**Prenatal Genetics and Genetic Testing**

**Elective Director**
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**Blocks Available**
- **All**

**Duration/Weeks**
- **Min 2; Max 6**

**Hours per Week**
- **40**

**Students**
- **Max 1**

**Lectures/Seminars**
- **Yes**

**Outpatient**
- **Yes (100%)**

**Inpatient**
- **Yes**

**Housestaff**
- **No**

**Night Call**
- **No**

**Weekends**
- **No**

**Lab**
- **Optional**

**Exam Required**
- **No**

**Overall Educational Goal of Elective**
To gain an understanding of the role in obtaining a genetic history and counseling to identify patients at risk for inheritable conditions and children with aneuploidy.

**Objectives**
- To gain experience in eliciting a pedigree on at risk patients
- To be able to describe the patterns of inheritance of common genetic conditions/syndromes
- To screen patients based upon ethnicity for inheritable diseases that may place a pregnancy or offspring at risk
- To become familiar with the invasive and noninvasive testing available to parentally detect fetuses with aneuploidy

**Brief Description of Activities**
The student will be expected to observe genetic counseling sessions as well as ultrasound evaluations of patients at risk for inheritable conditions and fetuses with aneuploidy. The student will also be expected to participate in clinical evaluations of newborns suspected of having a genetic syndrome in the hospital setting. The student is expected to attend clinical teaching sessions of the department and will be asked to present a case at the Ultrasound/Genetics weekly meeting.

**Method of Evaluation**
The following areas will be evaluated: ability to obtain a genetic history and elicit a three-generation pedigree; understanding of modes of inheritance; understanding role of genetic screening and the risks/benefits associated with the testing available; and quality of performance on formal presentation given during the elective.

**Are There Any Prerequisites for This Elective?** No

**Is This Elective Available to Third Year Medical Students as Well?** No