

VASCULAR SURGERY

PGY2 OBJECTIVES

MEDICAL EXPERT

<i>Basic Science Knowledge</i>	Able to understand the anatomy, physiology, and pathophysiology of the circulatory system in health and disease, including arterial wall and cell biology, hemodynamics, and ischemia-related organ dysfunction
<i>Clinical Knowledge</i>	<p>Elicit a history that is relevant, concise, and accurate as it pertains to the patient's vascular problem</p> <p>Able to perform a physical examination of peripheral vascular to aid in the diagnosis of the patient with vascular disease</p> <p>Develop an understanding of the natural history of vascular disease and management of risk factors, and how non-surgical treatment, percutaneous and/or surgical intervention can alter this</p> <p>To familiarize the vascular trainee with the diagnostic and therapeutic procedures available in imaging such as: Plain films, Angiography, Therapeutic angiographic procedures, Arteriothrombolysis, Doppler Ultrasound and Duplex Imaging, CT, MRI, Venography</p> <p>Understand the indications for arterial catheterization techniques, contrast, risks and complications, and the use of nuclear medicine imaging in the course of arterial disease including infection of arterial grafts</p>
<i>Recognition and Management of Emergencies</i>	<p>Assessment of acute and chronic limb ischemia and arterial trauma</p> <p>Assessment of the abdominal aortic aneurysm</p> <p>Able to appropriately assess the patient with acute ischemia and understand indications for angiography, thrombolysis, and the place for possible need for urgent intervention</p>
<i>Technical and Procedural Skills</i>	<p>The ability to assist and perform under supervision the common surgical procedures in vascular surgery</p> <p>Knowledge of infra-inguinal arterial reconstructive technique</p> <p>Able to assist with the insertion of stents and other endovascular devices</p> <p>The Urology resident in Vascular Surgery will gradually gain experience and ultimately be able to perform simple operations and assist with parts of more complicated surgeries The resident should gain proficient operative skills in the following areas :</p> <p>Varicose veins, saphenofemoral dissection, stripping and ligation</p> <p>Vascular exposure to major vessels (aortic, mesenteric, femoral, carotid, brachial, jugular)</p> <p>Vascular Anastomosis (Aortic grafts, femoral artery graft anastomosis, Distal Infra-Popliteal Graft Anastomosis, Profundoplasmy, Saphenous Vein harvest</p> <p>Embolectomy</p> <p>Fasciotomy</p> <p>Amputations</p>

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CONTINUED . . .

*Specific Clinical
Expectations*

Has understanding of the indications for arterial reconstruction, endovascular techniques, thrombolytic therapy and other non interventional therapies
Techniques for elective and emergency surgical repair of AAA
Able to describe indications for non-invasive vascular investigation and angiography
Venous Disease- understands the etiology and the assessment and management of common venous disorders, including varicose veins, post phlebitic syndrome and leg ulcerations; understands the place of non invasive venous investigations, including hand held Doppler; understands the indications for venous reconstruction; understands the prevention , risk factors, diagnosis and treatment of deep vein thrombosis and coagulation
Lower Limb Arterial and claudication- understands the various modalities of treatment, including exercise, pharmacological manipulation, and endoluminal techniques; understands the role of arteriography in lower limb vascular disease; has understanding of graft technology and composition.
The Diabetic Foot- has an appreciation of the role of revascularization of the diabetic limb
Percutaneous and endovascular surgery- should be exposed to and understand indications and concepts for arteriography, Balloon angioplasty, and Thrombolysis
Aortic Surgery- has knowledge of the treatment of aortic aneurysm and aortic occlusive disease, involvement in the care of emergency abdominal aortic aneurysms as the first assistant, active involvement with the post-operative care of critically ill patients in the intensive care unit. An understanding of the treatment of cardiac arrhythmias, renal failure, respiratory impairment and coagulopathies, has understanding of graft technology and composition, understanding of Aortic Dissection
