Semmelweis University, Faculty of Medicine
Name(s) of the Institute(s) teaching the subject:
Department of Psychiatry and Psychotherapy

<table>
<thead>
<tr>
<th>Name of the subject: Psychiatry</th>
<th>Credits: 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of hours: 160 lectures: 0 practices: 4 weeks seminars: 0</td>
<td></td>
</tr>
<tr>
<td>Type of the course (mandatory/elective): mandatory</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Academic year: 2019/2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code of the course: AOKPSI605_SA</td>
</tr>
</tbody>
</table>

Course director (tutor): Dr. Réthelyi János M.D., Ph.D.
Contact details: Department of Psychiatry and Psychotherapy, 1083 Budapest, Balassa u. 6., Tel/Fax: 061 210 0336
Position: Head of the department, professor
Date of habilitation and reference number: 24/06/2015; 05/2015.

Aim of the subject and its place in the curriculum:
The sixth-year course of Psychiatry aims to implement the previously learned theoretical and practical knowledge into clinical work. Course completion requires students to write and defend a psychiatric case report.

Location of the course (lecture hall, practice room, etc.): The practical course is taught at the in-patient wards of the Department (Psychotherapy ward, Crisis and addiction treatment ward, Organic psychiatric disorder treatment and rehabilitation ward, Acute psychiatric ward, Affective psychiatric disorders ward) and the in-patient psychiatric wards of the collaborating institutions.
<table>
<thead>
<tr>
<th>Competencies gained upon the successful completion of the subject:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Recording the patient’s history (general, somatic, psychiatric, pharmacological and family history)</td>
</tr>
<tr>
<td>• Complex psychiatric examination (assessing the consciousness, perception, orientation, thought, intellect; emotional and memory functions; mood, and psychomotor functions of the patient; assessment of attitude towards examiner, motivation system and personality functions)</td>
</tr>
<tr>
<td>• Suicide risk assessment</td>
</tr>
<tr>
<td>• Family consultation to uncover the patient’s problems</td>
</tr>
<tr>
<td>• Exploration of patients after suicide attempts or in crisis situations.</td>
</tr>
<tr>
<td>• Interpretation of the Mini Mental State Examination results</td>
</tr>
<tr>
<td>• Indication of psychiatric inpatient treatment</td>
</tr>
<tr>
<td>• First steps of emergency psychiatry care</td>
</tr>
<tr>
<td>• Identification of different intoxications</td>
</tr>
<tr>
<td>• Recognition of somatic disorders underlying psychiatric symptoms</td>
</tr>
<tr>
<td>• Management of immediately dangerous behaviours</td>
</tr>
<tr>
<td>• Psychoeducation (regarding the disorder, therapy, prodromal signs, patient care)</td>
</tr>
<tr>
<td>• Differential diagnosis of psychiatric disorders; making a diagnosis</td>
</tr>
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</table>

<table>
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<tr>
<th>Prerequisite(s) for admission to the subject:</th>
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<tbody>
<tr>
<td>All mandatory subjects of the 10 semesters must be completed.</td>
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</table>

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<tr>
<th>Minimum and maximum number of students registering for the course:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Student selection method in case of oversubscription:</strong></td>
</tr>
<tr>
<td>There is no minimum or maximum limit in the number of students applying for the course.</td>
</tr>
<tr>
<td>All students in the six year are obliged to register for the Psychiatry course.</td>
</tr>
</tbody>
</table>

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<tr>
<th>How to register for the course:</th>
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<tbody>
<tr>
<td>Registration for the course is available through the Neptun System.</td>
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</tbody>
</table>
Detailed topics of the course:
Final year medical students are expected to fully participate at the medical duties of the inpatient wards, e.g. rounds, staff meetings and training sessions. Students expected to perform the regular medical duties under supervision: patient examination, exploration, and writing psychiatric case reports or hospital course reports. To complete their course, students must prepare at least one detailed psychiatric case report that will be corrected and graded by their tutors. EVENING DUTY: Students are required to actively participate at one of the evening duties during the four-week-long compulsory rotation. During their duty day students are at work at the Out-patient unit (Ambulancia) between 1 pm-4 pm and join the night duty team until 9 pm. After 9 pm, students may opt in for the rest of the night duty if they want to. The topics of psychiatry required for this course are identical to the topics for the final exam published online at the Department’s homepage.

Detailed objectives of the course

Psychiatric examination:
- Recording general history of the patient
- Recording biography
- Recording social history
- Recording family history
- Reporting family members
- Examination of consciousness
- Examination of perception
- Examination of orientation
- Assessing intellectual functions
- Assessing memory functions
- Examination of thought (formal and content)
- Examination of emotional functions
- Examination of mood and self-perception
- Examination of behaviour

Additional examinations and skills:
- Recording the psychiatric status; drawing up global clinical impressions
- Suicidal risk assessment
- On the basis of the patient’s self-report and the results of the examination, identifying the problems, (personal, existential, familial, etc.)
- Exploring problems in crisis situation
- Exploring problems after suicide attempt
- Recognizing and understanding personal emotional reactions emerging as a result of interacting with patients
- Professional way of referring observed psychiatric symptoms/disorders to colleagues (referral, consultation)
- Mini Mental State Examination
- Differential diagnosis according to the DSM-5
- Identification of psychiatric conditions requiring psychiatric hospitalization.

Clinical knowledge psychiatry:
- Emergency psychiatry: definition, conditions requiring emergency psychiatric care.
- Patients with psychomotor retardation or aggressive/agitated behavior: possible causes and the principles of examination.
- Suicidal behavior: Manifestation, prevalence in general population and in patients with mental disorders. Protective and risk factors and prevention of suicide.
- Nonsuicidal self-harm: Manifestation, etiology, examination and distinction from suicidal attempt.
- Delirium: definition, symptoms and etiology.
- Dementias: classification, symptoms, principles of examination, MMS
**Potential overlap(s) with other subjects:**

**Special training activities required:** None

**Policy regarding the attendance and making up absences:**
A minimum attendance of 80% is required for course completion. Students may make up for absences by taking extra duties suggested by their tutor, for example night duty, admission of patients, etc. Absences owed to sickness must be confirmed with valid medical certificate.

**Evaluation of students’ knowledge gained during the semester:**
Student’s knowledge will be evaluated during tutoring according to the topics published online on the Department’s homepage.

**Requirement for completion of the semester (signature):**
Student must complete the tasks and duties assigned by their supervisors according to the topics detailed above. To complete the course, students must submit a detailed psychiatric case report to their tutors and record the course in the registry sheet.

**Type of the examination:** Final exam

**Exam requirements:**
The final exam in Psychiatry tests students’ theoretical knowledge based on the textbook and the e-learning material must be closely attached to their six-year practice. The latter is available on the website of the Department of Psychiatry and Psychotherapy.

**Type and method of grading:**
Grades at the final exam are based on the oral presentation of two exam topics.

**How to register for the exam:**
Registering for the final examination in Psychiatry is possible within the Neptun system. Registration is possible until 6 am on the day of the final exam. Deregistering from the final exam date is possible until midnight of the actual examination day.

**Opportunities to retake the exam:**
Retake of the final exam may be possible immediately after the day of the unsuccessful examination.

**Literature, i.e. printed, electronic and online notes, textbooks, tutorials (URL for online material):**

**Signature of the tutor:**

**Signature(s) of the head(s) of the Institute(s):**

**Date:**

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**Credit Transfer Committee’s opinion:**

**Comment of the Dean’s Office:**

**Signature of the Dean:**
Csak abban az esetben kell megadni, ha a tárgy az adott nyelven is meghirdetésre kerül.

Dékáni Hivatal tölti ki, jóváhagyást követően.

Az elméleti és gyakorlati oktatást órákra (hetekre) lebontva, sorszámozva külön-külön kell megadni, az előadók és a gyakorlati oktatók nevével feltüntetésével. Mellékletben nem csatolható!

Pl. terepgyakorlat, körképelmészés, felmérés készítése, stb.

Pl. házi feladat, beszámoló, zárlathelyi stb. téma körére és időpontja, pótlásuk és javításuk lehetősége.

Elméleti vizsga esetén kérjük a tétesor megadását, gyakorlati vizsga esetén a vizsgázttatási téma körét és módját.

Az elméleti és gyakorlati vizsga beszámitásának módja. Az évközi számonkérők eredményeink beszámítási módja.
<table>
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<tr>
<th>Semmelweis University, Faculty of Medicine</th>
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<tr>
<th>Name of the subject: Traumatology</th>
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<tbody>
<tr>
<td>Credits: 0</td>
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<tr>
<td>Total number of hours: 80 lectures: 80 practices: 80 seminars:</td>
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<td>Type of the course (mandatory/elective): Mandatory</td>
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<th>Academic year: 2019/2020</th>
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<tbody>
<tr>
<td>Code of the course¹: AOKTRA615_1A</td>
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<tr>
<td>Course director (tutor): Prof. Dr. Hangody László</td>
</tr>
<tr>
<td>Contact details: Semmelweis University Traumatology Department</td>
</tr>
<tr>
<td>Tel: 06 1 467 3851</td>
</tr>
<tr>
<td>Position: Head of department</td>
</tr>
<tr>
<td>Date of habilitation: May 24, 2003</td>
</tr>
<tr>
<td>Reference number: 10/2003</td>
</tr>
</tbody>
</table>

**Aim of the subject and its place in the curriculum:**

Traumatology as a specialty deals with the treatment of injured patients, independent of the injured organ, patient’s age or previous diseases. In developed countries, the 4-5th leading cause of death is injury, while in the actively working population, the rate of death is even higher. Morbidity in children and in the elderly is also high. Since the patient examination and therapeutic algorithm somewhat differ from the previously taught examination and treatment methods in the curriculum, our aim is to offer a general and practical approach to treating trauma patients for students. The prerequisite for 6th year Traumatology is the material and exam from the 5th year in Traumatology, to be used in a more practical manner. Beside this, familiarization and active participation in the daily routine of a Traumatology department play a role in the students’ curriculum.
Location of the course (lecture hall, practice room, etc.):

- Uzsoki Hospital, Department of Orthopedics-Traumatology, Conference room (ground floor)
  1145 Budapest, Uzsoki street 29-41.

