



Course: INTERNAL MEDICINE

Course Coordinator: Assoc. Prof. Sanja Klobučar Majanović, MD, PhD

Department: Internal Medicine Clinic and Clinic for Cardiovascular Diseases

Study program: Integrated Undergraduate and Graduate University Study of Medicine in English

Study year: 4th, compulsory

Academic year: 2021/22

SYLLABUS

Course description:

The course INTERNAL MEDICINE is a compulsory course in the fourth year of the Integrated Undergraduate and Graduate University Study of Medicine in English, in I. (winter) semester. It consists of 60 hours of lectures, 90 hours of seminars and 210 hours of practicals, a total of 360 hours (18 ECTS credits). It takes place at the Internal Medicine Clinic and Clinic for Cardiovascular Diseases of Clinical Hospital Center Rijeka.

OBJECTIVES OF THE COURSE: The goal of this course is to acquire theoretical knowledge and practical skills in the field of internal medicine at the level of general medical practice including epidemiology, classification, etiology and pathogenesis, clinical presentation, diagnostics, treatment and prognosis of internal diseases. By the end of this course, students should be able to recognise the signs and symptoms indicating the presence of internal diseases and to apply practical patient management skills including competencies in clinical examination, laboratory and functional tests interpretation, diagnostic and therapeutic decision making. Following successful course completion students will be able to understand the role of invasive diagnostic and interventional procedures in internal medicine. The problem-oriented approach to patient management and the rational use of diagnostic and therapeutic procedures are going to be encouraged.

LEARNING OUTCOMES:

The catalog of knowledge and skills defines the areas and topics in internal medicine that the student should master at the level required for a future general practitioner in primary health care. Certain knowledge and skills should be acquired at the level of general competence, ie. recognizing specific clinical features and raising suspicion of particular disease. In case of practical skills, the catalog defines the procedures that need to be understood on a theoretical level. During the course, student should be present when such procedures are performed, but he/she does not have to be able to perform them alone. This catalog also defines the areas and topics in internal medicine that the student should master at the level of specific competence, meaning that certain clinical syndromes, conditions and diseases are not only to be recognized but also adequately managed relying on principles of evidence-based medicine in making diagnostic and therapeutic decisions. According to the catalog of clinical skills, student should develop particular skills and demonstrate the ability to perform certain clinical procedures alone.

COMPETENCIES that student should acquire:

I. Cognitive domain – knowledge:

1. Name the main areas of internal medicine and within them the basic groups of internal diseases
2. Define the most common internal diseases as unique clinical entities
3. Describe the main symptoms and signs of internal diseases integrating them into specific clinical conditions and syndromes
4. Select the appropriate diagnostic procedures for certain conditions in the field of internal medicine
5. Critically evaluate the results of diagnostic tests in internal medicine
6. Formulate a differential diagnosis based on the clinical features and diagnostic test results
7. Choose principles of evidence-based medicine in making diagnostic and management decisions

8. Demonstrate the ability to construct a treatment plan for the most common internal diseases
9. Demonstrate the ability to predict the course and the possible outcomes of a disease
10. Analyze and evaluate the course of treatment, its efficacy and outcomes

II. Psychomotor domain – skills:

1. Recognize the main symptoms of internal diseases
2. Conduct a focused medical history and targeted physical examination appropriate to the patient's chief complaint(s) and the history of the present internal disease(s)
3. Recognize the relevant signs of internal diseases
4. Formulate and discuss a differential diagnosis
5. Use the differential diagnosis to help guide diagnostic test ordering and its sequence
6. Perform certain diagnostic and therapeutic procedures under the supervision
7. Demonstrate the ability to perform certain clinical procedures alone according to the catalog of clinical skills
8. Formulate an initial therapeutic plan
9. Keep medical records
10. Participate in a team-work, interdisciplinary and multidisciplinary clinical work

GENERAL COURSE CONTENT:

Introduction to clinical medicine. Ethical principles and clinical medicine. Quality of life, lifestyle and health. Biological aspects of internal medicine. Main symptoms and signs of internal diseases. Diagnostic and therapeutic procedures in internal medicine. Intensive medicine. Cardiovascular diseases. Disorders of the respiratory system. Disorders of the kidney and urinary tract. Gastroenterology. Endocrinology, diabetes and metabolic diseases. Hematology. Principles of oncology, malignant diseases in internal medicine. Clinical immunology and rheumatology.

COURSE STRUCTURE:

Classes are organised in the form of 60 hours of lectures, 90 hours of seminars and 210 hours of practicals, a total of 360 hours. Lectures and seminars take place in the Lecture hall Rijeka or Sušak at Clinical Hospital Center Rijeka and in the Lecture hall at Faculty of Medicine according to the schedule. Practicals take place at Clinical Hospital Center Rijeka (Internal Medicine Clinic and Clinic for Cardiovascular Diseases). Practicals are coordinated with the lectures and seminars.

Two midterm written exams (colloquia) will be held during the semester following the theoretical part of the course. The first one covers the topics in gastroenterology, hematology, endocrinology, clinical immunology rheumatology and the second one covers the topics in cardiology, pulmonology and nephrology.

Assigned reading:

Jameson JL et al. Harrison's Principles of Internal Medicine, 20th Edition. McGraw-Hill Education: New York, USA, 2018.

e-edition available at <https://accessmedicine.mhmedical.com/book.aspx?bookid=2129>

Lectures and seminars as original PPT presentations in PDF format will be available for students to download from the Merlin platform, once they are held.

Optional/additional reading:

Stuart H. Ralston, Ian Penman, Mark Strachan & Richard Hobson. Davidson's Principles and Practice of Medicine, 23rd Edition. Elsevier, 2018.

Adam Feather, David Randall & Mona Waterhouse. Kumar and Clark's Clinical Medicine, 10th Edition. Elsevier, 2020.

COURSE TEACHING PLAN:

Lectures:

Lecture topics: Atherosclerosis, Lipid disorders. Ischemic heart disease. Infective endocarditis. Myocarditis, Pericardial heart disease. Heart failure. Pulmonary tuberculosis. Chronic obstructive pulmonary disease. Pneumonia. Diffuse lung diseases. Neoplasms of the lung and pleura. Diagnostic approach to the patient with renal disease. Glomerulonephritis. Nephrotic syndrome. Acute renal failure. Chronic renal failure. Dialysis in the treatment of renal failure. Kidney transplantation. Esophageal disorders. Peptic ulcer disease and Helicobacter pylori. Gastrointestinal bleeding. Inflammatory bowel disease, irritable bowel syndrome. Colon carcinoma, other colon diseases. Acute and chronic pancreatitis. Jaundice and hepatobiliary system disorders. Acute liver failure, liver transplantation. Principles of endocrinology and diagnosis of endocrine disorders. Pituitary diseases. Disorders of calcium homeostasis and metabolic bone diseases. Adrenal and gonadal disorders. Diagnosis and classification of diabetes mellitus, Diabetic complications. Principles of diagnosis and treatment of hematologic diseases. Rheumatoid arthritis.

Seminars:

Seminar topics: Sudden death, Cardiac arrest. Cardiomyopathies. Rheumatic fever. Acute coronary syndrome. Congenital heart disease, acquired valvular heart disease. Cardiac arrhythmias, Cardiac electrical stimulation. Arterial hypertension. Pulmonary hypertension, Pulmonary heart disease. Acute respiratory insufficiency: causes and treatment. Asthma. Chronic respiratory insufficiency: causes and treatment. Pleural diseases. Sleep apnea, Pulmonary function tests. Bronchiectasis, Atypical mycobacteriosis. Pulmonary manifestation of extra-pulmonary diseases. Diabetic kidney disease. Arterial hypertension and vascular kidney disease. Less common kidney diseases, Drug dosing in renal failure. The kidney in systemic diseases, Infections of the urinary system. Cardiorenal syndrome. Renal anemia, Mineral metabolism disorders in kidney disease. Education of patients with chronic kidney disease. Imaging methods in gastroenterology. Therapeutic endoscopy. Emergencies in gastroenterology - infections and sepsis originating from the abdomen. Small intestine diseases. Liver cirrhosis and its complications. Chronic hepatitis / Chronic diffuse liver disease. Tumors of the digestive organs. Interpretation of laboratory findings in GE. Enteral /parenteral nutrition of a critically ill GE patient. Thyroid disorders. Management of diabetes, Obesity. Interpretation of laboratory tests in hematology. Anemias. Lymphoma. Chronic lymphoproliferative diseases and plasma cell diseases. Myelodysplastic syndrome and acute leukemia. Chronic myeloproliferative diseases. Disorders of hemostasis. Classification and diagnosis of rheumatic diseases. Spondyloarthritides. Systemic connective tissue diseases. Systemic lupus and antiphospholipid syndrome. Vasculitis syndromes.

Each seminar consists of two teaching hours. In the first part, the teaching material is presented in accordance with the topic of the seminar, and the second part consists of interactive clinical case scenarios with problem-oriented discussion.

Practicals:

The practical teaching sessions are held in small groups at 2 sites of the Internal Medicine Clinic of the Clinical Hospital Centre Rijeka (locality Rijeka and locality Sušak). Each group of students will be rotated according to the course schedule changing departments and teachers in order to cover all major fields of internal medicine (Cardiology, Pulmonology, Nephrology, Gastroenterology, Hematology, Endocrinology, Clinical Immunology and Rheumatology) and get the opportunity to encounter patients with different internal diseases.

Students' obligations:

Students are required to attend classes regularly and to actively participate in all forms of teaching. They are required to participate in all forms of knowledge and practical skills assessment. Ethical student behavior is encouraged in accordance with Codes of Ethical Student Conduct.

Student assessment:

Student assessment is carried out in accordance with the current University of Rijeka Study Regulations and the Student Regulations at the Faculty of Medicine Rijeka (adopted by the Faculty Council of the Faculty of Medicine Rijeka).

Students' performance will be evaluated during the class and at the final exam. Out of a total of 100 credits, a student can earn a maximum of 60 credits during the class by taking two midterm written exams (colloquia), and a maximum of 40 credits at the final practical/oral exam.

Assessment during the class:

Two midterm written exams (colloquia) will be held during the semester following the theoretical part of the course. The first midterm written exam covers the topics in gastroenterology, hematology, endocrinology, clinical immunology and rheumatology and the second one covers the topics in cardiology, pulmonology and nephrology. Each of the midterm written exams consists of 60 multiple choice questions. The student has passed the written exam if he/she answers at least 50% of the questions correctly.

The sum of the correct answers in two written colloquia (each containing 60 questions) is divided by the number 2, if result is not a whole number it should be rounded up to the next higher whole number (eg. $120:2=60$ or $113:2=56,5$ ie. 57 credits). The possible satisfactory range of credits the student can earn during the class by taking two midterm written exams is 30-60 credits. It is considered that the student has passed both colloquia and fulfilled a prerequisite for taking the final exam with a minimum of 50% correct answers ie. if he/she has gained at least 30 credits in total. For students who failed or could not attend the written exam for justifiable reasons (medical certificate should be provided), additional written exam will be organised after the course end.

