

Course description

Part 1

General information about the course		
1. Major of study: medicine	2. Study level: unified MSc	
	3. Form of study: intramural	
4. Year: IV	5. Semester: VII; VIII	
6. Course name: Pathophysiology		
7. Course status: required		
8. Course contents and assigned learning outcomes		
Courses contents		
The basic concepts related to pathophysiology of human.		
The etiopathogenetic and counterregulatory mechanisms of the diseases development.		
The clinical course of the most common diseases.		
Learning outcomes		
Student knows and understands:		
– Environmental, physical and psychosocial pathogens; – the relationship between pathomechanism and the symptoms of the most common diseases of particular systems; – etiology, pathogenesis, signs and symptoms of cardiovascular, pulmonary, gastrointestinal, endocrine, metabolic, hematologic, renal, cerebral and environmental diseases.		
Learning outcomes / reference to learning outcomes indicated in the standards		
• For knowledge – student knows and understands: C.W33-34, EW7 • For skills student can do C.U11 • For social competencies student is ready to: – cooperate with others effectively, participate as a member of a team and contribute to group effort; – use objective sources of information; – be able to formulate conclusions from his/her own measurements or observations; – recognize one's own limitations and make self-assessment of educational deficits and needs, extends professional knowledge, shape skills.		
9. Number of hours for the course		80
10. Number of ECTS points for the course		6
11. Methods of verification and evaluation of learning outcomes		
Learning outcomes	Methods of verification	Methods of evaluation*
Knowledge	Written evaluation – test single choice or open questions Grade credit – MCQ	*
Skills	Report Observation	*
Competencies	Observation	*

* The following evaluation system has been assumed:

Very good (A/5,0) – the assumed learning outcomes have been achieved and significantly exceed the required level

Better than good (B+4,5) – the assumed learning outcomes have been achieved and slightly exceed the required level

Good (4,0/B) – the assumed learning outcomes have been achieved at the required level

Better than satisfactory (C+/3,5) – the assumed learning outcomes have been achieved at the average required level

Satisfactory (C/3,0) – the assumed learning outcomes have been achieved at the minimum required level

Unsatisfactory (F/2,0) – the assumed learning outcomes have not been achieved

Course description

Part 2

Other useful information about the course		
12. Name of Department, mailing address, e-mail: Department of Pathophysiology sekipatofizjologia@sum.edu.pl		
13. Name of the course coordinator: Professor Magdalena Olszanecka-Glinianowicz MD,PD		
14. Prerequisites for knowledge, skills and other competencies: Knowledge of human anatomy and physiology		
15. Number of students in groups	In accordance with the Senate Resolution	
16. Study materials	Stationery	
17. Location of classes	Didactic rooms: Department of Pathophysiology, Dean Office	
18. Location and time for contact hours	Department of Pathophysiology - agreed with the individual teachers	
19. Learning outcomes		
Number of the course learning outcome	Course learning outcomes	Reference to learning outcomes indicated in the standards
P_W01 / C_K01	student knows and understands the, etiological factors and pathogenesis of the diseases as well regulatory mechanism and adaptation created in response to the development of disease	C.W33-34, EW7
P_W02 / C_K02	student has knowledge about pathomechanism of selected disease, knows the clinical course of most common diseases	C.W33-34, EW7
P_W03 / C_K03	student has knowledge of the relationship between pathogenesis and occurrence of the disease symptoms	C.W33-34, EW7
P_U01 / C_S01	student can correctly recognize the clinical course of most common diseases of various systems	C.U11
P_U02 / C_S02	student is able to assess and indicate the relationship between pathogenesis and occurrence of the symptoms	C.U11
20. Forms and topics of classes		Number of hours
21.1. Lectures		20
Anemias		2
Basic concept of endocrinology. Hypothalamus and pituitary gland		2
Diabetes mellitus		2
Acute coronary syndrome		2
Chronic heart failure, cardiomyopathy		2
Hypertension, renovascular hypertension		2
Chronic kidney disease		2
Nervous system disorders		2
Liver pathophysiology		2
Nervous system disorders		2

22.2. Seminars	15
Anemias/ Bleeding disorders	2
Basic concept of endocrinology, hypothalamus, pituitary gland. Thyroid diseases. Diabetes mellitus. Disorders of adrenal gland. Disorders of the of parathyroids&calcium metabolism. Osteoporosis	2
Renal diseases. Hypertension, renovascular hypertension	2
Respiratory insufficiency. Pulmonary diseases: pneumonia, asthma COPD, ARDS, pneumoconiosis, pulmonary embolism	2
Coronary artery disease, Acute coronary syndromes, Peripheral artery diseases. Chronic heart failure. Cardiomyopathy. Valvular heart diseases.	2
ECG. Arrhythmias	1
Gastrointestinal diseases (oesophagus, stomach, jejunum, ileum, colon), pancreas and liver pathophysiology	2
Nervous system disorders.	2
23.3. Labs	45
Anemias. Bleeding disorders	4
Thyroid diseases. Disorders of the of parathyroid & calcium metabolism. Osteoporosis	5
Disorders of adrenal glands.	4
Coronary artery diseases. Acute coronary syndromes, Peripheral artery diseases.	5
Valvular heart diseases. Cardiomyopathies. Chronic heart failure.	5
ECG, arrhythmias	4
Respiratory insufficiency. Pulmonary diseases: pneumonia, asthma COPD, ARDS, pneumoconiosis, pulmonary embolism.	5
Renal diseases	4
Gastrointestinal disease: oesophagus, stomach, jejunum, ileum, colon, pancreas	5
Nervous system disorders	4
24. Readings	
Lange: Pathophysiology of Disease, 7th Edition (or the newest edition) Rapid review. Pathology by E.F Goljan 5th edition(or the newest edition) Harrison's Principles of Internal Medicine 10th edition. (or the newest edition) Robbins Pathology 10th edition (or the newest edition)	
25. Detail evaluation criteria	
In accordance with the recommendations of the inspection bodies Completion of the course – student has achieved the assumed learning outcomes Detail criteria for completion and evaluation of the course are specified in the course regulation	