- Péterfy Traumatology Center, Conference room (8th floor)
  1081 Budapest, Fiumei street 17.

- In the Member States of the European Union (and in Switzerland and Norway), clinical practice is accepted and recognized if it is earned at a Traumatology or Orthopedic-Traumatology department at state-accredited university clinics or teaching hospitals – the legal ground for this is the mutual recognition of diplomas issued by the accredited institutions

- Abroad at a Traumatology or Orthopedic-traumatology department of an accredited teaching hospital accredited by the Hungarian Accreditation Committee – HAC (this can be checked on the following website: [http://www.semmelweis-english-program.org/index.php?option=com_content&task=view&id=79&Itemid=101](http://www.semmelweis-english-program.org/index.php?option=com_content&task=view&id=79&Itemid=101) under the link: Approved Health Institutes for 6th year Rotations).

- Abroad in the country of students’ choice, which has been approved by the department (which meet the requirements posted on the Traumatology Department’s website)

Competencies gained upon the successful completion of the subject:

During practices, students will have the opportunity to learn the following: physical examination of injured patients, bandaging, suturing, casting techniques, and the uses of orthesises and splints. Consultation of typical and the more frequent trauma cases, radiologic diagnostics, as well as shadowing, observing and/or assisting in the operating theater are also part of the curriculum. In the ER, students will have an opportunity to examine and participate in the trauma care of patients under supervision.

Prerequisite(s) for admission to the subject:

Traumatology V

Minimum and maximum number of students registering for the course:

Student selection method in case of oversubscription:

Minimum: 1
Maximum (Depends on each teaching hospital’s capacity)

How to register for the course:

Neptun
Detailed thematic of the course:

1. Daily attendance of morning conference. After becoming acquainted with the introduced cases, students will have the opportunity to examine the hospitalized patients and familiarize themselves with patient’s documentation.
2. Assisting or observing in the operative theater, depending on the operative program.
3. Students shall participate in patient admission, examination, follow and help in the evaluation of the diagnostic examinations, and take part in the acute treatment of traumatized patients during on duty shifts.
4. Participating in grand rounds, patient presentation, and following up on referrals.
5. Consultation with attending tutor of actual clinical cases, planning the treatment and the course of patient follow up.
6. Taking part in patient follow up examinations. Examining the range of motion, function, evaluating x-rays and CT scans. Identification and treatment of complications.

Detailed syllabus:

1. First Aid
2. Evaluation of the mental-stage/orientation with the Glasgow-score
3. Evaluating and management of external wounds
4. Termination of bleeding
5. Transportation of trauma patient
6. Transient fixating bandage of traumatic part of body
7. Preparation of the surgical area
8. Surgical scrub-in and clothing
9. Infiltrational anaesthesia
10. Incision and drainage
11. Management of infected, necrotic wound
12. Closure
13. Stitch removal
14. Applying pressure-bandage
15. Reuniting closed fractures
16. Fracture stabilization
17. Reduction of dislocation
18. Transient fixation of broken extremities
19. Insertion of Foley’s catheter in men
20. Insertion of Foley’s catheter in women
21. Venous-canulating
22. Pain management
23. Assisting surgical procedures

Potential overlap(s) with other subjects:
Orthopedics, First aid, Sports Medicine, Neurotraumatology, Hand Surgery, General Surgery

Special training activities required:
-
Policy regarding the attendance and making up absences:

The complete attendance of the two week (80 hours, including the 12 hour on-duty shift) practice as well as the completion of the syllabus signed by the tutor is mandatory. The certificate/attendance sheet and syllabus must be handed in / scanned and emailed to the Traumatology Department upon completion of the practice with the certificate.

20 hours of absence is allowed if the student can provide documents of medical treatment, and this absence can be made up at a later time which is convenient for the tutor. Absence of more than 20 hours cannot be made up and we cannot accept the practice for the student.

Means of assessing the students’ progress during the semester⁴:

The interactive seminars and practices allows for the assessment of students’ progress. There will be no formal test/quiz during the practice week.

Requirement for acknowledging the semester (signature):

The complete attendance of the two week (80 hours, including the 12 hour on-duty shift) practice as well as the completion of the syllabus signed by the tutor is mandatory. The certificate/attendance sheet and syllabus must be handed in / scanned and emailed to the Traumatology Department upon completion of the practice with the certificate.

Type of the examination:

Oral exam. One traumatolgy topic within the surgery exam.

Exam requirements⁵:

The knowledge of the given textbook, lecture and practice material including that of V. year. One topic is chosen from a topic list.

Type and method of grading⁶:

Oral exam grade (averaged with the surgery topics), base on a 5 grade scale (1-5)

How to register for the exam:

Neptun program

Opportunities to retake the exam:

Retaking of the oral exam organized by the Surgery department.
Literature, i.e. printed, electronic and online notes, textbooks, tutorials (URL for online material):

**Name of Textbook:**
The Trauma Manual: TRAUMA AND ACUTE CARE SURGERY
Third edition

Editors:
Andrew B. Peitzman
Michael Rhodes
C. William Schwab
Donald M. Yealy
Timothy C. Fabian

Publisher:
Wolters Kluwer / Lippincott Williams & Wilkins

**Internet**
The lecture material can be downloaded from Semmelweis University’s E-learning portal
https://itc.semmelweis.hu/moodle/?lang=en

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<th>Signature(s) of the head(s) of the Institute(s):</th>
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Credit Transfer Committee’s opinion:

Comment of the Dean’s Office:

Signature of the Dean:

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1 Dékáni Hivatal tölöti ki, jóváhagyást követően.
2 Az elméleti és gyakorlati oktatást órákra (hetekre) lebontva, sorszámozva külön-külön kell megadni, az előadók és a gyakorlati oktatók nevének feltüntetésével. Mellékletben nem csatolható!
3 Pl. terepgyakorlat, kórlapelemzés, felmérés készítése stb.
4 Pl. házi feladat, beszámoló, zárrható stb. témaköre és időpontja, pótlásuk és javításuk lehetősége.
5 Elméleti vizsga esetén kérjük a tételkor megadását, gyakorlati vizsga esetén a vizsgázat néhány témakörét és módját.
6 Az elméleti és gyakorlati vizsga beszámításának módja. Az évközi számonkéréshez eredményeink beszámítás módja.
## REQUIREMENTS

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<tr>
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<td>Code of the course¹: AOKTRA651_1A</td>
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| Course director (tutor): Prof. Dr. Hangody László |
| Contact details: Semmelweis University Traumatology Department |
| Tel: 06 1 467 3851 |
| Position: Head of Department |
| Date of habilitation: May 24, 2003 |
| Reference number: 10/2003 |

### Aim of the subject and its place in the curriculum:

Traumatology as a specialty deals with the treatment of injured patients, independent of the injured organ, patient’s age or previous diseases. In developed countries, the 4-5th leading cause of death is injury, while in the actively working population, the rate of death is even higher. Morbidity in children and in the elderly is also high. Since the patient examination and therapeutic algorithm somewhat differ from the previously taught examination and treatment methods in the curriculum, our aim is to offer a general and practical approach to treating trauma patients for students. The prerequisite for 6th year Traumatology is the material and exam from the 5th year in Traumatology, to be used in a more practical manner. Beside this, familiarization and active participation in the daily routine of a Traumatology department play a role in the students’ curriculum.
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**Competencies gained upon the successful completion of the subject:**

During practices, students will have the opportunity to learn the following: physical examination of injured patients, bandaging, suturing, casting techniques, and the uses of orthoses and splints. Consultation of typical and the more frequent trauma cases, radiologic diagnostics, as well as shadowing, observing and/or assisting in the operating theater are also part of the curriculum. In the ER, students will have an opportunity to examine and participate in the trauma care of patients under supervision.

**Prerequisite(s) for admission to the subject:**

Traumatology IV

**Minimum and maximum number of students registering for the course:**

Student selection method in case of oversubscription:

Minimum: 1
Maximum (Depends on each teaching hospital’s capacity)

**How to register for the course:**

Neptun
Detailed thematic of the course:

1.) Daily attendance of morning conference. After becoming acquainted with the introduced cases, students will have the opportunity to examine the hospitalized patients and familiarize themselves with patient’s documentation.
2.) Assisting or observing in the operative theater, depending on the operative program.
3.) Students shall participate in patient admission, examination, follow and help in the evaluation of the diagnostic examinations, and take part in the acute treatment of traumatized patients during on duty shifts.
4.) Participating in grand rounds, patient presentation, and following up on referrals.
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22. Pain management
23. Assisting surgical procedures

Potential overlap(s) with other subjects:
Orthopedics, First aid, Sports Medicine, Neurotraumatology, Hand Surgery, General Surgery

Special training activities required:
**Policy regarding the attendance and making up absences:**

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**Means of assessing the students’ progress during the semester**:  

The interactive seminars and practices allows for the assessment of students’ progress. There will be no formal test/quiz during the practice week.

