

## SUBJECT CARD

Faculty of Medicine and Health Sciences

Field of studies: Medicine

Form of studies: Full-time

Degree: long-cycle Master's program

Specializations: No specialization

Academic year: 2022/2023

GENERAL SURGERY AND TRAUMATOLOGY	
<b>SUBJECT</b>	General surgery and traumatology
<b>NUMBER OF ECTS POINTS</b>	6
<b>LANGUAGE OF INSTRUCTION</b>	English
<b>TEACHER(S)</b>	Assoc. Professor Antoni Cienciała, MD, PhD Assoc. Professor Andrzej Komorowski, MD, PhD Assoc. Professor Krzysztof Tomaszewski, MD, PhD Assoc. Professor Wojciech Wysocki, MD, PhD Michał Kisielewski, MD, PhD Tomasz Kowalczyk, MD, PhD Tomasz Pardała, MD, PhD Przemysław Pękała, MD, PhD Sławomir Pośpiech, MD, PhD Tomasz Wojewoda, MD, PhD Maria Wieczorek-Grohman, MD, PhD Przemysław Cuber, MD Jerzy Dobosz, MD Sławomir Kiepusa, MD Katarzyna Kowalczyk, MD Marta Kołodziej-Rzepa, MD Dagmara Kozłowska, MD Dominika Romanowicz, MD
<b>PERSON RESPONSIBLE</b>	Assoc. Professor Wojciech Wysocki, MD, PhD
NUMBER OF HOURS	
<b>LECTURES</b>	12 h
<b>CLASSES</b>	60 h
<b>SEMINARS</b>	18 h
GENERAL OBJECTIVES	
<b>OBJECTIVE 1</b>	The student will be acquainted with the knowledge and skills in the field of general and oncological surgery, traumatic surgery of the skeletal-muscular system and neurotraumatology.

## GENERAL SURGERY AND TRAUMATOLOGY

### LEARNING OUTCOMES

<b>MK1</b>	<p><b>Knowledge:</b> The student knows and understands the causes, symptoms, principles of diagnosis and therapeutic management in relation to the most common diseases requiring surgical intervention, taking into account the specificity of childhood, including in particular:</p> <ul style="list-style-type: none"> <li>• diseases of the abdominal cavity organs, diseases of the chest;</li> <li>• diseases of the limbs and head;</li> <li>• diseases of arterial and venous vessels;</li> <li>• diseases of the urinary system;</li> <li>• diseases of the heart and blood vessels of the heart;</li> <li>• craniofacial diseases;</li> <li>• acute and chronic diseases of the central nervous system.</li> </ul>
<b>MK2</b>	<p><b>Knowledge:</b> The student demonstrates knowledge of the basics of surgical treatment in oncological diseases; knows selected issues in pediatric surgery, including traumatology and otorhinolaryngology, acquired defects and diseases which are an indication for surgical treatment in children.</p>
<b>MK3</b>	<p><b>Knowledge:</b> The student knows and can explain to the other person the rules of qualification, what they consist of, how they proceed and what are the possible complications, effects and consequences of surgical procedures regarding: gallbladder, liver, pancreas, spleen, thyroid, parathyroid, adrenal glands, stomach, colon, rectum, abdominal hernia using synthetic meshes, surgical treatment of obesity.</p>
<b>MS1</b>	<p><b>Skills:</b> The student assists in a typical surgical procedure, is able to prepare the operating field and apply local anesthesia.</p>
<b>MS2</b>	<p><b>Skills:</b> The student assesses the result of the radiological examination regarding the most common types of fractures, especially those of long bones.</p>
<b>MS3</b>	<p><b>Skills:</b> The student assesses the condition of the unconscious patient and calculates the Glasgow score.</p>
<b>MS4</b>	<p><b>Skills:</b> The student recognizes the symptoms of increasing intracranial pressure.</p>
<b>MS5</b>	<p><b>Skills:</b> The student is able to assess indications for a suprapubic puncture and participates in its performance.</p>
<b>MS6</b>	<p><b>Skills:</b> The student is able to interpret the ultrasound image according to FAST (Focused Assessment with Sonography for Trauma).</p>
<b>MS7</b>	<p><b>Skills:</b> The student recognizes and is able to indicate methods of management in traumatic injury to peripheral nerves.</p>
<b>MC1</b>	<p><b>Social Competency:</b> The student is able to make a self-assessment and recognize the limits of his own competences.</p>

## GENERAL SURGERY AND TRAUMATOLOGY

### INTRODUCTORY REQUIREMENTS

[1] Student knows the basics of human anatomy and physiology;

[2] Student knows the basics of general surgery.

