



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 II	
SUBJECT NAME	Gastroenterology II
NUMBER OF ECTS POINTS:	5
LANGUAGE OF INSTRUCTION	English
TEACHER(S)	Professor Anna Boroń-Kaczmarek, MD, PhD Professor Iwon Gryś, MD, PhD Assoc. Professor Wojciech Wysocki, MD, PhD Piotr Klimeczek, MD, PhD Małgorzata Krakowska-Stasiak, MD, PhD Monika Augustyn, MD Łukasz Drzewiecki, MD Aleksandra Kapała, MD Agata Migas-Majoch, MD Bożena Burzyńska, MD
PERSON RESPONSIBLE	prof. dr hab. n. med. Iwon Gryś
NUMBER OF HOURS:	
LECTURES:	30 h
CLASSES:	60 h
GENERAL OBJECTIVES	

GASTROENTEROLOGY II

OBJECTIVE 1:

Preparation of the student for diagnosis, treatment and prevention of digestive track diseases, digestive glands and bile ducts in accordance with applicable standards.

LEARNING OUTCOMES

MK1

Knowledge: Student knows and understands the causes, symptoms, principles of diagnosis and therapeutic management in relation to the most common internal diseases occurring in adults and their complications: diseases of the digestive system, including diseases of the intestine, pancreas, liver, bile ducts and gallbladder. (E.W07. c.)

MK2

Knowledge: Student knows the issues of contemporary imaging tests, 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 individual types of imaging tests and contraindications for the use of agents contrasting. (F.W10. a-c.)

MS1:

Skills: Student uses nutritional therapy (including enteral and parenteral nutrition). (E.U25.)

MS2:

Skills: Student conducts a medical interview with an adult patient. (E.U01.)

MS3:

Skills: Student conducts a medical interview with the child and his family. (E.U02.)

MS4:

Skills: Student planning diagnostic and therapeutic procedures and preventive. (E.U16.)

MS5:

Skills: Student keeps patient's medical records. (E.U38.)

INTRODUCTORY REQUIREMENTS

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

COURSE PROGRAM

DESCRIPTION

LECTURE 1:

Hepatitis - viral, autoimmune, toxic (drug and alcoholic).

LECTURE 2:

Metabolic diseases of the liver, focal changes in the liver, hepatocellular carcinoma.

LECTURE 3:

Liver cirrhosis - symptomatology, diagnosis and treatment. Complications of liver cirrhosis.

GASTROENTEROLOGY II

LECTURE 4:	Jaundice - diagnosis, classification and treatment. Portal hypertension (pre-, intrahepatic and suprahepatic block). Cholelithiasis. Inflammation of the bile ducts. Bile secretion disorders.
LECTURE 5:	Pancreatic diseases: Acute pancreatitis. Chronic pancreatitis
LECTURE 6:	Pancreatic diseases: Cystic fibrosis. Shwachmann syndrome. Congenital deficiency of enterokinase, lipase, amylase. Pancreatic cysts.
LECTURE 7:	Surgical treatment of liver tumors, cholelithiasis and pancreatic diseases. (Area F) Assoc. Professor Wojciech Wysocki, MD, PhD (1 h)
LECTURE 8:	Surgical principles in bowel diseases together with anus; indications for the emergence of stoma. (Area F) Assoc. Professor Wojciech Wysocki, MD, PhD - 1 h
LECTURE 9:	Diseases and changes in the peritoneum: Aseptic peritonitis. Biliary peritonitis. Lymphadenopathy. Ascites.
LECTURE 10:	Lower gastrointestinal bleeding: intestinal inflammation, juvenile polyps, adenomatous polyps, syndromes with polyposis, Meckel's diverticulum, intestinal duplication, intestinal angiodysplasia. Colon pathology: malformations of the large intestine and rectum, inflammatory bowel disease, disease Hirschsprung, hypoganglionosis of the colon, neural dysplasia of the large intestine, secondary neuro and myopathies, functional disorders of the digestive tract, non-specific diarrhea (toddler's diarrhea), irritable bowel syndrome (colon irritable), constipation. Colorectal cancer.
LECTURE 11:	Clinical basics of pediatric gastroenterology. Stomach tumors in childhood. Neonatal necrotizing enterocolitis. Infantile cholestasis: biliary atresia; biliary cysts; neonatal hepatitis (hepatitis neonatale); Byler's disease, Alagille's syndrome
LECTURE 12:	Acute and chronic diarrhea. Inflammatory bowel diseases, rectal diseases. Bleeding from the digestive tract in children. Surgical treatment of gastrointestinal diseases in children.
CLASS 1	Participation in diagnostic procedures and interpretation of the results of diagnostic tests: X-ray, ultrasound, Participation in the use of surgical endoscopy and manometry techniques. (area F) – 7 h
CLASS 2	Participation in diagnostic procedures and interpretation of contrast test results, computed tomography, spiral tomography, magnetic resonance imaging. (area F) – 7 h

