

# BURN ROTATION AT UCSD

## 1. OVERVIEW

Residents spend one month in the PGY-2 year on the Burn service at the University of California San Diego University Medical Center. The UCSD Burn service works closely with the Trauma service both functionally and as a result of its divisional composition. The chief of service, Dr. Bruce Potenza, is a member of the Trauma Division and the Trauma attendings cross-cover when necessary. Further, all patients with severe burns are triaged through the trauma resuscitation system and admitted to the Burn service when other injuries are excluded.

Four to five didactic lectures are presented each month by Dr. Potenza, covering all important aspects of burn management.

## 2. GOALS

Residents will understand and apply the principles of burn evaluation, resuscitation, and operative and nonoperative care, including history, physical examination, assessment of physiologic state, categorization of anesthetic risk, and care throughout the perioperative period. The goals and objectives of the Burn service for PGY-1 and PGY-2 residents include exposure to all aspects of the care of severely burned patients. More specifically, these include understanding, demonstrable skills and competence in:

- burn resuscitation formulae
- acute and subsequent airway management
- invasive monitoring & lines
- multisystem organ failure
- sepsis syndromes
- burn debridement and coverage strategies
- compartment syndromes
- rehabilitation and follow-up clinics
- antibiotic management
- nutritional support

## 3. OBJECTIVES

- a. **Patient Care:** Upon completion of this rotation, residents should be knowledgeable in the following areas and be able to:
  - i. Develop skills in initial management and resuscitation of burn victims including inhalation injuries.
  - ii. Demonstrate the use of various resuscitative formulae in the care of severely burned patients.
  - iii. Demonstrate an understanding of the principles of initial and subsequent burn wound care.

- iv. Demonstrate an understanding of the principles of appropriate antibiotic usage and nutritional supports in burn patients.
  - v. Demonstrate an understanding of the principles of sepsis and septic syndromes and the management of such.
  - vi. Demonstrate an understanding of the principles of burn rehabilitation and social aspect of severely burned patients.
- b. **Medical Knowledge:** Upon completion of this rotation, residents should be knowledgeable in the following areas and be able to:
- i. Demonstrate and understand the principles of conduct of a general anesthetic by demonstrating:
    - 1. Knowledge of the Parkland Formula in burn resuscitation.
    - 2. Knowledge of the current management of burn victims including wound care management.
    - 3. Knowledge of and administration of appropriate antibiotic therapy.
    - 4. Knowledge of sepsis and septic syndromes in burn patients.
    - 5. Knowledge of current treatment for adult respiratory distress syndromes in burn patients.
- 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. Residents are 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**

Residents will spent one month at the burn center in San Diego. Clinical experience includes initial resuscitation, ventilator management and subsequent burn wound care, all under the direct supervision of Dr. Protenza.

#### **5. DIDACTIC EXPERIENCE**

In addition to daily clinical bedside discussion and impromptu lectures, 4 to 5 didactic lectures are presented each month by Dr. Potenza, covering all important aspects of burn management.

#### **6. RESPONSIBILITIES**

##### **a. Decision making**

Decisions are made directly under the supervision of the Burn Center surgeon.

##### **b. Planning**

Planning for care is done on an ongoing basis with the Burn Center surgeon.

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

Patient care is performed directly with the Burn Center surgeon.

##### **d. Record keeping**

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

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

Residents are expected to provide all aspect of ongoing patient management under the direct supervision of the Burn Center surgeon.

#### **7. SUPERVISION**

Residents will be under direct and indirect supervision by the staff burn surgeon at all times.

#### **8. SCHEDULE**

On call schedule and clinic schedule based on UCSD burn center assignment are compliant with the ACGME 80-hour work week requirement.

#### **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, faculty role modeling, reading materials and didactic sessions.

**11. VACATION**

Residents may not schedule vacation during this rotation.

**12. CALL RESPONSIBILITIES**

Per UCSD call schedules in compliance with the ACGME rules.