Vascular Surgery (CAD)  
Mini-Elective  
Spring 2010

Course Dates: April 8, 15, 22, 29  
Thursdays, 1:00-3:00 PM

Maximum Students: 4

Class Year: MS1

Course Director: Donald Baril, MD  
Assistant Professor of Surgery

Contact Information: Kathy Haupt, Medical Student Coordinator  
F675 UPMC Presbyterian  
412-647-5314  
hauptkg@upmc.edu

Registration: Betsy Nero, Office of Medical Education  
betsy@medschool.pitt.edu

Description:  
Vascular Surgery: Carotid Artery Disease (CAD)  
There are four sessions in this elective course. Each will be two hours. In the first session, there will be a general introduction into the problem of CAD. This lecture will discuss the pathogenesis of CAD, the findings on history and physical examination, the variations in CAD, and the morbidity and mortality associated with the disease and surgical correction. The second session will present the diagnostic tools used to diagnose CAD and characterize it including ultrasound, CT scan, MR, and angiography. The student will have the opportunity to visit the non-invasive vascular laboratory to see a diagnostic ultrasound performed. In the third session, the student will visit a state-of-the-art angiography suite/operating room to see a stent placement. In the fourth session the student will have the opportunity to go into an operating room to view a carotid endarterectomy. There will be a required reading assignment (10-15 pages) prior to each session.

Objectives:  
• To understand the pathogenesis of CAD.  
• To identify patients at increased risk for CAD.  
• To learn the use of the common diagnostic tools to determine if CAD is present.  
• To appreciate when to surgically correct CAD.  
• To comprehend the difference in risks and benefits between open endarterectomy and endovascular stenting of CAD.  
• To observe an angiogram, endarterectomy, and stent placement.

Requirements:  
Complete pre-session reading and participate actively in all sessions.
Course Outline

Vascular Surgery (CAD)

Course Director:
Donald Baril, MD
Assistant Professor of Surgery
Course Director

Faculty:
Rabih Chaer MD
Assistant Professor of Surgery

Steven Leers MD
Assistant Professor of Surgery

Robert Y Rhee MD
Associate Professor of Surgery

Michel S Makaroun MD
Chief, Division of Vascular Surgery
Professor of Surgery

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Location:
Various locations listed below.

Session I – Thursday, April 8, 2010
A1011 UPMC Presbyterian
Rabih Chaer MD
Introduction to CAD
Required reading: Vascular Surgery, 6th edition, R Rutherford Editor, Chapter 135

Session II – Thursday, April 15, 2010
Shadyside Hospital Vascular Laboratory
Steven Leers MD
CAD: Diagnostic Tools
Required reading: Zweibel, Vascular Ultrasound, Carotid duplex scanning

Session III – Thursday, April 22, 2010
UPMC Shadyside operating room
Robert Y Rhee MD
Observe a carotid angiogram and stent placement
Required reading: Vascular Surgery, 6th Edition, R Rutherford editor, Chapter 140, carotid angioplasty and stenting
Session IV: - April 29, 2010
UPMC Presbyterian operating room
Michel S Makaroun MD
Observe an open carotid endarterectomy
Required reading: Vascular Surgery, 6th edition, R Rutherford Editor, Chapter 139, Indications, Surgical Technique, and Results for Repair of Extracranial Occlusive Lesions

PRE-REQUISITES:
None