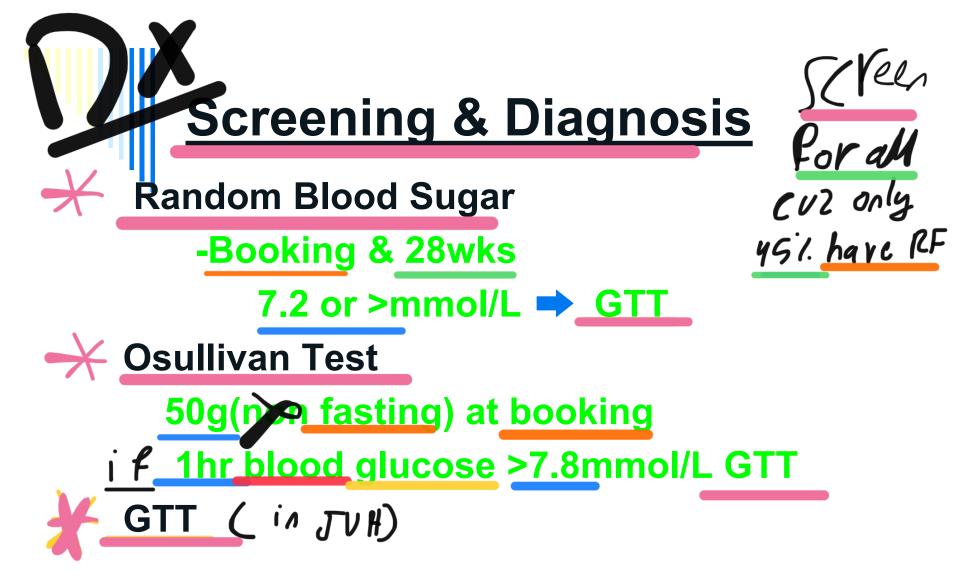


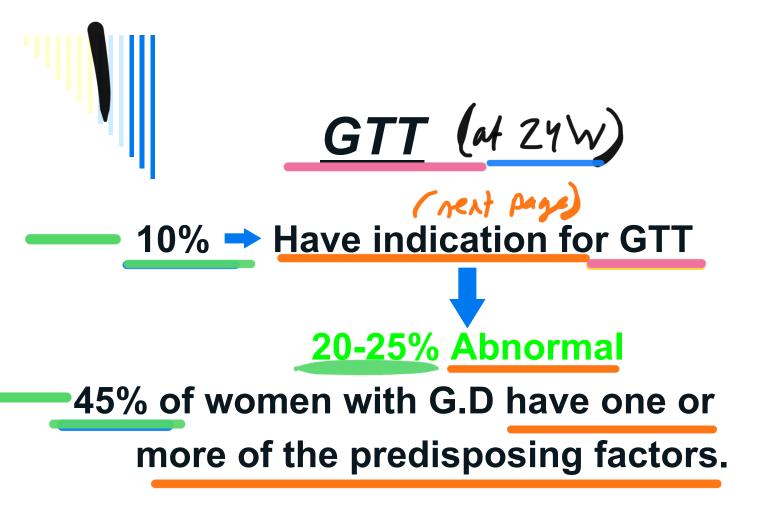


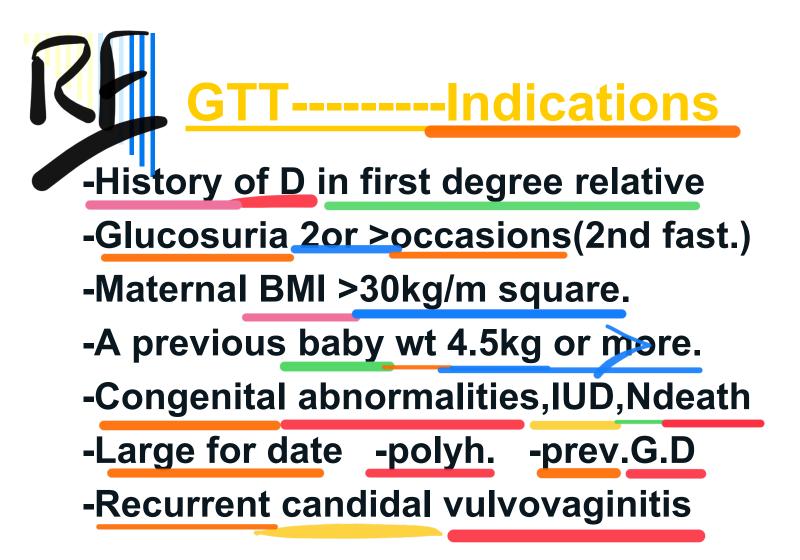