Final oral/practical exam:

40% of the final grade the student can earn at the final oral/practical exam, which consists of theoretical knowledge and practical competency assessment covering the entire teaching material presented during the course including the clinical examination of a patient. Students must be able to take patient history in Croatian. Examiner is not obligated to provide English speaking patient for the practical part of the exam.

Final exam is scored up to a maximum of 40 credits as follows:

Excellent knowledge (5) - 40 credits

Very good knowledge (4) - 34 credits

Good knowledge (3) - 27 credits

Satisfactory knowledge (2) - 20 credits

The final grade is the sum of credits obtained during the class and at the final exam, and is expressed by the corresponding percentage, the letter of the alphabet, and a numerical grade (eg. $60+40=100$ or 100%, A, excellent 5).

The ECTS grading system is defined by the following criteria:

A (5) – 90 -100% credits

B (4) – 75 - 89,9% credits

C (3) – 60 - 74,9% credits

D (2) – 50 - 59,9% credits

F (1) – 0 - 49,9% credits

Other important information regarding to the course:

All additional and more detailed information can be obtained continuously during classes from the course coordinator and all teachers and associates, by personal contact or via e-mail (the e-mail addresses of all members of the Department of Internal Medicine can be found on the Faculty's website).

Any irregularities in the teaching process must be reported immediately to the course coordinator, either through the official student email or through personal contact by the students or their authorized representatives. In such cases, the course coordinator guarantees the protection (confidentiality) of the student's identity.

Due to the implementation of anti-epidemic measures, classes will be held in a combined form in accordance with the recommendations of the University of Rijeka and the Faculty of Medicine Rijeka. Lectures and seminars will be held online as MS Teams webinars in real time (live) for all students of the course, and clinical practicals will be held at the Internal Medicine Clinic and Clinic for Cardiovascular Diseases of Clinical Hospital Center Rijeka (on-site), with the physical presence of students and teaching assistants. Proper wearing of personal protective equipment (PPE) and adherence to other protective measures during clinical practicals are mandatory. PPE will be provided by the Faculty of Medicine Rijeka.

COURSE SCHEDULE (for academic year 2021/2022)

Date	Lectures (time)	Seminars (time)	Practicals (time and location)	Lecturer
4.10.2021.	L1-2 (8,15-9,45)			Assoc. Prof. G. Hauser, MD, PhD
	L3-4 (10,00-11,30)			Prof. D. Štimac, MD, PhD
		S1-2 (12,30-14,00)		Assist. Prof. A. Čubranić, MD, PhD
		S3-4 (14,15-15,45)		Assoc. Prof. G. Hauser, MD, PhD
5.10.2021.	L5-6 (8,15-9,45)			Assoc. Prof. G. Hauser, MD, PhD
	L7-8 (10,00-11,30)			Prof. B. Mijandrušić Sinčić, MD, PhD
		S5-6 (12,30-14,00)		Assist. Prof. V. Licul, MD, PhD
		S7-8 (14,15-15,45)		Prof. B. Mijandrušić Sinčić, MD, PhD
6.10.2021.	L9-10 (8,15-9,45)			Prof. R. Dobrila Dintinjana, MD, PhD
	L11-12 (10,00-11,30)			Assist. Prof. G. Poropat, MD, PhD
		S9-10 (12,30-14,00)		Prof. S. Milić, MD, PhD
		S11-12 (14,15-15,45)		Assist. Prof. I. Mikolašević, MD, PhD
7.10.2021.	L13-14 (8,15-9,45)			Prof. S. Milić, MD, PhD
	L15-16 (10,00-11,30)			Assist. Prof. I. Mikolašević, MD, PhD
		S13-14 (12,30-14,00)		Prof. R. Dobrila Dintinjana, MD, PhD
		S15-16 (14,15-15,45)		Prof. D. Štimac, MD, PhD
8.10.2021.	L17-18 (8,15-9,45)			Assoc. Prof. S. Klobučar Majanović, MD, PhD
	L19-20 (10,00-11,30)			Assoc. Prof. S. Klobučar Majanović, MD, PhD
		S17-18 (12,30-14,00)		Prof. B. Mijandrušić Sinčić, MD, PhD
11.10.2021	L21-22 (8,15-9,45)			Assist. Prof. T. Turk Wensween, MD, PhD
	L23-24 (10,00-11,30)			Prof. D. Jurišić Eržen, MD, PhD
	L25-26 (12,30-14,00)			Assoc. Prof. S. Klobučar Majanović, MD, PhD
		S19-20 (14,15-15,45)		Assoc. Prof. S. Klobučar Majanović, MD, PhD
12.10.2021	L27-28 (8,15-9,45)			Prof. T. Valković, MD, PhD
		S21-22 (10,00-11,30)		Assoc. Prof. S. Klobučar Majanović, MD, PhD
		S23-24 (12,30-14,00)		Prof. T. Valković, MD, PhD
		S25-26 (14,15-15,45)		Assist. Prof. D. Petranović, MD, PhD
13.10.2021		S27-28 (8,15-9,45)		N. Franjić, MD, PhD

