



UNIwersYTET  
Andrzeja Frycza Modrzewskiego  
w Krakowie

## Collegium Medicum Faculty of Medicine

### SUBJECT CARD

Field of studies: Medicine  
Form of studies: Full-time course  
Degree: long-cycle Master's program  
Specializations: No specialization  
Academic year: 2024/2025

GASTROENTEROLOGY I	
<b>SUBJECT NAME</b>	Gastroenterology I
<b>NUMBER OF ECTS POINTS:</b>	6
<b>LANGUAGE OF INSTRUCTION</b>	english
<b>TEACHER(S)</b>	Professor Iwon Gryś, MD, PhD Assoc. Professor Wojciech Wysocki, MD, PhD Piotr Klimeczek, MD, PhD Krzysztof Korneta, MD, PhD Małgorzata Krakowska-Stasiak, MD, PhD Łukasz Wohadło, MD, PhD Bożena Burzyńska, MD Anna Drózdź, MD Łukasz Drzewiecki, MD Angelika Gącik, MD Edyta Iwaniec-Karlikowska, MD Justyna Jagło, MD Katarzyna Dyląg, MD Andrzej Kucia, MD Agata Migas-Majoch, MD Dorota Sadowska, MD Agata Wielgus, MD

## GASTROENTEROLOGY I

### PERSON RESPONSIBLE

Professor Iwon Grys, MD, PhD

### NUMBER OF HOURS:

#### LECTURES:

25 h

#### CLASSES:

50 h

### GENERAL OBJECTIVES

#### OBJECTIVE 1:

Preparing the student to diagnose, treat and prevent diseases of the digestive system in accordance with the applicable standards, as well as shaping ethical attitudes and implementing continuous self-education

#### OBJECTIVE 2:

Shaping the student's ethical attitudes and implementing them into continuous self-education.

### LEARNING OUTCOMES

#### MK1

Knowledge: The student knows and understands the causes, symptoms, principles of diagnosis and therapeutic procedures in relation to the most common internal diseases occurring in adults and children and their complications: diseases of the digestive system, including diseases of the esophagus, stomach and duodenum, intestines.

#### MK2

Knowledge: The student knows the problems of currently used imaging studies, in particular: a) radiological symptomatology of basic diseases, b) instrumental methods and imaging techniques used to perform therapeutic procedures, c) indications, contraindications and preparation of patients for particular types of imaging examinations as well as contraindications to the use of contrast agents.

#### MS1:

Skills: The student uses nutritional treatment (including enteral and parenteral nutrition).

#### MS2:

Skills: The student plans diagnostic, therapeutic and prophylactic procedures.

#### MS3:

Skills: The student keeps the patient's medical records.

### INTRODUCTORY REQUIREMENTS

Knowledge of issues in the field of anatomy, physiology, pathomorphology, pathophysiology, clinical pharmacology and toxicology, basics of imaging and laboratory diagnostics.

### COURSE PROGRAM

### DESCRIPTION

## GASTROENTEROLOGY I

<b>LECTURE 1:</b>	Anatomy and physiology of the digestive tract. The main symptoms of gastrointestinal diseases (abdominal pain, vomiting, diarrhea, constipation, jaundice, ascites).
<b>LECTURE 2:</b>	Esophageal pathology: gastroesophageal reflux, esophagitis, Barrett's esophagus, eosinophilic esophagitis, esophageal neoplasms, esophageal motility disorders, esophageal infections, esophageal diverticula.
<b>LECTURE 3:</b>	Gastric pathology: Helicobacter pylori infections (diagnosis and treatment), gastritis, gastric ulcer (peptic ulcer, Cushing's ulcer, Curling ulcer), Zollinger-Ellison syndrome, gastric cancer, MALT, GIST.
<b>LECTURE 4:</b>	Duodenal pathology: duodenal ulcer, duodenitis, intestinal malabsorption, celiac disease, Duhring's disease, superior mesenteric artery syndrome.
<b>LECTURE 5:</b>	Bleeding from the upper gastrointestinal tract. Diagnostic and therapeutic management.
<b>LECTURE 6:</b>	Dyspepsia. The influence of dietary and environmental factors on the functioning of the digestive tract. Functional disorders of the digestive tract.
<b>LECTURE 7:</b>	Gastroparesis. Digestive tract disorders in systemic diseases.
<b>LECTURE 8:</b>	Diagnostic tests of the upper gastrointestinal tract. Gastroscopy - indications and contraindications. EUS. Elastography.
<b>LECTURE 9:</b>	Pathological symptoms of the upper gastrointestinal tract in children. Gastroesophageal reflux disease and reflux disease in children. Eosinophilic esophagitis in children. Esophageal Achalasia. PEDIATRICS
<b>LECTURE 10:</b>	Bleeding from the upper gastrointestinal tract in children. Functional disorders of the upper gastrointestinal tract in children. Gastritis, duodenitis, H. pylori infection in children. Injuries and foreign bodies of the upper gastrointestinal tract in children. PEDIATRICS
<b>LECTURE 11:</b>	Basics of surgical treatment of gastrointestinal diseases - part I and part II.
<b>CLASS 1</b>	Assessment of symptoms and signs in diseases of the esophagus and stomach. Patient case analysis. Diagnostic and therapeutic algorithms. INTERNA
<b>CLASS 2</b>	Tumors of the upper gastrointestinal tract. Diagnostic and therapeutic management. Patient case analysis. INTERNA