**Requirement for acknowledging the semester (signature):**

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**Type of the examination:**

Oral exam. One traumatolgy topic within the surgery exam.

**Exam requirements:**

The knowledge of the given textbook, lecture and practice material including that of V. year. One topic is chosen from a topic list.

**Type and method of grading:**

Oral exam grade (averaged with the surgery topics), base on a 5 grade scale (1-5).

**How to register for the exam:**

Neptun program

**Opportunities to retake the exam:**

Retaking of the oral exam organized by the Surgery department.
**Literature, i.e. printed, electronic and online notes, textbooks, tutorials (URL for online material):**

**Name of Textbook:**
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**Internet**
The lecture material can be downloaded from Semmelweis University’s E-learning portal  
https://itc.semmelweis.hu/moodle/?lang=en

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**Signature of the tutor:**

**Signature(s) of the head(s) of the Institute(s):**

**Date:**

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**Credit Transfer Committee’s opinion:**

**Comment of the Dean’s Office:**

**Signature of the Dean:**

---

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4 Pl. házi feladat, beszámoló, zárthelyi stb. témaköre és időpontja, pótlásuk és javításuk lehetősége.
5 Elméleti vizsga esetén kérjük a tételsor megadását, gyakorlati vizsga esetén a vizsgázatát témakörét és módját.
6 Az elméleti és gyakorlati vizsga beszámításának módja. Az évközi számonkérések eredményeink beszámítási módja.
**REQUIREMENTS**

<table>
<thead>
<tr>
<th>Semmelweis University, Faculty of Medicine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name(s) of the Institute(s) teaching the subject: Department of Family Medicine</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name of the subject: 1 week Family medicine practice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credits: 0</td>
</tr>
<tr>
<td>Total number of hours: 40 lectures: - practices: 5*8 seminars: 0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of the course (mandatory/elective): mandatory</th>
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<table>
<thead>
<tr>
<th>Academic year: 2019/2020</th>
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<table>
<thead>
<tr>
<th>Code of the course: AOKCSA154_SA</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Course director (tutor): Prof. Dr. Kalabay László</th>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Contact details: 06-1-355-8530</th>
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<table>
<thead>
<tr>
<th>Position: Director</th>
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</table>

<table>
<thead>
<tr>
<th>Date of habilitation and reference number: 205/2003</th>
</tr>
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<table>
<thead>
<tr>
<th>Aim of the subject and its place in the curriculum:</th>
</tr>
</thead>
</table>

Family practice training is based on a one-to-one model involving a tutor and a medical student. The training is practice oriented. Medical students can gain experience about what kind of work a family practice involves while taking an active part in managing the consulting hours and being involved in patient treatment and care and screening.

<table>
<thead>
<tr>
<th>Location of the course (lecture hall, practice room, etc.):</th>
</tr>
</thead>
</table>

Accredited tutorial practices

<table>
<thead>
<tr>
<th>Competencies gained upon the successful completion of the subject:</th>
</tr>
</thead>
</table>

Medical students working together with the family practice team are involved in patient care during the consulting hours as well as in the patients’ home. During the training they learn how to

- do physical examination
- make a diagnosis
- make a differential diagnosis
- set up a therapeutic plan
- write a case study
  – manage paperwork and patient data recording
  – manage expert activity

The medical students’ communicative skills develop and they get to know the statistical characteristics of the practice as well as the patient flow, morbidity and mortality data of the practice they are trained at.

During the training medical students are expected to keep a practice training diary and to shortly document the cases they meet (and to make detailed documentation of one particular case).

<table>
<thead>
<tr>
<th>Prerequisite(s) for admission to the subject:</th>
</tr>
</thead>
</table>

Internal medicine, Pharmacology, Laboratory medicine, Family Medicine, Public Health
<table>
<thead>
<tr>
<th>Minimum and maximum number of students registering for the course:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Student selection method in case of oversubscription:</strong></td>
</tr>
<tr>
<td>Where they are assigned</td>
</tr>
</tbody>
</table>

| **How to register for the course:**                          |
| To register for the course in the 'Neptun’ system             |

<table>
<thead>
<tr>
<th><strong>Detailed thematic of the course</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>In a one-week training:</td>
</tr>
<tr>
<td>Paperwork and data management</td>
</tr>
<tr>
<td>Registration of a new patient and setting up a patient care summary for them</td>
</tr>
<tr>
<td>Making out a prescription by hand</td>
</tr>
<tr>
<td>Writing a referral (to hospital or to consultation)</td>
</tr>
<tr>
<td>Compiling a therapeutic sheet and updating it</td>
</tr>
<tr>
<td>Expert activity</td>
</tr>
<tr>
<td>Judging whether the patient is fit for work and managing sick leave documentation</td>
</tr>
<tr>
<td>Compiling patient data for official rehabilitation and social assessment</td>
</tr>
<tr>
<td>Examining patients, diagnosis/therapy</td>
</tr>
<tr>
<td>Recognising and treating upper and lower respiratory infections</td>
</tr>
<tr>
<td>Recognising and treating urogenital infections</td>
</tr>
<tr>
<td>Recognising and treating gastrointestinal infections</td>
</tr>
<tr>
<td>Therapy/care</td>
</tr>
<tr>
<td>Therapy, care and rehabilitation of cardiovascular and hypertonic patients</td>
</tr>
<tr>
<td>Therapy, care and rehabilitation of diabetic patients and patients with metabolic diseases</td>
</tr>
<tr>
<td>Therapy, care and rehabilitation of cancer patients</td>
</tr>
<tr>
<td>Therapy, care and rehabilitation of patients with musculoskeletal diseases</td>
</tr>
<tr>
<td>Therapy, care and rehabilitation of patients with cardiorespiratory diseases</td>
</tr>
</tbody>
</table>

| **Potential overlap(s) with other subjects:**                |
| Internal medicine – Diagnosing and treating symptoms        |
| Public health issues and preventive medicine – communicable diseases, diseases to notify |
| Surgery – acute abdominal symptoms, treatment of wounds     |

| **Special training activities required**:                    |
|                                                            |

| **Policy regarding the attendance and making up absences:** |
| It’s compulsory for the student to attend 75 percent of the training sessions. |

| **Means of assessing the students’ progress during the semester**: |
| During the short training period there is no assessment.         |

| **Requirement for acknowledging the semester (signature)**:      |
| Attending the training sessions, a completed diary and an assessment sheet filled in by the tutor. |

| **Type of the examination**:                                    |
| Not relevant                                                   |

| **Exam requirements**:                                         |
| Not relevant                                                   |

| **Type and method of grading**:                                |
| Not relevant                                                   |

| **How to register for the exam**:                              |
| Not relevant                                                   |
Opportunities to retake the exam:
Not relevant

Literature, i.e. printed, electronic and online notes, textbooks, tutorials (URL for online material):

Signature of the tutor:

Signature(s) of the head(s) of the Institute(s):

Date:

Credit Transfer Committee’s opinion:

Comment of the Dean’s Office:

Signature of the Dean:

1 Dékáni Hivatal tölti ki, jóváhagyást követően.
2 Az elméleti és gyakorlati oktatást órákra (hetekre) lebontva, sorszámozva külön-külön kell megadni, az előadók és a gyakorlati oktatók nevének feltüntetésével. Mellékletben nem csatolható!
3 Pl. terepgyakorlat, kórlaplemzés, felmérés készítése stb.
4 Pl. házi feladat, beszámoló, zárthelyi stb. témaköre és időpontja, pótlásuk és javításuk lehetősége.
5 Elméleti vizsga esetén kértük a tételest megadását, gyakorlati vizsga esetén a vizsgázatás témakörét és módját.
6 Az elméleti és gyakorlati vizsga beszámításának módja. Az évközi számonkérések eredményeink beszámítási módja.
Semmelweis University, Faculty of Medicine
Name of the Host Institute (and any participating institutes):
Course Host: Department of Vascular Surgery, Városmajor Heart and Vascular Centre
Course Organiser: Department of Vascular and Endovascular Surgery, Városmajor Heart and Vascular Centre

Course Title: Vascular surgery practice (part of 6th year comprehensive examination course in surgery)
(English Title\(^1\): Vascular surgery practice)
(German Title\(^1\): Praktikum für Gefäßchirurgie)
Credit value: 0
Total classes: 30 lecture: 0 practice: 30 seminar: 0
Course type: **required** mandatory elective elective

Academic Year: 2019/2020

Course code\(^2\): AOSBEERSGSM

Course co-ordinator: Dr. Péter Sótonyi
Place of work, phone number:
    Semmelweis University, Városmajor Heart and Vascular Centre, Department of Vascular and Endovascular Surgery
    Tel.: +36-20-825-8046, e-mail: sotonyi.peter1@med.semmelweis-univ.hu
Position: Head of department, university professor
Date and number of habilitation: June 30th, 2014, 06/2014.

Purpose of the course. Its role in medical curriculum: Several diseases are covered in this course that affect an increasing number of patients and have high mortality. In Hungary, non-trauma related limb amputations are three times more common than the Western European average. This data alone would call attention to the importance of vascular medicine.