		S29-30 (10,00-11,30)	Prof. T. Valković, MD, PhD
		S31-32 (12,30-14,00)	Assist. Prof. D. Petranović, MD, PhD
14.10.2021	L29-30 (8,15-9,45)		Prof. S. Novak, MD, PhD
		S33-34 (10,00-11,30)	Assist. Prof. D. Petranović, MD, PhD
		S35-36 (12,30-14,00)	N. Franjić, MD, PhD
		S37-38 (14,15-15,45)	Prof. S. Novak, MD, PhD
15.10.2021		S39-40 (8,15-9,45)	Prof. S. Novak, MD, PhD
		S41-42 (10,00-11,30)	T. Zekić, MD
		S43-44 (12,30-14,00)	Prof. S. Novak, MD, PhD
		S45-46 (14,15-15,45)	T. Zekić, MD
18.10.2021	L31-32 (8,15-9,45)		Prof. L. Zaputović, MD, PhD
	L33-34 (10,00-11,30)		Prof. L. Zaputović, MD, PhD
		S47-48 (12,30-14,00)	Prof. A. Ružić, MD, PhD
		S49-50 (14,15-15,45)	Prof. L. Zaputović, MD, PhD
19.10.2021	L35-36 (8,15-9,45)		Prof. L. Zaputović, MD, PhD
	L37-38 (10,00-11,30)		Prof. L. Zaputović, MD, PhD
		S51-52 (12,30-14,00)	Assist. Prof. T. Zaninović Jurjević, MD, PhD
		S53-54 (14,15-15,45)	Prof. L. Zaputović, MD, PhD
22.10.2021	L39-40 (8,15-9,45)		Prof. L. Zaputović, MD, PhD
		S55-56 (10,00-11,30)	Prof. A. Ružić, MD, PhD
		S57-58 (12,30-14,00)	Assist. Prof. Z. Čubranić, MD, PhD
		S59-60 (14,15-15,45)	Prof. L. Zaputović, MD, PhD
25.10.2021	L41-42 (8,15-9,45)		Assist. Prof. I. Barković, MD, PhD
	L43-44 (10,00-11,30)		Assist. Prof. I. Barković, MD, PhD
	L45-46 (12,30-14,00)		Assist. Prof. S. Pleština, MD, PhD
		S61-62 (14,15-15,45)	Prof. A. Ružić, MD, PhD
26.10.2021	L47-48 (8,15-9,45)		Assist. Prof. I. Barković, MD, PhD
	L49-50 (10,00-11,30)		Assist. Prof. S. Pleština, MD, PhD
		S63-64 (12,30-14,00)	Assist. Prof. I. Barković, MD, PhD

		S65-66 (14,15-15,45)		V. Prica, MD
29.10.2021		S67-68 (8,15-9,45)		Assist. Prof. S. Pleština, MD, PhD
		S69-70 (10,00-11,30)		Assist. Prof. I. Barković, MD, PhD
		S71-72 (12,30-14,00)		Assist. Prof. I. Barković, MD, PhD
		S73-74 (14,15-15,45)		V. Prica, MD
2.11.2021	L51-52 (8,15-9,45)			Assoc. Prof. L. Orlić, MD, PhD
	L53-54 (10,00-11,30)			Assoc. Prof. L. Orlić, MD, PhD
	L55-56 (12,30-14,00)			Prof. S. Rački, MD, PhD
		S75-76 (14,15-15,45)		M. Šestić Krneta, MD
3.11.2021	L57-58 (8,15-9,45)			Prof. S. Rački, MD, PhD
	L59-60 (10,00-11,30)			Prof. S. Rački, MD, PhD
		S77-78 (12,30-14,00)		Assoc. Prof. I. Bubić, MD, PhD
		S79-80 (14,15-15,45)		Prof. S. Rački, MD, PhD
8.11.2021.		S81-82 (8,15-9,45)		Assoc. Prof. L. Orlić, MD, PhD
		S83-84 (10,00-11,30)		Assoc. Prof. I. Bubić, MD, PhD
		S85-86 (12,30-14,00)		Prof. S. Rački, MD, PhD
9.11.2021.		S87-88 (8,15-9,45)		Assoc. Prof. L. Orlić, MD, PhD
		S89-90 (10,00-11,30)		B. Vujičić, MD, PhD
22.11.2021			P1-5 A (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	Assist. Prof. G. Poropat, MD, PhD
			P1-5 B (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	Assist. Prof. V. Licul, MD, PhD
			P1-5 C (13,00-16,45) Internal Medicine Clinic Department of Hematology	I. Budisavljević, MD
			P1-5 D (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assist. Prof. T. Turk Wensveen, MD, PhD
23.11.2021			P6-10 A (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	Assist. Prof. G. Poropat, MD, PhD
			P6-10 B (13,00-16,45) Internal Medicine Clinic Department of	Assist. Prof. V. Licul, MD, PhD

			Gastroenterology	
			P6-10 C (13,00-16,45) Internal Medicine Clinic Department of Hematology	I. Budisavljević, MD
			P6-10 D (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assist. Prof. T. Turk Wensveen, MD, PhD
24.11.2021			P11-15 A (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	Assist. Prof. G. Poropat, MD, PhD
			P11-15 B (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	Assist. Prof. V. Licul, MD, PhD
			P11-15 C (13,00-16,45) Internal Medicine Clinic Department of Hematology	I. Budisavljević, MD
			P11-15 D (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assist. Prof. T. Turk Wensveen, MD, PhD
25.11.2021			P16-20 A (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	Assist. Prof. G. Poropat, MD, PhD
			P16-20 B (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	Assist. Prof. V. Licul, MD, PhD
			P16-20 C (13,00-16,45) Internal Medicine Clinic Department of Hematology	I. Budisavljević, MD
			P16-20 D (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assist. Prof. T. Turk Wensveen, MD, PhD
26.11.2021			P21-25 A (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	Assist. Prof. G. Poropat, MD, PhD
			P21-25 B (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	Assist. Prof. V. Licul, MD, PhD
			P21-25 C (13,00-16,45) Internal Medicine Clinic Department of Hematology	I. Budisavljević, MD
			P21-25 D (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assist. Prof. T. Turk Wensveen, MD, PhD
29.11.2021			P26-30 A (13,00-16,45) Internal Medicine Clinic	Assist. Prof. G. Poropat, MD, PhD

