This rotation in Vascular Surgery is an 8-week experience in advanced open and endovascular surgery techniques and clinical practice. The rotation is designed for upper-level residents interested in pursuing a career in Vascular Surgery or similar vascular-related pathway. The resident will be required to be involved in both outpatient and inpatient care, elective and emergent surgical procedures, as well as clinic assessment/care. Office-based arterial and venous surgical experience is also available when time allows.

The resident will be expected to attend morning rounds (physician assistants and attending surgeons) to manage and discuss ongoing care of inpatients. He/she will also be expected to evaluate each surgical patient preoperatively prior to assisting in the OR.

Prerequisites
1. Senior level open surgical skills.
4. Knowledge of the pre- and post-operative care of the critically ill surgical patient.

Objectives:

Medical Knowledge:
Assessment and initial management of patients with a variety of clinical problems including:
- Peripheral vascular occlusive disease (clinical presentation and management, including medical and interventional management)
- Carotid artery disease
- Aneurysms (AAA, TAA, peripheral)
- Venous disease (DVT/PE, varicose veins, venous stasis)
- Dialysis access
- Renovascular disease
- Vasculitis
- Thoracic Outlet Syndrome

Interpersonal and communication skills:
1. Communicates effectively with attending, residents, team members and other health care professionals. Effectively and appropriately consults other services.
2. Works well with multidisciplinary team, coordinating care and working with specialists in a
team setting for the management of vascular surgery patients. Effectively plans care after discharge, including rehabilitation and skilled nursing facility (SNF). Transition of care of patients is especially important in vascular surgery.

3. Effective documentation in medical records in a systematic and problem based approach.
4. Attends morning multidisciplinary rounds to discuss inpatients with all team members (medical students, residents, nurse practitioners).
5. Communicates appropriately and professionally to patient and family members in pre/post-operative assessments (pre-operative consents to post-operative care).
6. Demonstrates ability to develop and execute patient care plans appropriate for level of training.
7. Participates in teaching conferences, rounds, and works as a member of the vascular surgery team with residents and faculty. Expectation to be involved in medical student teaching when appropriate.

Professionalism
1. Demonstrates a commitment to continuity of patient care.
2. Displays a sense of responsibility and respect to patients, families, staff and peers.
3. Demonstrates cultural sensitivity.
4. Maintains a professional appearance, well groomed, appropriately dressed.
5. Punctual in attendance, prompt and available when called upon.
6. Motivated to learn, shows appropriate assertiveness, flexibility, adaptability toward education.
7. Demonstrates appropriate attitude, cooperative, receptive to feedback.

Patient Care Skills:
1. Participates in both inpatient and outpatient surgical procedures with emphasis on techniques of both open and endovascular interventions.
2. The individual performs a variety of surgical procedures under the direct supervision of faculty.
3. Able to assess post-operative patients in a systematic manner and develop and execute effective and safe medical decisions appropriate for level of training. Orders appropriate diagnostic tests.
4. Able to effectively identify ones limits and communicate appropriately with attending staff.

Resident Milestones:
- Understand the natural history of vascular disease processes, including appropriate history and physical exam findings
- Understand work up, including appropriate diagnostic imaging
- Be able to interpret basic duplex ultrasound findings as well as CTA and angiogram images to plan a surgical approach
- Describe indications and contraindications for common vascular procedures
- Understand the decision making necessary to perform a surgical procedure at senior resident level
- Development of advanced surgical skills necessary to be ready for transition into practice
- Be able to describe and perform a basic endovascular procedure start to finish (iliac stenting)
- Exposure of peripheral arteries, carotid, and abdominal aorta
- Perform patch angioplasty, as well as end-to-end and end-to-side vascular anastomoses

Attending staff:

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