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

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-exemplar 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

Other: Genetic Counselors
# Pediatric Medical Genetics

## Typical Schedule

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<thead>
<tr>
<th>Approx. # of Patients Evaluated/Week by Student</th>
<th>8</th>
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<tbody>
<tr>
<td>Approx. # of Patients Eval./Each Week by Service</td>
<td>31</td>
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| 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 4th 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 |

<table>
<thead>
<tr>
<th>On-Call Schedule</th>
<th>NONE</th>
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<tbody>
<tr>
<td>Weekend Activities</td>
<td>NONE</td>
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<tr>
<td>Additional Comments/Special Requirements</td>
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