

Burn

Institution: Vanderbilt University Medical Center

Duration: 5 weeks

Supervising Physician: Dr. Lisa Rae

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Year of Training: PGY-2

Educational Objectives:

Introduction to Rotation

The burn rotation for the PGY-2 resident is an opportunity to help lead a multidisciplinary team in caring for our complex patient population. The resident will have an opportunity to participate in all aspects of the care of the burn patient from assessment of the burn wound and resuscitation to operative planning and operative interventions through managing complications and discharge planning. Dr. Rae or Dr. Thompson will meet with each resident on the first day of their rotation to review goals and responsibilities.

Patient Care and Procedural Skills:

- ✓ Create clinical plans based on unit protocols, burn surgery and critical care literature, and/or accepted standard of care "best practices." Teaching and managing the junior residents is a central role of the PGY 2 on this service. Critical thinking and problem solving are emphasized as key competencies above all else.
- ✓ Supervise junior residents in performing burn assessments and initiating fluid resuscitations.
- ✓ Discern when invasive central venous and arterial lines are indicated and supervise junior residents in placement of lines.
- ✓ Perform escharotomies and fasciotomies, tracheostomy, debridement of wounds, harvesting and placement of skin grafts and selective reconstructive procedures.
- ✓ Discern when difficult airway management is required to include awake direct laryngoscopy, fiberoptic intubation, or laryngeal mask airway.
- ✓ Discern when bronchoscopy is indicated and supervise junior residents in performance of bronchoscopy with or without bronchoalveolar lavage.

Medical Knowledge:

- ✓ Accurately determine burn size and depth
- ✓ Supervise targeted fluid resuscitation of burn patient
- ✓ Manage electrolyte abnormalities
- ✓ Manage infectious disease complications in an immunocompromised patient, bacterial and fungal
- ✓ Manage smoke inhalation and HFPV ventilation
- ✓ Provide adequate nutritional support for the burn victim
- ✓ Manage acute and long-term analgesia and sedation of the burn patient
- ✓ Manage procedural conscious sedation of the burn patient
- ✓ Manage toxic inhalation, CO and CN intoxication
- ✓ Provide blood products and massive transfusion when indicated

Practice-Based Learning and Improvement

- ✓ Incorporate formative evaluation feedback into daily practice.
- ✓ Write an accurate, detailed, and legible preoperative assessment and counseling note on all patients for which he/she serves as surgeon of record.
- ✓ Utilize assigned journal articles as well as available textbook chapters and information technology (including PubMed search and literature review)
- ✓ Participate in the education of patients, families, students, residents, and other health professionals.
- ✓ Incorporate formative evaluation feedback into daily practice.

Interpersonal and Communication Skills

- ✓ Ensure that the attending surgeon is aware of the progress of all patients on the service and that all team members are appropriately updated regarding plans of care.

- ✓ Clearly, accurately, and respectfully communicate with nurses and other Hospital employees.
- ✓ Clearly, accurately, and respectfully communicate with referring and consulting physicians, including residents.
- ✓ Clearly, accurately, and respectfully communicate with patients and appropriate members with their families about identified disease processes (including complications), the expected courses, operative findings, and operative procedures.
- ✓ Ensure that clear, concise, accurate, and timely medical records are maintained on all patients.
- ✓ Establish expectations, roles, and responsibilities for junior residents, clerkship students and senior level students rotating on service.
- ✓ Provide routine educational activities to junior residents and students while on service (such as teaching on rounds, chalk-talks, knot-tying, etc.)
- ✓ Provide timely feedback and assessments to the program director, clerkship director and medical student supervisor as requested.

Professionalism

- ✓ Demonstrate compassion, integrity, and respect for others.
- ✓ Demonstrate sensitivity and responsiveness to a diverse patient population, including but not limited to diversity in gender, age, culture, race, religion, disabilities, and sexual orientation.
- ✓ Demonstrate sensitivity to issues of age, race, gender, and religion with patients, family, and members of the healthcare team.
- ✓ Demonstrate respect for patient privacy and autonomy.
- ✓ Remain honest with all individuals at all times in conveying issues of patient care.
- ✓ Respond to the needs of the patient above one's own needs and desires.
- ✓ Maintain high standards of ethical behavior in all professional activities.
- ✓ Demonstrate a commitment to the continuity of patient care to carrying out professional responsibilities or through assuring that those responsibilities are fully and accurately conveyed others acting in his/her stead.
- ✓ Understand the institutional policy on duty hours and remain compliant with all duty hour regulations. Residents must enter the number of hours spent in the hospital into the tracking system on a weekly basis.
- ✓ Be properly and professionally attired at all times while engaged in patient care.
- ✓ At all times treat patients, families, and all members of the healthcare team with respect.
- ✓ Reliably be present in prearranged places at prearranged times except when actively engaged in the treatment of a medical or surgical emergency. The resident must notify the appropriate supervisor if he or she will be unable to be present.
- ✓ Remain compliant with all required training designated by the institution.

Systems-based practice

- ✓ Anticipate and plan for rehabilitation requirements for burn patients including patients with complex disposition challenges.
- ✓ Instruct junior residents regarding financial costs, potential complications, and long-term expectations for planned procedures.
- ✓ Instruct junior residents regarding the benefits of additional treatment by other services such as plastic surgery, interventional radiology, and orthopedics.
- ✓ Instruct junior residents regarding instruments and other materials necessary for all procedures.

Description of Clinical Experiences:

Specific daily responsibilities of the PGY-2 Resident include:

- Assigning patients and responsibilities to the intern members of the team.
- Rounding on patients, examining them daily, and developing plans of care.
- Participating in preoperative planning and operative interventions for all burn patients including reconstructive burn patients and assigning operative coverage to junior residents when appropriate.
- Supervising junior residents in writing concise and complete daily notes that reflect the current status and daily plan.
- Supervising junior residents in writing orders required to complete the daily plan and keeping wound care and therapy orders up-to-date.

- Responding to consults, communicating patient history and descriptions of their burn wounds to the fellow and/or attending, and communicating plans back to the requesting team and the patient.
- Directing daily burn wound care.
- Working with the multidisciplinary team to provide comprehensive care to burn patients, including attending multidisciplinary rounds when able.
- Supervising junior residents performing bedside procedures in the ICU.
- Taking home-call and be available to come in to assist the in-house resident in the care of critically ill patients.

Description of Didactic Experiences:

- Attend and participate in daily teaching rounds in ICU.
- Attend weekly surgical grand rounds and resident teaching conference.
- Attend weekly Department of Surgery Morbidity and Mortality conference.

Evaluation Process:

Faculty and senior residents will evaluate the performance of each resident using these goals and objectives. Each resident on the service will evaluate the rotation, the service, faculty and any senior residents also on the rotation.

Other Important Rotation Information: