Sveučilište u Rijeci • Fakultet dentalne medicine
University of Rijeka • Faculty of Dental Medicine

Course: Internal Medicine
Course coordinator: Prof. Sanjin Rački, MD, PhD
Department: Department of Internal Medicine
Study program: Integrated undergraduate and graduate university study of Dental Medicine
Study year: 3rd year
Academic year: 2022/2023.

Syllabus

Course description:

The course Internal Medicine is an obligatory course (part of Clinical Medicine I) in the third year of the Integrated Undergraduate and Graduate University Study in Dental Medicine and consists of 50 hours of lectures and 60 hours of exercises; a total of 110 hours.

The course is held in the premises of the Clinical Hospital Centre Rijeka. The course is part of the Clinical Medicine I course.

Objectives of the course: acquisition of theoretical and practical knowledge in the field of internal medicine at the level of dental medicine doctors: epidemiology, classification, etiology and pathogenesis, pathological anatomy, clinical appearance, diagnosis, therapy and prognosis of internal diseases. Recognition of syndromes presenting diseases of internal organs. Mastering practical skills: clinical examination, specific laboratory and instrumental diagnostics of internal diseases. Developing a problem-oriented approach to internal medicine patients and differential-diagnostic thinking. Mastering modern diagnostic procedures in internal medicine, correct interpretation of test results. Planning and implementation of specific internal medicine therapy, analysis of treatment results and outcomes. Familiarity with invasive interventional procedures in internal medicine.

Expected learning outcomes: Mastering certain knowledge and skills at the level of general competence, i.e. recognizing the clinical appearance and suspecting a certain disease. Knowledge of practical skills on a theoretical basis.

The content of the course is as follows: Anamnesis and physical examination of the patient, Diagnostic tests in internal medicine, Special clinical propaedeutics in dental medicine, Ischemic heart disease, Chronic heart failure and pulmonary heart, Diseases of the respiratory system, Kidney parenchymal diseases and urinary tract infections, Arterial hypertension, Chronic kidney disease and chronic kidney failure, Diseases of the esophagus, stomach and duodenum, Diseases of the liver, small and large intestine, Hematological diseases and coagulation disorders, Metabolic syndrome and diabetes.

Conducting classes: Teaching is conducted in the form of lectures, seminars and clinical exercises. The expected duration of the course is one month. During the seminars and exercises, the teacher demonstrates basic theoretical and practical knowledge about methods of diagnosis and treatment of internal medicine patients. Teaching staff supervises the active participation of students in classes. At the end of the class, there is a written and oral exam.

List of literature:

Jameson LJ. Harrison's Principles of Internal Medicine. 20th edition. New York, McGraw-Hill, 2018.

Lectures and seminars as original PPT presentations in PDF format will be available for students to download from the Share-point portal of the Faculty of Dental Medicine and the Merlin platform, once they are held.

Curriculum:

List of lectures (with titles and Explanation of learning outcomes):

L 1-3 Anamnesis and physical examination of the patient I
Clarification and learning outcomes: mastery of history taking and physical examination techniques
L 4-6 Anamnesis and physical examination of the patient II
Clarification and learning outcomes: mastery of history taking and physical examination techniques
L 7-9 Diagnostic tests in internal medicine
Explanation and learning outcomes: covering the most important diagnostic tests in internal medicine
L 10-12 Special clinical propaedeutics in dental medicine
Clarification and learning outcomes: treatment of the most important symptoms and signs of disease in internal medicine
L 13-16 Ischemic heart disease
Clarification and learning outcomes: definition, classification, clinical appearance, diagnosis and treatment of ischemic heart disease
L 17-20 Chronic heart failure and pulmonary heart
Clarification and learning outcomes: defining chronic heart failure, classification and treatment, describing the concept of pulmonary heart
L 21-24 Diseases of the respiratory system
Clarification and learning outcomes: overview of diseases of the respiratory system, explanation of the most important entities
L 25-28 Kidney parenchymal diseases and urinary tract infections
Explanation and learning outcomes: overview of diseases of the urogenital system
L 29-32 Arterial hypertension
Clarification and learning outcomes: definition of arterial hypertension, classification, most important therapeutic measures
L 33-36 Chronic kidney disease and chronic renal failure
Clarification and learning outcomes: definition of chronic kidney disease, classification, stages, complications, methods of treatment and prevention
L 37-40 Diseases of the esophagus, stomach and duodenum

Explanation and learning outcomes: overview of diseases of the upper gastrointestinal tract, the most important manifestations and complications
L 41-44 Diseases of the liver, small and large intestine
Explanation and learning outcomes: treatment of liver diseases and diseases of the lower gastrointestinal tract
L 45-48 Hematological diseases and coagulation disorders
Explanation and learning outcomes: a brief overview of the most important hematological diseases and coagulation disorders
L 49-50 Metabolic syndrome and diabetes
Clarification and learning outcomes: definition of metabolic syndrome, methods of prevention and treatment, diabetes and its complications

List of seminar exercises with explanations and learning outcomes:

S 1-3: Anamnesis and physical examination of the patient - practicing and acquiring the contents of the anamnesis and physical examination of the patient S 4-6: Emergencies in internal medicine - theoretical discussion and acquisition of practical knowledge from basic emergencies and patient care in internal medicine
S 7-10: Seminar work - solving the patient's problem independently
S 11-13 Seminar paper - solving the patient's problems independently
S 14-16 Seminar paper - solving the patient's problems independently
S 17-20 Seminar paper - solving the patient's problems independently

List of practicals with explanations and learning outcomes:

P 1-10 – History (anamnesis)
P 11-20 – History (anamnesis) - exercise
P 21-30 – Physical examination
P 31-40 - Physical examination - exercise

Obligations of students**:**

Students are obliged to regularly attend and actively participate in classes.

Exam (method of taking the exam, description of the written/oral/practical part of the exam, method of scoring, evaluation criteria):

ECTS credit rating system
Student grading is conducted according to the current Ordinance on Studies of the University of Rijeka.
The students' work will be evaluated and evaluated during the course and in the final exam. Out of a total of 100 points, a student can earn 50 points during classes, and 50 points on the final exam.
Grading of students is done using a numerical system (1-5). Grading in the ECTS system is carried out by absolute distribution.
Out of the maximum 50 grade points that can be obtained during classes, the student must collect at least 25 grade points in order to take the final exam.

The evaluation elements and criteria for the Internal Medicine course are: two written colloquiums and evaluation of a seminar paper that students independently prepare on a given topic. During class, a student can earn up to 50% of the grade, and the remaining 50% of the grade on the final exam (out of a total of 100 points, up to 50 points can be earned during class, and up to 50 on the final exam).

Written intermediate exams (colloquia) - 40 points
Students are required to pass two written intermediate exams. At each intermediate exam, they can achieve a maximum of 20 points (20% of the grade). Mid-term exams contain 20 questions, the correct answers of which are converted into grade points as follows:

Correct answers	Points
0	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20

A seminar paper that the student independently prepares on a given topic - 10 points.

Each student is required to prepare one presentation on a given topic, in power-point, lasting at least 15 minutes, and the seminar paper is graded from 1-10 (grade = point).
Important notes:
Written intermediate exams (tests) are written for 30 minutes. The passing threshold is 50%.
The right to one remedial intermediate exam is granted to students who obtained less than 25 points during classes. An insight into the achieved results will be made possible within seven days of taking the midterm exam with a prior agreement on the exact date with the course instructor.

Final exam – 50 points
The final exam consists of a written and an oral exam.
Final written exam:
The final written exam contains 30 questions. The final written exam assesses knowledge that was not assessed during earlier tests, and the passing threshold is 50%. In the final written exam, students can achieve a maximum of 30 points, which are converted into grade points in the following way:

Correct answers	Points
15	10
16	11
17	12
18	13

19	14
20	15
21	16
22	17
23	18
24	19
25	20
26	22
27	24
28	26
29	28
30	30

Final oral exam:

The final oral exam consists of a practical test of knowledge on a problem assignment and a theoretical test of knowledge from the entire material.
At the final oral exam, students can achieve a maximum of 20 points, which are converted into grade points in the following way:

Excellent - 20 points
Very good - 17 points
Good - 13 points
Sufficient - 10 points

Final grade:

A - 90-100% grade, excellent (5)
B – 75-89.9% grade, very good (4)
C – 60-74.9% grade, good (3)
D – 50-59.9% of the grade, sufficient (2)
F – 0-49.9% of grade, insufficient (1)

Other notes (related to the course) important for students:

All possible additional detailed information and instructions can be continuously received by students during classes from the head of the course and all teachers and associates involved in the classes, by personal contact or by e-mail (the e-mail addresses of all members of the Department of Internal Medicine can be found on the Faculty's website)

LESSON SCHEDULE (for the academic year 2022/2023)

