

**UNIVERSITY OF SPLIT
SCHOOL OF MEDICINE
DEPARTMENT OF PATHOPHYSIOLOGY
MEDICAL STUDIES IN ENGLISH, 3rd YEAR**

PATHOPHYSIOLOGY – MEDICINE (2021./22.)

COURSE DESCRIPTION AND OBJECTIVES:

This course provides an in-depth study of human pathological processes and their effects on homeostasis. Emphasis is on interrelationships among organ systems in deviation from homeostasis. Students examine the phenomena that produce alterations in human physiologic function and the resulting response.

Upon completion of the course, students will understand pathophysiological changes, including how pathological processes are manifested, progress in the body with primary and secondary effects.

CLASS ATTENDANCE AND ACTIVITY:

Students are required to attend all forms of teaching and **actively participate** in seminars and exercises, which will be graded (plus or minus). Three awarded activities at seminars and exercises are worth one point at exam.

Absenteeism is monitored through individual records of class attendance. Student may **reasonably** be absent **up to 20%** of the total fund of lectures, seminars and exercises.

Absences from lectures (>2), seminars (all) and exercises (all) have to be compensated through a colloquium at least 3 days before the exam.

OBLIGATORY LITERATURE:

1. Hammer GD, McPhee SJ. Pathophysiology of Disease: An Introduction to Clinical Medicine 7/E, 2014. (selected chapters), or 8/E, 2018.
2. Handouts of lectures, seminars and exercises.

ADDITIONAL LITERATURE:

1. McCance KL, Huether SE. Pathophysiology - the Biologic Basis for Disease in Adults and Children 8/E, 2018.

EXAM:

The exam is composed of the written test and oral exam that equally contribute to the final mark. Written test is consisted of two parts: 75 multiple-choice questions (one answer is correct; 75 points) and one problem-solving case (5 points). To pass the written test it is required to achieve at least 55% of correct answers. Oral exam consists of 5 questions that are pulled by the student from different sets of questions.

EXAM TERMS:

1.	15./16.02.2022.
2.	22.07.2022.
3.	02.09.2022.
4.	16.09.2022.

TEACHING STAFF:

1. Prof. Tina Tičinović Kurir, MD, PhD, **Head of Department**
2. Assoc. Prof. Joško Božić, MD, PhD, **Course Leader**
3. Assist. Prof. Anteo Bradarić, MD, PhD
4. Assist. Prof. Marino Vilović, MD, PhD
5. Josip Anđelo Borovac, MD, PhD
6. Marko Kumrić, MD
7. Maja Mizdrak, MD, PhD
8. Piero Marin Živković, MD
9. Josip Vrdoljak, MD

I. LECTURES

LEC.	LECTURE TOPICS	PLACE	TEACHER
L1	Pathophysiology of energy metabolism	MS Teams	Vilović
L2	Pathophysiology of immune system and rheumatic diseases	MS Teams	Vilović
L3	Pathophysiology of atherosclerosis and lipid metabolism disorders	MS Teams	Vilović
L4	Pathophysiology of arterial hypertension	MS Teams	Božić
L5	Pathophysiology of heart failure	B104	Bradarić
L6	Pathophysiology of hemodynamic shock	B104	Bradarić
L7	Review of respiratory pathophysiology	B104	Božić
L8	Pathophysiology of endocrine system 1	B100	Božić
L9	Pathophysiology of diabetes mellitus and disorders of carbohydrate metabolism	B100	Tičinović Kurir
L10	Pathophysiology of endocrine system 2	B104	Tičinović Kurir
L11	Fluid and electrolyte disorders	B103	Božić
L12	Pathophysiology of acid-base disorders	B104	Božić
L13	Endogenous bioactive substances in pathological processes	B104	Božić
L14	Pathophysiology of acute and chronic kidney failure	B100	Božić
L15	Integration	B104	Božić

II. SEMINARS

SEM.	SEMINAR TOPICS	PLACE	TEACHER
S1	Pathophysiology of infection and inflammation	MS Teams	Vilović
S2	Pathophysiology of cardiovascular system 1	B104	Bradarić
S3	Pathophysiology of cardiovascular system 2	A115	Bradarić
S4	<i>Problem seminar:</i> Cardiovascular disorders	S1 (A102) S2 (B101)	Kumrić
S5	Pathophysiology of respiratory system	S1 (A117) S2 (B104)	Božić
S6	<i>Problem seminar:</i> Respiratory system disorders	A116	Božić
S7	Pathophysiology of blood 1	S1 (A117) S2 (A104)	Božić
S8	Pathophysiology of blood 2	A117	Božić
S9	<i>Problem seminar:</i> Blood disorders	A116	Božić
S10	Pathophysiology of parathyroid gland and calcium	S1 (B102) S2 (A116)	Božić
S11	<i>Problem seminar:</i> Endocrine disorders	S1 (A117) S2 (A116)	Vilović
S12	Pathophysiology of hepatobiliary disorders	B104	Kumrić
S13	Pathophysiology of gastrointestinal disorders	A101	Vrdoljak
S14	Metabolic disorders	S1 (B104) S2 (A116)	Božić
S15	Pathophysiology of exocrine pancreas	S1 (A115) S2 (B102)	Vrdoljak
S16	<i>Problem seminar:</i> Gastrointestinal and hepatobiliary disorders	S1 (A104) S2 (A117)	Vilović
S17	Pathophysiology of thermoregulation	S1 (A117) S2 (B101)	Vilović
S18	Pathophysiology of renal disorders	A101	Mizdrak
S19	Selected topics	A116	Božić
S20	<i>Problem seminar:</i> Renal disorders	S1 (A117) S2 (B101)	Božić

III. PRACTICALS

PR.	PRACTICALS TOPIC	PLACE	TEACHER
P1	Orthostatic load	MS Teams	Božić
P2	ECG during exercise	P1,6,7,8 (A107) P2,3,4,5 (A105)	Božić
P3	CE - Patients with heart disorders	Clinic	Borovac
P4	Basis of ECG analysis	P1,2,7,8 (A116) P3,4,5,6 (A112)	Vilović
P5	ECG clinical cases	P1 (A101) P2,3,4,6,7 (A117) P5 (A116) P8 (A112)	Kumrić
P6	Blood disorders – clinical cases and laboratory tests	P1,2,3,4,6 (A117) P5,7,8 (A112)	Kumrić
P7	CE - Patients with gastrointestinal disorders	Clinic	Živković

P8	CE - Patients with endocrine disorders	Clinic	Vrdoljak
P9	Acid base and electrolyte disorders - case studies	P1,2 (B103) P3,4 (A116) P5,6 (A102) P7,8 (B104)	Božić/Vilović
P10	CE – Emergency medicine cases	Clinic	Tičinović Kurir
P11	CE - Patients with renal disorders	Clinic	Mizdrak
P12	Integration	P1,2,3,4 (A117) P5,6,7,8 (B101)	Božić/Kumrić

Clinic, Department of Internal medicine (Hospital Firule or Križine, details will be provided)

Important: For all Clinical exercises students must have a white coat!

Contacts:

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For all schedule changes and additional announcements students are obligate to follow official web pages of Department of Pathophysiology at:

<http://www.mefst.unist.hr/education/courses/pathophysiology>