

Pediatric Medical Genetics

PE 235.99

General Information

COURSE CHAIR: Pedro Sanchez, MD

STUDENT COORDINATOR'S CONTACT INFORMATION:

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

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.

Course Objectives

1. Clinical approach to the pediatric patient and family with hereditary diseases.
2. Historical, physical, and laboratory evaluation of patients suspected of an underlying genetic disease: including patients with congenital anomalies, dysmorphic features, and neurodevelopmental issues.
3. Neonatal work up and review of prenatal evaluations including the range of testing and discussion of genetic and environmental risk factors including a teratogenesis.
4. Strengths and limitations of laboratory techniques used in genetics and genomics.
5. Understanding how to review, interpret and decode a genetic report.
6. Integration of genetics with other subspecialties: Neurogenetics, Cardiogenetics, Craniofacial, ENT, Endocrine, Urology, Nephrology

Student Experiences

COMMON PROBLEMS/DISEASES

- Syndrome delineation and dysmorphology
- Recognizable patterns of congenital anomalies
- Whole exome & Genome sequencing
- Chromosomal microarray analysis
- Prenatal evaluations and 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 - Clinic Prep and Lecture 1:00 pm - 3:30 pm - Chart Review for Clinics 3:30 pm - 4:30 pm – Prenatal Case Conference (3rd Monday/month)
Typical Tuesday	9:00 am – 11:00 am – Time for Literature Review 11:00 am -12:00 pm Medical Genetics Consults 1:00 pm - 3:00 pm- Plagiocephaly Clinic/Follow-up
Typical Wednesday	8:00 am - 2:00 pm - Medical Genetics Clinic 11:00 am – 12:00 pm Maternal fetal medicine multidisciplinary conference 12:15 pm – 1:15 pm – Noon Conference
Typical Thursday	8:00 am -9:00 am (Pediatric Grand Rounds/Case Conference) 9:00 am- 2:00 pm - Medical Genetics Clinic
Typical Friday	8:00 am- 12:00 pm - Results Disclosure Virtual/Zoom calls 8:00 am- 12:00 pm Neurofibromatosis Clinic (2nd Friday/month) 12:15 pm – 1:15 pm – Noon Conference
On-Call Schedule	NONE
Weekend Activities	NONE
Additional Comments/Special Requirements	Students will have an opportunity to present to our division on a topic of their choice at the end of their rotation.