

## CLINICAL GENETICS

**Credit:** All

**Location:** LAC+USC Medical Center

**Revised:** 1/6/2009

Applications will be accepted on a first-come, first-serve basis

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**PREREQUISITE:** Medicine I Clerkship/MS IV

**DURATION:** 4 weeks

**DATES OFFERED:** All Year

**Rotations scheduled:** to begin any Monday

**NUMBER OF STUDENTS:** 2

**VISITING STUDENTS:** Yes

**SUPERVISION:**

100% Faculty

**COURSE OBJECTIVES:**

Students will be able to:

1. Complete a genetic intake including a family pedigree.
2. Obtain skills to perform genetic physical examination and recognize major and minor anomalies.
3. Select and interpret appropriate laboratory tests for diagnosis of genetic disorders.
4. Understand the mechanism of chromosome disorders and become familiar with common chromosome disorders.
5. Understand the principles of Mendelian and non-Mendelian inheritance in genetic disorders, and know representative examples.
6. Learn the concept of multifactorial disorders and their contribution to congenital malformations and chronic adult diseases.
7. Calculate risk of genetic disorders using the Hardy-Weinberg Law and Bayesian analysis.
8. Understand the molecular basis of certain genetic disorders and methods of testing.
9. Learn how to access useful genetics websites to be able to obtain up-dated information.
10. Recognize psychological aspects of genetic disorders and participate in genetic counseling.

**DESCRIPTION:**

Under close supervision by the staff and residents of the service, patients are evaluated in the admitting area and walk-in clinic. Experience is gained in diagnosis, treatment and disposition of many genetic conditions. The student is expected to attend Monday and Wednesday morning clinics and is also expected to participate in departmental and divisional conferences and seminars. Daily schedule is flexible and to be arranged with preceptor. There is no fixed weekly schedule besides the two half-day outpatient clinics, but students are expected to be available during working hours.

**EVALUATION:**

Students will be informed of expectations and methods of evaluation during the orientation. Students will be evaluated on their performance by the preceptor. Students will receive feedback on their performance on the last day of rotation.

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