GASTROENTEROLOGY II

CLASS 3	Examination of patients with liver pathology. Diagnostic algorithms in jaundice, hepatitis. Treatment schedule. (area E) – 7 h
CLASS 4	Subjective and objective assessment of the patient with pancreatic pathology. Analysis of clinical cases taking into account diagnostic and therapeutic standards. Participation in therapeutic procedures. (area E) – 7 h
CLASS 5	Standards of diagnostic and therapeutic procedures in bleeding from the lower digestive tract. Case studies. (area E) – 7 h
CLASS 6	Methods for diagnosis, treatment and prevention of the most common cancers of the gastrointestinal tract. Clinical problems of patients with gastrointestinal cancer. (area E) – 7 h
CLASS 7	Acute and chronic diarrhea, food intolerance, eating disorders.
CLASS 8	Inflammatory bowel diseases, eosinophilic gastroenteritis in children, gastrointestinal disorders in immunodeficiency in children.
CLASS 9	Newborn: necrotizing enterocolitis, parenteral nutrition, gastrointestinal bleeding, feeding disorders, congenital malformations of the gastrointestinal tract
CLASS 10	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)
CLASS 11	Assisting surgical procedures in the digestive system, digestive glands and bile ducts. (area F)

DIDACTIC METHODS (APPLIED)

DESCRIPTION

M10	Multimedia presentations
M16	Lectures
M17	Teaching by the patient's bed
M13	Case study

STUDENTS WORKLOAD:

GASTROENTEROLOGY II

CONTACT HOURS WITH THE ACADEMIC TEACHER	90 hours
HOURS WITHOUT THE PARTICIPATION OF THE ACADEMIC TEACHER	Preparation for classes: 30 hours Preparation for the exam: 30 hours
TOTAL NUMBER OF HOURS FOR THE COURSE	150 hours

CONDITIONS FOR COURSE COMPLETION

Attendance at all lectures and classes is obligatory. The condition for admission to the exam is passing the classes. a. Attendance at the classes and preparing for them; b. Practical passing the classes; c. Passing a written exam covering 10 structured open questions covering issues in the field of internal medicine, pediatrics, surgery, radiology and hepatology, evaluated on a scale of 0-3.

METHODS OF ASSESMENT:

IN TERMS OF KNOWLEDGE:	Written test consisting of 10 open questions; on the 2nd date - oral test.
IN TERMS OF SKILLS:	Practical assessment based on the Clinical Skills Card.
IN TERMS OF SOCIAL COMPETENCE:	Activity during classes, observation of behavior towards patients, colleagues, assessment of group work.
FORMATIVE:	Not applicable.
SUMMATIVE (I & II)	I term (EXAM): Date I: Written exam - 10 structured open-ended questions, covering issues in the field of internal medicine, paediatrics and surgery, assessed on a 0-3 scale. II term (RETAKE EXAM): Oral exam - 5 open questions. Assessment method - based on points received at the oral exam.

GRADING SCALE

3,0 (Satisfactory)	obtaining 21-22 points on the written exam from open questions.
3,5 (Satisfactory plus)	obtaining 23-24 points on the written exam from open questions.
4,0 (Good)	obtaining 25-26 points on the written exam from open questions
4,5 (Good plus)	obtaining 27-28 points on the written exam from open questions.
5,0 (Very Good)	obtaining 29-30 points on the written exam from open questions.

GASTROENTEROLOGY II

BASIC LITERATURE

[1] Norton J. Greenberger; Blumberg R.S; Robert Burakoff - Gastroenterologia, hepatologia i endoscopia Tom I-II, Lublin, 2011, Czelej; [2] Gonciarz M. Gonciarz Z. - Kompendium gastroenterologiczne, Warszawa, 2012, Termedia; [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.