

Stanford University General Surgery Residency Program
Vascular Surgery Goals and Objectives for Residents: R-3
Rotation Director: Jason T. Lee, MD

Description

The Vascular Surgery rotation at Stanford Hospital offers a broad experience in the care of complex patients with vascular surgical diseases and processes.

Goals

The goal of the Vascular Surgery rotation is to help the residents:

- Develop knowledge and experience in the evaluation and management of inpatient and outpatient vascular surgical diseases.
- Refine procedural and operative skills commonly required in the care of these patients, including mastering the fundamentals of image-guided therapies
- Experience and understand the day-to-day function of a complex surgical service.

Objectives

The Vascular Surgery R-3 rotation has the following objectives:

- The residents have primary responsibility for the management of all inpatient consultations in conjunction with the vascular senior residents, fellows, and attending surgeons.
- The R-3 residents function as primary caretaker of the ICU vascular patients, assuming direct responsibility for the day-to-day care of patients on the services and coordinating care with other services. He/she also serves as the first consultant with the intern regarding issues related to floor patients, and will develop leadership skills in the management and guidance of inpatient surgical teams and supervision and education of junior residents.
- The resident gains knowledge of vascular care through discussion on rounds with the attending physician and also by independent reading. This knowledge base includes basic fluoroscopic imaging, guidewire management, diagnostic arteriography and venography, angiography suite and interventional device inventory management, and vascular access
- The resident gains operative skills through pre-operative reading and preparation and by direct intra-operative teaching from the Vascular Surgery Attendings.

Residents can expect frequent teaching from members of the team, both at the bedside and during formal and informal sessions. R3 residents are also expected to act as junior leader on the team, and able to run the service with the intern, nurse practitioners, and medical students.

Residents are evaluated in the 6 core competencies (Medical knowledge, Patient care, Interpersonal communication skills, Professionalism, Practiced based learning and Systems based practice) using specific web-based evaluation forms. An outline of core competencies with rotation objectives, instructional activities, and evaluations is below.

Specific goals and objectives for residents

GOALS Core Competencies	R-3 OBJECTIVES	INSTRUCTIONAL ACTIVITIES	EVALUATION
<p>Knowledge: To acquire and apply knowledge of established and evolving basic and applied clinical sciences that relate to the practice of vascular surgery.</p>	<p>1. Perform vascular surgical procedures as appropriate on designated patients including dialysis access procedures, arterial endarterectomies, graft revisions, venous ablative procedures, wound management cases, limb and partial foot amputations, vena caval filter placement, repair of traumatic arterial injuries, arteriography for assessment of traumatic injuries, injection sclerotherapy, and catheter-directed embolic procedures, as is appropriate for their level of experience.</p> <p>2. Gain experience and familiarity with management of renal replacement therapy, including dialysis protocols, options for short and long term vascular access, evaluation of status of access efficacy, salvage strategies, management of hemodialysis facilities and staff, and management of complications of vascular access procedures.</p>	<p>Teaching by attending faculty.</p> <p>Independent reading</p> <p>Weekly conferences</p>	<p>Weekly feedback by fellow/chief resident/attending and Rotation evaluation by each Vascular Surgery attending (https://stanford.medhub.com)</p>
<p>Patient Care: To provide compassionate, appropriate, and effective care to vascular patients.</p>	<p>1. Evaluate, triage, staff and manage all inpatient vascular surgery consultations at SUMC.</p> <p>2. Perform complete directed histories and physical examinations on vascular surgery clinic patients 2 days per week, review all accompanying clinical and image-based information regarding their patients, develop an independent management plan appropriate for each patient.</p>	<p>Daily rounds with the Vascular Surgery Team</p> <p>Pre-operative and intra-operative teaching</p>	<p>Weekly feedback by fellow/chief resident/attending and Rotation evaluation by each Vascular Surgery attending (https://stanford.medhub.com)</p>
<p>Effective Interpersonal and Communication skills: Residents must communicate in a way that leads to effective information exchange of a vascular surgery care plan to patients, their families, and professional associates.</p>	<p>1. Instruct interns and medical students on basic vascular and endovascular techniques in the outpatient operative and angiographic facilities at SUMC.</p> <p>2. Deliver teaching conferences for interns and students at SUMC.</p> <p>3. Provide family members an update of patient's condition.</p> <p>4. Discuss appropriate perioperative concerns with team and consultants.</p> <p>5. Work effectively with team members (attending, interns and NP) to communicate care plan and discuss with attendings.</p>	<p>Daily rounds with the Vascular Surgery Team</p>	<p>Weekly feedback by fellow/chief resident/attending and Rotation evaluation by each Vascular Surgery attending (https://stanford.medhub.com)</p>

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<p>Practice based learning and improvement: In order to improve patient care practices, residents must be able to critically evaluate their own performance as well as appraise and incorporate clinical scientific evidence.</p>	<ol style="list-style-type: none"> 1. Serve as senior resident and team leader in conjunction with PGY-5 Vascular Surgery resident or Vascular fellow. Manage inpatient census, reporting requirements, team schedules, vacation coverage, daily clinical assignment and patient management tasks. 2. Participate in simulated scenarios on the AngioMentor Simulator including iliac angioplasty/stenting, renal angioplasty/stenting, and carotid angioplasty/stenting. 3. Identify impact of complications on recovery of patients. 4. Use information technology to assimilate current medical literature as it relates to patient care. 	<p>Daily rounds with the Vascular Surgery Team</p> <p>Weekly conferences</p>	<p>Weekly feedback by fellow/chief resident/attending and Rotation evaluation by each Vascular Surgery attending (https://stanford.medhub.com)</p>
<p>Professionalism: Residents must show a commitment to professional responsibilities, adherence to ethical principles, and sensitivity to diversity.</p>	<ol style="list-style-type: none"> 1. Learn to manage complex patient problems specifically related to relating information to families regarding unexpected outcomes in a quaternary care hospital. Learn to interact with a wide range of patient age ranges, including children with vascular problems, women of child-bearing age, and the elderly. 2. Learn to interact with multiple subspecialty groups in consultation as well as multi-disciplinary conferences. 3. Display appropriate demeanor, even in adverse or stressful situations. 4. Act with sensitivity and responsiveness to patient's culture, age, gender, and disabilities. 	<p>Daily rounds with the Vascular Surgery Team</p>	<p>Weekly feedback by fellow/chief resident/attending and Rotation evaluation by each Vascular Surgery attending (https://stanford.medhub.com)</p>
<p>Systems-based Practice: A resident must be able to demonstrate an awareness of and responsiveness to the system of health care and the ability to effectively call on system resources to provide optimal care.</p>	<ol style="list-style-type: none"> 1. Act as an organizational problem solver for vascular surgery patients. 2. Enable the hospital to deliver a wide range of patient care. 3. Understand how care practice affects staffing and health care costs. 	<p>Daily rounds with the Vascular Surgery Team</p>	<p>Weekly feedback by fellow/chief resident/attending and Rotation evaluation by each Vascular Surgery attending (https://stanford.medhub.com)</p>