



CURRICULUM OUTLINE
FOR
VASCULAR SURGERY

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TABLE OF CONTENTS

(click to go to that page)

INTRODUCTION	3
Category 1: Cerebrovascular	3
Category 2: Upper Extremity	3
Category 3: Thoracic Outlet Syndromes	4
Category 4: Abdominal/Iliac/Peripheral Arterial Aneurysms	4
Category 5: Lower Extremity Occlusive Disease	4
Category 6: Mesenteric.....	5
Category 7: Renal.....	5
Category 8: Thoracic Aorta	5
Category 9: Venous Disease.....	6
Category 10: Liver/Portal Hypertension	6
Category 11: Lymphatic Problems	6
Category 12: Vascular Trauma	6
Category 13: Angioaccess	7
Category 14: Complications	7
Category 15: Amputations	7
Category 16: Imaging/Vascular Laboratory	8
Category 17: Vascular Medicine	8
Category 18: Miscellaneous.....	8

INTRODUCTION

EXPLANATION OF THE CURRICULUM OUTLINE

The **SCORE Curriculum Outline for Vascular Surgery** is a list of **vascular surgery patient care topics** to be covered in a vascular surgery training program. It is designed to be relevant to five-year integrated training programs, as well as two-year fellowship programs.

The outline has been created with input from the Vascular Surgery Board of the American Board of Surgery, the Association of Program Directors in Vascular Surgery, and the Society for Vascular Surgery.

Please note: The topics below may not directly match the [current modules](#) available on the SCORE Portal (www.surgicalcore.org). This document is forward-looking, reflecting the latest updates. There has also been an effort to consolidate topics wherever possible, which will be reflected on the portal as the development and updating of modules continues.

Category 1: Cerebrovascular

Diseases/Conditions

- [Carotid Artery, Atherosclerotic – Asymptomatic](#)
- [Carotid Artery, Atherosclerotic – Symptomatic](#)
- Carotid Artery Dissection
- Great Vessel Disease
- Uncommon Carotid Conditions – FMD, Aneurysm, Carotid Body Tumor
- Vertebral Artery Disease – Atherosclerotic, FMD, Dissection

Operations/Procedures

- Carotid Artery Endarterectomy – Patch and Eversion
- [Carotid Artery Stenting](#)
- Great Vessel – Endovascular
- Great Vessel – Open
- Vertebral Artery Procedures – Open and Endovascular

Category 2: Upper Extremity

Diseases/Conditions

- Atherosclerotic Disease – Claudication, Rest Pain, Tissue Loss
- Axillosubclavian Aneurysmal Disease
- Occupational Vascular Diseases
- Upper Extremity Ischemia, Acute – Embolization, Iatrogenic

Operations/Procedures

- [Carotid Subclavian Artery Bypass](#)

Category 3: Thoracic Outlet Syndromes

Diseases/Conditions

- Thoracic Outlet Syndrome – Neurogenic, Arterial, Venous

Operations/Procedures

- [First Rib Resection – Infraclavicular](#)
- First Rib Resection – Supraclavicular
- [First Rib Resection – Transaxillary](#)

Category 4: Abdominal/Iliac/Peripheral Arterial Aneurysms

Diseases/Conditions

- Aortic Aneurysm – Infrarenal and Juxtarenal
- [Aortic Aneurysm – Ruptured](#)
- Femoral and Popliteal Artery Aneurysm
- Iliac Artery Aneurysm

Operations/Procedures

- Abdominal Aortic Aneurysm (Infrarenal and Juxtarenal) Repair – Open
- Endovascular Abdominal Aortic Aneurysm Repair (EVAR) – Elective
- Endovascular Abdominal Aortic Aneurysm Repair (EVAR) – Rupture
- Femoral Artery Aneurysm Repair
- Iliac Artery Aneurysm Repair – Open and Endovascular
- Popliteal Artery Aneurysm Repair – Open and Endovascular
- Suprarenal Aortic Aneurysm Repair – Open

Category 5: Lower Extremity Occlusive Disease

Diseases/Conditions

- [Claudication](#)
- Compartment Syndrome
- [Diabetic Foot Ulcers and Infections](#)
- Lower Extremity Ischemia, Acute – Including Blue Toe Syndrome
- [Lower Extremity Ischemia, Chronic](#) – Rest Pain, Ulcer and Gangrene
- Popliteal Artery Entrapment

Operations/Procedures

- [Aortobifemoral Bypass](#)
- Axillobifemoral Bypass
- Common/Profunda Femoral Endarterectomy
- Femoral AK Popliteal Bypass – Prosthetic/Vein
- Femoral BK Popliteal/Tibial Bypass with Prosthetic/Vein
- [Femoral Popliteal Artery Embolectomy](#)
- Femoral PTA/Stenting
- Iliac Endovascular PTA with/without Stenting
- Thrombolytic Therapy
- Tibial PTA/Stenting

Category 6: Mesenteric

Diseases/Conditions

- Celiac Compression Syndrome
- [Mesenteric Ischemia, Acute](#) – Embolus, Thrombosis, NOMI
- Mesenteric Ischemia, Chronic
- Mesenteric and Portal Vein Thrombosis
- Superior Mesenteric Artery Dissection
- Visceral Aneurysm

