

REQUIREMENTS

Semmelweis University, Faculty of Medicine Name(s) of the Institute(s) teaching the subject: 1st. Department of Surgery
Name of the subject: Surgery 6 th year practice Credits: 6 Total number of hours: 160 practices: <u>4 week general surgery, 1 week traumatology, 1 week vascular surgery</u> seminars:
Type of the course (mandatory/elective): <u>mandatory</u>
Academic year: 2020/2021
Code of the course¹: AOKSB1646_SA
Course director (tutor): Dr. Szijártó Attila Contact details: 1 st . Department of Surgery tel: +36-1-333-5343 Position: university professor, director Date of habilitation and reference number: 2015.06.
Aim of the subject and its place in the curriculum: The purpose of the sixth year practice is to refresh the knowledge acquired in IV and V year and to demonstrate its practical application. To involve the students in surgical inpatient and outpatient care with their ready multidisciplinary knowledge, following 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.): 1 st . 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 point of view of the specialty activities, will be able to set up diagnostic algorithms and perform clinical work under supervision. An important aspect is a deeper understanding of everyday activities that helps 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: Neptun system

Detailed thematic of the course²:

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
digital rectal examination (neg. and pos. findings!)
duodenal tube placement
bladder catheterization in male and female
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
pick stich removal
participation in rigid sigmoidoscopy, 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
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 perirectal abscess or gluteal abscess
examination of panaritium, participation in its care
examination of lymphangitis and lymphadenitis
examination of a sacral dermoid cyst or perirectal anal fistula
leg varicosity
gangrene 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 required³: 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 semester⁴: We use catalogue on the practices. Based on the Semmelweis University's SZMSZ 3. chapter 17 § 7. attendance 75% of the practices is obligatory.

Requirement for acknowledging the semester (signature):

At least 75% attendance at the sessions

Type of the examination:

Oral and practical exam based on three pre-defined themes

Theses of the surgery exam (6th year)

General surgery

1. Asepsis, antisepsis, definition, tools, measurements
2. Wound infections, factors, risks, treatment
3. Symptoms of tetanus, treatment
4. Symptoms of gas gangrene, treatment
5. Abscess, phlegmone, empyema, folliculitis, furuncle, carbuncle, hidradenitis, lymphadenitis, lymphangitis
6. Types and symptoms of paronychia
7. Etiology of hemorrhage, types of bleeding
8. Haemostatic methods, intraoperative haemostasis
9. Thrombosis and embolism, thrombosis prophylaxis
10. Preoperative preparation of the patient
11. Operative risk, contraindications, postoperative complications
12. The wound. Its types and classification, wound healing. Treatment of a wound
13. Principles of Surgical Oncology, TNM classification, metastasis treatment
14. Basics of brain death, organ donation and transplantation

Theses of the surgery exam (6th year)

Organ specific surgery

1. Surgical diseases of the adrenal gland
2. Goitre (symptoms, diagnosis, treatment)
3. Thyroid tumours (symptoms, diagnosis, treatment)
4. Parathyroid gland: surgical aspects
5. Hiatal hernia
6. Esophagitis, achalasia, injuries
7. Oesophageal tumours
8. Ulcer disease: surgical aspects
9. Gastric (symptoms, diagnosis, treatment)
10. Cholelithiasis, choledocholithiasis (symptoms, diagnosis, treatment)
11. Complications of gallstone disease (symptoms, diagnosis, treatment)
12. Biliary strictures and malignancies (symptoms, diagnosis, treatment)
13. Portal hypertension. Surgical aspects
14. Benign liver tumours, abscess in the liver (symptoms, diagnosis, treatment)
15. Malignant liver tumours. Primary and metastatic tumours (symptoms, diagnosis, treatment)
16. Acute pancreatitis (symptoms, diagnosis, treatment)
17. Chronic pancreatitis (symptoms, diagnosis, treatment)
18. Tumours of the pancreas. Radical and palliative surgery
19. Surgical diseases of the small bowel
20. Colorectal polyps (symptoms, diagnosis, treatment)
21. Large bowel tumours (symptoms, diagnosis, treatment)
22. Rectal cancer (symptoms, diagnosis, treatment)
23. Diverticula, diverticulosis, diverticulitis (symptoms, diagnosis, treatment)
24. Crohn's disease: surgical aspects
25. Ulcerative colitis: surgical aspects
26. Hemorrhoid and anal fissure