			Department of Gastroenterology	
			P26-30 B (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	Assist. Prof. V. Licul, MD, PhD
			P26-30 C (13,00-16,45) Internal Medicine Clinic Department of Hematology	I. Budisavljević, MD
			P26-30 D (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assist. Prof. T. Turk Wensveen, MD, PhD
30.11.2021			P31-35 A (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	Assist. Prof. G. Poropat, MD, PhD
			P31-35 B (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	Assist. Prof. V. Licul, MD, PhD
			P31-35 C (13,00-16,45) Internal Medicine Clinic Department of Hematology	I. Budisavljević, MDN.
			P31-35 D (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assist. Prof. T. Turk Wensveen, MD, PhD
1.12.2021.			P36-40 A (13,00-16,45) Internal Medicine Clinic Department of Hematology	Franjić, MD, PhD
			P36-40 B (13,00-16,45) Internal Medicine Clinic Department of Hematology	M. Stanić Damić, MD
			P36-40 C (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	M. Troskot Dijan, MD
			P36-40 D (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	A. Radovan, MD
2.12.2021.			P41-45 A (13,00-16,45) Internal Medicine Clinic Department of Hematology	Franjić, MD, PhD
			P41-45 B (13,00-16,45) Internal Medicine Clinic Department of Hematology	M. Stanić Damić, MD
			P41-45 C (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	M. Troskot Dijan, MD
			P41-45 D (13,00-16,45)	A. Radovan, MD

			Internal Medicine Clinic Department of Gastroenterology	
3.12.2021.			P46-50 A (13,00-16,45) Internal Medicine Clinic Department of Hematology	Franjić, MD, PhD
			P46-50 B (13,00-16,45) Internal Medicine Clinic Department of Hematology	M. Stanić Damić, MD
			P46-50 C (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	M. Troškot Dijan, MD
			P46-50 D (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	A. Radovan, MD
6.12.2021.			P51-55 A (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	Franjić, MD, PhD
			P51-55 B (13,00-16,45) Internal Medicine Clinic Department of Hematology	M. Stanić Damić, MD
			P51-55 C (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	M. Troškot Dijan, MD
			P51-55 D (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	A. Radovan, MD
7.12.2021.			P56-60 A (13,00-16,45) Internal Medicine Clinic Department of Hematology	Franjić, MD, PhD
			P56-60 B (13,00-16,45) Internal Medicine Clinic Department of Hematology	M. Stanić Damić, MD
			P56-60 C (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	M. Troškot Dijan, MD
			P56-60 D (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	A. Radovan, MD
8.12.2021.			P61-65 A (13,00-16,45) Internal Medicine Clinic Department of Hematology	Franjić, MD, PhD
			P61-65 B (13,00-16,45) Internal Medicine Clinic Department of Hematology	M. Stanić Damić, MD

			P61-65 C (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	M. Troskot Dijan, MD
			P61-65 D (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	A. Radovan, MD
9.12.2021.			P66-70 A (13,00-16,45) Internal Medicine Clinic Department of Hematology	Franjić, MD, PhD
			P66-70 B (13,00-16,45) Internal Medicine Clinic Department of Hematology	M. Stanić Damić, MD
			P66-70 C (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	M. Troskot Dijan, MD
			P66-70 D (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	A. Radovan, MD
10.12.2021			P71-75 A (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assoc. Prof. S. Klobučar Majanović, MD, PhD
			P71-75 B (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	N. Poropat, MD
			P71-75 C (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	L. Vranić, MD
			P71-75 D (13,00-16,45) Internal Medicine Clinic Department of Hematology	A. Grubešić, MD
13.12.2021			P76-80 A (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assoc. Prof. S. Klobučar Majanović, MD, PhD
			P76-80 B (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	N. Poropat, MD
			P76-80 C (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	L. Vranić, MD
			P76-80 D (13,00-16,45) Internal Medicine Clinic Department of Hematology	A. Grubešić, MD
14.12.2021			P81-85 A (13,00-16,45) Internal Medicine Clinic Department of	Assoc. Prof. S. Klobučar Majanović, MD, PhD

			Endocrinology	
			P81-85 B (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	N. Poropat, MD
			P81-85 C (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	L. Vranić, MD
			P81-85 D (13,00-16,45) Internal Medicine Clinic Department of Hematology	A. Grubešić, MD
15.12.2021			P86-90 A (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assoc. Prof. S. Klobučar Majanović, MD, PhD
			P86-90 B (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	N. Poropat, MD
			P86-90 C (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	L. Vranić, MD
			P86-90 D (13,00-16,45) Internal Medicine Clinic Department of Hematology	A. Grubešić, MD
16.12.2021			P91-95 A (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assoc. Prof. S. Klobučar Majanović, MD, PhD
			P91-95 B (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	N. Poropat, MD
			P91-95 C (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	L. Vranić, MD
			P91-95 D (13,00-16,45) Internal Medicine Clinic Department of Hematology	A. Grubešić, MD
17.12.2021			P96-100 A (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assoc. Prof. S. Klobučar Majanović, MD, PhD
			P96-100 B (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	N. Poropat, MD
			P96-100 C (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	L. Vranić, MD
			P96-100 D (13,00-16,45) Internal Medicine Clinic	A. Grubešić, MD