Operations/Procedures

- Mesenteric Bypass/Endarterectomy
- SMA Stenting
- SMA Thrombectomy – Open

Category 7: Renal

Diseases/Conditions

- Renal Artery Aneurysm
- Renovascular Hypertension

Operations/Procedures

- Endovascular Renal Aneurysm Repair
- Renal Artery Aneurysm Repair
- Renal Artery Bypass – Aortorenal, Splenorenal, Hepatorenal

Category 8: Thoracic Aorta

Diseases/Conditions

- [Aortic Dissection](#) – Including Variants of Penetrating Ulcer and Intramural Hematoma
- Atherosclerotic Thoracic Aortic Disease – Coral Reef/Shaggy Aorta
- Genetic Aortic Diseases
- Thoracic Aortic Aneurysm
- Thoracoabdominal Aneurysm

Operations/Procedures

- Thoracic Aortic Dissection Repair – Open and Endovascular
- Thoracic Aortic Injury (Blunt) Repair – Endovascular
- Thoracoabdominal Aneurysm Repair – Open

Category 9: Venous Disease

Diseases/Conditions

- [Chronic Venous Insufficiency – Including Venous Leg Ulcer](#)
- Deep Venous Thromboembolic Disease – Upper and Lower Extremity
- Inferior Vena Cava Tumors
- Pelvic Venous Congestion Syndrome
- Pulmonary Embolus
- Superficial Thrombophlebitis
- Superior Vena Cava Syndrome
- [Varicose Vein Disease](#)
- Venous Malformations
- Venous Obstructive Lower Extremity, Chronic

Operations/Procedures

- DVT (Acute) Treatments
- Sclerotherapy
- Varicose Vein Procedures
- Vena Caval Filter Insertion and Removal
- Venous Obstructive Disorders Treatments

Category 10: Liver/Portal Hypertension

Diseases/Conditions

- Portal Hypertension

Operations/Procedures

- Portal Systemic Decompression

Category 11: Lymphatic Problems

Diseases/Conditions

- Lymphedema/Lymphangitis – Primary and Secondary

Category 12: Vascular Trauma

Diseases/Conditions

- [Posterior Knee Dislocation](#) – Popliteal Injury
- Supracondylar Humeral Fracture
- Vascular Injury – Abdomen (Including Mesenteric)
- Vascular Injury – Extremities
- Vascular Injury – Great Vessels
- Vascular Injury – Neck

Operations/Procedures

- Abdominal Vascular Exposures
- Thoracic Aortic Injury (Blunt) Repair – Endovascular

Category 13: Angioaccess

Diseases/Conditions

- [Ischemic Steal Syndrome](#)

Operations/Procedures

- Failing/Thrombosed Access – AVF and AVG Management
- Hemodialysis Access Catheter
- Non-Thrombotic Access Complications
- Peritoneal Dialysis Catheter Placement

Category 14: Complications

Diseases/Conditions

- Anastomotic Aneurysm
- Aortocaval Fistula
- Chylous Ascites/Chylothorax
- Femoral Complications – Incision, Lymphocele, Infection...
- Graft Infections, Aortic
- Graft Infections, Peripheral – Exposed Vessels/Graft
- Pseudoaneurysm, Iatrogenic
- Tracheoinnominate Fistula

Operations/Procedures

- Anastomotic Aneurysm Repair
- Aortic Graft-Enteric Fistula/Erosion Removal –Extra-Anatomic vs In Situ Replacement
- Neo-Aortoiliac System Procedure
- Pseudoaneurysm Repair, Iatrogenic – Open vs. Injection

Category 15: Amputations

Operations/Procedures

- Amputations – Foot (Toe, Ray, TMA, Chopart, Lisfranc, Symes)
- Amputations – Lower Extremity (AKA, Through the Knee, BKA)
- Amputations – Upper Extremity

Category 16: Imaging/Vascular Laboratory

Vascular Laboratory

- Abdominal Vascular, Aortic Aneurysm and Post-EVAR Assessment
- Abdominal Vascular, Renal and Mesenteric
- Cerebrovascular, Carotid
- Cerebrovascular, Intracranial (TCD)
- Cerebrovascular, Intraoperative
- Peripheral Arterial, Duplex Evaluation of Occlusive Disease
- Peripheral Arterial, Physiologic Testing
- Venous, Evaluation of Upper and Lower Extremity DVT
- Venous, Evaluation of Venous Insufficiency

Other Imaging

- CT/CTA
- MRA

Category 17: Vascular Medicine

Diseases/Conditions

- Buerger's Disease
- Diabetes Mellitus
- Hyperlipidemia
- Hypertension
- Other Risk Factors Affecting Atherosclerosis – Homocystinemia, CKD, Hypercoagulability, etc.
- Tobacco Use/Smoking Cessation

Category 18: Miscellaneous

Diseases/Conditions

- Aortic Anomalies, Congenital
- Fluoroscopy, Radiation, and Radiation Safety
- Frostbite
- Mycotic Aneurysms
- Nonatherosclerotic Disease – Takayasu's Disease, Giant Cell Arteritis, Raynaud's
- Pediatric Vascular Surgical Problems

Operations/Procedures

- Sympathectomy/Sympathetic Block