27. Anal fistula and anorectal abscess
28. Acute peritonitis (symptoms, diagnosis, treatment)
29. Perforations (symptoms, diagnosis, treatment)
30. Acute appendicitis (symptoms, diagnosis, treatment)
31. Ileus: symptoms, diagnosis, classification, treatment
32. GI bleeding: upper GI tract
33. GI bleeding: lower GI tract
34. Inguinal and femoral hernias (symptoms, diagnosis, treatment)
35. Umbilical and epigastric hernias (symptoms, diagnosis, treatment)
36. Postoperative (incisional) and rare hernias (symptoms, diagnosis, treatment)
37. Complications of the hernias

Theses of the surgery exam (6th year)

Traumatology

1. Types of open mechanical injuries
2. Treatment of the open fractures, guidelines, methods
3. Guidelines of the treatment of fractures
4. Osteosynthesis, methods
5. Clinical symptoms of fractures, diagnosis
6. Classification of skull fractures, and treatment principles
7. Concussion and contusion of the brain, head contusion and their treatment
8. Epidural and subdural hematoma
9. Definition of brain death
10. Examination of spinal injuries, diagnosis
11. Surgical indications in the management of spinal injuries
12. Fixation of vertebral fractures
13. Classification of the fractures of the vertebral column treatment, prognosis
14. Treatment and diagnosis of hemo- and pneumothorax
15. Guidelines for observing patient with blunt abdominal injuries
16. Types and treatment of the injuries of the shoulder girdle
17. Therapeutic methods of humeral fractures
18. Therapy of fractures of olecranon
19. Treatment of forearm fractures in adults
20. Typical radial bone fracture principles and methods of its treatment
21. Perilunar luxation and fracture of the scaphoid bone. Therapy of Bennett's fracture
22. Types of pelvic fractures.
23. Types, therapy and probable complications of femoral fractures
24. Prognosis of intracapsular fractures of the femoral neck
25. Clinical symptoms of hip fractures
26. Diaphyseal fractures of the femur
27. Diagnosis and treatment of patellar fractures
28. Types and consecutive treatment of ankle fractures
29. Calcaneal fracture and its therapy
30. Symptoms and therapy of achilles tendon ruptures
31. Compartment syndrome of the lower extremity

<p>Type and method of grading⁶: weighted mean of theoretical and practical exam</p> <p>Oral exam of 4 theses: Vascular surgery at Cardiovascular Center Semmelweis University General and Organ specific surgery and Traumatology</p> <p>Practical exam grade: Explanation of the Logbook* and patient examination on site *interpretation of 10 surgical intervention with about 6-10 sentences, signed and confirmed by tutor</p>
<p>How to register for the exam: Neptun system</p>
<p>Opportunities to retake the exam: In accordance with the Study and Examination Regulations.</p>
<p>Literature, i.e. printed, electronic and online notes, textbooks, tutorials (URL for online material): Sabiston Essentials of Surgery. Saunders. Davis-Foster-Gamelli: Essentials of Clinical Surgery. Mosby Year Book Davis-Christopher (ed.: Sabiston): Textbook of Surgery. The biological basis of modern surgical practice. Saunders Company. Gaál: Sebészet. Bp. Medicina 2012 Littmann: Sebészeti műtéttan. Bp. Medicina</p>
<p>Signature of the tutor:</p>
<p>Signature(s) of the head(s) of the Institute(s):</p>
<p>Date:</p>

<p>Credit Transfer Committee's opinion:</p>
<p>Comment of the Dean's Office:</p>
<p>Signature of the Dean:</p>

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, 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 vizsgáztatás témakörét és módját.

⁶ Az elméleti és gyakorlati vizsga beszámításának módja. Az évközi számonkérések eredményeink beszámítási módja.