### COURSE PROGRAM

### DETAILED DESCRIPTION OF THE TOPIC BLOCKS

<b>LECTURE 1</b>	The influence of the surgical trauma on the organism with elements of fluid and electrolyte balance and the shock reaction.
<b>LECTURE 2</b>	Abdominal surgery - upper floor of the abdominal cavity (part 1).
<b>LECTURE 3</b>	Abdominal surgery - upper floor of the abdominal cavity (part 2).
<b>LECTURE 4</b>	Abdominal surgery - lower floor of the abdominal cavity with the pelvis (part 1).
<b>LECTURE 5</b>	Abdominal surgery - lower floor of the abdominal cavity with the pelvis (part 2).
<b>LECTURE 6</b>	Acute abdomen and gastrointestinal obstruction.
<b>LECTURE 7</b>	The wall of the abdominal cavity and abdominal hernias.
<b>LECTURE 8</b>	Surgery of the heart and great vessels.
<b>LECTURE 9</b>	Thoracic surgery (without heart surgery).
<b>LECTURE 10</b>	Traumatology of the musculoskeletal system - introduction, nomenclature, basics of clinical examination in traumatology of the musculoskeletal system, classification of musculoskeletal injuries, radiological diagnostics in traumatology of the musculoskeletal system, rules of dealing with patients after a musculoskeletal injury. Complications of fractures, dislocations and traumatic soft tissue injuries.
<b>LECTURE 11</b>	Neurotraumatology.
<b>LECTURE 12</b>	Pediatric surgery - birth defects.
<b>CLASS 1</b>	Bed-side teaching: medical history taking and physical examination from the perspective of surgery and trauma.
<b>CLASS 2</b>	Demonstration of patients with specific diseases: of the head and neck, of the chest and upper limbs, of the abdominal cavity, of the pelvis and lower limbs, of the arteries and veins, spine injuries.

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<b>CLASS 3</b>	Practicing at the patient's bedside various procedures depending on the patient's profile: puncture / drainage of the pleural cavity, rectal examination, urinary bladder catheterization, gastric catheterization/lavage, rectal infusion, pneumothorax decompression, pericardial drainage (including tamponade), puncture of the peritoneal cavity, suturing / dressing a simple traumatic wound and removing sutures, local anaesthesia, applying a surgical dressing, dealing with external bleeding, temporary immobilization of a limb, incision and drainage of an abscess, excision of a skin and mucosal tumor and mucosa, excision of a lymph node, needle biopsy, and other available procedures.
<b>CLASS 4</b>	Operating theater, surgical washing, preparation of the operating field; making surgical dressings and performing local anaesthesia.
<b>CLASS 5</b>	Practicing at the patient's bedside: assisting in a typical surgical and / or endoscopic / arthroscopic procedure, using basic surgical instruments; learning surgical suturing.
<b>CLASS 6</b>	Practicing at the bedside: assessment of the unconscious patient's condition and calculation of Glasgow score, recognition of symptoms of increasing intracranial pressure.
<b>CLASS 7</b>	Evaluation of the results of a radiological examination of the most common types of fractures, especially those of long bones. Interpreting the ultrasound image according to FAST (Focused Assessment with Sonography for Trauma).
<b>CLASS 8</b>	Practicing at the patient's bedside: learning to recognize and manage traumatic injury to peripheral nerves.
<b>CLASS 9</b>	Practicing at the patient's bedside: indications for suprapubic puncture and participation in its performance.
<b>CLASS 10</b>	Practicing at the patient's bedside: Monitoring the postoperative period based on basic vital signs.
<b>SEMINAR 1</b>	Endocrine gland surgery.
<b>SEMINAR 2</b>	Breast gland surgery.
<b>SEMINAR 3</b>	Surgical diseases of the anus and anogenital area.
<b>SEMINAR 4</b>	Plastic and reconstructive surgery (without burns).
<b>SEMINAR 5</b>	Surgery of peripheral (arterial and venous) vessels.
<b>SEMINAR 6</b>	Principles of surgical treatment of neoplasms.
<b>SEMINAR 7</b>	Principles of qualification and disqualification for surgery and conversation with the patient, informed consent to treatment, ethical and legal aspects of surgical procedure.
<b>SEMINAR 8</b>	Antibiotic prophylaxis in surgery and surgical site infections.
<b>SEMINAR 9</b>	Nutritional treatment and blood and blood products transfusion.

