



University of Illinois, Metropolitan Group Hospitals Program in General Surgery

Rotation Title: Vascular and Thoracic Surgery- Advocate Lutheran General Hospital

Level of Training: PGY I, PGY IV

Attending in Charge of Rotation: Dr. John White

Faculty: Dr. John White, Dr. Axel Joob, Dr. Michael Vercillo, Dr. Lewis Schwartz, Dr. Chad Jacobs

ASSESSMENT:

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

1. 360 degree evaluation: end of rotation evaluation of resident performance to assess the Resident's demonstration of Core Competencies with respect to the stated objectives by faculty, other team resident members, students, nursing staff, and patients.
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, Cardiovascular and Respiratory systems section.

Surgical Skills Advancement:

By the end of the rotation, have completed (per necessity) the OSAT/OSCA for the following procedures:

- Femoral - popliteal Bypass
- Chest Tube Insertion
- AV Fistula

COMPETENCY BASED LEARNING OBJECTIVES

Medical Knowledge

PGY I Residents:

- Complete readings in SCORE Curriculum as outlined both in SCORE website and outlined document on MGH website.
- Demonstrate an understanding of vascular anatomy and anatomic arrangement of common vascular bypass procedures and angioplasty or other endovascular procedures
- Describe the natural history of atherosclerotic occlusive disease, aneurysms, cerebrovascular occlusive disease and thoracic anatomy
- Participate in Basic Science readings and lectures

PGY IV Residents:

- Demonstrate knowledge of vascular graft material and factors effective graft failure
- Demonstrate knowledge of different modes of angioplasty (balloon vs. stent, self expandable stent vs. balloon expandable, very basic differences between catheters and different wires)
- Describe the conduct of pneumonectomy, lobectomy and escharectomy
- Demonstrate knowledge of patency data, long term outcome and limitations of various vascular procedures
- Discuss the indication, contra-indication, and patient selection for major vascular procedures
- Describe the specific indications of endovascular procedures for occlusive or aneurismal disease and recognize the specific complication related to endovascular approach
- Describe and understand survival data and complications of major thoracic procedures for lung and esophageal carcinomas
- Complete readings in SCORE Curriculum as outlined both in SCORE website and outlined document on MGH website.

PATIENT CARE

PGY I Residents:

- Conduct a thorough vascular history and physical examination
- Assess and initiate treatment for patients with vascular disease
- Recognize vascular emergencies
- Recognize acute thoracic emergencies (e.g. pneumothorax etc.)

PGY IV Residents:

- Assess and treat seriously ill patients in the intensive care unit
- Assess and initiate treatment for patients with vascular disease
- Recognize vascular emergencies
- Recognize acute thoracic emergencies (e.g. pneumothorax etc.)
- Demonstrate organization and leadership skills to expedite patients election, preoperative preparation, conduct of surgery and post-operative care

INTERPERSONAL AND COMMUNICATION SKILLS

PGY I and IV Residents:

- Interact with fellow residents and the multidisciplinary team on the service
- Display a friendly disposition that is conducive to successful interaction with team members and patients
- Be able to handle and resolve conflict with patients
- Communicate treatment plans with patients and support staff
- Respond to patients and support staff questions in a positive manner
- Demonstrate proficient use of an electronic ordering system

PROFESSIONALISM

PGY I and IV Residents:

- Relate as a team member with other residents from other departments
- Relate with all patients and support staff politely and with respect
- Respond to pages and consults in a timely manner
- Respond to criticism and correction with calm and attentive demeanor
- Demonstrate appropriate dress and decorum while on duty
- Handle all patient information confidentially and not discuss it in hallways or other public places

- Use and know the chain of command on the resident service
- Demonstrate kindness, empathy and maturity in the interrelationship with patients with routine surgical problems
- Demonstrate the ability to maintain composure in an emergency department environment
- Demonstrate the ability to maintain a mature relationship in the midst of adversity, especially, when family members and love ones learn about serious injuries to relatives
- Apply methods in resolving disagreements between patient relatives and members of the treating team
- Demonstrate the ability to calm the grieving relative

PRACTICE-BASED LEARNING AND IMPROVEMENT

PGY I Residents:

- Know how to position intra-vascular access devices including Swan-Ganz catheterization and temporary percutaneous Hems dialysis devices
- Perform tube thoracostomy

PGY IV Residents:

- Teach, guide and act as a role model for medical students
- Recognize and apply resource management skills
- Attend and actively participate in didactic sessions and presentations
- Coordinate the care provided by several younger members of the patient care team
- Demonstrate proficiency at supervising the activities of the younger team members so that patient care is efficient
- Be proficient at performing carotid endarterectomy, aortic reconstruction, lung and esophageal resections
- Perform the positioning of intra-vascular access devices including Swan-Ganz catheterization and temporary percutaneous Hems dialysis devices
- Perform tube thoracostomy
- Demonstrate competence in performing a caval filter placement and Hemodialysis shunts
- Demonstrate leadership and management practices in ensuring that all members of the team promptly complete all patient histories and physical examinations
- Perform effective carotid endarterectomy, aortic reconstruction, lung and esophageal resections
- Demonstrate proficiency in positioning intra-vascular access devices including Swan-Ganz catheterization and temporary percutaneous Hemodialysis devices

- Perform tube thoracostomy
- Capable of performing a caval filter placement and Hemodialysis shunts

SYSTEMS-BASED PRACTICE

PGY I and IV Residents:

- Utilize the expertise of other services and support personnel
- Demonstrate good patient advocacy skills
- Be adept in using the electronic medical record system, understanding its benefits and difficulties in its adoption
- Demonstrate adeptness with the resource usage in a capitated system wherein resources are not infinite and costs are not simply passed on to the consumer

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