ANTENATAL FETAL SCREENING TESTS & BIOCHEMICAL ANALYSIS
Presentation Outline

Why Screen?

- Fetal aneuploidy and neural tube defects

Screening vs Diagnostic Tests

- Screening can only tell us if there is an increased risk for issues, diagnostic tests actually diagnose it.

First Trimester

- Maternal serum screening – blood test for PAPP-A and hCG
- Nuchal translucency – ultrasound assessment of fetal neck fluid
- Nasal bone – check for appropriate bone growth
- Cell-free fetal DNA screening – blood test which includes fetal DNA to screen for chromosomal abnormalities
- Chorionic villus sampling (CVS) – diagnostic, takes sample from placenta for genetic screen (does not assess for NTDs)

Second Trimester

- Maternal quad screening – AFP, Inhibin A, Estriol, hCG
- Glucose testing & gestational diabetes
- Amniocentesis – diagnostic, sample of amniotic fluid
- Cordocentesis – fetal blood sample from umbilical cord

Third Trimester

- 3rd Trimester Amniocentesis - chorioamnionitis
- Urine sample – preeclampsia, infection, protein, sugars
- Biophysical profile – nonstress test & ultrasound
- Group B strep culture