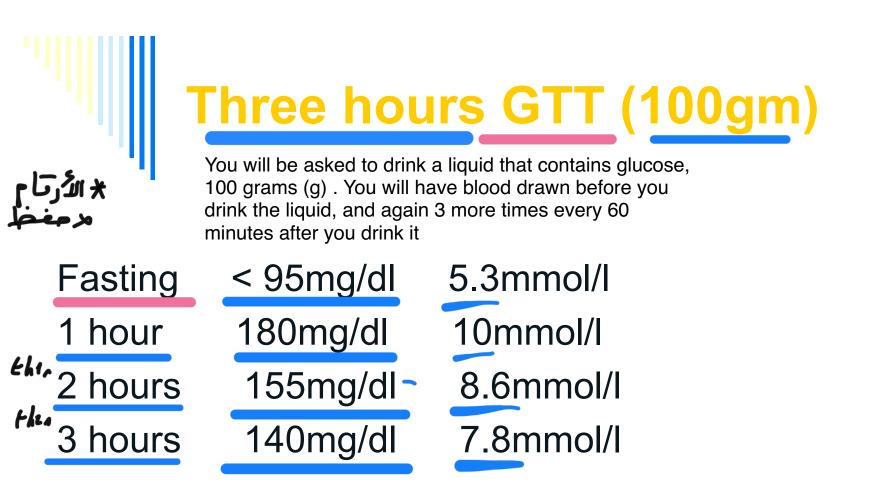


Associated with other medical conditions Like pancreatitis, cystic fibrosis, Glucocorticoids and other drugs.