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<b>SEMINAR 10</b>	Principles of postoperative care and surgical complications.
<b>SEMINAR 11</b>	Burn disease and burn treatment.
<b>SEMINAR 12</b>	Selected emergency surgical procedures (drainage, puncture, coarse and fine needle biopsy, probing of cavernous organs, endoscopic procedures, etc.).
<b>SEMINAR 13</b>	Skin lesions and skin neoplasms, possibly urological surgery.
<b>SEMINAR 14</b>	Pediatric surgery.
<b>SEMINAR 15</b>	Transplantology.
<b>SEMINAR 16</b>	Traumatology of the musculoskeletal system - general principles of subjective and physical examination in organ injuries. Processes of bone and soft tissue healing. Principles of diagnostic imaging.
<b>SEMINAR 17</b>	Fractures and dislocations within the upper limb - diagnosis, classification, inoperative and surgical treatment and postoperative management.
<b>SEMINAR 18</b>	Fractures and dislocations within the lower limb - diagnosis, classification, inoperative and surgical treatment and postoperative management.

### DIDACTIC METHODS (APPLIED)

Lectures;  
Teaching at the bedside;  
Case study;  
Discussion.

### STUDENTS WORKLOAD

<b>NUMBER OF HOURS UNDER SUPERVISION</b>	90 hours
<b>NUMBER OF PREPARATION HOURS</b>	Preparation for classes and seminars: 30 hours Preparation for the exam: 20 hours
<b>TOTAL NUMBER OF HOURS FOR THE COURSE</b>	140 hours

### CLASSES REGULATIONS

- Attendance at lectures and clinical classes (exercises and seminars) is obligatory.
- Compensation for the missed classes is possible only with the prior consent of the teacher:
  - Attendance at all clinical classes must be confirmed by the assistant in the course sheet;
  - Completion of the subject of clinical classes must be confirmed by a positive assessment of the assistant in the course sheet.
- The condition for admission to the exam is passing the classes and/or seminars.

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### CONDITIONS FOR COURSE COMPLETION

- Attendance confirmed by the assistant at all clinical classes;
- Written examination in the form of a test (80 questions);
  - A positive grade for the written exam is a condition for admission to the oral exam (threshold for passing the test - min. 55% correct answers);
- Oral exam (grade from 2 to 5).

### METHODS OF ASSESMENT

<b>IN TERMS OF KNOWLEDGE</b>	Oral questioning, written exam
<b>IN TERMS OF SKILLS</b>	Current observation during classes
<b>IN TERMS OF SOCIAL COMPETENCY</b>	Current observation during classes
<b>FORMATIVE</b>	Oral questioning during classes and seminars
<b>SUMMATIVE (I &amp; II TERMS)</b>	<p><b>I term (EXAM):</b></p> <ul style="list-style-type: none"> <li>• To pass the test exam, a positive grade (i.e. at least 3 [satisfactory]) must be obtained.</li> <li>• To pass the oral exam, a positive grade should be obtained (i.e. at least 3 [satisfactory]).</li> <li>• To pass the entire exam, you must obtain at least 3 [satisfactory] from both components of the exam [i.e. from the test and oral exam].</li> <li>• The final grade for the subject is the arithmetic mean of the grade from the written and oral exam.</li> </ul> <p><b>II term (RETAKE EXAM):</b></p> <ul style="list-style-type: none"> <li>• As for the first appointment.</li> </ul>

### GRADING SCALE

<b>3,0 (SATISFACTORY)</b>	<b>55-65%</b> of the maximum points to be obtained
<b>3,5 (SATISFACTORY PLUS)</b>	<b>66-75%</b> of the maximum points to be obtained
<b>4,0 (GOOD)</b>	<b>76-85%</b> of the maximum points to be obtained
<b>4,5 (GOOD PLUS)</b>	<b>86-90%</b> of the maximum points to be obtained
<b>5,0 (VERY GOOD)</b>	<b>&gt;90%</b> of the maximum points to be obtained

### BASIC LITERATURE

[1] Principles and Practice of Surgery, 7th Edition, Editors: O. James Garden Rowan W Parks, Elsevier, 2017.

### SUPPLEMENTARY LITERATURE

[1] Clinical Surgery, 2nd Edition, Alfred Cuschieri (Editor), Pierce A. Grace (Editor), Ara Darzi (Editor), Neil R. Borley (Editor), David I. Rowley (Editor), ISBN: 978-1-118-34395-1 January 2012 Wiley-Blackwell.