

## COURSE REQUIREMENTS

<b>Semmelweis University, Faculty of Medicine</b> <b>Department of Internal Medicine and Hematology</b>
<b>Course name: Internal Medicine - Propedeutics</b> <b>Credit: 5</b> <b>Contact hours: 56</b> Lecture: 14 hours    practice: 42 hours <b>Type: <u>obligatory</u> / elective</b>
<b>Year: 2021-22</b>
<b>Subject code: AOKBHK743_1A</b>
<b>Course director: Dr. Tamás Masszi</b> <b>Title:</b> professor, department head <b>Date and number of habilitation:</b> 2010.06.07. 305 (Semmelweis University)
<b>Objective of the course and how it fits in the educational curriculum:</b>  Primary objective of the course is to have the student to acquire the basic skills of examination of a medical patient. Lectures will present the fundamental components of a complete medical patient interview and methods of physical examination. Bedside practices will allow students to gain experience in using these methods. Special emphasis will be placed on the of proper physician behavior with patients.
<b>Location:</b> Lectures: via Zoom Practices: Department of Internal Medicine and Hematology, according to group assignment
<b>Skills obtained by successful completion of the course:</b> Completion of the course will enable the student to develop a professional physician-patient relationship, learn the elements of medical interview and types of medical documentation. Students will also obtain knowledge and practice in basic physical examination. After completion of the course, students will have the opportunity to further their knowledge during the obligatory summer practice.
<b>Prerequisites of the course:</b> Completion of Hungarian medical terminology, Medical Biochemistry, Medical Physiology, Medical Biochemistry, Medical Communication
<b>Number of students (minimum, maximum) required to initiate the course</b> One sixth of the students registered at the Neptun system for the third year
<b>Registration to the course:</b> Through the Neptun system

**Detailed syllabus:**

Lectures will be delivered only during the fall semester to all students.

Practices will be held for students in the first 8 groups during the fall semester and for the second eight groups in the spring semester, evenly distributed between the Medical Departments.

Students will have their exams in the corresponding examination periods

**Lectures:**

duration: 1 contact hour = 1x45 minutes

1. week Patient interview, comprehensive health history.
2. week Techniques of physical examination: inspection, palpation, percussion, auscultation.
3. week Measurement and evaluation of body temperature. Evaluation of body weight, height, composition. Urinalysis, measurement of urine output.
4. week Physical examination of the thorax and lung.
5. week Physical examination of the heart. Pathophysiology of heart murmurs.
6. week Heart sounds and murmurs, diagnosis of valvular diseases.
7. week Evaluation of blood pressure, pulse, and vascular system.
8. week Physical examination of the abdomen and hernias.
9. week Signs, symptoms and differential diagnosis of "acute abdomen".
10. week Examination of the urogenital tract.
11. week Evaluation of the musculoskeletal system.
12. week Examination of the breasts. Patient with malignant neoplasm, ECOG classification.
13. week Examination of the lymph nodes. Physical and laboratory evaluation of the hematologic diseases.
14. week Signs and symptoms of diseases of the endocrine system.

**Practices:**

Duration: 3 contact hours = 3x45 minutes

1. week Introduction to medicine, history of the Korányi Clinic. Patient interview and health history
2. week Approach to symptoms, patient documentation (patient chart, flowsheet, follow up)
3. week Methods of physical examination: inspection, palpation
4. week Methods of physical examination: percussion, auscultation
5. week Practicing physical examination of the thorax and lung I.
6. week Practicing physical examination of the thorax and lung II.
7. week Practicing physical examination of the heart I.
8. week Practicing physical examination of the heart, ECG evaluation.
9. week Practicing blood pressure and pulse measurement, evaluation of the vascular system
10. week Practicing physical examination of the abdomen I.
11. week Practicing physical examination of the abdomen II.
12. week Practicing evaluation of changes in body temperature and examination of the urogenital system. Bedside blood glucose measurement.
13. week Practicing physical examination of the musculoskeletal system, breasts and lymph nodes.
14. week Summary and review

**Subjects (either obligatory or elective) the content of whose may overlap with the current course:**

Patient-physician relationship – medical communication, medical psychology

Patient documentation – Hungarian medical terminology

Measurement of vital signs, and basic physical parameters – summer nurse practice

ECG evaluation – ECG in clinical practice

**Additional assignments to be completed for the course:**

None

**Required attendance:**

According to the rules of the University, students are required to participate on at least 75% of all sessions. This is evaluated through attendance sheets signed by the tutor.