The purpose of the practice is to teach students about vascular diseases that require emergency care and pose the threat of death or loss of limb for the patient, including the differential diagnosis of these diseases. The accurate diagnosis of diseases that require vascular surgery requires students to understand the symptoms and complaints presented by the patient. Emphasis is on examining both inpatients and outpatients, where questioning the patient is essential for establishing an accurate diagnosis. The training students receive in questioning patients effectively in order to reveal symptoms applies to other fields as well. Physical examination is the basis of all vascular examinations. In some cases, it may even be enough for a diagnosis without any other (imaging) examinations. This may be the only field of medicine where the general health, comorbidities, and age of the patient have such a profound influence on the possibility of surgery and intervention. Students will understand that establishing a diagnosis is not the same as treatment planning.

Site of the course (location of lecture hall, seminar room, etc.):
AOSEV-11 and AOSEV-GYH

What competences will the student gain from successfully completing the course: As general practitioners, they will be able to assess the most important types of vascular diseases that require emergency treatment (stroke, dissection, ruptured aneurysm, acute limb
ischaemia), and take the first steps. Students will learn the basics of the physical examination of the vascular system, various imaging techniques, and the indications for these. After evaluating physical examination and imaging results, they will start the necessary treatment and direct the patient to the appropriate type and level of specialist. Students shall also learn the role of primary and secondary prevention methods in the treatment of vascular diseases.

**Conditions for registering for/completing the course:**
Anatomy of the vascular system, regional anatomy of the neck, abdomen, and extremities. Vascular pathology, pathophysiology. Completed Cardiology-angiology course.

**Required number of student for launching the course (minimum, maximum), selection method:**
Maximum 16 students/week

**Method of registering for the course:**
In the NEPTUN system.

**Detailed description of the course³:**

**0. Preparing the practice online before the actual course begins.**
Students refresh pre-existing knowledge in order to better understand the diseases, diagnostic imaging methods, and treatments necessary for the practice. This part mostly focuses on anatomy, physiology, and pathology. Students learn in more detail about the practice week, including when and where they should go and how assessment is performed. Based on the above, they complete a test in order to proceed to the practice week efficiently, with all students up to speed, able to focus on the specifics of cardiovascular diseases. This is necessary, because we have found that students tend to have some gaps in their basic anatomy, physiology, pathophysiology, and pathology knowledge by year 5. Currently, most of the practice week is spent revising these areas, and students lack the time necessary for deepening their knowledge of vascular surgery.

**I. Welcoming students, scheduling, and assignment to tutors.**
Year 6 students who registered for the given practice period are present at 8:00 in the morning on the first day of the practice (usually on a Monday) as a group, and meet the course coordinator and the secretary of the department. The place for the meeting is the Vascular department on the first floor. Between 08:00 and 08:30, the students are given their locker keys and white coats. Usually, the course coordinator shows the students the sites of the practice. Students are assigned to each site in a daily rotation. These sites are the two vascular surgery departments, the angiography laboratory, the ultrasound laboratory, the vascular and hybrid operating rooms, and the vascular outpatient care. Individual schedules are distributed on the first day of the practice week. This serves the purpose of ensuring that all students practice at all sites, which are usually only large enough for a staff of 2 to 4. Students may exchange their daily schedules, as long as every student reaches every site. At the sites, a specialist signs the attendance sheets on paper for the time being; in the future, this process may be done electronically. The main purposes of practice at the inpatient and outpatient departments are to meet patients, perform examinations, and question patients focussing on specific vascular diseases. Work and practice begin earliest at the inpatient departments. The morning patient care round starts at 7:00, by which time the student assigned to the department must be ready, dressed in white coat. The usual time for the morning meeting is 7:30, and students must also participate. Work at the other practice sites begins at 8:00. Our intent is to help students thoroughly understand emergency cases threatening the patient’s life, limbs, or other organs (stroke). As general practitioners, they will need to know the diagnostic and treatment strategies of vascular diseases. For this reason, they must also be present at surgeries and angiography examinations (operating room and angiography laboratory) on the practice week.

**II. Student work at the inpatient and outpatient departments**
Under the guidance of their tutor, students are present at patient care rounds. They familiarise themselves with the medical history of the admitted patients, and the types of any past or planned surgeries. When recording medical history, students learn what specific questions help assess whether the symptoms presented by the patient are of vascular origin. They evaluate the dynamics of the disease and the necessity for acute or emergency treatment. In the course of physical examination, the primary intent is to palpate the state of the blood vessel and examine the patient using a mini-doppler device in order to recognise the signs of acute occlusion. Students may participate in the wound care of patients who recently underwent surgery and setting up injection and IV infusion therapies, as well as use and observe the computer systems.

III. Understanding diagnostic options in the case of vascular patients
Students spend at least one day in the angiography laboratory. One of the main purposes of consultation at the inpatient and outpatient departments, and even in the operation room, is that students must understand the most common invasive and non-invasive diagnostic options, so they can choose between them when necessary. Students will also have the opportunity to familiarise themselves with the ultrasound laboratory operating at the outpatient department for vascular surgery.

IV. Operation room activity.
Students are primarily present for observation, although they may actively participate in some procedures. In the interval between surgeries, students learn about surgery-related matters, particularly the algorithmic indications for surgery. In the case of certain types of surgery, students may perform assistant duties.

V. Vascular surgery outpatient care.
Students participate in the examination of vascular patients under the guidance of a specialist. Students also perform examination procedures (palpation, auscultation, doppler US, as well as the assessment of the findings). The student and the specialist discuss patient admittance, decision-making mechanisms for treatment, as well as the aspects of monitoring patients who underwent surgery. Students may encounter a large number of acute and chronic patients over a relatively short period of time. In outpatient care, students have the opportunity to experience real cases, real diagnostic and treatment algorithms. Students may often continue to observe the same patients at the inpatient department, the angiography laboratory, and the operating room.

VI. Assessment.
In the form of a written test. Grades are: excellent, pass, or fail. If the student fails the test or is unable to participate due to technical or other causes, the head of department, deputy head of department, or the course coordinator decides whether to allow for oral examination, as well as whether the student passes their vascular surgery practice based on its result. If the student has failed to fulfil the requirements of the practice (e.g.: missed a day) and it is not possible to make up for this, the head of department, deputy head of department, or the course coordinator may assign a special project task (case report, topic discussion) as a substitute (see below).

VII. On the last day of the practice, students hand in their white coats and locker keys.
Other courses (both required and elective) that overlap the peripheral topics of this course. Potential overlaps in syllabus:
Anatomy, physiology, pathophysiology, pathology, emergency care (physiology), internal medicine (angiology, haematology, cardiology, nephrology, diabetology, endocrinology), surgery, neurology, radiology.

**Special course work required for the successful completion of the course**: Students must read online lessons and complete the tests. Optionally, discussion of topics of interest and creating tests.

**Requirements for participating in the practice. Options for making up for absences**: missed days may be made up for on other days; however, the student must notify the course coordinator in advance. If the student has completed patient examination and bedside practice, the written discussion of a short topic may be accepted as make-up task.

**Assessment of acquired knowledge during the semester**: Written test on the last day of the practice.

**Requirements for signature of semester**: Does not apply for year 6 comprehensive examination courses.

**Type of examination**: Written test.

**Examination requirements**: Students may only apply for the comprehensive examination in surgery if they have completed vascular surgery practice.

**Method and type of grading**: signature for completed practice

**Method of registering for examination**: Registering for practice is equivalent to registering for the test.

**Options for retaking the examination**: Students will have the opportunity to retake the written test or a take a short oral examination within the same period for comprehensive examination in surgery.

**Online and print textbooks, guides, and other literature (if online, provide html address)**: Sótonyi Péter, Szeberin Zoltán. Vaszkuláris medicina, Semmelweis Kiadó, 2018
German translation is ongoing.

Essential material is available online through the Cogito system, accessible based on Neptun code.- https://cogito.study/

**Signature of the habilitated university professor responsible for the course (course coordinator)**:

**Signature of host institute’s director/ head**: 

**Submission date**: Budapest, June 6th, 2019.

**OKB Opinion**:

**Comments from the Dean’s Office**:

**Dean’s Signature**:
## REQUIREMENTS

**Semmelweis University, Faculty of Medicine**

**Name(s) of the Institute(s) teaching the subject:** Department of Neurology

**Name of the subject:** Neurology

**Credits:** 3 credits for 3 weeks of compulsory practice and 6 credits for 6 weeks of elective chosen practice

**Total number of hours:**
- **lectures:**
- **practices:** 120 (240)
- **seminars:**

**Type of the course (mandatory/elective):** mandatory 3 weeks or elective 6 weeks

**Academic year:** 2019/2020

**Code of the course:**
- AOKNEU608_SA
- AOKNEU657_SA
- AOKANG661_SA

**Course director (tutor):** Dániel Bereczki M.D. D.Sc.

**Contact details:** Department of Neurology, Semmelweis University, +36-1-2100337

**Position:** Head of the department

**Date of habilitation and reference number:** 12/1999. DOTE

**Aim of the subject and its place in the curriculum:** Acquisition of theoretical and practical neurological knowledge required in general medical education and expanding and deepening knowledge gained during the fifth year.

- Acquire direct practical knowledge in everyday neurological patient care during an optional six-week period.

**Location of the course (lecture hall, practice room, etc.):** Conference room and wards of the Department of Neurology, H-1083 Budapest, Balassa u.6.

