**Obstetric Ultrasound**

**Goals:**

1. Understand the cross-sectional anatomy of the female pelvis (both gravid and non-gravid).

2. Understand the cross-sectional anatomy of the fetus and placenta.

3. Understand the physics of sound energy and diagnostic ultrasonography equipment.

**Objectives:**

Upon completion of the rotation, the resident must be able to:

1. Perform a basic obstetrical ultrasound examination, fulfilling the requirements set forth by the ACOG, ACR, and AIUM for a first trimester scan and >14 week scan, including appropriate fetal biometry and anatomy, as well as maternal anatomy

2. Perform a fetal biophysical profile, including interpretation of the Non-Stress Test

3. Perform an amniotic fluid index

4. Perform a transvaginal examination on both the gravid and non-gravid patient

5. Choose the proper transducers and equipment settings to optimize the examination, and understand proper sterilization and maintenance of the equipment

6. Take an appropriate history to integrate the ultrasound results into a management plan for the patient

7. Recognize maternal or fetal abnormalities that warrant a higher level of care, and assist in counseling the patient on the findings

**Description of clinical experiences:**

During this rotation, the PGY1 resident will, under the supervision of a registered

sonographer and a Maternal Fetal Medicine fellow or attending physician, or a perinatal

testing nurse, perform 200 ultrasound examinations. The PGY1 will record appropriate

images and participate in the preparation of a report of the examination. The PGY1 will

participate in a review of the results with the patient, as well as formulating an

appropriate management plan based on those results.

**Didactic experiences:**

1. A standard basic ob-gyn ultrasound textbook will be assigned, with readings to be discussed with the MFM fellow or attending.

2. The AIUM on-line lecture series in Ob-Gyn ultrasound will be reviewed.

3. The bulletins from ACOG, ACR, AIUM, ISOUG, and SMFM which describe the criteria for an ob-gyn ultrasound examination will be reviewed.

4. Attendance at weekly MFM ultrasound conferences.

**Evaluation process:**

1. The PGY1 will review her/his images and reports with the MFM fellow and attending on a real-time basis.

2. The MFM attending will give an oral examination to the PGY1 at the end of the rotation.

3. A checklist card of a level-1 fetal ultrasound will be completed for the resident after observation of an ultrasonographic evaluation.

**Feedback mechanisms:**

1. Monthly evaluation by the faculty of the PGY1 on New Innovations.

2. Daily informal feedback from the faculty.