



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: 2020/21

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:

Harrison's Principles of Internal Medicine, 20th Edition. McGraw-Hill Education: USA, 2018.

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. Diagnostic and therapeutic gastrointestinal endoscopy. Emergencies in gastroenterology. Diagnostic and interventional ultrasound in gastroenterology. Small intestine diseases. Chronic hepatitis. Gastrointestinal tumors. Cirrhosis and its complications. Chronic diffuse liver diseases. 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. Spondyloarthritis. 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, by e-mail or personal contact of the students or their authorized representatives. In such cases, the course coordinator guarantees the protection (secrecy) of the student's identity.

COURSE SCHEDULE (for academic year 2020/2021)

Date	Lectures (time and location)	Seminars (time and location)	Practicals (time and location)	Lecturer
1.10.2020.	L1-2 (8,15-9,45) Lecture hall Rijeka			Prof. D. Štimac, MD, PhD
		S1-2 (10,00-11,30) Lecture hall Rijeka		Assoc. Prof. G. Hauser, MD, PhD
2.10.2020.	L3-4 (8,15-9,45) Faculty of medicine Lecture hall 9			Prof. D. Štimac, MD, PhD
		S3-4 (10,00-11,30) Faculty of medicine Lecture hall 9		Prof. S. Milić, MD, PhD
5.10.2020.	L5-6 (8,15-9,45) Faculty of medicine Lecture hall 9			Prof. D. Štimac, MD, PhD
	L7-8 (10,00-11,30) Faculty of medicine Lecture hall 9			Prof. D. Štimac, MD, PhD
		S5-6 (11,45-13,15) Faculty of medicine Lecture hall 9		A. Čubranić, MD, PhD
6.10.2020.	L9-10 (8,15-9,45) Lecture hall Rijeka			Prof. D. Štimac, MD, PhD
		S7-8 (10,00-11,30) Lecture hall Rijeka		Prof. B. Mijandrušić Sinčić, MD, PhD
		S9-10 (11,45-13,15) Lecture hall Rijeka		Prof. S. Milić, MD, PhD
7.10.2020.	L11-12 (8,15-9,45) Faculty of medicine Lecture hall 9			Prof. D. Štimac, MD, PhD
	L13-14 (10,00-11,30) Faculty of medicine Lecture hall 9			Prof. D. Štimac, MD, PhD
		S11-12 (11,45-13,15) Faculty of medicine Lecture hall 9		Prof. R. Dobrila Dintinjana, MD, PhD
8.10.2020.	L15-16 (8,15-9,45) Lecture hall Rijeka			Prof. D. Štimac, MD, PhD
		S13-14 (10,00-11,30) Lecture hall Rijeka		Prof. B. Mijandrušić Sinčić, MD, PhD
		S15-16 (11,45-13,15) Lecture hall Rijeka		Prof. S. Milić, MD, PhD
9.10.2020.	L17-18 (8,15-9,45) Faculty of medicine Lecture hall 9			Assoc. Prof. S. Klobučar Majanović, MD, PhD
	L19-20 (10,00-11,30) Faculty of medicine Lecture hall 9			Assoc. Prof. S. Klobučar Majanović, MD, PhD
		S17-18 (11,45-13,15) Faculty of medicine Lecture hall 9		Prof. R. Dobrila Dintinjana, MD, PhD
12.10.2020	L21-22 (8,15-9,45) Faculty of medicine Lecture hall 9			Prof. D. Jurišić Eržen, MD, PhD
	L23-24 (10,00-11,30) Faculty of medicine Lecture hall 9			Prof. D. Jurišić Eržen, MD, PhD

