

# Hepatobiliary & Liver Transplant

SU 430.99

## General Information

**COURSE CHAIR:** Nicholas Nissen, MD

**STUDENT COORDINATOR:** Linda Heineman  
**E-MAIL:** [MedStudentInquiries@cshs.org](mailto:MedStudentInquiries@cshs.org)

**STUDENTS / PERIOD:** max 1 min 1

**DURATION:** 4 weeks

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

## Requirement(s)

1. USMLE Step 1 Score
2. Two Letters of Recommendation

## Description

This sub-internship is intended to provide the student with in-depth knowledge of transplantation surgery and non-transplant hepatobiliary surgery. The student is expected to function at the level of an intern, including pre-operative assessment of the patient in the clinic setting, participation in the operating room, and post-operative care of the patient either in the intensive care unit or on the wards. In addition, the student is involved in formal bedside presentations, journal club presentations, and case presentations. The student is expected to attend and participate in conferences sponsored by the Liver Transplant Service including: 1) Transplant morbidity/mortality conference (monthly); 2) Multidisciplinary Liver Cancer Conf. (weekly); 3) Carcinoid & Neuroendocrine Tumor Conf. (monthly); 4) Journal Club (monthly); 5) Transplant Patient Selection Committee (weekly); 6) Transplant Grand Rounds (monthly).

## Course Objectives

1. Demonstrate ability to make concise patient presentation.
2. Interpret common imaging modalities used to diagnose liver and pancreatic pathology, including CT scan and MRI.
3. Demonstrate knowledge of common chronic and acute diseases of the liver, including benign and malignant masses.
4. Demonstrate knowledge of indications for solid organ transplantation, including kidney, pancreas, liver, heart and lung.
5. Participate in patient selection process through patient encounters and presentation at selection committee meeting.
6. Identify common side effects and mechanism of action in common immunosuppressive medications.
7. Manage post-operative patients after liver resection and pancreatic resection.

## Course Objectives (Cont.)

8. Describe surgical approach and techniques for organ procurement and organ transplantation, resection, regional therapy, and transplantation.
9. Gain an understanding of the treatment options for liver cancer, including local therapy, resection, regional therapy, and transplantation.
10. Perform clinical and laboratory assessment of liver and kidney function in transplant and non-transplant surgical patients.

## Student Experiences

### COMMON PROBLEMS/DISEASES

- Anatomy and surgical approach to liver, pancreas, mesenteric vessels
- Liver mass
- Immunosuppression
- Organ procurement
- Indications for transplantation
- Transplant selection process
- Complications of transplantation
- Hepatitis

**INPATIENT:** 75%

**OUTPATIENT:** 25%

**CONSULTATION:** 20%

**PRIMARY CARE:** 80%

### CLOSE CONTACT WITH

- Full-Time Faculty
- Clinical Faculty
- Fellows
- Residents
- Interns

## Additional Information

Due to the unpredictable nature of transplantation students will be on-call assigned dates for organ procurements and solid organ transplants including kidney, pancreas, heart, lung and liver. Attendance at transplant surgery will take priority over all other clinical activities until the student has attended or scrubbed 2 organ procurements and one of each type of solid organ transplant surgery.

### ON-CALL SCHEDULE & WEEKEND ACTIVITIES:

In-house call once per week

One day per week off

Student is expected to participate in weekend rounds for routine patient care.

**NOTE:** Training will take place at Cedars-Sinai Medical Center, Cedars-Sinai subsidiaries, or other facilities with affiliation arrangements with Cedars-Sinai.