			Department of Hematology	
20.12.2021			P101-105 A (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assoc. Prof. S. Klobučar Majanović, MD, PhD
			P101-105 B (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	N. Poropat, MD
			P101-105 C (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	L. Vranić, MD
			P101-105 D (13,00-16,45) Internal Medicine Clinic Department of Hematology	A. Grubešić, MD
17.01.2022	SUŠAK		P106-110 A (13,00-16,45) Clinic for Cardiovascular Diseases	Assist. Prof. T. Zaninović Jurjević, MD, PhD
			P106-110 B (13,00-16,45) Clinic for Cardiovascular Diseases	Assist. Prof. S. Brusich, MD, PhD
			P106-110 C (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	Assist. Prof. I. Barković, MD, PhD
			P106-110 D (13,00-16,45) Internal Medicine Clinic Department of Nephrology/Immunology	Assoc. Prof. I. Bubić, MD, PhD
18.01.2022			P111-115 A (13,00-16,45) Clinic for Cardiovascular Diseases	Assist. Prof. T. Zaninović Jurjević, MD, PhD
			P111-115 B (13,00-16,45) Clinic for Cardiovascular Diseases	Assist. Prof. S. Brusich, MD, PhD
			P111-115 C (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	Assist. Prof. I. Barković, MD, PhD
			P111-115 D (13,00-16,45) Internal Medicine Clinic Department of Nephrology/Immunology	Assoc. Prof. I. Bubić, MD, PhD
19.01.2022			P116-120 A (13,00-16,45) Clinic for Cardiovascular Diseases	Assist. Prof. T. Zaninović Jurjević, MD, PhD
			P116-120 B (13,00-16,45) Clinic for Cardiovascular Diseases	Assist. Prof. S. Brusich, MD, PhD
			P116-120 C (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	Assist. Prof. I. Barković, MD, PhD
			P116-120 D (13,00-16,45) Internal Medicine Clinic Department of	Assoc. Prof. I. Bubić, MD, PhD

			Nephrology/Immunology	
20.01.2022			P121-125 A (13,00-16,45) Clinic for Cardiovascular Diseases	Assist. Prof. T. Zaninović Jurjević, MD, PhD
			P121-125 B (13,00-16,45) Clinic for Cardiovascular Diseases	Assist. Prof. S. Brusich, MD, PhD
			P121-125 C (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	Assist. Prof. I. Barković, MD, PhD
			P121-125 C1 (13,00-16,45) Internal Medicine Clinic Department of Nephrology/Immunology	Assoc. Prof. I. Bubić, MD, PhD
21.01.2021			P126-130 A (13,00-16,45) Clinic for Cardiovascular Diseases	Assist. Prof. T. Zaninović Jurjević, MD, PhD
			P126-130 B (13,00-16,45) Clinic for Cardiovascular Diseases	Assist. Prof. S. Brusich, MD, PhD
			P126-130 C (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	Assist. Prof. I. Barković, MD, PhD
			P126-130 D (13,00-16,45) Internal Medicine Clinic Department of Nephrology/Immunology	Assoc. Prof. I. Bubić, MD, PhD
24.01.2021			P131-135 A (13,00-16,45) Clinic for Cardiovascular Diseases	Assist. Prof. T. Zaninović Jurjević, MD, PhD
			P131-135 B (13,00-16,45) Clinic for Cardiovascular Diseases	Assist. Prof. S. Brusich, MD, PhD
			P131-135 C (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	Assist. Prof. I. Barković, MD, PhD
			P131-135 D (13,00-16,45) Internal Medicine Clinic Department of Nephrology/Immunology	Assoc. Prof. I. Bubić, MD, PhD
25.01.2022			P136-140 A (13,00-16,45) Clinic for Cardiovascular Diseases	Assist. Prof. T. Zaninović Jurjević, MD, PhD
			P136-140 B (13,00-16,45) Clinic for Cardiovascular Diseases	Assist. Prof. S. Brusich, MD, PhD
			P136-140 C (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	Assist. Prof. I. Barković, MD, PhD
			P136-140 D (13,00-16,45) Internal Medicine Clinic Department of Nephrology/Immunology	Assoc. Prof. I. Bubić, MD, PhD
26.01.2022			P141-145 A (13,00-16,45) Internal Medicine Clinic	H. Smokrović, MD

			Department of Pulmonology	
			P141-145 B (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	V. Prica, MD
			P141-145 C (13,00-16,45) Internal Medicine Clinic Department of Nephrology/Immunology	Assoc. Prof. S. Živčić Ćosić, MD, PhD
			P141-145 D (13,00-16,45) Clinic for Cardiovascular Diseases	E. Avdović, MD
27.01.2022			P146-150 A (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	H. Smokrović, MD
			P146-150 B (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	V. Prica, MD
			P146-150 C (13,00-16,45) Internal Medicine Clinic Department of Nephrology/Immunology	Assoc. Prof. S. Živčić Ćosić, MD, PhD
			P146-150 D (13,00-16,45) Clinic for Cardiovascular Diseases	E. Avdović, MD
28.01.2022			P151-155 A (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	H. Smokrović, MD
			P151-155 B (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	V. Prica, MD
			P151-155 C (13,00-16,45) Internal Medicine Clinic Department of Nephrology/Immunology	Assoc. Prof. S. Živčić Ćosić, MD, PhD
			P151-155 D (13,00-16,45) Clinic for Cardiovascular Diseases	E. Avdović, MD
31.01.2022			P156-160 A (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	H. Smokrović, MD
			P156-160 B (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	V. Prica, MD
			P156-160 C (13,00-16,45) Internal Medicine Clinic Department of Nephrology	Assoc. Prof. S. Živčić Ćosić, MD, PhD
			P156-160 D (13,00-16,45) Clinic for Cardiovascular Diseases	E. Avdović, MD
01.02.2022			P161-165 A (13,00-16,45) Internal Medicine Clinic	H. Smokrović, MD