**Competencies gained upon the successful completion of the subject:** The student learns the technique of neurological physical examination and the interpretation of the findings. Detects when examining a patient in need of urgent care. Knows the most common neurological and borderline disorders.

**Prerequisite(s) for admission to the subject:** Fulfill the requirements of fifth year neurological training

**Minimum and maximum number of students registering for the course:**
- **Minimum:** 5
- **Maximum:** 30

**Student selection method in case of oversubscription:** Via the NEPTUN system.

**How to register for the course:** One can register via the NEPTUN system.
Detailed thematic of the course:

Priority topics
1. Disorders of the innervation of pupils.
2. The facial nerve
3. Differential diagnosis of vertigo and dizziness
4. Localisation of paresis syndromes
5. Symptoms of upper and lower motoneuron lesion
6. Types and crystalline of aphasia
7. Classification of unconscious conditions
8. Examination of the unconscious patient
9. Unconsciousness due to metabolic origin
10. Emergency in Neurology
12. Traumatic intracranial bleeding
13. Trauma of the spine and spinal cord
14. Clinical syndromes of impaired circulation of the internal carotid artery
15. Clinical syndromes of impaired circulation of the vertebro-basilar system
16. Emergency in cerebrovascular disorders
17. Diagnostic procedures in cerebrovascular disorders.
19. Intracerebral bleedings.
20. Diagnosis, treatment and prognosis of subarachnoid hemorrhage
21. Status epilepticus
22. Meningitis, encephalitis
23. Multiple sclerosis
24. Signs of brain tumors
25. Signs of tumors of the spine and spinal space
26. Brain edema
27. Diagnostic criteria of dementia
28. Diagnosis of Parkinson's disease
29. Wernicke-Korsakow syndrome
30. Guillain-Barre syndrome
31. Disturbance of micturition and defecation
32. Myasthenia gravis

2nd series
1. Neurological causes of impaired visual acquity. Visual field defects.
2. Ocular movement and gaze disorders
3. Disorders of the vestibular system.
5. Syndromes of pons and mesencephalon lesions
6. The muscle tone control
7. Neuroanatomical basis of sensory disturbances
9. Gait disorders
10. Symptoms of frontal lobe damage
11. Symptoms of temporal lobe damage
12. The limbic system
13. Symptoms of parietal lobe damage
14. Symptoms of occipital lobe damage
15. Cerebral dominance (functional brain asymmetry)
16. Classification of aphasia
17. Agnosia, apraxia, alexia, agraphia
18. The basal ganglia
19. Disorders of the thalamus
20. Localisation of memory disturbances
21. Imaging techniques (angiography, CT, MR, PET, SPECT)
22. Ultrasound examination of the cerebral vessels
23. EEG in the diagnostic workup
24. EMG, nerve conduction studies, transcranial magnetic stimulation and evoked potentials (BAEP, VEP, SSEP)
25. The lumbar puncture and the examination of cerebrospinal fluid
26. The cerebral circulation, and its regulation
27. Classification of cerebrovascular disorders
28. TIA
29. Cerebrovascular disorders in young adults
30. Treatment of cerebral ischemia
31. Classification of epilepsy
32. Diagnostic workup of epilepsy
33. Differential diagnosis of syncope and other types of disturbed consciousness
34. Treatment of epilepsy

3rd series
1. Neurological disorders caused by viral infections
2. Neurological disorders caused by Herpes virus
3. Prion-diseases, slow virus infections
4. Neurological consequences of AIDS
5. Clinical types and treatment of multiple sclerosis
6. Hystopathological classification of brain tumors
7. Brain tumors of childhood
8. Metastatic tumors of the brain
9. Paraneoplasias of the nervous system (PML, neuropathies, cerebellar deg., Lambert-Eaton syn.)
10. Disorders associated with parkinsonian syndrome
11. Treatment of Parkinson's disease
12. Hyperkinetic movement disorders
13. Differential diagnosis of tremor
14. Classification of encephalopathies
15. Primary degenerative dementias
16. Dementia in cerebrovascular disorders
17. Multisystem atrophy
18. Disturbed cerebrospinal fluid circulation (hydrocephalus)
19. Syndrome of brachial plexus damage
20. Syndrome of radial, ulnar and median nerve damage
21. Syndrome of lumbosacral plexus damage
22. Etiology of polyneuropathies
23. Neuropathies in diabetes mellitus
24. Inherited neuropathies (Charcot-Marie, Dejerine-Sottas, Refsum)
25. Low back pain, and cervical disk disease
26. Cranio-cervical developmental malformations
27. Malformation of the spine and spinal cord
28. Symptoms of the disorder of spinal cord
29. Motoneuron diseases (ALS, progr. bulbar palsy)
30. Muscular dystrophies
31. Miositis and myopathies
32. Primary headache syndromes
33. The neuralgias
34. The physiological sleep and the sleep disorders
35. Genetic background of muscle disorders
36. Inborn metabolic disorders affecting the nervous system
37. Trinucleotid repeat diseases (Huntington chorea, fragile X, dystrophy myotonica)
38. Genetic background of dementias

**Potential overlap(s) with other subjects:**
1. Neuroanatomy
2. Pharmacology
3. Epidemiology
4. Internal medicine
5. Psychiatry
6. Neurosurgery
7. Traumatology
8. Ophthalmology
9. Otorhinolaryngology
10. Sleep medicine

**Special training activities required:**
1. Attendance on duty
2. Attendance at specialized neurology outpatient clinics
3. Making a detailed case report
4. Independent preparation from the e-learning curriculum compiled by the Department of Neurology
5. During the six-week practice, routine ward work with a resident doctor under specialist supervision

**Policy regarding the attendance and making up absences:**
Attendance is compulsory. Absence may not exceed 20% of the training period. Replacement is subject to individual assessment.

**Means of assessing the students' progress during the semester:**
During the internship period, the head of department examines the activities of the examiner on a daily basis. During the six-week internship, the job of a graduate student is the same as that of a beginner resident. The work is first checked by a resident under the supervision of a specialist.

**Requirement for acknowledging the semester (signature):**
Attendance at practice is mandatory. The case report is evaluated by a senior instructor. Participation in the on-call duty is certified by the head of the on-call service. Actual attendance at a speciality clinic is certified by the clinic manager.

**Type of the examination:** Oral final exam

**Exam requirements:**
Final exam: Practical exam with the patients, after oral exam based on the VIth year topic list.
6 week elective chosen practice: practice evaluation by five grade practical grade.

**Type and method of grading:** Five grade rating

**How to register for the exam:** Via the NEPTUN system.

**Opportunities to retake the exam:** After an unsuccessful exam, one can take another oral exam for repair.
Literature, i.e. printed, electronic and online notes, textbooks, tutorials (URL for online material):
1. Arányi Zs., Kamondi A., Kovács T., Szirmai I.: Investigation of neurological patients
2. Lindsay, Bone, Callender: Neurology and Neurosurgery Illustrated. Churchill Livingstone

Signature of the tutor:

Signature(s) of the head(s) of the Institute(s):

Date: 30. September, 2019. Budapest

Credit Transfer Committee’s opinion:

Comment of the Dean’s Office:

Signature of the Dean:

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1 Dékáni Hivatal tölti ki, jóváhagyást követően.
2 Az elméleti és gyakorlati oktatást örökre (hetekre) lebojta, sorszámozva külön-külön kell megadni, az előadók és a gyakorlati oktatók nevének feltüntetésével. Mellékletről nem csalható!
3 Pl. terepgyakorlat, kórlapelemzés, felemérése készítése szb.
4 Pl. házi feladat, beszámoló, zárthelyi szb. témaköre és időpontra, pótlásuk és javításuk lehetősége.
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6 Az elméleti és gyakorlati vizsga beszámításának módja. Az évközi számonkérés eredményeink beszámítási módja.
### REQUIREMENTS

| Semmelweis University, Faculty of Medicine |
| Name(s) of the Institute(s) teaching the subject: |
| 1st. Department of Surgery |

| Name of the subject: Surgery 6th year practicals |
| Credits: |
| Total number of hours: lectures: practices: 4 week general surgery, 1 week traumatology, 1 week vascular surgery seminars: |

| Type of the course (mandatory/elective): mandatory |

| Academic year: 2019/2020 |

| Code of the course1: |

| Course director (tutor): Dr. László Harsányi |
| Contact details: 1st. Department of Surgery tel: +36-1-333-5343 |
| Position: university professor, director |
| Date of habilitation and reference number: 2011.06.09., 319. |

| Aim of the subject and its place in the curriculum: |
| The purpose of the sixth year practicals is to refresh the knowledge acquired in V and IV year and to demonstrate its practical application. To involve the students in surgical inpatient and outpatient care with their ready multidisciplinary knowledge, following their tutors on a daily basis, hour by hour performing partial tasks (patient examination, administration, development of treatment strategies, decision-making in the clinic, operating theater). |

| Location of the course (lecture hall, practice room, etc.): |
| 1st. Department of Surgery, 1082 Budapest, Üllői út 78. |

| Competencies gained upon the successful completion of the subject: |
| By the end of the practice the students will get a comprehensive picture of the specialty activities, will be able to set up diagnostic algorithms and perform clinical work under supervision. An important aspect is that a deeper understanding of everyday activities will help students make a career choice and raise their interest in the surgical profession. |

| Prerequisite(s) for admission to the subject: |
| In accordance with the Study and Examination Regulations. |

| Minimum and maximum number of students registering for the course: |
| Student selection method in case of oversubscription: Based on Neptun registration |
| How to register for the course: In the Neptun system |
Detailed thematic of the course:
Students will spend 4 weeks at general surgery, 1 week at vascular surgery, 1 week at traumatology following a certain timetable. On the practices the daily schedule is equivalent to the official working hours. In addition to practical patient care, a two-hour seminar or case discussion is organized daily. Thematic include detailed and general surgery, vascular surgery and traumatology (look at the theses of the exam)

