

MED 4009 - Endocrinology

Course Name	Code	Semester	Type of Course	Theory (hours)	Group Work (hours)	ECTS
Endocrinology	MED 4009	VIII	Mandatory	20	36	4
Faculty, the educational program and education level	Faculty of Medicine, one-cycle Educational Program "Medicine"					
Author (s)	Ketevan Khitarishvili –invited teacher Mob.tel.: 577 46 75 89; e-mail: : kkhitari@yahoo.com Consultation day - individually					
Educational course format	Lecture Group work					
Educational course Loading	Total: 120 hours: Contact hours: 60 h 1. Lecture – 20 h 2. Team work – 36 h 3. Midterms – 2 h 4. Final exam -2 h Independent work – 60 h					
Prerequisites	MED 2008 - Sensory Organs and Endocrine System Disorders					
The purpose (s) of tutorial course/modules	The aims of this course to learn the endocrine system disorders, ethology, pathogenesis, diagnostics and prophylactics; facilitate students to apply theoretical knowledge to the investigation and management of patients with endocrine diseases.					
Teaching and learning methods	Lecture - Face-to-Face; Demonstration – (X-rays images),UZI images of endocrine glands, tables, schemes, slides; Discussion – questions and answers, answers analysis supported with visual aids; Analyses and synthesis – obtained images visualization, detailed discussion of observed structures, their assessment for diagnosing; Practical work in the endocrinology department of clinic: anamnesis collection, diagnostics, treatment (therapeutical and surgical); Abstract preparation and presentation - Students choose material from offered problematic topics or independently, search for appropriate material, will work with the books and present about 10 printed pages in PowerPoint format in auditorium for estimation.					

Assessment criteria	<p>Maximum score- 100:</p> <ul style="list-style-type: none"> • Midterm assessment -60 score, that includes: • Attendance -10 scores ; • Abstract preparation and presentation – 10 scores; • Practical skills (on the base of endocrinology department) -10 scores • Activity in group -10 scores • Midterm Exam – 20 scores <p>Abstract preparation and presentation’s criteria (10 scores - max.):</p> <ol style="list-style-type: none"> 1. Actuality of appointed problem – 2 score; 2. Research observation in the write of topic -2 sc. 3. Correctness of conclusion and the connection with the main text - 2 score 4. Writing culture – 2 sc. 5. Visual and technical side of the material – 1sc; 6. Accuracy and reliability of indicated references and literature sources – 1 score; <p style="text-align: center;">Group Work are Assessed Based on the Following Criteria (maximum 10 point)</p> <p>10 scores- Student has been able to present complete and thorough knowledge of the subject, a substantial amount of detailed and relevant information. Demonstrate considerable depth of understanding of the studied main and additional literature. Bring forward a balanced view of the main arguments on the issues.</p> <p>9 scores - Student has been able to bring forward a consistent number of deductions on most of the topics tackled. Make very good comments on the different perspectives on most of the issues. Demonstrates knowledge of the main readers.</p> <p>8 scores - Student has been able to bring forward a consistent knowledge, Has properly developed terminology. Demonstrates knowledge of the main readers.</p> <p>7 scores - Student has been able to present some factual information sufficiently linked with the topic. demonstrate a good understanding of the topics selected. make a good attempt to bring forward a balanced view of some arguments on the issues. Terminology is partially developed.</p> <p>6 scores - Student has been able to make some good comments on the different perspectives on some of the issues. Make poor deductions on most of the topics tackled. analyse some causes and results of human interactivity related to the issues.</p> <p>5 scores - Student has been able to demonstrate inconsistent comments on the different perspectives on some of the issues. Terminology is partially developed. Present mediocre level of knowledge. Make poor deductions.</p> <p>4 scores - Student demonstrates general overview of the topics. Terminology is not developed. Information sufficiently linked with the topic. Demonstrate irrelevant understanding of the literature.</p> <p>3 points – Student demonstrates general/superficial and inconsistent knowledge of the subject. No sufficient knowledge of the literature.</p> <p>2 scores - Student demonstrates general comments, no knowledge of the terminology, no consistency.</p> <p>1 score – Student demonstrates insufficient answer, not terminology awareness, chronologic manner of the answer, mostly wrong, no knowledge of literature.</p> <p>0 score: Student demonstrates not even elementary knowledge of the topics.</p>
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	<p>Midterm Exam – 20 scores</p> <p>Written test -40 question, 0,5 score for each – max 20; Minimal scores of midterm assessment (for final exam) – is 11.</p> <ul style="list-style-type: none"> • Final Exam -40 scores <p>Is held in the written test form (test consists of 80 questions, each question is rated as 0,5 score). The final exam would accounted as passed in case of maximum 70% or more (40X70 / 100 = 28 scores).</p> <p>Credit will be given to the student if he has collected at minimum 51 scores out of 100. Student’s assessment has to be done in the following way: Positive rate:</p> <ul style="list-style-type: none"> • (A) Excellent- 91 or more scores; • (B) Very Good- 81-90 scores; • (C) Good- 71-80 scores; • (D) Satisfactory- 61-70scores; • (E) Enough- 51-60 scores; <p>Negative rate:</p> <ul style="list-style-type: none"> • (FX) Failure - 41-50 scores, which means that a student needs to work more and an independent and considerable further work is required to pass the exam once again to be re-awarded; • (F) Fail – 40 scores or less, which means that the student's diligence is not sufficient and student has to learn the subject all over again. <p>Student can pass the additional exam during the same semester. The time interval between the final and the additional exams should be not less than 10 days.</p>
The basic literature	Edited by: J.Larry Jameson, Leslie J.De GrootEndocrinology (Volume I, II) Adult and Pediatric, Elsevier Saunders. VI. 2012
The auxiliary literature	Edited by: Lt Gen (Prof) Y SachdevClinical Endocrinology & Diabetes Mellitus (Volume I, II), Jeypee, I, 2008