			Department of Pulmonology	
			P161-165 B (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	V. Prica, MD
			P161-165 C (13,00-16,45) Internal Medicine Clinic Department of Nephrology/Immunology	Assoc. Prof. S. Živčić Ćosić, MD, PhD
			P161-165 D (13,00-16,45) Clinic for Cardiovascular Diseases	E. Avdović, MD
02.02.2022			P166-170 A (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	H. Smokrović, MD
			P166-170 B (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	V. Prica, MD
			P166-170 C (13,00-16,45) Internal Medicine Clinic Department of Nephrology/Immunology	Assoc. Prof. S. Živčić Ćosić, MD, PhD
			P166-170 D (13,00-16,45) Clinic for Cardiovascular Diseases	E. Avdović, MD
03.02.2022			P171-175 A (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	H. Smokrović, MD
			P171-175 B (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	V. Prica, MD
			P171-175 C (13,00-16,45) Internal Medicine Clinic Department of Nephrology/Immunology	Assoc. Prof. S. Živčić Ćosić, MD, PhD
			P171-175 D (13,00-16,45) Clinic for Cardiovascular Diseases	E. Avdović, MD
04.02.2022			P176-180 A (13,00-16,45) Internal Medicine Clinic Department of Nephrology/Immunology	B. Vujičić, MD, PhD
			P176-180 B (13,00-16,45) Internal Medicine Clinic Department of Nephrology/Immunology	T. Zekić, MD
			P176-180 C (13,00-16,45) Clinic for Cardiovascular Diseases	D. Lulić, MD
			P176-180 D (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	M. Ćurić, MD
7.02.2022.			P181-185 A (13,00-16,45)	B. Vujičić, MD, PhD

			Internal Medicine Clinic Department of Nephrology/Immunology	
			P181-185 B (13,00-16,45) Internal Medicine Clinic Department of Nephrology/Immunology	T. Zekić, MD
			P181-185 C (13,00-16,45) Clinic for Cardiovascular Diseases	D. Lulić, MD
			P181-185 D (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	M. Ćurić, MD
8.02.2022.			P186-190 A (13,00-16,45) Internal Medicine Clinic Department of Nephrology/Immunology	B. Vujičić, MD, PhD
			P186-190 B (13,00-16,45) Internal Medicine Clinic Department of Nephrology/Immunology	T. Zekić, MD
			P186-190 C (13,00-16,45) Clinic for Cardiovascular Diseases	D. Lulić, MD
			P186-190 D (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	M. Ćurić, MD
9.02.2022.			P191-195 A (13,00-16,45) Internal Medicine Clinic Department of Nephrology/Immunology	B. Vujičić, MD, PhD
			P191-195 B (13,00-16,45) Internal Medicine Clinic Department of Nephrology/Immunology	T. Zekić, MD
			P191-195 C (13,00-16,45) Clinic for Cardiovascular Diseases	D. Lulić, MD
			P191-195 D (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	M. Ćurić, MD
10.02.2022			P196-200 A (13,00-16,45) Internal Medicine Clinic Department of Nephrology/Immunology	B. Vujičić, MD, PhD
			P196-200 B (13,00-16,45) Internal Medicine Clinic Department of Nephrology/Immunology	T. Zekić, MD
			P196-200 C (13,00-16,45) Clinic for Cardiovascular Diseases	D. Lulić, MD
			P196-200 D (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	M. Ćurić, MD

11.02.2022			P201-205 A (13,00-16,45) Internal Medicine Clinic Department of Nephrology/Immunology	B. Vujičić, MD, PhD
			P201-205 B (13,00-16,45) Internal Medicine Clinic Department of Nephrology/Immunology	T. Zekić, MD
			P201-205 C (13,00-16,45) Clinic for Cardiovascular Diseases	D. Lulić, MD
			P201-205 D (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	M. Ćurić, MD
14.02.2022			P206-210 A (13,00-16,45) Internal Medicine Clinic Department of Nephrology/Immunology	B. Vujičić, MD, PhD
			P206-210 B (13,00-16,45) Internal Medicine Clinic Department of Nephrology/Immunology	T. Zekić, MD
			P206-210 C (13,00-16,45) Clinic for Cardiovascular Diseases	D. Lulić, MD
			P206-210 D (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	M. Ćurić, MD

List of lectures and seminars:

	LECTURES (topics)	Teaching hours	Location
L1-2	Esophageal disorders	2	On-line webinar (MS Teams)
L3-4	Peptic ulcer disease and Helicobacter pylori	2	On-line webinar (MS Teams)
L5-6	Gastrointestinal bleeding	2	On-line webinar (MS Teams)
L7-8	Inflammatory bowel disease, irritable bowel syndrome	2	On-line webinar (MS Teams)
L9-10	Colon carcinoma, other colon diseases	2	On-line webinar (MS Teams)
L11-12	Acute and chronic pancreatitis	2	On-line webinar (MS Teams)
L13-14	Jaundice and hepatobiliary system disorders	2	On-line webinar (MS Teams)
L15-16	Acute liver failure, liver transplantation	2	On-line webinar (MS Teams)
L17-18	Principles of endocrinology and diagnosis of endocrine disorders	2	On-line webinar (MS Teams)
L19-20	Pituitary diseases	2	On-line webinar (MS Teams)
L21-22	Adrenal and gonadal disorders	2	On-line webinar (MS Teams)
L23-24	Disorders of calcium homeostasis and metabolic bone diseases	2	On-line webinar (MS Teams)
L25-26	Diagnosis and classification of diabetes mellitus, Diabetic complications	2	On-line webinar (MS Teams)
L27-28	Principles of diagnosis and treatment of hematologic diseases	2	On-line webinar (MS Teams)
L29-30	Rheumatoid arthritis	2	On-line webinar (MS Teams)
L31-32	Atherosclerosis, Lipid disorders	2	On-line webinar (MS Teams)
L33-34	Ischemic heart disease	2	On-line webinar (MS Teams)
L35-36	Infective endocarditis	2	On-line webinar (MS Teams)
L37-38	Myocarditis, Pericardial heart disease	2	On-line webinar (MS Teams)
L39-40	Heart failure	2	On-line webinar (MS Teams)
L41-42	Pulmonary tuberculosis	2	On-line webinar (MS Teams)
L43-44	Chronic obstructive pulmonary disease	2	On-line webinar (MS Teams)
L45-46	Pneumonia	2	On-line webinar (MS Teams)
L47-48	Diffuse lung diseases	2	On-line webinar (MS Teams)
L49-50	Neoplasms of the lung and pleura	2	On-line webinar (MS Teams)
L51-52	Diagnostic approach to the patient with renal disease	2	On-line webinar (MS Teams)
L53-54	Glomerulonephritis, Nephrotic syndrome	2	On-line webinar (MS Teams)
L55-56	Acute renal failure, Chronic renal failure	2	On-line webinar (MS Teams)
L57-58	Dialysis in the treatment of renal failure	2	On-line webinar (MS Teams)
L59-60	Kidney transplantation	2	On-line webinar (MS Teams)
	Total lecture hours	60	

