

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. Semestr / Semester: VII	
6. Course name: Clinical Analysis		
7. Course status: required		
8. Course contents and assigned learning outcomes		
The subject aims is to approximate the issue of laboratory diagnostics and physical examination in the diagnosis of underlying diseases in patients. On labs and seminars students will learn about basic clinical symptoms of kidney diseases, electrolyte imbalances, acid-base homeostasis disorders, common endocrine diseases, diabetes as well as types of biological materials used in laboratory diagnostic and the rules for the collection of materials. In practical side, students will be taking case history in advanced level in patients with kidney diseases, electrolyte imbalances, acid-base homeostasis disorders, common endocrine diseases, diabetes and will planning laboratory investigators.		
Learning outcomes / reference to learning outcomes indicated in the standards		
For knowledge – student knows and understands: E.W7., E.W.40, E.W41		
For skills student can do: E.U1, E.U12, E.U16, E.U28, E.W29.		
For social competencies student is ready to		
9. Number of hours for the course		45
10. Number of ECTS points for the course		3
11. Methods of verification and evaluation of learning outcomes		
Learning outcomes	Methods of verification	Methods of evaluation*
Knowledge	Grade credit – MCQ	Over 90% correct answers – grade A 75-90% correct answers – grade B 60-75% correct answers – grade C Less than 60% correct answers – grade D
Skills	Observation Practical exam	Active participation in labs and seminars and 3 of 5 correct procedures on practical exam to pass
Competencies	Observation	*

* The following evaluation system has been assumed:

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

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

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

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

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

Unsatisfactory (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 Nephrology, Transplantation and Internal Medicine, Francuska 20-24, 40-027 Katowice, nefros@spskm.katowice.pl		
13. Name of the course coordinator: Damian Gojowy MD.		
14. Prerequisites for knowledge, skills and other competencies: 1. Knowledge of basic clinical symptoms of kidney diseases, electrolyte imbalances, acid-base homeostasis disorders, common endocrine diseases, diabetes 2. Knowledge of the biological materials used in the diagnosis of kidney diseases, laboratory diagnosis of hypertension and endocrine system diseases (including urinalysis, 24-hour urine collection, hormonal dynamic tests). The rules laboratory testing in kidney disease, hypertension and endocrine diseases, diabetes 3. Knowledge of the indications for performance and interpretation of laboratory tests in various kidney diseases, hypertension and diseases of the endocrine system (urinalysis, albuminuria, 24-hour urine collection, urine protein electrophoresis, urine microscopic examination, studies of hormones. Biochemical studies of blood: assessing renal function, serum electrolytes and selected dynamic tests in endocrine diseases)		
15. Number of students in groups	In accordance with the Senate Resolution	
16. Study materials	multimedia presentation, medical documentation, imaging test results student need: apron, stethoscope, medical shoes	
17. Location of classes	Department of Nephrology, Transplantation and Internal Medicine, Francuska 20-24, 40-027 Katowice	
18. Location and time for contact hours	Department of Nephrology, Transplantation and Internal Medicine, Francuska 20-24, 40-027 Katowice, time: 9am-2pm.	
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 basic clinical symptoms of kidney diseases, electrolyte imbalances, acid-base homeostasis disorders, common endocrine diseases, diabetes	E.W7.
P_W02 / C_K02	Student knows the types of biological materials used in laboratory diagnostic and knows the rules for the collection of materials	E.W7, E.W40, E.W41
P_W03 / C_K03	Student knows theoretical and practical bases of laboratory diagnostic	E.W.40, E.W41
P_U01 / C_S01	Student can taking case history in advanced level in patients with kidney diseases, electrolyte imbalances, acid-base homeostasis	E.U1

	disorders, common endocrine diseases, diabetes	
P_U02 / C_S02	Student can collect materials for laboratory diagnostics.	E.U28, E.U29
P_U03 / C_S03	Student can plan lab test and investigations	E.U16
P_U04 / C_S04	Student can interpretate results of laboratory tests	E.U24
20. Forms and topics of classes		Number of hours
21.1. Lectures		
Arterial Hypertension		2
Acute kidney injury		2
Chronic Kidney disease		2
Diabetes mellitus		2
Liver diseases. Myocardial Infarction.		2
22.2. Seminars		
Urinalysis		1,5
Endocrine disorders		1,5
Hypokalemia, hyperkalemia		1,5
Kidney functional test		1,5
Acute kidney injury, chronic kidney disease		1,5
Calcium-phosphate homeostasis disturbances		1,5
Diabetes mellitus		1,5
Liver diseases.		1,5
Acid-base homeostasis disturbances		1,5
Myocardial infarction		1,5
23.3. Labs		
Urinalysis		2
Endocrine disorders		2
Hypokalemia, hyperkalemia		2
Kidney functional test		2
Acute kidney injury, chronic kidney disease		2
Calcium-phosphate homeostasis disturbances		2
Diabetes mellitus		2
Liver diseases.		2
Acid-base homeostasis disturbances		2
Myocardial infarction		2
24. Readings		
Oxford Handbook of Clinical and Laboratory Investigation, Drew Provan, First press 2002, Oxford, New York		
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 regulations		