		S19-20 (11,45-13,15) Faculty of medicine Lecture hall 9		Assoc. Prof. S. Klobučar Majanović, MD, PhD
13.10.2020	L25-26 (8,15-9,45) Lecture hall Rijeka			Assoc. Prof. S. Klobučar Majanović, MD, PhD
		S21-22 (10,00-11,30) Lecture hall Rijeka		Assoc. Prof. S. Klobučar Majanović, MD, PhD
	L27-28 (11,45-13,15) Lecture hall Rijeka			Prof. T. Valković, MD, PhD
14.10.2020		S23-24 (8,15-9,45) Faculty of medicine Lecture hall 9		Prof. T. Valković, MD, PhD
		S25-26 (10,00-11,30) Faculty of medicine Lecture hall 9		Assist. Prof. D. Petranović, MD, PhD
		S27-28 (11,45-13,15) Faculty of medicine Lecture hall 9		N. Franjić, MD, PhD
15.10.2020		S29-30 (8,00-9,45) Lecture hall Rijeka		Prof. T. Valković, MD, PhD
		S31-32 (10,00-11,30) Lecture hall Rijeka		Assist. Prof. D. Petranović, MD, PhD
		S33-34 (11,45-13,15) Lecture hall Rijeka		Assist. Prof. D. Petranović, MD, PhD
16.10.2020	L29-30 (10,00-11,30) Lecture hall Rijeka			Prof. S. Novak, MD, PhD
		S35-36 (11,45-13,15) Lecture hall Rijeka		Prof. S. Novak, MD, PhD
		S37-38 (13,30-15,00) Lecture hall Rijeka		N. Franjić, MD, PhD
19.10.2020		S39-40 (8,15-9,45) Lecture hall Rijeka		Prof. S. Novak, MD, PhD
		S41-42 (10,00-11,30) Lecture hall Rijeka		Tatjana Žekić, MD
		S43-44 (11,45-13,15) Lecture hall Rijeka		Prof. S. Novak, MD, PhD
		S45-46 (13,30-15,00) Lecture hall Rijeka		Tatjana Žekić, MD
20.10.2020	L31-32 (8,15-9,45) Faculty of medicine Lecture hall 9			Prof. L. Zaputović, MD, PhD
	L33-34 (10,00-11,30) Faculty of medicine Lecture hall 9			Prof. L. Zaputović, MD, PhD
		S47-48 (11,45-13,15) Faculty of medicine Lecture hall 9		Prof. L. Zaputović, MD, PhD
		S49-50 (13,30-15,00) Faculty of medicine Lecture hall 9		Prof. A. Ružić, MD, PhD
21.10.2020	L35-36 (8,15-9,45) Lecture hall Rijeka			Prof. L. Zaputović, MD, PhD
	L37-38 (10,00-11,30) Lecture hall Rijeka			Prof. L. Zaputović, MD, PhD
		S51-52 (11,45-13,15) Lecture hall Rijeka		Assist. Prof. T. Zaninović Jurjević, MD, PhD
		S53-54 (13,30-15,00) Lecture hall Rijeka		Prof. L. Zaputović, MD, PhD
26.10.2020	L39-40 (8,15-9,45)			Prof. L. Zaputović, MD,

.	Lecture hall Rijeka			PhD
	L41-42 (10,00-11,30) Lecture hall Rijeka			Assoc. Prof. Lj. Bulat Kardum, MD, PhD
		S55-56 (11,45-13,15) Lecture hall Rijeka		Prof. A. Ružić, MD, PhD
		S57-58 (13,30-15,00) Lecture hall Rijeka		Assist. Prof. Z. Čubranić, MD, PhD
27.10.2020	L43-44 (8,15-9,45) Faculty of Medicine Lecture hall 9			Assoc. Prof. Lj. Bulat Kardum, MD, PhD
	L45-46 (10,00-11,30) Faculty of Medicine Lecture hall 9			Assoc. Prof. Lj. Bulat Kardum, MD, PhD
		S59-60 (11,45-13,15) Faculty of Medicine Lecture hall 9		Prof. L. Zaputović, MD, PhD
		S61-62 (13,30-15,00) Faculty of Medicine Lecture hall 9		Prof. A. Ružić, MD, PhD
28.10.2020	L47-48 (8,15-9,45) Lecture hall Rijeka			Assoc. Prof. Lj. Bulat Kardum, MD, PhD
	L49-50 (10,00-11,30) Lecture hall Rijeka			Assoc. Prof. Lj. Bulat Kardum, MD, PhD
		S63-64 (11,45-13,15) Lecture hall Rijeka		Assist. Prof. I. Barković, MD, PhD
		S65-66 (13,30-15,00) Lecture hall Rijeka		Assoc. Prof. Lj. Bulat Kardum, MD, PhD
2.11.2020.	L51-52 (8,15-9,45) Lecture hall Rijeka			Assoc. Prof. L. Orlić, MD, PhD
		S67-68 (10,00-11,30) Lecture hall Rijeka		M. Šestić Krneta, MD
		S69-70 (11,45-13,30) Lecture hall Rijeka		Assist. Prof. I. Barković, MD, PhD
	L53-54 (13,30-15,00) Lecture hall Rijeka			Assoc. Prof. L. Orlić, MD, PhD
3.11.2020.	L55-56 (8,15-9,45) Faculty of Medicine Lecture hall 9			Prof. S. Rački, MD, PhD
	L57-58 (10,00-11,30) Faculty of Medicine Lecture hall 9			Prof. S. Rački, MD, PhD
		S71-72 (11,45-13,15) Faculty of Medicine Lecture hall 9		Assist. Prof. I. Barković, MD, PhD
		S73-74 (13,30-15,00) Faculty of Medicine Lecture hall 9		Assoc. Prof. Lj. Bulat Kardum, MD, PhD
4.11.2020.	L59-60 (8,15-9,45) Lecture hall Rijeka			Prof. S. Rački, MD, PhD
		S75-76 (10,00-11,30) Lecture hall Rijeka		M. Šestić Krneta, MD
		S77-78 (11,45-13,15) Lecture hall Rijeka		Assoc. Prof. I. Bubić, MD, PhD
		S79-80 (13,30-15,00) Lecture hall Rijeka		Prof. S. Rački, MD, PhD
9.11.2020.		S81-82 (8,15-9,45) Lecture hall Sušak		Assoc. Prof. L. Orlić, MD, PhD
		S83-84 (10,00-11,30) Lecture hall Sušak		Assoc. Prof. I. Bubić, MD, PhD

