

# TRANSPLANT SURGERY AT UCSD

## 1. OVERVIEW

Residents spend one month in the PGY-2 year on the Transplant Service at the University of California, San Diego University Medical Center. The UCSD Transplant Service coordinates the care of patients needing (or giving) solid organs of the abdomen (i.e., livers, kidneys, pancreases and multi-organ harvests and/or Transplantations). All organs are transplanted at the Hillcrest University Medical Center site, but organ harvests may occur elsewhere.

Residents are expected to:

- a. lead the Transplant Service in all of its daily activities
- b. Coordinate all Transplant cases and rounds with the attendings and fellow
- c. Exercise graded responsibility in independent decision-making
- d. Cross-cover general surgery cases while on call for emergencies

## 2. GOALS

The major goals of this rotation are to:

- a. Understand the physiologic basis of immunity and manipulation of the immune system for solid organ transplantation.
- b. Understand the principles of solid organ transplantation in the care of patient with renal failure, liver failure, and/or severe diabetics.
- c. Become familiar with the regimen of immunosuppression for kidney, liver and pancreas transplant patients.
- d. Understand the risks, benefits, and indication of solid organ transplantation
- e. Demonstrate ability to recognize and treat complications related to solid organ transplantation.

## 3. OBJECTIVES

- a. **Patient Care:** By the completion of this rotation, the resident will:
  - i. Develop skills in initial management and subsequent care of patients with solid organ transplantation.
  - ii. Demonstrate the understanding of the use of various immunosuppressive agents in the care of patients with solid organ transplantation.
  - iii. Demonstrate an understanding of the principles of tissue typing and matching and the organization of organ procurement teams.
  - iv. Demonstrate an understanding of the signs and symptoms of rejections and the appropriate treatment of acute and chronic rejections.
  - v. Demonstrate an understanding of the principles of sepsis and septic syndromes and the management of such in patients with solid organ transplantation.

- b. **Medical Knowledge:** By the completion of this rotation, the resident will demonstrate an understanding of:
  - i. The physiology and pathophysiology of the immune system
  - ii. The principles of immunosuppression
  - iii. The use of immunosuppressive agents.
  - iv. Diagnosis and managements of acute and chronic rejections
  - v. The principles and practices of tissue typing and matching
  
- c. **Practice-based learning:** Residents are expected to:
  - i. Be able to evaluate own performance,
  - ii. Incorporate feedback into improvement activities;
  - iii. Effectively use technology to manage information for patient care and self-improvement.
  
- d. **Interpersonal and communication skills:** Residents are expected to:
  - i. Use effective listening skills and elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.
  - ii. Work effectively with others as a member of the OR team.
  
- e. **Professionalism:** Residents are expected to demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population. Resident is expected to:
  - i. Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients that supercedes self-interest; accountability to patients, and a commitment to excellence and on-going professional development.
  - ii. Demonstrate a commitment to ethical principles pertaining to confidentiality of patient information and informed consent.
  - iii. Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities.
  
- f. **Systems-based practice:** Residents are expected to:
  - i. Practice cost-effective health care and demonstrate knowledge of resource allocation that does not compromise quality of care
  - ii. Advocate for quality patient care and assist patients in dealing with the complexities of the OR experience.

#### **4. CLINICAL EXPERIENCE**

The resident will spend this month at the Transplant Service in San Diego. Clinical experience includes initial assessment of candidate for kidney, liver and pancreas transplants, initial workup, pre- and post operative care of solid organ transplantation patients and intraoperative decision-making. The resident will also have an experience with organ procurement when the UCSD team is on call for organ harvesting.

## **5. DIDACTIC EXPERIENCE**

The resident is expected to participate in all didactic transplant conferences as well as participating in the weekly M&M conferences and Grand rounds at UCSD.

## **6. RESPONSIBILITIES**

### **a. Decision making**

Decisions are made directly under the supervision of the staff transplant surgeon and the transplant team.

### **b. Planning**

Planning for care is done on an ongoing basis with the transplant team and the transplant surgeon

### **c. Direct patient care**

Patient care is performed directly with the transplant surgeon.

### **d. Record keeping**

Residents complete history and physical examination and daily progress notes, under direction of the transplant surgeon. Operating notes are written by the transplant surgeon or by the resident under direct supervision by the transplant surgeon.

### **e. Order writing**

Orders are generally written by the team responsible for the care of the patient. Perioperative anesthetic related orders are written by the resident under direct supervision by the transplant surgeon.

### **f. Ongoing patient management**

Residents are expected to provide all aspect of ongoing patient management under the direct supervision of the transplant surgeon in compliance with a team approach to transplant surgery.

### **g. Residents are expected to:**

- i. lead the Transplant Service in all of its daily activities
- ii. coordinate all Transplant cases and rounds with the attendings and fellow
- iii. exercise graded responsibility in independent decision-making
- iv. cross-cover general surgery cases while on call for emergencies

## **7. SUPERVISION**

Residents are under direct and indirect supervision by the transplant surgeon at all times.

## **8. SCHEDULE**

On call schedule and clinic schedule is based upon UCSD transplant center assignment, which is in compliance with all ACGME 80-hour work week rules.

## **9. DISTRIBUTION OF GOALS, OBJECTIVES**

Goals and objectives of this rotation are distributed at the beginning of the residency year to each resident. Copies are sent by email to each resident assigned to this rotation prior to the beginning of the rotation. Additional copies can be

obtained in the surgery residency coordinator's office. The goals and objectives can also be assessed via the KMC surgery website: [www.kmcsurgery.org](http://www.kmcsurgery.org)

**10. METHODS OF IMPLEMENTATION**

Goals and objectives are implemented through one on one precepting, direct staff supervision, faculty and resident role modeling, case-based readings, daily rounds, and spontaneous and planned didactic sessions.

**11. VACATION**

Residents may not schedule vacation during this rotation.

**12. CALL RESPONSIBILITIES**

Per UCSD call schedules are in compliance with the ACGME rules. The resident is expected to cross-cover general surgery cases while on call for emergencies.