Recommended practical activities:

im. injection administration
iv. injection administration
infusion set up, administration
taking a blood sample
blood group evaluation
participation in a transfusion setup
rectal digital examination (neg. and pos. findings!)
duodenal tube placement
bladder catheterization in women and men
taking part in central venous catheter placement
taking part in Linton or Sangstaken tube placement
wound dressing, dressing replacements
application of an elastic bandage
participation in bacteriological sampling
stiches removal
drain removal
to place a suture
staple removal
participation in rectoscopy, anoscopy, colonoscopy
participation in gastro-duodenoscopy
participation in superficial abscess oncotomy
participation in nail removal
participation in ascites or chest puncture
examination of carotid and peripheral vessels
participation in a doppler examination
participation in the introduction of an epidural cannula
independently write a patient record
examination request in the computer (lab, x-ray, US, CT, histology, bacterium, any kind of consultation)
sel-editing of a final report
breast examination (negative finding, benign and malignant lesions)
examination of the armpits
examination of goiter
examination of inguinal hernia
examination of umbilical hernia
examination of umbilical and abdominal hernia
strangulated (or suspected) hernia
appendicitis or its suspicion
cholecystitis or suspected cholecystitis
mechanical ileus or its suspicion
paralytic ileus
detection of circumscribed muscle defense
- detection of diffuse peritonitis
- a typical auditory finding of mechanical ileus
- silent belly
- abdominal resistance
- examination of ascites
- examination of hemorrhoids
- examination of periproctal abscess or gluteal abscess
- examination of panaritium, participation in its care
- examination of lymphangitis and lymphadenitis
- examination of a sacral dermoid cyst or periproctal anal fistula
- varicosity cruris
- Gangraena of the leg
- participation in outpatient care (general and specialist)
- surgical assistance (appendectomy, hernia surgery, breast surgery, cholecystectomy, colon surgery, laparoscopic surgery, as well as participating in specific interventions at that institution)
- knots tying in surgical procedures, skin suture

**Potential overlap(s) with other subjects:**
- Internal medicine
- Radiology
- Oncology
- Anesthesiology/Intensive therapy

**Special training activities required**: there is none

**Policy regarding the attendance and making up absences**: In accordance with the Study and Examination Regulations.

**Means of assessing the students’ progress during the semester**: We use catalogue on the practices. Based on the Semmelweis University’s SZMSZ 3. chapter 17 § 7. attendance on the 75-75% of the Lectures and practices is obligatory.

**Requirement for acknowledging the semester (signature)**: At least 75% attendance at the sessions

**Type of the examination**: Oral exam based on three pre-defined themes
Theses of the surgery exam (6th year)

General surgery
1. Asepsis, definition, tools, aseptic measurements
2. Methods of sterilization
3. Definition of antisepsis, disinfection, hand scrubbing
4. Nosocomial infections, hospitalization
5. Wound infections types and methods
6. Pyogenic and putrid wound infections
7. General consequences of wound infections, sepsis
8. Principles of the treatment of wound infection
9. Symptoms of tetanus, treatment
10. Symptoms of gas gangraene, treatment
11. Prevention of anaerobic wound infection
12. Abscess, phlegmone, empyema
13. Folliculitis, furuncle, carbuncle hydradenitis, lymphadenitis, lymphangitis
14. Types and symptoms of panaritium
15. Division and treatment of panaritium
16. Types of bleeding, forms, etiology, severity, general symptoms
17. Temporary haemostatic methods
18. Definitive haemostatic methods, intraoperative haemostasis
19. Thrombosis and embolia
20. Prevention of thrombosis
21. Basic elements of operative surgery (definition and types, indications)
22. Preoperative preparation of the patient
23. Operative risk, contraindications, postoperative complications
24. Equipments and instruments of the operating theatre. Surgical instruments
25. Operative nomenclature
26. Epidemiology of wounds. Types Characteristics. Types of open mechanical injuries
27. Treatment of wounds, wound healing
28. Basic principles in plastic surgery
29. Basic concepts and classifications of organ transplantation
30. Different methods of skin grafting
31. Contour disorders treatment in plastic surgery
32. Replacement of ligaments and tendons. Complex tissue substitutions
33. Surgical implantations
34. Basic concepts of organ transplantation
35. The donor-question and view-points of the establishment of cerebral death
36. Kidney transplantation, heart and liver transplantation
37. Pancreas transplantation, multiorgan transplantations
38. Surgical importance of the preblastomatosis. Importance of histology and cytology in the oncological surgery. Types of punction
39. The TNM scheme, staging scheme
40. Surgery of metastasis
41. Possibilities and procedures of adjuvant treatment in the therapy of tumours
42. Gastrointestinal haemorrhage

Theses of the surgery exam (6th year)

Detailed surgery
1. Forms of laparotomy and thoracotomy
2. Definition of hernia, parts, forms and symptoms
3. Symptoms and therapy of strangulated hernia
4. Inguinal hernia, femoral hernia
5. Umbilical hernia, epigastric hernia. Rare types of hernias. Postoperative hernias
6. Primary diffuse bacterial peritonitis, aseptic peritonitis
7. Cause, symptoms and treatment of secondary acute diffuse bacterial peritonitis
8. Symptoms and treatment of acute diffuse peritonitis
9. Diagnosis and therapy of circumscribed peritonitis. Types abdominal abscesses and their treatment
10. Surgical relations of the parathyroid gland
11. Diagnosis and treatment of goiter
12. Malignant tumors of the thyroid gland
13. Types of mastitis. Gynaecomasty
14. Diagnosis and therapy of breast cancer
15. Pneumothorax, haemothorax, Empyema, chylothorax
16. Surgical relations of bronchiectasis and pulmonary abscesses
17. Primary and secondary pulmonary tumors
18. Neoplasms, cysts of the mediastinum. Mediastinitis
19. Surgery of developmental heart anomalies. Anomalies with shunt
20. Surgery of developmental heart anomalies. Anomalies without shunt
21. Surgery of acquired cardiac valve malformations. Valve replacement
22. Surgery of coronary diseases
23. Surgical aspects of pericardial diseases, Pacemaker treatment
24. Diagnosis and therapy of embolism of extremities
25. Obliterative syndrome of the lower extremity and its treatment
26. Chronic arterial diseases of the upper extremity
27. Aneurysm, pseudoaneurysm
28. Inflammatory diseases of veins
29. Examination and treatment of varicous veins of lower extremities
30. Examination of oesophagus, achalasia, diverticules. Types of oesophageitis, oesophageal injuries
31. Hiatus hernia and treatment
32. Surgical treatment of oesophageal tumors
33. Duodenal ulcer treatment, surgical indication
34. Ventricular ulcer treatment, surgical indication
35. Treatment of bleedings of the upper gastrointestinal tract
36. Early and late complications of ventricular operations
37. Surgical treatment of ventricular cancer
38. Regional enteritis (diagnosis, treatment)
39. Acute and chronic intestinal ischemia
40. Symptoms of acute appendicitis, treatment
41. Inflammatory diseases of the large intestine which demands surgical treatment
42. Diverticules of the gastrointestinal tract
43. Malignant tumors of the right colon, complications, operative technics
44. Malignant tumors of the left colon, complications, operative technics
45. Diagnosis and treatment of rectal cancer
46. Treatment of colorectal polyps
47. Haemorrhoid, anal fistule and fissure, treatment of anorectal abscess
48. Types of mechanical intestinal obstruction mechanism, treatment. Ileus of the small and large intestine differential diagnosis
49. Symptoms of intestinal obstruction (ileus) diagnosis, classification. Paralytic ileus
50. Treatment of the hepatic abscess and benign hepatic tumors
| 51. | Treatment of primary and secondary malignant tumors (malignancies) of the liver |
| 52. | Treatment of portal hypertension |
| 53. | Cholelithiasis and choledocholithiasis – surgical indications, therapeutic options |
| 54. | Complications and treatment of gallstone disease |
| 55. | Tumors of the gallbladder and the bile tract |
| 56. | Symptoms and diagnostics of acute pancreatitis – surgical indications, therapeutic options |
| 57. | Surgery of chronic pancreatitis |
| 58. | Tumors of the pancreas, radical and palliative surgery |
| 59. | Surgical indications of the spleen |
| 60. | Diseases of the adrenal gland, surgical aspects |