	SEMINARS (topics)	Teaching hours	Location
S1-2	Imaging methods in gastroenterology	2	On-line webinar (MS Teams)
S3-4	Therapeutic endoscopy	2	On-line webinar (MS Teams)
S5-6	Emergencies in gastroenterology - infections and sepsis originating from the abdomen	2	On-line webinar (MS Teams)
S7-8	Small intestine diseases	2	On-line webinar (MS Teams)
S9-10	Liver cirrhosis and its complications	2	On-line webinar (MS Teams)
S11-12	Chronic hepatitis / Chronic diffuse liver disease	2	On-line webinar (MS Teams)
S13-14	Tumors of the digestive organs	2	On-line webinar (MS Teams)
S15-16	Interpretation of laboratory findings in GE	2	On-line webinar (MS Teams)
S17-18	Enteral / parenteral nutrition of a critically ill GE patient	2	On-line webinar (MS Teams)
S19-20	Management of diabetes, Obesity	2	On-line webinar (MS Teams)
S21-22	Thyroid disorders	2	On-line webinar (MS Teams)
S23-24	Interpretation of laboratory tests in hematology	2	On-line webinar (MS Teams)
S25-26	Anemias	2	On-line webinar (MS Teams)
S27-28	Lymphoma	2	On-line webinar (MS Teams)
S29-30	Chronic lymphoproliferative diseases and plasma cell diseases	2	On-line webinar (MS Teams)
S31-32	Myelodysplastic syndrome and acute leukemia	2	On-line webinar (MS Teams)
S33-34	Chronic myeloproliferative diseases	2	On-line webinar (MS Teams)

S35-36	Disorders of hemostasis	2	On-line webinar (MS Teams)
S37-38	Classification and diagnosis of rheumatic diseases	2	On-line webinar (MS Teams)
S39-40	Spondyloarthritides	2	On-line webinar (MS Teams)
S41-42	Systemic connective tissue diseases	2	On-line webinar (MS Teams)
S43-44	Systemic lupus and antiphospholipid syndrome	2	On-line webinar (MS Teams)
S45-46	Vasculitis syndromes	2	On-line webinar (MS Teams)
S47-48	Cardiomyopathies	2	On-line webinar (MS Teams)
S49-50	Sudden death, Cardiac arrest	2	On-line webinar (MS Teams)
S51-52	Rheumatic fever	2	On-line webinar (MS Teams)
S53-54	Acute coronary syndrome	2	On-line webinar (MS Teams)
S55-56	Congenital heart disease, acquired valvular heart disease	2	On-line webinar (MS Teams)
S57-58	Cardiac arrhythmias, Cardiac electrical stimulation	2	On-line webinar (MS Teams)
S59-60	Arterial hypertension	2	On-line webinar (MS Teams)
S61-62	Pulmonary hypertension, Pulmonary heart disease	2	On-line webinar (MS Teams)
S63-64	Acute respiratory insufficiency: causes and treatment	2	On-line webinar (MS Teams)
S65-66	Asthma	2	On-line webinar (MS Teams)
S67-68	Pleural diseases	2	On-line webinar (MS Teams)
S69-70	Chronic respiratory insufficiency: causes and treatment	2	On-line webinar (MS Teams)
S71-72	Sleep apnea, Pulmonary function tests	2	On-line webinar (MS Teams)
S73-74	Bronchiectasis, Atypical mycobacteriosis	2	On-line webinar (MS Teams)
S75-76	Pulmonary manifestation of extra-pulmonary diseases	2	On-line webinar (MS Teams)
S77-78	Diabetic kidney disease	2	On-line webinar (MS Teams)
S79-80	Arterial hypertension and vascular kidney disease	2	On-line webinar (MS Teams)
S81-82	Less common kidney diseases, Drug dosing in renal failure	2	On-line webinar (MS Teams)
S83-84	The kidney in systemic diseases, Infections of the urinary system	2	On-line webinar (MS Teams)
S85-86	Cardiorenal syndrome	2	On-line webinar (MS Teams)
S87-88	Renal anemia, Mineral metabolism disorders in kidney disease	2	On-line webinar (MS Teams)
S89-90	Education of patients with chronic kidney disease	2	On-line webinar (MS Teams)
	Total lecture hours	90	

	FINAL EXAM DATES
1.	21.02.2022.
2.	13.04.2022.
3.	11.07.2022.
4.	02.09.2022.
5.	16.09.2022.

Rijeka, 20.07.2021.

Course Coordinator
Assoc. Prof. Sanja Klobučar Majanović, MD, PhD