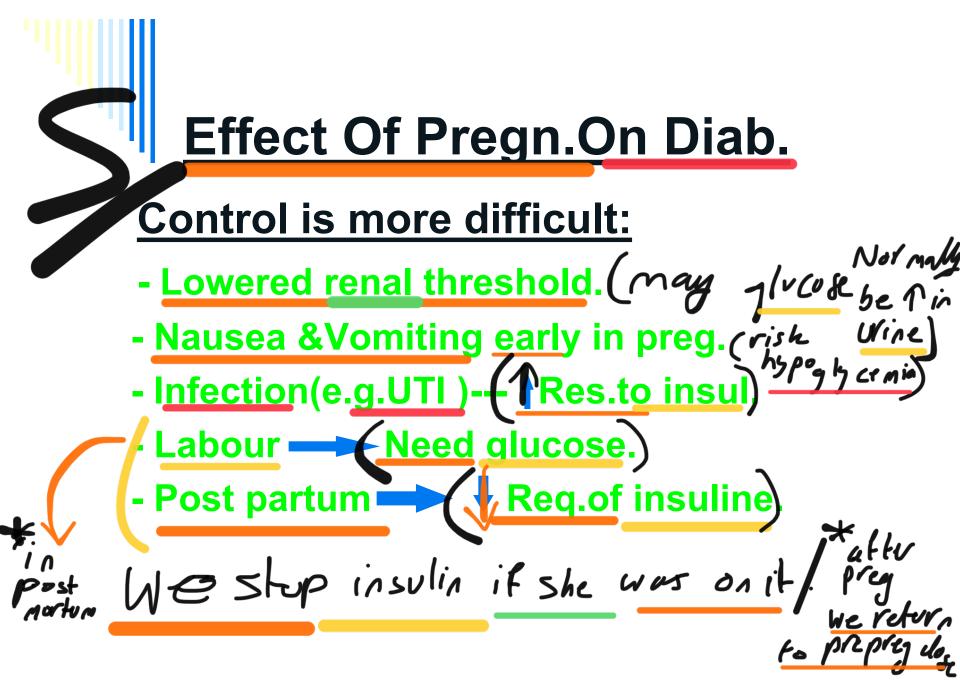


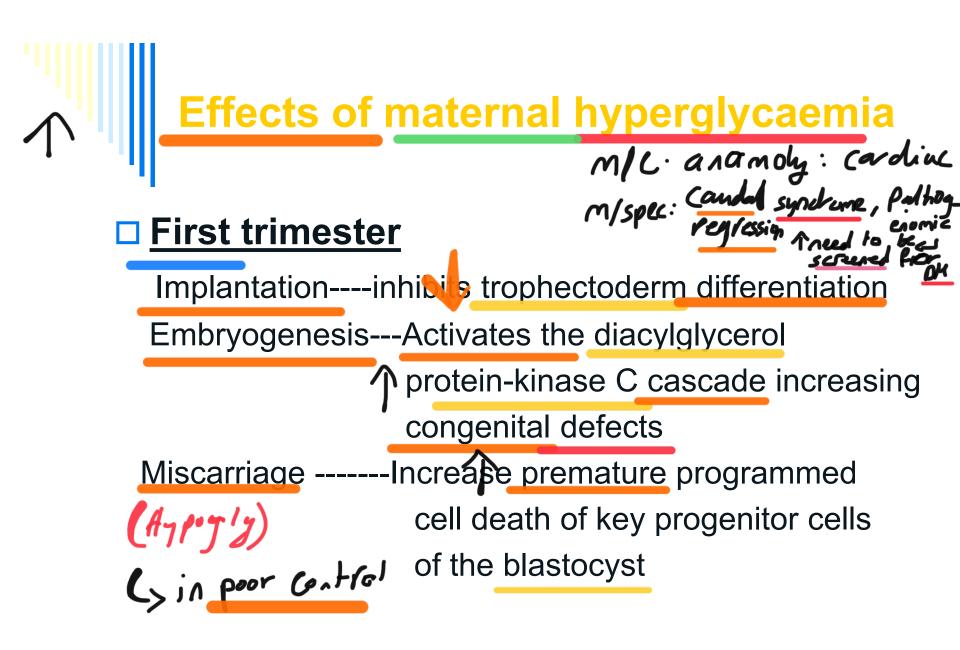
# Fasting 5.1mmol/L (91.8 mg/dl) 1 hour 10 mmol/L (180 mg/dl) 2 hours 8.5 mmol/L (153 mg/dl)

# Pregnancy & CHO Metabolism

- HPL MCQ always at 27-76 of pry ( at this

- Estrogen & Progesterone
- Cortisol
- Degradation of insulin by plac.





### **Effects of maternal hyperglycaemia**

### Second Trimester

Endocrine pancreas---Stimulate fetal B-cells

Fetal growth----Stimulate fetal hyperinsulinemia that

results in growth acceleration seen

Microsom

on U/S by 26 wks

## **Effects of maternal hyperglycaemia**

#### Third Trimester

Fetal growth —A major fetal substrate an determinant for accelerated fetal growth

