UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Vascular Surgery

2223-4-H4102D024-H4102D086M

Aims

This course focuses on pathophysiology, clinical evaluation, diagnosis and treatment of vascular diseases.

Contents

The lectures will cover the most important aspects related to surgical treatment of vascular pathologies as aneurysms, carotid disease, peripheral artery disease and venous disease. Students will acquire the basic knowledge required to diagnose the most important vascular disease and will learn about treatment indications and main surgical procedures.

Detailed program

- Atherosclerosis and vulnerable plaques: plaque rupture, embolization and thrombosis.
- Clinical evaluation of patients with vascular disease. Arterial pulses.
- Carotid atherosclerosis. Assessment of carotid plaque morphology and rate of carotid stenosis. Definition of symptomatic carotid plaque. Surgical and endovascular treatment of carotid stenosis.
- Subclavian Steal Syndrome (SSS).
- Thoracic Outlet Syndrome (TOS).
- Peripheral artery disease (PAD). Leriche syndrome. Arterial Ulcers. Lower limb revascularization.
- Hypoperfusion, hypoxia, ischemia and necrosis. Acute limb ischemia. Compartmental syndromes. Ischemia-reperfusion injury
- Aortic aneurysms. Ruptured abdominal aortic aneurysms. Indication to treatment. Surgical and endovascular treatment
- Post-catheterization pseudoaneurysms. Traumatic pseudoaneurysm and blunt aortic injury

- Mycotic aneurysms.
- Acute aortic syndromes. Aortic dissections, classification, pathophysiology, management. Intramural hematoma (IMH). Penetrating aortic ulcer (PAU)
- Deep venous thrombosis. Triad of Virchow. Superficial venous thrombosis and phlebitis. Venous ulcers.
- Chronic venous insufficiency. CEAP Classification. Conservative, elastocompressive, surgical and thermal ablation treatment.
- Differential diagnosis of edema, pain and inflammation in lower limbs.
- Raynaud's phenomenon

Prerequisites

- Basic anatomy, physiology, pathology and diagnostics of vascular diseases

Teaching form

Lessons in attendance, subject to ministerial changes due to the COVID pandemic.
All course activities will be held in English language

Textbook and teaching resource

"Vascular Surgery - A Clinical Guide to Decision Making"

Editors: Piergiorgio Settembrini; Alberto Settembrini

Publisher: Academic Press

Year: 2021

ISBN: 978-0128221136

Semester

- First semester

Assessment method

Written exam with multiple choice quiz comprising 30 questions with only one correct answer (among 5) aimed at evaluating global comprehension of course program.

Exams will be done in English language.

Office hours

By email appointment at alberto.froio@unimib.it

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING