

**Module / Course: Surgery (3) – the part conducted in Department of Vascular Surgery**  
**Major: medicine**  
**Year of studies VI, ED**  
**Academic year 2020/2021**

auditorium classes: **three in the winter semester and two in the summer semester**

clinical classes: **five days of classes in the winter semester and two days in the summer semester**

**LOCALIZATION:**

auditorium classes (AC), 08.30-10.15

**John Paul II Auditorium, Borowska Str.**

or **Department of Vascular, General and Transplantation Surgery USK, 213 Borowska Str.**

clinical classes (CC), 10.30-14.30

**Department of Vascular, General and Transplantation Surgery USK, 213 Borowska Str.**

**Educational objectives:**

1. To get students acquainted with the knowledge of symptomatology of the main surgical diseases of vascular surgery as well as to consolidate the knowledge of symptomatology of general abdominal surgery.
2. To get students acquainted with the modern diagnostic methods of vascular surgery as well as to consolidate the knowledge in diagnostics in the field of surgical diseases of abdominal cavity.
3. To get students acquainted with the principles of treatment of acute and chronic diseases that require vascular, as well as to consolidate the knowledge regarding the management of the most common general surgical disorders.
4. To consolidate the knowledge of principles of patient safe preparing to the surgical procedures as well as the principles of postoperative care (including aseptic and antiseptic rules and techniques, perioperative antibiotic prophylaxis, preparation of the surgical site and anticoagulation prophylaxis).
5. To make students familiar with adequate behavior within the operating theatre and consolidation of skills in wound suturing and surgical tying.
6. To make students familiar with the medical record documentation standards in surgery ward.

**Content of classes:**

**Seminars**

Winter Semester:

1. Diseases of arteries part 1: Atherosclerotic peripheral artery disease, carotid artery atherosclerosis, abdominal aortic aneurysms and peripheral arterial aneurysms, chronic mesenteric ischemia. Modern vascular diagnostics. Elective procedures in vascular surgery: open vascular surgery and endovascular surgery.
2. Transplant surgery: surgical aspects of organ donation and transplantation, transplant coordination, selected legal and organizational aspects of donation and organ transplantation in Poland.
3. Liver surgery: benign and malignant liver tumors, liver injuries.

Summer Semester:

1. Diseases of arteries part 2: Vascular surgical emergencies, acute limb ischemia, ruptured aortic aneurysm, acute mesenteric ischemia, blood vessel injuries, artery pseudoaneurysm, aortic dissection.
2. Diseases of venous system: varicose vein disease of legs, thrombophlebitis of superficial and deep veins of lower limbs, postthrombotic syndrome, pulmonary embolia.

**Practical classes**

The topics of practical classes are taught in each of the 4 surgical departments continuously in both semesters, depending on present cases and opportunities, in particular in relation to the topics of the seminars. In addition, during exercises, emphasis is placed on:

1. Participating in everyday work of a surgical ward.
2. Participating in a work of an Outpatient Surgical Clinic, including outpatient surgical procedures.
3. Participating in qualifying patients for elective and emergency surgical operations.
4. Taking history and physical examination of patients, paying attention to the elements important for the safety of patient that will undergo surgical procedure. Technique of physical examination in typical surgical disorders.
5. Assisting in filing of patient's medical records.
6. Practicing surgical sutures, technique of surgical knot tying – manual and with use of surgical instruments.
7. Assisting at changing of wound dressings.
8. Assisting at bedside procedures.
9. Participation in the preparation of the patient for surgery: informed consent and judicial consent, sharing of personal health information, qualification by a surgeon and anesthesiologist, perioperative medication management.
10. Participation in the preparation of the surgeon for surgery: principles of asepsis, surgical scrubbing, gowning and gloving, preparing an operating field.
11. Participating in surgical procedures of general, vascular, cardiothoracic surgery and neurosurgery.
12. Repetition of the knowledge from previous years of Surgery: preparing to the final exam.

**Basic literature:** <sup>[L]</sup><sub>[SEP]</sub>

1. Principles and Practice of Surgery, O.J. Garden et al., Churchill Livingstone Elsevier
2. National medical series for independent study (NMS) Surgery, B.E. Jarrell, III R.A. Carabasi, Lippincott Williams & Wilkins
3. Oxford Handbook of Clinical Surgery, G.R. McLatchie, Oxford Medical Publications

**Additional literature:** <sup>[L]</sup><sub>[SEP]</sub>

1. Surgery – Crash Course, D. Horton-Szar, H. Sweetland, Mosby
2. Surgery - Basic Science and Clinical Evidence. J. Norton, P.S. Barie et al., Springer, New York

**Conditions to receive credit for the course:**

Each absence must be made up, including rector's days or dean's hours (in this case, a presentation or essay prepared by the student is allowed). Credit for is based on attendance at classes and final test (written or oral, with the possibility of practical part at patient's bedside (history taking, physical examination, establishing of diagnostic and therapeutic procedures). At the end of the summer semester - an on-line test.