**Theses of the surgery exam (6th year)**

**Traumatology**

1. Treatment of the open fractures, guidelines, methods
3. Osteosynthesis, methods / stability, early function /
4. Pathomechanism of distortions, diagnosis, treatment / elastic fixation, reposition /
5. Clinical signs of fractures, diagnosis
6. Burning (combustion) pathophysiological processes, grading, treatment, prognostics
7. Initial care of skull and brain injuries under hospital circumstances
8. Classification of skull fractures, and treatment principles
9. Commotion and contusion of the brain, treatment
10. Epidural and subdural hematoma. Intracerebral haemorrhage diagnosis, treatment
11. Delayed complications of cranial and cerebral injury
12. Examination of spinal injuries, diagnosis. Surgical indications of spinal injuries
13. Fixation of vertebral fractures. Rehabilitation treatments
14. Rib fractures, treatment, prognosis
15. Treatment and diagnosis of hemo- and pneumothorax
16. Diagnosis and treatment of heart injuries
17. Guidelines for observing patient with blunt abdominal injuries
18. Diagnosis and treatment of injuries of abdominal parenchymal organs
19. Diagnosis and treatment of injuries of abdominal hollow organs
20. Types and treatment of the injuries of the shoulder gridle
21. Humeral neck fracture in elderly. Therapeutic methods of humeral fractures
22. Therapy of cubital injuries of childhood
23. Therapy of fractures of olecranon
24. Treatment of collective forearm fracture in adult
25. Therapeutic methods of humeral fractures
26. Perilunual luxation and fracture of the scaphoid bone. Therapy of Bennett’s fracture
27. Fractures of metacarpal and phalangeal bones
28. Lesions of carpal tendons
29. Types of pelvic fractures. Diagnosis of the accessory lesions
30. Types, therapy and probable complications of iliofemoral fractures
31. Prognosis of medial fracture of the femur neck
32. Fundamentals and main indications of endoprosthesis
33. Methods of treatment of femoral diaphysis fractures
34. Intraarticular fractures of the knees, and principles of casual therapy
35. Treatment and outcome of patellar fracture
36. Diagnosis and treatment of the genicular chondral injuries
37. Mechanism, diagnosis and therapy of genicular chondral injuries / Arthroscopy
| 38. Therapy and after-treatment of open and closed crural fracture |
| 39. Diagnostic methods and treatment of the twist of the ankle, complications |
| 40. Types and consecutive treatment of ankle fracture |
| 41. Calcaneal fracture and its therapy |
| 42. Symptoms and therapy of covered Achiller tendon rupture |
| 43. Diagnosis and prediction of humeral dislocation |

**Type and method of grading**: Oral exam of three theses (general and organ specific surgery + traumatology)

**How to register for the exam**: In the Neptun system

**Opportunities to retake the exam**: In accordance with the Study and Examination Regulations.

**Literature, i.e. printed, electronic and online notes, textbooks, tutorials (URL for online material):**

**Hungarian**:
- Sebészet Horváth Örs Péter - Oláh Attila (szerkésztiök)
- Sebészet (10. kiadás) Gaál Csaba (szerkésztiö)
- Sebészeti műtéttan Boros Mihály (szerkésztiö)
- Littmann Sebészeti műtéttan Horváth Örs Péter - Kiss János

**Signature of the tutor:**

**Signature(s) of the head(s) of the Institute(s):**

**Date:**

---

1 Dékáni Hivatal tölti ki, jóváhagyást követően.
2 Az elméleti és gyakorlati oktatást órákra (hetekre) lebontva, sorszámozva külön-külön kell megadni, az előadók és a gyakorlati oktatók nevének feltüntetésével. Mellékletben nem csatolható!
3 Pl. teregyakorlat, kórlapelemzés, felmérés készítése stb.
4 Pl. házi feladat, beszámoló, zárthelyi stb. témaköre és időpontja, pótlásuk és javításuk lehetősége.
5 Elméleti vizsga esetén kérjük a tételsor megadását, gyakorlati vizsga esetén a vizsgázatítás témakörét és módját.
6 Az elméleti és gyakorlati vizsga beszámításának módja. Az évközi számonkérések eredményeink beszámítási módja.
**Requirements**

Semmelweis University, Faculty of Medicine  
Name(s) of the Institute(s) teaching the subject:  
2nd. Department of Surgery  

<table>
<thead>
<tr>
<th>Name of the subject:</th>
<th>Surgery 6th year practicals</th>
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<table>
<thead>
<tr>
<th>Credits:</th>
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<tbody>
<tr>
<td>Total number of hours:</td>
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<tr>
<td>lectures:</td>
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<tr>
<td>practices:</td>
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<tr>
<td>4 week general surgery, 1 week traumatology, 1 week vascular surgery</td>
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<td>seminars:</td>
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<table>
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<th>Type of the course (mandatory/elective):</th>
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<table>
<thead>
<tr>
<th>Course director (tutor):</th>
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</thead>
<tbody>
<tr>
<td>Dr. Gábor István</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Contact details:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st. Department of Surgery  tel: +36-1-3754291</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>Position:</th>
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<tbody>
<tr>
<td>director</td>
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<table>
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<tr>
<th>Date of habilitation and reference number:</th>
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<tbody>
<tr>
<td>2011. (320)</td>
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<table>
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<tr>
<th>Aim of the subject and its place in the curriculum:</th>
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<tbody>
<tr>
<td>The purpose of the sixth year practicals is to refresh the knowledge acquired in V and IV year and to demonstrate its practical application. To involve the students in surgical inpatient and outpatient care with their ready multidisciplinary knowledge, following their tutors on a daily basis, hour by hour performing partial tasks (patient examination, administration, development of treatment strategies, decision-making in the clinic, operating theater).</td>
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<thead>
<tr>
<th>Location of the course (lecture hall, practice room, etc.):</th>
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<tbody>
<tr>
<td>2nd. Department of Surgery, 1125 Budapest, Kút Bölgyi st. 4</td>
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<tr>
<th>Competencies gained upon the successful completion of the subject:</th>
</tr>
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<tbody>
<tr>
<td>By the end of the practice the students will get a comprehensive picture of the specialty activities, will be able to set up diagnostic algorithms and perform clinical work under supervision. An important aspect is that a deeper understanding of everyday activities will help students make a career choice and raise their interest in the surgical profession.</td>
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<table>
<thead>
<tr>
<th>Prerequisite(s) for admission to the subject:</th>
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<tbody>
<tr>
<td>In accordance with the Study and Examination Regulations.</td>
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<th>Minimum and maximum number of students registering for the course:</th>
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<td>Student selection method in case of oversubscription: Based on Neptun registration</td>
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<tr>
<th>How to register for the course:</th>
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<tr>
<td>In the Neptun system</td>
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</table>
Detailed thematic of the course:

Students will spend 4 weeks at general surgery, 1 week at vascular surgery, 1 week at traumatology following a certain timetable. On the practices the daily schedule is equivalent to the official working hours. In addition to practical patient care, a two-hour seminar or case discussion is organized daily. Thematic include detailed and general surgery, vascular surgery and traumatology (look at the theses of the exam).

Recommended practical activities:

- im. injection administration
- iv. injection administration
- infusion set up, administration
- taking a blood sample
- blood group evaluation
- participation in a transfusion setup
- rectal digital examination (neg. and pos. findings!)
- duodenal tube placement
- bladder catheterization in women and men
- taking part in central venous catheter placement
- taking part in Linton or Sangstaken tube placement
- wound dressing, dressing replacements
- application of an elastic bandage
- participation in bacteriological sampling
- stiches removal
- drain removal
- to place a suture
- staple removal
- participation in rectoscopy, anoscopy, colonoscopy
- participation in gastro-duodenoscopy
- participation in superficial abscess oncotomy
- participation in nail removal
- participation in ascites or chest puncture
- examination of carotid and peripheral vessels
- participation in a doppler examination
- participation in the introduction of an epidural cannula
- independently write a patient record
- examination request in the computer (lab, x-ray, US, CT, histology, bacterium, any kind of consultation)
- self-editing of a final report
- breast examination (negative finding, benign and malignant lesions)
- examination of the armpits
- examination of goiter
- examination of inguinal hernia
- examination of umbilical hernia
- examination of umbilical and abdominal hernia
- strangled (or suspected) hernia
- appendicitis or its suspicion
- cholecystitis or suspected cholecystitis
- mechanical ileus or its suspicion
- paralytic ileus
- detection of circumscribed muscle defense
- detection of diffuse peritonitis
- a typical auditory finding of mechanical ileus
- silent belly
- abdominal resistance
- examination of ascites
- examination of hemorrhoids
- examination of periproctal abscess or gluteal abscess
- examination of panaritium, participation in its care
- examination of lymphangitis and lymphadenitis
- examination of a sacral dermoid cyst or periproctal anal fistula
- varicosity cruris
- Gangraena of the leg
- participation in outpatient care (general and specialist)
- surgical assistance (appendectomy, hernia surgery, breast surgery, cholecystectomy, colon surgery, laparoscopic surgery, as well as participating in specific interventions at that institution)
- knots tying in surgical procedures, skin suture

**Potential overlap(s) with other subjects:**
- Internal medicine
- Radiology
- Oncology
- Anesthesiology/Intensive therapy

**Special training activities required**: there is none

**Policy regarding the attendance and making up absences**: In accordance with the Study and Examination Regulations.

**Means of assessing the students’ progress during the semester**: We use catalogue on the practices. Based on the Semmelweis University’s SZMSZ 3. chapter 17 § 7. attendance on the 75-75% of the Lectures and practices is obligatory.