		S85-86 (11,45-13,15) Lecture hall Sušak		Prof. S. Rački, MD, PhD
10.11.2020		S87-88 (8,15-9,45) Lecture hall ORL		Assoc. Prof. L. Orlič, MD, PhD
		S89-90 (10,00-11,30) Lecture hall ORL		B. Vujičić, MD, PhD
23.11.2020			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 Hematology	Prof. T. Valković, MD, PhD
			P1-5 C (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assist. Prof. T. Turk Wensveen, MD, PhD
24.11.2020			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 Hematology	Prof. T. Valković, MD, PhD
			P6-10 C (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assist. Prof. T. Turk Wensveen, MD, PhD
25.11.2020			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 Hematology	Prof. T. Valković, MD, PhD
			P11-15 C (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assist. Prof. T. Turk Wensveen, MD, PhD
26.11.2020			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 Hematology	Prof. T. Valković, MD, PhD
			P16-20 C (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assist. Prof. T. Turk Wensveen, MD, PhD
27.11.2020			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)	Prof. T. Valković, MD,

			Internal Medicine Clinic Department of Hematology	PhD
			P21-25 C (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assist. Prof. T. Turk Wensveen, MD, PhD
30.11.2020			P26-30 A (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	Assist. Prof. G. Poropat, MD, PhD
			P26-30 B (13,00-16,45) Internal Medicine Clinic Department of Hematology	Prof. T. Valković, MD, PhD
			P26-30 C (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assist. Prof. T. Turk Wensveen, MD, PhD
1.12.2020.			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 Hematology	Prof. T. Valković, MD, PhD
			P31-35 C (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assist. Prof. T. Turk Wensveen, MD, PhD
2.12.2020.			P36-40 B (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	Prof. D. Štimac, MD, PhD
			P36-40 C (13,00-16,45) Internal Medicine Clinic Department of Hematology	Assist. Prof. D. Petranović, MD, PhD
			P36-40 A (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Prof. D. Jurišić Eržen, MD, PhD
3.12.2020.			P41-45 B (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	Prof. D. Štimac, MD, PhD
			P41-45 C (13,00-16,45) Internal Medicine Clinic Department of Hematology	Assist. Prof. D. Petranović, MD, PhD
			P41-45 A (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Prof. D. Jurišić Eržen, MD, PhD
4.12.2020.			P46-50 B (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	Prof. D. Štimac, MD, PhD

