Presentation Topics

- Week 1:
  - Dr. Wilson: Sonography's Role in Ob Scanning
    - Ethics
    - ALARA- Biohazards
    - Morality, Maleficence, Patient Rights
- Week 2:
  - Alexis: Fertilization/ Conception; Also include:
    - Gestational vs menstrual age
    - Fertilization and conception to implantation in the uterus
    - Normal hCG levels during first trimester
  - Karen: Normal First Trimester
    - What's happening physiologically
    - Sonographic landmarks-why are they important
    - CRL/GS/Yolk Sac/NT/Adnexa review
- Week 3: HOLIDAY
- Week 4:
  - Chrishawna: Fetal anatomy 20-week scan
    - Landmarks and what we should see sonographically
    - Maternal landmarks
    - What is included with a 20 week anatomy scan and why
  - Leah: Maternal Biochemical assessments and other screening examinations
    - Biochemical Assessments/Screening Tests 1st and 2nd Trimester offerings
    - First trimester imaging studies ie; NT
    - Options to test for without using ultrasound
- Week 5:
  - Sarah: Normal Thoracic anatomy
    - Trachea why its important to visualize
    - Lungs
    - Cardiac to lung ratio and positioning
    - Diaphragm
  - Molly: Cardiac anatomy
    - Fetal circulation and heart rates
    - Size, situs, and direction
    - LVOT, RVOT, and 4-CH heart views on ultrasound
- Week 6:
  - Ramandeep: Fetal brain and ventricular system
    - Embryology- forebrain/midbrain/hindbrain
    - Anatomical components to 20week anatomy scan
    - Biometrics component
  - Monica: Fetal Face and Neck and scan planes
    - Normal anatomy
    - Embryology of face….ie understand how clefting can occur
    - Sonographic assessment

- Week 7: HOLIDAY
- Week 8:
    - Lauren: Fetal Abdomen
        - Embryology
            - Normal midgut herniation
        - Anatomy/landmarks on ultrasound
        - Measurement on 20-week scan
    - Brittany: Genitourinary system
        - Embryology
        - Renals (sono appearance-for age)
        - Normal renal pelvis measurements
        - 3VC around bladder
        - Discuss gender (sono appearance)
            - Why might this be important to document in exam?
- Week 9:
    - Lania: All bones that are documented on a 20-week anatomy scan
        - Femur measurements/Ulnar, terminology we use in describing dysplasias of bones
        - Placement of feet
        - Openness of hands- imaging of digits
        - What are we looking for when evaluating bones? (measurements, density, bowing, etc.)
    - Allison: Vertebral body Evaluation
        - Why is the spine so important to scrutinize
        - What vitamins/minerals are crucial for preventing CNS defects
        - What biochemical test targets CNS abnormalities
        - What components are crucial to clear with CNS abnml
        - What things might impair its development
- Week 10:
    - Zulema: Types of Multigestational Pregnancies
        - How does fertilization differ
        - How does placentalization differ
        - What combinations of multi-gestations exist
        - Placenta, amnionicity, chorionicity, embryology, sono appearance
    - Nailah: Sonographic Assessment of Multigestation Pregnancy
        - Types of twinning and their sonographic assessment
        - How do 1st trimester, 2nd trimester, and 3rd trimester scanning differ
        - How to perform a 20 week anatomy scan on a twin pregnancy
- Week 11:
    - Candee: Maternal/Fetal measurements and sonographic assessment for fetal growth
        - How does this differ from the 20-week anatomy scan
        - How is it similar to the 20-week anatomy scan
        - Why are the parameters different

        - What items become more important with this age group and why
    - Hailey: Fetal Well Being
        - Concerns that may need answering at this stage
            - Doppler study (umbilical, middle cerebral, uterine arteries and ductus venosus)
        - Biophysical Profile Assessment
            - What is this answering
        - Other examinations to help answer the clinical concern