**Midterm evaluation:**

There is no formal midterm evaluation. Students are individually followed for their progress by the tutor of the group during the patient oriented practices. The objective is to allow the teacher and students develop a personal relationship with regular feed backs on their advances and areas that need further improvement.

**Requirements for obtaining the signature for the course:**

Participate on at least 75% of all sessions. At the end of the semester, once the tutor certified that the student met this requirement be evaluating the attendance sheets, the course director grants credits to students in the Neptun system.

**Exam type:**

semi-final, oral and patient examination

**Method of the exam:**

Required lexical knowledge comprise of the textbook and lecture material.

The exam has two parts: bedside patient examination followed by answering two questions from the topic list.

1. During bedside patient examination the student is required to demonstrate the acquired skills in taking medical history and physical examination
2. The oral question part allows the student to demonstrate lexical knowledge.

Topic list for the oral questions

1. Components of a comprehensive patient interview, medical history
2. Significance of inspection in the physical examination
3. Pulmonary findings during auscultation
4. How to differentiate pneumonia, pleural effusion, bronchitis, asthma pneumothorax with physical examination
5. Physical signs of dispoene, their causes and differentiation
6. Rules of auscultating the heart, heart sounds and murmurs
7. Systolic murmurs
8. Diastolic murmurs
9. Diagnosing mitral stenosis with physical examination
10. Diagnosing mitral insufficiency with physical examination
11. Diagnosing aortic stenosis with physical examination
12. Diagnosing aortic insufficiency with physical examination
13. Physical signs and symptoms a circulatory failure
14. Physical examination of the large vessels, arteries and veins
15. Measuring body temperature, types of fever
16. Significance of changes in complete blood count and differential count
17. Signs of iron deficiency
18. Palpation of the spleen, causes of splenomegaly
19. Examination of the lymph nodes. Causes of lymphadenomegaly
20. The significance of scoring performance status in oncological diseases
21. Methods and significance of assessing bone mineral density
22. Methods of examining the urogenital system. Signs of urinary tract infection
23. Palpation and auscultation of the abdomen. Abnormal findings

<p>24. Diagnosis of acute abdomen, list possible causes</p> <p>25. Physical findings in patient with ascites</p> <p>26. Physical examination of the liver</p> <p>27. Signs and symptoms of gall bladder stones, examination methods</p> <p>28. Signs and symptoms of acute and chronic cholecystitis, examination methods</p> <p>29. Signs and symptoms of acute and chronic pancreatitis, examination methods</p> <p>30. Signs and symptoms of diseases of the small and large intestine, examination methods</p> <p>31. Diagnosis of acute appendicitis</p> <p>32. Signs and types of ileus</p> <p>33. Physical signs and symptoms of endocrine diseases</p>
<p><b>Scoring the exam results:</b> A score from 1 (fail) to 5 (excellent) is given, that is the mean of the scores obtained for the oral and bedside patient examination</p>
<p><b>Registration to the exam:</b> through the Neptun system</p>
<p><b>Repeat exams, failed exams:</b> According to the general rules of the University</p>
<p><b>Suggested print, electronic, online material</b> -lecture slides provided online through the Moodle</p> <ol style="list-style-type: none"> <li>1. Kasper– Fauci –Hauser – Longo – Jameson – Loscalzo: Harrison’s Principles of Internal Medicine. 20th Ed., 2018</li> <li>2. <b>Lynn S. Bickley: Bates’ Guide to Physical Examination and History Taking. 12th Ed., 2017.</b></li> <li>3. Papadakis – McPhee – Rabow: CURRENT Medical Diagnosis and Treatment. 2018.</li> <li>4. Porter: The Merck Manual of Diagnosis and Therapy. 20th Ed., 2018</li> </ol>
<p><b>Signature of the course director:</b></p>
<p><b>Signature of the host institution:</b></p>
<p><b>Submission date:</b></p>

<p><b>OKB decision:</b></p>
<p><b>Notes of the dean:</b></p>
<p><b>Deans’ signature:</b></p>