

SUMMER (INTERNAL MEDICINE) PRACTICE

Managing (and contributing) institutes:

Department of Internal Medicine and Hematology

Department of Internal Medicine and Oncology

In English: Internal medicine summer practical

Total hours: practice: 40 hours/week for 4 weeks

Type of course: compulsory

Course code: AOKNSG893_1A

Responsible for course: Prof. Dr. Tamás Masszi, Prof. Dr. István Takács

Aim of the course, its position in the medical curriculum:

The main aim of the internal medicine summer practical following the 6th semester is, apart from practicing taking medical history and performing physical examination, detailed introduction to and participation in practical clinical work, as well as utilisation of obtained preclinical knowledge. Acquiring the basics of the integrative approach of internal medicine, practicing differential diagnostics.

Location of course (address of lecture-hall, seminar room, etc.):

Department of Internal Medicine and Hematology

Department of Internal Medicine and Oncology

External training sites (see list of accepted practical locations)

Acquired competences after successfully completing the course:

Practical and internal medical utilisation of knowledge obtained during theoretical courses and propedeutics within the internal medicine famulus practical. The goal is that the student is able to receive the patient, start examination, set up diagnostic and, as far as possible, treatment plan, as well as to perform routine treatment, under supervision. Furthermore, the aim is to acquire professional and human communication skills with medical staff, patients and their relatives.

Prerequisite(s) for admission to the course:

Attendance requirements of propedeutics and signature in propedeutics. Successful exam in propedeutics is not a criterium for attending summer practical.

Student enrolment requirements (minimum, maximum), method of student selection:

Based on registration in the Neptun system maximum 25 students per shift per Department.

How to apply for course:

In Neptun system

Detailed syllabus:

Students participate in practice 8 hours daily, 5 days a week for 4 weeks

General syllabus:

Introduction to the internal medical ward and the hospital.

Examination of patient, treatment of assigned patients at an assistant physician level under supervision, according to only partial pharmacological knowledge.

Medical history:

taking medical history of patient, documenting the organised collected information with medical terms.

interpretation of medical history in patient's documentation (abbreviations, recognition of connection of events)

considering an expected home treatment based on medical history

Medication

connecting the name of the patient's medications with the active ingredients

identifying indication of drugs (in medical history)

setting up a medical treatment plan for the condition indicated upon admission

Physical examination

practicing head-to-toe examination and its professional description

practicing targeted examination (e.g. patient with dyspnoea, anaemia, hepatic cirrhosis)

recognising connection between acquired results of physical examination and medical history

Practicing the most important medical interventions

Measuring pulse, blood pressure, temperature, weight, blood glucose

Administration methods of medication

Blood sample collection, injection administration, insulin administration, utilisation of pen (perhaps insulin pump)

Prepare and administer infusions with supervision, introduction to transfusion

Utilisation of diagnostic devices (ECG, Doppler, ultrasound, monitor, blood gas)

Introduction to patient's documentation (patient's chart, medical record, glucose chart, fluid chart, critical patient sheet), individual documentation. Professional demonstration of patient case known and followed by student on clinical rounds.

Acquiring skills of communication with patient and relatives, especially of informing patient and confidentiality. Become familiar with informed consents required for interventions, their introduction to patient, obtaining consent.

As far as possible, participation in consultations, in imaging diagnostics, in examination with devices, in clinical pathological consultations, especially in case of patient's known by student.

Participation in professional consultations of the institute.

Schedule

8:00-8:15 AM short meeting about events of night shift, daily tasks

8:15-9:30 AM medical rounds at ward - making rounds in the ward with the ward physician

9:30-10:00 AM clinical case consultation

10:00-10:20 AM coffee break

10:20-11:00 AM participation in ward tasks, participation in scheduled examinations, admission of new patients

11:00 AM-12:00 PM medical rounds with senior physician of ward

12:00-12:30	PM midday medical consultation
12:30-01:00	PM lunch break
01:00-01:30	PM assessment of and consultation on laboratory findings
01:30-02:00	PM consultation on daily tasks, reviewing and correction of documentation, reviewing activities log book, discussion of home study

Cross-border issues of the given course related to other courses (compulsory and elective). Possible overlaps in curriculum: general hospital bedside practice, practical basics of clinical courses

Special study work required to complete the course:

Activities

The student prepares an activity log book during the practical. Each student follows the patient turnover of a hospital bed. Student prepares medical record for the patient assigned to the bed and documents daily events. Student may analyse and explain patient's medication, details of therapy (e.g. choice of antibiotics, adjusting medication of cardiac insufficiency, etc.). Student may document main points of examinations, interventions, consultations they participated in during the day. The log book may be electronic or hand-written.

Requirements for participation in classes and opportunities to make up for absences:

According to the Studies and Exams Code, the criteria for obtaining signature is at least 75% participation in the practical.

Examination of acquired knowledge during term:

cannot be interpreted

Type of exam: report

Exam requirements:

Presentation of activity log book, exam on the subjects listed in the general syllabus within the context of a bedside consultation.

Method and type of class marks:

The completion of the practical is confirmed by a signature. Confirmation is given based on the activity shown during the practical and the complex patient examination at the end of the practice.

How to apply for the exam:

Application happens automatically when applying for the practical.

Opportunity to repeat the exam:

Not applicable.

The list of printed, electronic and online notes, textbooks, study aids and literature to be used for to learn the curriculum (in case of online sources, html address): Bickley, L.S.-: Bates' Guide to Physical Examination and History Taking. 12th ed. Wolters Kluver, 2016.

Practical examination

1. taking medical history of a given patient, documenting the organised collected information with medical terms, complete physical examination of patient and its professional presentation (may be performed previously during the days before the exam, student is expected to present the documentation in the test)
2. theoretical and practical consultation on one item of the exam items.

Exam items

1. targeted examination of patient with dyspnoea
2. targeted examination of patient with anaemia
3. targeted examination of patient with renal insufficiency
4. targeted examination of patient arriving with chest pain
5. targeted examination of patient with fever
6. measurement of pulse, bedside diagnostics of vascular stenosis
7. blood pressure measurement technique, ABPM, assessing values of blood pressure measured at home
8. describing transfusion process (indication, choosing blood supply, bedside tasks)
9. blood glucose measurement (technique), assessing glucose chart, therapy recommendations
10. practical instructions on insulin treatment, describing utilisation of pen
11. primary/hospital treatment of hypoglycaemic patient
12. primary treatment of patient with ketoacidosis
13. diagnosis and treatment of pleural effusion
14. diagnosis and treatment of ascites
15. arterial blood gas analysis (technique, assessment)
16. recognising septic patient/patient in critical condition (ABCDE), report on condition (SBAR)
17. examination procedure of patient with icterus
18. utilisation of bedside ultrasound device
19. administration methods of medication, preparation of infusion
20. placement technique of urinary catheter