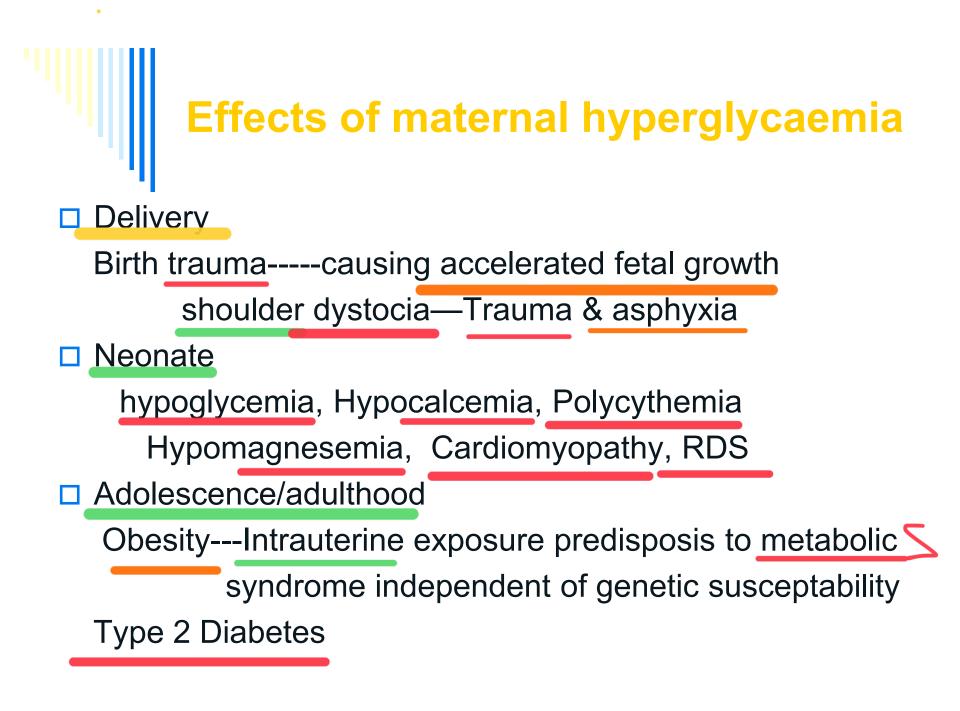
Adipose disposition-----Stimulates hyperinsulinemia that

promotes fat disposition including intra- abdominal fat.

Lung maturation---hyperinsulinemia delay lung maturation by inhibiting surfactant protein  $\rightarrow RDS$ 

Stillbirth---Is associated with defects in placental

(maturation that increase the risk of fetal hypoxia cuz polycythemia -> Hlombosis hypoxia+hyperglycemia -> acidosis



# Other effect Of Diab. On Preg.

Infection -UTI -Asym.baceruria

#### Monilial vulvo vaginitis:

- **1** Glucose content of vag. epith.

#### -Glucosuria

PET 8% - Renin&aldost. -Angiotensin ~ Blood glucose.

# Effect of Diab.----cont.

Polyhydramnios: -25%

-foetal polyuria

رمالي آل Preterm Labour

**Perinatal Death:** 

- -Unexplained IUFD
- Idiopathic RDS
- -Congenital Abnormalities



Preconception counseling

- -5 mg folic acid before conception and for 12wks
- -Ensure that all medications are safe for preg.
- -Screened for possible eye and kidney diseases

# Management

#### First trimester

•

- -Combined Clinic. (Hulti doctors)
- -Dating scan (US)
- -Screening for diabetic complications
- -Screening for pen-diabetic morbidities
- -Assessment and optimization of glycemia
  - (fasting 6mmol/l, 1 hour postprandial 7.8mmol/l)
- -Advice on hypoglycemia prevention
- -Experienced Dietition.

## Management

- Second trimester
  - -Optimization of gycemic control
  - -Screening for congenital abnormalities
  - -Surveillance for medical/obstetric complications

-Assessment of fetal growth. (آنر المرامع)

### □ <u>Third trimester</u>

- -Optimization of glycemic control
- -Assessment of fetal growth

-Timing and mode of delivery

## **Obestetric Manag.----cont.** -Delivery: Uncomplicated, well controlled, 40 wks. and normal growth 38 wks. -Bad obestetric history -Mode of delivery: -c/s is ot indicated. - insulin infusion -5% dextrose.

