

**Higher education module program**

Faculty name	Faculty of Medicine Jagiellonian University Medical College
Unit conducting the module	
Module name	Surgery- clinical training
Language	English
Educational goals	The aim of the module is - to learn practical skills within the field of surgery - to systematise acquired knowledge - to prepare a student to work autonomously
Objectives of education in the module	In the frame of knowledge, a graduate:  F.W1. knows and understands the causes, symptoms, principles of diagnosing and therapeutic management in relation to most common diseases requiring surgical intervention, with consideration to differences associated with young age, including, in particular: a) acute and chronic disorders of the abdominal cavity b) chest disorders c) disorders of the head and extremities d) bone fractures and organ injuries e) arterial and venous disorders f) urinary infections g) heart and vascular diseases h) facial bone disorders, acute and chronic infections of the central nervous system F.W3. knows the principles of qualification and performing basic surgical and invasive diagnostic and therapeutic procedures F.W4. describes the perioperative safety standards, preparation of patient to surgery, performing general and local anesthesia and controlled sedation F.W15. has basic knowledge in the field of surgical transplantology, knows indications for transplanting irreversibly damaged organs and tissues and the procedures associated therewith F.W18. knows and can explain to others the principles of qualification and possible complications and consequences of the following surgical procedures: a) appendectomy, cholecystectomy b) thyroidectomy, parathyroidectomy, adrenalectomy c) gastrectomy, colectomy d) hernia repair with mesh prosthesis e) bariatric surgery F.W19. knows the principles of qualification and possible complications and consequences of the following surgical procedures: a) percutaneous and intraductal abdominal ultrasonography b) endoscopic diagnostic and therapeutic procedures of the gastrointestinal tract c) endoscopic diagnostic and therapeutic procedures of the respiratory tract (bronchoscopy, bronchoscopy with endoscopic ultrasound) d) endoscopic diagnostic and therapeutic procedures of the urinary tract (cystoscopy) e) endoscopic diagnostic and therapeutic procedures of motor organs (arthroscopy) f) screening used for early detection of cancer of the gastrointestinal tract  In the frame of skills: F.U1. assists in a standard surgical procedure, can prepare the operational field and apply local anesthesia to the operated area F.U2. can make use of the basic surgical tools F.U3. uses the principles of asepsis and antisepsis F.U4. can perform debridement and closing of a simple wound, apply and change sterile surgical dressing F.U5. can insert peripheral venous catheter F.U6. can examine breasts, lymphatic nodes, thyroid gland and abdominal cavity for symptoms of an acute abdomen, and to perform digital rectal examination F.U9. can perform management of internal bleeding F.U27. can tie a single and surgical knot F.U28. is able to examine the nipples, the abdominal cavity and a baseline finger through the anus F.U29. is able to perform and interpret ultrasound by FAST

	<p>(Focused Assessment with Sonography for Trauma)</p> <p>F.U32. can obtain the patient's informed consent for:</p> <p>a) diagnostic procedures of risk (e.g. gastroscopy and colonoscopy, endoscopic retrograde cholangiopancreatography)</p> <p>b) high-risk diagnostic procedures (percutaneous biopsy under ultrasound guidance)</p> <p>c) surgery to remove the gallbladder</p> <p>F.U33. can convey the message about the death of a beloved person</p> <p>F.U34. can tell family information on the possibility of organs transplantation from a person on whom have been imposed the brain death</p>
Assessment criteria and methods of evaluating achieved objectives of education	<p>Students are assessed based on attendance and participation in classes, obtaining skills is confirmed in the book called "List of Approved Procedures"</p> <p>The final exam:</p>
Type of a training module (mandatory/optional)	Mandatory
Year of studies	6
Semester	11, 12
Type of studies	full-time long-cycle
Name and surname of the module coordinator or the person/people conducting the module	
Name and surname of the person/people examining or giving credit in the case this is not the person conducting a given module	
Type of classes	Clinical practicals
Preliminary and additional requirements	<b>Credits for Surgery module</b>
Type and number of class hours requiring direct participation of an academic staff member and students when there are such classes in a given module	<p><b>Clinical practicals in pairs - 120 hours</b></p> <p><b>4 weeks</b></p>
Number of ECTS score for the module	<b>8 ECTS</b>
ECTS credit allocation	<p>Attendance in mandatory classes - 120 hours</p> <p>Preparation to practicals - 60 hours</p> <p>Preparation for the final exam - 30 hours</p> <p><b>Total 210 hours of student's work</b></p>
Teaching methods used	<b>Clinical practicals - practical clinical study</b>
The form and conditions for passing the module, including the requirements to be admitted to the examination, to be given a credit, and also the form and conditions for passing classes which comprise a given module	<p>Module passing requires fulfilling the following conditions:</p> <ol style="list-style-type: none"> <li>attendance in classes</li> <li>active participation in classes</li> <li>passing the final exam</li> </ol>
Training module content (with the division into teaching methods)	<p>Clinical classes - Practical occupational learning - 120 hours</p> <p>Students are assigned to one/two hospital wards for 4 weeks. Student's duties are: participation in preparation before patients' examination, participation in keeping the records - recording the findings in patient's status praesens, recording tests' results in hospital records, participation in examination, participation in consulting at infirmary and different hospital wards. Carrying out medical procedures according to the list and principles written in the book called "List of Approved Procedures"</p>
Basic and supplementary reading, necessary to get a credit of a given module	