Location: Department for Nephrology, Dialysis and Kidney Transplantation

Date	Lectures (time)	Seminars (time)	Practicals (time)	Lecturer
1.12.2022.	1-6 (12,00-18,15) Lecture hall			Prof. Sanjin Rački, MD, PhD Prof. Ivan Bubić, MD, PhD
2.12.2022.	7-12 (9,00-14,15) Lecture hall	S1,2 (14.30-16.00)		Prof. Sanjin Rački, MD, PhD
5.12.2022.	13-18 (9,00-14,15) Lecture hall	S 3,4 (14.30-16.00)		Prof. Sanjin Rački, MD, PhD
6.12.2022.	19-24 (14,00-19,00) Lecture hall	S 5,6 (12.00-13.30)		Prof. Sanjin Rački, MD, PhD
7.12.2022.	25-30 (14,00-19,00) Lecture hall	S 7,8 (12.00-13.30)		Prof. Sanjin Rački, MD, PhD
8.12.2022.	31-36 (14,00-19,00) Lecture hall	S 9,10 (12.00-13.30)		Prof. Sanjin Rački, MD, PhD
9.12.2022.	37-42 (14,00-19,00) Lecture hall	S 11,12 (12.00-13.30)		Prof. Sanjin Rački, MD, PhD
12.12.2022.	43–48 (14,00-19,00) Lecture hall	S 13,14 (12.00-13.30)		Prof. Sanjin Rački, MD, PhD
13.12.2022.	49,50 (9,00-10.30)	S 15,16 (12.00-13.30)		Prof. Ivan Bubić, MD, PhD
14.12.2022.		S17-20 (8.00-11.00)	P1-4 (11,30-14.30)	Prof. Sanjin Rački, MD, PhD Ita Jelić Pranjić, MD
15.12.2022.			5-11 (9,00-15.30)	Prof. Sanjin Rački, MD, PhD Ita Jelić Pranjić, MD
16.12.2022.			12-18 (9,00-15.30)	Prof. Ivan Bubić, MD, PhD Ita Jelić Pranjić, MD
19.12.2022.			19-25(9,00-15.30)	Prof. Ivan Bubić, MD, PhD Ita Jelić Pranjić, MD
20.12.2022.			26-32 (09,00-15,30)	Prof. Sanjin Rački, MD, PhD Ita Jelić Pranjić, MD
21.12.2022.			33-40 (09,00-16,30)	Prof. Sanjin Rački, MD, PhD Ita Jelić Pranjić, MD

List of lectures, seminars and practicals:

	Lectures	Hours	Location
L1-3	History talking (anamnesis)	3	Lecture hall
L4-6	Patient exam	3	Lecture hall
L7-9	Diagnostic procedures in the internal medicine	3	Lecture hall
L10-12	Clinical propedeutics	3	Lecture hall
L13-16	Ishemic heart disease	4	Lecture hall
L17-20	Chronic hearts failure and pulmonary heart	4	Lecture hall
L21-24	Respiratory diseases	4	Lecture hall
L25-28	Kidney and urinary tract	4	Lecture hall
L29-32	Arterial hypertension	4	Lecture hall
L33-36	Chronic kidney disaese	4	Lecture hall
L37-40	Gastrointestinal diseases I	4	Lecture hall
L41-44	Gastrointestinal diseases II	4	Lecture hall
L45-48	Hematologic and coagulation disorders	4	Lecture hall
L49-50	Metabolic syndrome and diabetes	2	Lecture hall
	Total hours	**50**	

	Seminars	Hours	Location
SV1	Seminar	10	Lecture hall
SV2	Seminar	10	Lecture hall
	Total hours	**20**	

	Practicals	Hours	Location
P1-4	Anamnesis (history talking)	4	Department for Nephrology
P5-8	Anamnesis (history talking)	4	Department for Nephrology
P9-12	Anamnesis (history talking)	4	Department for Nephrology
P13-16	Anamnesis (history talking)	4	Department for Nephrology
P17-20	Anamnesis (history talking)	4	Department for Nephrology
P21-24	Patient exam	4	Department for Nephrology
P25-28	Patient exam	4	Department for Nephrology
P29-32	Patient exam	4	Department for Nephrology
P33-36	Patient exam	4	Department for Nephrology
P37-40	Patient exam	4	Department for Nephrology
	Total hours	**40**	

	Final exam (dates)
1.	22.12.2022.
2.	12.01.2023.
3.	6.7.2023.