			P46-50 C (13,00-16,45) Internal Medicine Clinic Department of Hematology	Assist. Prof. D. Petranović, MD, PhD
			P46-50 A (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Prof. D. Jurišić Eržen, MD, PhD
7.12.2020.			P51-55 B (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	Prof. D. Štimac, MD, PhD
			P51-55 C (13,00-16,45) Internal Medicine Clinic Department of Hematology	Assist. Prof. D. Petranović, MD, PhD
			P51-55 A (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Prof. D. Jurišić Eržen, MD, PhD
8.12.2020.			P56-60 B (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	Prof. D. Štimac, MD, PhD
			P56-60 C (13,00-16,45) Internal Medicine Clinic Department of Hematology	Assist. Prof. D. Petranović, MD, PhD
			P56-60 A (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Prof. D. Jurišić Eržen, MD, PhD
9.12.2020.			P61-65 B (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	Prof. D. Štimac, MD, PhD
			P61-65 C (13,00-16,45) Internal Medicine Clinic Department of Hematology	Assist. Prof. D. Petranović, MD, PhD
			P61-65 A (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Prof. D. Jurišić Eržen, MD, PhD
10.12.2020			P66-70 B (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	Prof. D. Štimac, MD, PhD
			P66-70 C (13,00-16,45) Internal Medicine Clinic Department of Hematology	Assist. Prof. D. Petranović, MD, PhD
			P66-70 A (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Prof. D. Jurišić Eržen, MD, PhD
11.12.2020			P71-75 C (13,00-16,45) Internal Medicine Clinic Department of	Assist. Prof. V. Licul, MD, PhD

			Gastroenterology	
			P71-75 A (13,00-16,45) Internal Medicine Clinic Department of Hematology	N. Franjić, MD
			P71-75 B (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assoc. Prof. S. Klobučar Majanović, MD, PhD
14.12.2020			P76-80 C (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	Assist. Prof. V. Licul, MD, PhD
			P76-80 A (13,00-16,45) Internal Medicine Clinic Department of Hematology	N. Franjić, MD
			P76-80 B (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assoc. Prof. S. Klobučar Majanović, MD, PhD
15.12.2020			P81-85 C (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	Assist. Prof. V. Licul, MD, PhD
			P81-85 A (13,00-16,45) Internal Medicine Clinic Department of Hematology	N. Franjić, MD
			P81-85 B (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assoc. Prof. S. Klobučar Majanović, MD, PhD
16.12.2020			P86-90 C (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	Assist. Prof. V. Licul, MD, PhD
			P86-90 A (13,00-16,45) Internal Medicine Clinic Department of Hematology	N. Franjić, MD
			P86-90 B (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assoc. Prof. S. Klobučar Majanović, MD, PhD
17.12.2020			P91-95 C (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	Assist. Prof. V. Licul, MD, PhD
			P91-95 A (13,00-16,45) Internal Medicine Clinic Department of Hematology	N. Franjić, MD
			P91-95 B (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assoc. Prof. S. Klobučar Majanović, MD, PhD
18.12.2020			P96-100 C (13,00-16,45) Internal Medicine Clinic	Assist. Prof. V. Licul, MD, PhD

			Department of Gastroenterology	
			P96-100 A (13,00-16,45) Internal Medicine Clinic Department of Hematology	N. Franjić, MD
			P96-100 B (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assoc. Prof. S. Klobučar Majanović, MD, PhD
21.12.2020			P101-105 C (13,00-16,45) Internal Medicine Clinic Department of Gastroenterology	Assist. Prof. V. Licul, MD, PhD
			P101-105 A (13,00-16,45) Internal Medicine Clinic Department of Hematology	N. Franjić, MD
			P101-105 B (13,00-16,45) Internal Medicine Clinic Department of Endocrinology	Assoc. Prof. S. Klobučar Majanović, MD, PhD
11.01.2021	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) Internal Medicine Clinic Department of Pulmonology	Assist. Prof. I. Barković, MD, PhD
			P106-110 C (13,00-16,45) Internal Medicine Clinic Department of Nephrology	Assoc. Prof. I. Bubić, MD, PhD
12.01.2021			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) Internal Medicine Clinic Department of Pulmonology	Assist. Prof. I. Barković, MD, PhD
			P111-115 C (13,00-16,45) Internal Medicine Clinic Department of Nephrology	Assoc. Prof. I. Bubić, MD, PhD
13.01.2021			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) Internal Medicine Clinic Department of Pulmonology	Assist. Prof. I. Barković, MD, PhD
			P116-120 C (13,00-16,45) Internal Medicine Clinic Department of Nephrology	Assoc. Prof. I. Bubić, MD, PhD
14.01.2021			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) Internal Medicine Clinic Department of Pulmonology	Assist. Prof. I. Barković, MD, PhD