The tutorial/training course content

№	Subjects	Lecture (hour)	Work in group (hour)
1	Introduction to endocrinology. Clinical and laboratory features of hypophysis gland	3	6

	hormonal punction		
2	Clinical and Laboratorial features of hypophysis disorders	3	3
3	Thyreodology. Thyroid gland and its diseases , the drugs which are used in their treatments	3	6
4	Calcium and vitamin D metabolism, parathyroid gland diseases.	3	6
	Midterm		2
5	Diabetes mellitus and its complications, dyslipidemia, obesity	3	6
6	Lipid metabolism's disorders: dyslipidemia, obesity, metabolic syndrome: clinical picture, diagnostics, treatment and profilactics	3	3
7	Adrenal gland disease and poly-glandular endocrine diseases: clinics, diagnostics and treatment	2	6
	Final Exam		2

Learning Outcomes

Criteria	Competences
Knowledge and Understanding	At the end of this course student will have deep and systematic knowledge of the endocrine diseases ethyology, pathogenesis, clinical picture, diagnostics, treatment and prevention measures.
Applying knowledge	Student will be able to: <ul style="list-style-type: none"> • Describe the specific sings and symptoms of endocrine system; • Provide diagnostics; • Panning the treatment process; • Monitor patients periodically
Making Judgment (Analysis and Synthesis)	Student will be able to collect and interprete properly the investigation radiological data of patients and make the valid conclusions. On the base of the theoretical and practical knowledge the scientific thinking and logical reasoning skills has to be formed to allow the student working out the appropriate strategy in the concrete academic an clinical situation
Communication Skills	Student can manage the different form of academic and scientific information from different sources (classic and electronic library, the Internet) to work fast and look for the relevant information effectively. These found materials has to be planned, processed,

analyzed, and to make the best use for the report with the proper conclusions as in in writing, as well as in verbal form.

Student can working in group, has watching, listening, summarizing, asking and answering questions abilities, is able to participate in the discussion. During the education process the professional and friendly relationship has to be formed with the older (professors / teachers) and younger (this and other groups students) colleagues, communication with any person regardless of their social, cultural, religious or ethnic affiliation.