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<b>CLASS 3</b>	Eating disorders - assessment of the degree of malnutrition, the patient's subjective and physical assessment. Analyzing patient cases, conducting nutritional interviews, keeping medical records. Learning to introduce nutritional treatment (including enteral nutrition and parenteral). INTERNA
<b>CLASS 4</b>	Standards of diagnostic and therapeutic procedures in bleeding from the upper gastrointestinal tract. Individual case analysis. INTERNA
<b>CLASS 5</b>	Radiological diagnosis in adults: indications, contraindications, preparation of the patient for the examination, interpretation of the result. Assisting in the following procedures: gastric and duodenal feeding, gastroscopy, EUS, ultrasonography. INTERNA
<b>CLASS 6</b>	Assisting in surgical procedures within the digestive system performed in adults. Care and management of common complications of gastrostomy.
<b>CLASS 7</b>	Acute and chronic diarrhea, food intolerances, eating disorders. PEDIATRICS
<b>CLASS 8</b>	Inflammatory bowel diseases, eosinophilic gastroenteritis in children, gastrointestinal disorders in immunodeficiency in children. PEDIATRICS
<b>CLASS 9</b>	Newborn: necrotizing enterocolitis, parenteral nutrition, gastrointestinal bleeding, feeding disorders, congenital malformations of the gastrointestinal tract. PEDIATRICS
<b>CLASS 10</b>	Imaging studies of the digestive tract in selected diseases in pediatrics. Indications and indications for the use of a specific method. X-ray, USG, EUS, Computed Tomography, MRI, Elastography, Fibroscan). PEDIATRICS
DIDACTIC METHODS (APPLIED)	DESCRIPTION
	Multimedia presentations; Lectures; E-learning methods; Case study.
STUDENTS WORKLOAD:	
<b>CONTACT HOURS WITH THE ACADEMIC TEACHER</b>	75h

## GASTROENTEROLOGY I

<b>HOURS WITHOUT THE PARTICIPATION OF THE ACADEMIC TEACHER</b>	Not applicable.
<b>TOTAL NUMBER OF HOURS FOR THE COURSE</b>	75h

### CONDITIONS FOR COURSE COMPLETION

Attendance at all lectures and classes is obligatory. The condition for admission to the exam is passing the classes. Passing a written exam including 20 structured open questions, assessed on a 0-3 scale.

### METHODS OF ASSESMENT:

<b>IN TERMS OF KNOWLEDGE:</b>	Written exam in open questions, in the second term - oral exam.
<b>IN TERMS OF SKILLS:</b>	Not applicable.
<b>IN TERMS OF SOCIAL COMPETENCE:</b>	Not applicable.
<b>FORMATIVE:</b>	Not applicable.
<b>SUMMATIVE (I &amp; II)</b>	Term I (EXAM): Written exam with open questions. Term II (RETAKE EXAM): Oral exam - 5 open questions. Assessment method - based on the points obtained on the oral exam.

### GRADING SCALE

<b>PREREQUISITE</b>	Passing the practical exam + obtaining 46-48 points on the written exam on open questions.
3,0 (Satisfactory)	Obtaining 46-48 points on the written exam on open questions.
3,5 (Satisfactory plus)	Obtaining 49-51 points on the written exam in open questions.
4,0 (Good)	Obtaining 52-54 points on the written exam in open questions
4,5 (Good plus)	Obtaining 55-57 points on the written exam in open questions.
5,0 (Very Good)	Obtaining 58-60 points on the written exam in open questions.

### BASIC LITERATURE

## GASTROENTEROLOGY I

[1] Norton J.Greenberger; Blumberg R.S; Robert Burakoff, - Gastroenterologia, hepatologia i endoskopia Tom I-II, Lublin, 2011, Czelej;

[2] Andrzej Szczeklik, Piotr Gajewski. Interna. 2020. (rozdział „Choroby przewodu pokarmowego”);

[3] Floch M. H. red. Paradowski L - Gastroenterologia Nettera. Tom1/ 2, Wrocław, 2010, Urban & Partner.

## SUPPLEMENTARY LITERATURE

[1] Fauci Anthony S., Longo Dan L. - Harrison Gastroenterologia i hepatologia Tom 1, Lublin, 2012, Czelej;

[2] Gastroenterologia Praktyczna - Wydawnictwo Czelej Sp. z o.o (red.), Warszawa, 2012.