			P121-125 C (13,00-16,45) Internal Medicine Clinic Department of Nephrology	Assoc. Prof. I. Bubić, MD, PhD
15.01.2021			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) Internal Medicine Clinic Department of Pulmonology	Assist. Prof. I. Barković, MD, PhD
			P126-130 C (13,00-16,45) Internal Medicine Clinic Department of Nephrology	Assoc. Prof. I. Bubić, MD, PhD
18.01.2021			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) Internal Medicine Clinic Department of Pulmonology	Assist. Prof. I. Barković, MD, PhD
			P131-135 C (13,00-16,45) Internal Medicine Clinic Department of Nephrology	Assoc. Prof. I. Bubić, MD, PhD
19.01.2021			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) Internal Medicine Clinic Department of Pulmonology	Assist. Prof. I. Barković, MD, PhD
			P136-140 C (13,00-16,45) Internal Medicine Clinic Department of Nephrology	Assoc. Prof. I. Bubić, MD, PhD
20.01.2021			P141-145 B (13,00-16,45) Clinic for cardiovascular diseases	Assist. Prof. T. Zaninović Jurjević, MD, PhD
			P141-145 C (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	Assist. Prof. I. Barković, MD, PhD
			P141-145 A (13,00-16,45) Internal Medicine Clinic Department of Nephrology	Assist. Prof. S. Živčić Ćosić, MD, PhD
21.01.2021			P146-150 B (13,00-16,45) Clinic for cardiovascular diseases	Assist. Prof. T. Zaninović Jurjević, MD, PhD
			P146-150 C (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	Assist. Prof. I. Barković, MD, PhD
			P146-150 A (13,00-16,45) Internal Medicine Clinic Department of Nephrology	Assist. Prof. S. Živčić Ćosić, MD, PhD
22.01.2021			P151-155 B (13,00-16,45) Clinic for cardiovascular diseases	Assist. Prof. T. Zaninović Jurjević, MD, PhD
			P151-155 C (13,00-16,45) Internal Medicine Clinic Department of	Assist. Prof. I. Barković, MD, PhD

			Pulmonology	
			P151-155 A (13,00-16,45) Internal Medicine Clinic Department of Nephrology	Assist. Prof. S. Živčić Ćosić, MD, PhD
25.01.2021			P156-160 B (13,00-16,45) Clinic for cardiovascular diseases	Assist. Prof. T. Zaninović Jurjević, MD, PhD
			P156-160 C (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	Assist. Prof. I. Barković, MD, PhD
			P156-160 A (13,00-16,45) Internal Medicine Clinic Department of Nephrology	Assist. Prof. S. Živčić Ćosić, MD, PhD
26.01.2021			P161-165 B (13,00-16,45) Clinic for cardiovascular diseases	Assist. Prof. T. Zaninović Jurjević, MD, PhD
			P161-165 C (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	Assist. Prof. I. Barković, MD, PhD
			P161-165 A (13,00-16,45) Internal Medicine Clinic Department of Nephrology	Assist. Prof. S. Živčić Ćosić, MD, PhD
27.01.2021			P166-170 B (13,00-16,45) Clinic for cardiovascular diseases	Assist. Prof. T. Zaninović Jurjević, MD, PhD
			P166-170 C (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	Assist. Prof. I. Barković, MD, PhD
			P166-170 A (13,00-16,45) Internal Medicine Clinic Department of Nephrology	Assist. Prof. S. Živčić Ćosić, MD, PhD
28.01.2021			P171-175 B (13,00-16,45) Clinic for cardiovascular diseases	Assist. Prof. T. Zaninović Jurjević, MD, PhD
			P171-175 C (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	Assist. Prof. I. Barković, MD, PhD
			P171-175 A (13,00-16,45) Internal Medicine Clinic Department of Nephrology	Assist. Prof. S. Živčić Ćosić, MD, PhD
29.01.2021			P176-180 C (13,00-16,45) Clinic for cardiovascular diseases	Assist. Prof. S. Brusich, MD, PhD
			P176-180 A (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	Assist. Prof. I. Barković, MD, PhD
			P176-180 B (13,00-16,45) Internal Medicine Clinic Department of Nephrology	B. Vujičić, MD, PhD
1.02.2021.			P181-185 C (13,00-16,45) Clinic for cardiovascular diseases	Assist. Prof. S. Brusich, MD, PhD
			P181-185 A (13,00-16,45) Internal Medicine Clinic	Assist. Prof. I. Barković, MD, PhD

