



University of Illinois, Metropolitan Group Hospitals Program in General Surgery

Rotation Title: Trauma/Critical Care - Lutheran General Hospital

Level of Training: PGY II

Attending in Charge of Rotation: Dr. Manoj Shah

Faculty: Dr M. Shah, Dr. D. Resnick, Dr. Dr. S. Nikolich, Dr. Marinov, Dr. Amy Stewart

Rotation Description:

LGH is a level one trauma center located in the suburb of Park Ridge. The majority of the trauma patients there are due to blunt trauma, with an occasional penetrating injury. The ER at LGH is new, and has three trauma bays that can also function as OR suites in the event of a critically ill trauma patient needing emergency measures in the ER.

The second year resident works directly with the trauma attending in all the trauma's and is also responsible for the care of all the ICU trauma patients including SICU, MICU, and SICC.

At night there is a PGY V in house that serves as the trauma attending. If there is a PGY IV on call then there will also be a trauma attending in house. There will be 10-15 trauma cases that you will do, but most of these will be tracheostomy's and Gastrostomy tubes on the patients that have been in the ICU for a prolonged period of time. The resident is given a lot of autonomy but along with it comes a lot of responsibility. There is no time when the resident is left without supervision. While on this rotation the PGY II is NOT allowed to take a vacation. It's a demanding rotation but there is a tremendous amount of learning that occurs in the two months. Sometimes, a first year surgical resident could be working with second year resident and first year resident may follow less complicated ICU patient.

Assessment:

Monitoring of the accomplishment of the stated objectives will be performed using the following methods:

1. 360 degree evaluation: End of rotation assessment of resident's performance with respect to the stated objectives by faculty, nurses, fellow residents, patients and medical students.
2. Case Logs: auditing of operative cases pertinent to the specialty in the Surgical Operative Log.
3. Written Examination: performance on the annual ABSITE examination section on Trauma and Critical Care.
4. Complete the coursework and testing to obtain basic and advanced cardiac life support and fundamental critical care support certification. ATLS.

SURGICAL SKILLS ADVANCEMENT:

The resident will exhibit surgical performance skills based on the following guidelines:

1. By the end of the rotation, have completed (per necessity) the OSAT/OSCA for the following procedures:
 - a. PGY II: Ventilator management, Percutaneous tracheostomy, FAST, chest tube insertion

COMPETENCY-BASED LEARNING OBJECTIVES

Medical Knowledge

PGY II Residents:

- Complete required assignments in SCORE Curriculum as outlined both in SCORE website and outlined document on MGH website.
- Attend and participate in Basic Science reading assignments and didactic lectures
- Understand the physiology of critically ill post-op patients
- Understand the pathophysiology of hemodynamic, respiratory, renal, hepatic and nutritional failure
- Demonstrate thorough knowledge of infectious diseases, endocrine dysfunction, hematologic abnormalities, neurologic and psychiatric problems and ICU pharmacology in the SICU
- Understand moral, ethical, legal and public policy issues in the SICU

PATIENT CARE

PGY II Residents:

- Develop proficiency in the assessment and initial stabilization of critically ill surgical patients
- Apply patient care practices as it relates to critically ill patients in the SICU: hemodynamic support with inotropes and vasopressors, shock management,

- ventilator management, renal replacement therapy, nutritional support
- Apply patient care practices as it relates to critically ill patients in the SICU: treatment of infectious diseases and sepsis, endocrine dysfunction, hematologic abnormalities, neurologic and psychiatric problems.
- Gain proficiency in ICU procedures of arterial lines, central venous lines, pulmonary artery catheters, bronchoscopy, use of ultrasound
- Develop an understanding of intra-aortic balloon pumps in post-op cardiac patients

INTERPERSONAL AND COMMUNICATION SKILLS

PGY II Residents:

- Develop and maintain effective communication with ICU residents, nurses and other personnel
- Respond to pages immediately and address patient issues with appropriate timeliness
- Update attending intensivists, primary attendings and surgical resident teams as needed
- Develop skills of effective sign-out and updating on call team

PROFESSIONALISM

PGY II Residents:

- Maintain professionalism in all interactions with ICU personnel
- Answer all pages promptly
- Complete and maintain timely clinical documentation

PRACTICE-BASED LEARNING AND IMPROVEMENT

PGY II Residents:

- Remain current on medical literature and cases related to surgical critical care
- Develop proficiency in the assessment and initial stabilization of critically ill surgical patients

SYSTEMS-BASED PRACTICE

PGY II Residents:

- Consult with other members of the health care team to provide cost-efficient health care for patients

- Apply cost-effective care in ordering tests and planning interventions
- Gain proficiency in the use of the hospital's EMR and ICU order sets

READING MATERIALS:

Educational materials which will function as guides for resident education during this course include but are not limited to:

1. The SCORE General Surgery Resident Curriculum Portal
accessed at <https://portal.surgicalcore.org/home>
2. Schwartz's Principles of Surgery
3. Zollinger's Atlas of Surgical Operations
4. The Surgical Core Curriculum accessed via Access Surgery through the University of Illinois-Chicago website.

OUTCOMES:

Outcomes for the various goals and procedures in this curriculum will be assessed along the following standards:

1. Superior: the resident exhibits conceptual understanding beyond that which is described in this bulletin, and practice performance which is at a standard for a resident at a more advanced PGY year.
2. Above-Average: the resident has shown understanding and performance that is above what is expected for the rotation.
3. Competent: the resident exhibits conceptual understanding and practice based performance standards that are minimal, for the appropriate PGY year, for advancing towards general surgical practice.
4. In Need of Remediation: the resident has failed to grasp the basic concepts and practices necessary to advance past this rotation for the PGY year, and shows need of repeating or training augmentation.