**Requirement for acknowledging the semester (signature)**:
- At least 75% attendance at the sessions

**Type of the examination**:
- Oral exam based on three pre-defined themes
Theses of the surgery exam (6th year)
General surgery
1. Asepsis, definition, tools, aseptic measurements
2. Methods of sterilization
3. Definition of antisepsis, disinfection, hand scrubbing
4. Nosocomial infections, hospitalization
5. Wound infections types and methods
6. Pyogenic and putrid wound infections
7. General consequences of wound infections, sepsis
8. Principles of the treatment of wound infection
9. Symptoms of tetanus, treatment
10. Symptoms of gas gangrene, treatment
11. Prevention of anaerobic wound infection
12. Abscess, phlegmone, empyema
13. Folliculitis, furuncle, carbuncle hydradenitis, lymphadenitis, lymphangitis
14. Types and symptoms of panaritium
15. Division and treatment of panaritium
16. Types of bleeding, forms, etiology, severity, general symptoms
17. Temporary haemostatic methods
18. Definitive haemostatic methods, intraoperative haemostasis
19. Thrombosis and embolia
20. Prevention of thrombosis
21. Basic elements of operative surgery (definition and types, indications)
22. Preoperative preparation of the patient
23. Operative risk, contraindications, postoperative complications
24. Equipments and instruments of the operating theatre. Surgical instruments
25. Operative nomenclature
26. Epidemiology of wounds. Types Characteristics. Types of open mechanical injuries
27. Treatment of wounds, wound healing
28. Basic principles in plastic surgery
29. Basic concepts and classifications of organ transplantation
30. Different methods of skin grafting
31. Contour disorders treatment in plastic surgery
32. Replacement of ligaments and tendons. Complex tissue substitutions
33. Surgical implantations
34. Basic concepts of organ transplantation
35. The donor-question and view-points of the establishment of cerebral death
36. Kidney transplantation, heart and liver transplantation
37. Pancreas transplantation, multiorgan transplantations
38. Surgical importance of the preblastomatosis. Importance of histology and cytology in the oncological surgery. Types of punction
39. The TNM scheme, staging scheme
40. Surgery of metastasis
41. Possibilities and procedures of adjuvant treatment in the therapy of tumours
42. Gastrointestinal haemorrhage

Theses of the surgery exam (6th year)
Detailed surgery
1. Forms of laparotomy and thoracotomy
2. Definition of hernia, parts, forms and symptoms
3. Symptoms and therapy of strangulated hernia
4. Inguinal hernia, femoral hernia
5. Umbilical hernia, epigastric hernia. Rare types of hernias. Postoperative hernias
6. Primary diffuse bacterial peritonitis, aseptic peritonitis
7. Cause, symptoms and treatment of secondary acute diffuse bacterial peritonitis
8. Symptoms and treatment of acute diffuse peritonitis
9. Diagnosis and therapy of circumscribed peritonitis. Types abdominal abscesses and their treatment
10. Surgical relations of the parathyroid gland
11. Diagnosis and treatment of goiter
12. Malignant tumors of the thyroid gland
13. Types of mastitis. Gynaecomasty
14. Diagnosis and therapy of breast cancer
15. Pneumothorax, haemothorax, Empyema, chylothorax
16. Surgical relations of bronchiectasis and pulmonary abscesses
17. Primary and secondary pulmonary tumors
18. Neoplasms, cysts of the mediastinum. Mediastinitis
19. Surgery of developmental heart anomalies. Anomalies with shunt
20. Surgery of developmental heart anomalies. Anomalies without shunt
21. Surgery of acquired cardiac valve malformations. Valve replacement
22. Surgery of coronary diseases
23. Surgical aspects of pericardial diseases, Pacemaker treatment
24. Diagnosis and therapy of embolism of extremities
25. Obliterative syndrome of the lower extremity and its treatment
26. Chronic arterial diseases of the upper extremity
27. Aneurysm, pseudoaneuerysm
28. Inflammatory diseases of veins
29. Examination and treatment of varicous veins of lower extremities
30. Examination of oesophagus, achalasia, diverticules. Types of oesophagitis, oesophageal injuries
31. Hiatus hernia and treatment
32. Surgical treatment of oesophageal tumors
33. Duodenal ulcer treatment, surgical indication
34. Ventricular ulcer treatment, surgical indication
35. Treatment of bleedings of the upper gastrointestinal tract
36. Early and late complications of ventricular operations
37. Surgical treatment of ventricular cancer
38. Regional enteritis (diagnosis, treatment)
39. Acute and chronic intestinal ischemia
40. Symptoms of acut appendicitis, treatment
41. Inflammatory diseases of the large intestine which demands surgical treatment
42. Diverticules of the gastrointestinal tract
43. Malignant tumors of the right colon, complications, operative technics
44. Malignant tumors of the left colon, complications, operative technics
45. Diagnosis and treatment of rectal cancer
46. Treatment of colorectal polyps
47. Haemorrhoid, anal fistule and fissure, treatment of anorectal abscess
48. Types of mechanical intestinal obstruction mechanism, treatment. Ileus of the small and large intestine differential diagnosis
49. Symptoms of intestinal obstruction (ileus) diagnosis, classification. Paralytic ileus
50. Treatment of the hepatic abscess and benign hepatic tumors
51. Treatment of primary and secondary malignant tumors (malignancies) of the liver
52. Treatment of portal hypertension
53. Cholelithiasis and choledocholithiasis – surgical indications, therapeutic options
54. Complications and treatment of gallstone disease
55. Tumors of the gallbladder and the bile tract
56. Symptoms and diagnostics of acute pancreatitis – surgical indications, therapeutic options
57. Surgery of chronic pancreatitis
58. Tumors of the pancreas, radical and palliative surgery
59. Surgical indications of the spleen
60. Diseases of the adrenal gland, surgical aspects

**Theses of the surgery exam (6th year)**

**Traumatology**

1. Treatment of the open fractures, guidelines, methods
3. Osteosynthesis, methods / stability, early function /
4. Pathomechanism of distortions, diagnosis, treatment / elastic fixation, reposition /
5. Clinical signs of fractures, diagnosis
6. Burning (combustion) pathophysiological processes, grading, treatment, prognostics
7. Initial care of skull and brain injuries under hospital circumstances
8. Classification of skull fractures, and treatment principles
9. Commotion and contusion of the brain, treatment
10. Epidural and subdural hematoma. Intracerebral haemorrhage diagnosis, treatment
11. Delayed complications of cranial and cerebral injury
12. Examination of spinal injuries, diagnosis. Surgical indications of spinal injuries
13. Fixation of vertebral fractures. Rehabilitation treatments
14. Rib fractures, treatment, prognosis
15. Treatment and diagnosis of hemo- and pneumothorax
16. Diagnosis and treatment of heart injuries
17. Guidelines for observing patient with blunt abdominal injuries
18. Diagnosis and treatment of injuries of abdominal parenchymal organs
19. Diagnosis and treatment of injuries of abdominal hollow organs
20. Types and treatment of the injuries of the shoulder gridle
21. Humeral neck fracture in elderly. Therapeutic methods of humeral fractures
22. Therapy of cubital injuries of childhood
23. Therapy of fractures of olecranon
24. Treatment of collective forearm fracture in adult
25. Therapeutic methods of humeral fractures
26. Perilunal luxation and fracture of the scaphoid bone. Therapy of Bennett’s fracture
27. Fractures of metacarpal and phalangeal bones
28. Lesions of carpal tendons
29. Types of pelvic fractures. Diagnosis of the accessory lesions
30. Types, therapy and probable complications of iliofemoral fractures
31. Prognosis of medial fracture of the femur neck
32. Fundamentals and main indications of endoprosthesis
33. Methods of treatment of femoral diaphysis fractures
34. Intraarticular fractures of the knees, and principles of casual therapy
35. Treatment and outcome of patellar fracture
36. Diagnosis and treatment of the genicular chondral injuries
37. Mechanism, diagnosis and therapy of genicular chondral injuries / Arthroscopy
38. Therapy and after-treatment of open and closed crural fracture
39. Diagnostic methods and treatment of the twist of the ankle, complications
40. Types and consecutive treatment of ankle fracture
41. Calcaneal fracture and its therapy
42. Symptoms and therapy of covered Achiller tendon rupture
43. Diagnosis and prediction of humeral dislocation

**Type and method of grading**

Oral exam of three theses (general and organ specific surgery + traumatology)

**How to register for the exam:** In the Neptun system

**Opportunities to retake the exam:** In accordance with the Study and Examination Regulations.

**Literature, i.e. printed, electronic and online notes, textbooks, tutorials (URL for online material):**

- *Textbook of Surgery* - David Sabiston
- *Oxford Handbook of Clinical Surgery* - Greg R. McLatchie
- *Essentials of General Surgery* - Peter F. Lawrence

**Signature of the tutor:**

**Signature(s) of the head(s) of the Institute(s):**

**Date:**

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1 Dekáni Hivatal tölti ki, jóváhagyást követően.
2 Az elméleti és gyakorlati oktatást órákra (hetekre) lebontva, sorszámozva külön-külön kell megadni, az előadók és a gyakorlati oktatók nevének feltüntetésével. Mellékletben nem csatolható!
3 Pl. terepgyakorlat, kórlapelemzés, felmérés készítése stb.
4 Pl. házi feladat, beszámoló, zárthelyi stb. témaköre és időpontja, pótlásuk és javításuk lehetősége.
5 Elméleti vizsga esetén kérjük a tételsor megadását, gyakorlati vizsga esetén a vizsgázatás témakörét és módját.
6 Az elméleti és gyakorlati vizsga beszámításának módja. Az évközi számonkérések eredményeink beszámítási módja.