			Department of Pulmonology	
			P181-185 B (13,00-16,45) Internal Medicine Clinic Department of Nephrology	B. Vujičić, MD, PhD
2.02.2021.			P186-190 C (13,00-16,45) Clinic for cardiovascular diseases	Assist. Prof. S. Brusich, MD, PhD
			P186-190 A (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	Assist. Prof. I. Barković, MD, PhD
			P186-190 B (13,00-16,45) Internal Medicine Clinic Department of Nephrology	B. Vujičić, MD, PhD
3.02.2021.			P191-195 C (13,00-16,45) Clinic for cardiovascular diseases	Assist. Prof. S. Brusich, MD, PhD
			P191-195 A (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	Assist. Prof. I. Barković, MD, PhD
			P191-195 B (13,00-16,45) Internal Medicine Clinic Department of Nephrology	B. Vujičić, MD, PhD
4.02.2021.			P196-200 C (13,00-16,45) Clinic for cardiovascular diseases	Assist. Prof. S. Brusich, MD, PhD
			P196-200 A (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	Assist. Prof. I. Barković, MD, PhD
			P196-200 B (13,00-16,45) Internal Medicine Clinic Department of Nephrology	B. Vujičić, MD, PhD
5.02.2021.			P201-205 C (13,00-16,45) Clinic for cardiovascular diseases	Assist. Prof. S. Brusich, MD, PhD
			P201-205 A (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	Assist. Prof. I. Barković, MD, PhD
			P201-205 B (13,00-16,45) Internal Medicine Clinic Department of Nephrology	B. Vujičić, MD, PhD
8.02.2021.			P206-210 C (13,00-16,45) Clinic for cardiovascular diseases	Assist. Prof. S. Brusich, MD, PhD
			P206-210 A (13,00-16,45) Internal Medicine Clinic Department of Pulmonology	Assist. Prof. I. Barković, MD, PhD
			P206-210 B (13,00-16,45) Internal Medicine Clinic Department of Nephrology	B. Vujičić, MD, PhD

List of lectures and seminars:

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

	SEMINARS (topics)	Teaching hours	Location
S1-2	Diagnostic and therapeutic gastrointestinal endoscopy	2	Lecture hall Rijeka
S3-4	Emergencies in gastroenterology	2	Faculty of Medicine
S5-6	Diagnostic and interventional ultrasound in gastroenterology	2	Faculty of Medicine
S7-8	Small intestine diseases	2	Lecture hall Rijeka
S9-10	Chronic hepatitis	2	Lecture hall Rijeka
S11-12	Gastrointestinal tumors I	2	Faculty of Medicine
S13-14	Cirrhosis and its complications	2	Lecture hall Rijeka
S15-16	Chronic diffuse liver diseases	2	Lecture hall Rijeka
S17-18	Gastrointestinal tumors II	2	Faculty of Medicine
S19-20	Thyroid disorders	2	Faculty of Medicine
S21-22	Management of diabetes, Obesity	2	Lecture hall Rijeka
S23-24	Interpretation of laboratory tests in hematology	2	Faculty of Medicine
S25-26	Anemias	2	Faculty of Medicine
S27-28	Lymphoma	2	Faculty of Medicine
S29-30	Chronic lymphoproliferative diseases and plasma cell diseases	2	Lecture hall Rijeka
S31-32	Myelodysplastic syndrome and acute leukemia	2	Lecture hall Rijeka
S33-34	Chronic myeloproliferative diseases	2	Lecture hall Rijeka
S35-36	Classification and diagnosis of rheumatic diseases	2	Lecture hall Rijeka
S37-38	Disorders of hemostasis	2	Lecture hall Rijeka
S39-40	Spondyloarthritides	2	Lecture hall Rijeka

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

	FINAL EXAM DATES
1.	22.02.2021.
2.	14.04.2021.
3.	12.07.2021.
4.	03.09.2021.
5.	17.09.2021.

Rijeka, 08.09.2020.

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