

Pediatric Medical Genetics

PE 235.99

General Information

COURSE CHAIR: Pedro Sanchez, MD

STUDENT COORDINATOR: Calvin Lee

PHONE: 310-423-4780 (option 1) or 310-423-8455

E-MAIL: Calvin.Lee2@cshs.org

STUDENTS / PERIOD: max 1

DURATION: 3 weeks

Please contact the Student Program Coordinator for other arrangements

Electives at Cedars-Sinai start in May. Please visit our [VSLO](#) catalog for dates and to submit your application.

Description

The student will obtain a broad exposure to the clinical aspects of medical genetics, especially in regard to the diagnostic approach to genetic disease, dysmorphology, deep-phenotyping genetic counseling, prenatal diagnosis and targeted treatment of genetic diseases. Students will be involved in the work up and management of inpatient genetic consultations and will see out-patients in genetic clinic. Exposure to different multidisciplinary clinics can be tailored to student's needs and interests. (craniofacial, skeletal dysplasia, neurofibromatosis, neurogenetics, genetic-endocrine eXemplarY kids (45X, 47XXY, 47XYY), Angelman Syndrome and others)

Course Objectives

1. Navigating the difficult conversation: Counseling techniques and the approach to the patient and family with hereditary diseases
2. Deeper dive into data: Historical, physical, and laboratory evaluation of the patient with congenital anomalies, dysmorphic features, and developmental concerns.
3. Understanding the spectrum, strength and limitations of genetic and genomic tests: from pre-conception (carrier, PGT-A, PGT-M), Prenatal diagnosis, (NIPT, amniocentesis and chorionic villus sampling) and postnatal options.
4. Identify helpful resources and tools to re-interpret laboratory reports
5. Integration of genetics into other subspecialties: Neurogenetics, cardiogenetics, endocrine and the ICU setting

Student Experiences

COMMON PROBLEMS/DISEASES

- Syndrome delineation and dysmorphology
- Approach to congenital anomalies
- Whole exome & Genome sequencing
- Chromosomal microarray analysis
- Prenatal diagnosis
- Carrier detection/screening
- Cardiovascular genetics
- Genetic counseling

INPATIENT: 10%

PRIMARY CARE: 90%

CONSULTATION: 100%

CLOSE CONTACT WITH

- Full-Time Faculty
 - Clinical Faculty
 - Fellows
- Other: Genetic Counselors

Pediatric Medical Genetics

Typical Schedule

Approx. # of Patients Evaluated/Week by Student	8
Approx. # of Patients Eval./Each Week by Service	31
Typical Monday	9:00 am - 11:00 am - Genetics Training Program Lecture Series 1:00 pm - 3:00 pm - Chart Review for Clinics 3:00 pm - 4:00 pm – Lecture/ Case Review/ Prenatal Conference
Typical Tuesday	9:00 am – 9:30am case conference 9:00 am - 2:00 pm - Medical Genetics Clinic 2:00pm - 4:00pm- Plagiocephaly Clinic
Typical Wednesday	9:00 am-10am Medical Genetics Clinic 11:00am-12 perinatal/MFM conference 4 th floor 1 pm- 3:00 pm - Medical Genetics Clinic
Typical Thursday	8:00 am - 2:00 pm - Medical Genetics Clinic
Typical Friday	8:00am- 12:00pm - OCC Friday Results Clinic
On-Call Schedule	NONE
Weekend Activities	NONE
Additional Comments/Special Requirements	NONE