

Angol verzió

Semmelweis University, Faculty of Medicine - single, long-cycle medical training

Name of the host institution (and any contributing institution):

Traumatológiai Klinika, Ortopédiai Klinika

Name of subject: Traumatológia és ortopédia

in English: Traumatology and Orthopedics

in German: Traumatologie und Orthopädie

Credit value: 5

Semester: 7-8. szemeszter

(in which the subject is taught according to the curriculum)

Hours per week	Lecture	Practical lesson	Seminar
5	1	4	0

Hours per semester	Lecture	Practical lesson	Seminar
0	0	0	0

Type of course:

obligatory

Academic year:

2024/25

Language of instruction (for optional and elective subjects):

Course code:

AOKTRA1115_1A

(in the case of a new course, to be completed by the Dean's Office, following approval)

Course coordinator name: Dr. Bodzai Tamás János (klinikaigazgató)

Course coordinator location of work, telephone availability: Semmelweis University Clinic for Traumatology, e-mail: office.trauma@semmelweis.hu, Tel: 06 20/825-8680

Course coordinator position: Head of department, associate professor

Course coordinator Date and number of habilitation: In progress

Objective of instruction 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. Traumatology treatment for the most part deals with extremity surgery in correlation to orthopedics, however cranial, thoracic, abdominal, spinal and

pelvic injuries as well as the treatment of polytraumatized patients also belong to the field of trauma care.

Orthopedics is an integral part of the limb surgery branch of the surgical curriculum. Practitioners of almost any discipline encounter orthopedic issues, making it essential to understand the diagnosis and treatment options for fundamental conditions. Equally important is the timely recognition of specific, urgent, or potentially surgically treatable conditions. The field of orthopedics intertwines with and organically integrates knowledge from other disciplines, requiring above-average "lateral thinking" skills and synthetic thinking from students. This is what we aim to focus on.

Method of instruction (lecture, group work, practical lesson, etc.):

Lecture + practice. Small group work during the practice sessions. Clinical practice at the bedside.

During the 14 hours of lectures, the topics of the subject are presented, which the student supplements with the required literature and the lecture materials available on Moodle.

The lecture materials can be found on the university's website.

Semmelweis University E-learning portal (Moodle)

<https://itc.semmelweis.hu/moodle/>

Competencies acquired through completion of course:**Traumatology**

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. Students will have the opportunity to enter the operating theater, scrub in for operations, and become acquainted with special instruments used in Traumatology. Consultation of typical and the more frequent trauma cases, radiologic diagnostics, as well as videos in the operative theater are also part of the curriculum. During on duty shifts, students will have an opportunity to examine and participate in the trauma care of patients under supervision.

Orthopedics

Clinical examination competency. Proficiency in the indications for non-physical diagnostics in orthopedics. Confident group diagnosis and therapy of urgent and/or severely damaging conditions. Surgical and conservative treatment options for orthopedic conditions, their advantages and

disadvantages, and limitations. Upon completing the course, the student will be able to use examinations to identify patients in need of urgent orthopedic care. They will be able to select patients who do not require urgent care but will need assistance from an orthopedic specialist in the future. The student will also be able to conservatively manage basic conditions that do not require orthopedic intervention. They will understand the correlations of major orthopedic conditions.

Course outcome (names and codes of related subjects):

, , Sebészeti szigorlóévi gyakorlat: 1 hét traumatológia

Prerequisites for course registration and completion: (CODE):

Basic Surgical Techniques, Pathology II, Microscopic Anatomy and Embryology II, Internal Medicine – Propedeutics

In the case of multi-semester courses, position on the possibility of and conditions for concurrent registration:

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The number of students required to start the course (minimum, maximum), student selection method:

Since Traumatology is a compulsory subject, there is no minimum number of students.

Maximum number of students is 25 students/block

Detailed course syllabus (if the course can be divided into modules, please indicate): (Theoretical and practical instruction must be broken down into hours (weeks), numbered separately; names of instructors and lecturers must be listed, indicating guest lecturers/instructors. It cannot be attached separately! For guest lecturers, attachment of CV is required in all cases!)

Traumatology lectures are available on Semmelweis University's E-learning portal (Moodle)

Lectures

Traumatology lectures are available on Semmelweis University's E-learning portal (Moodle)

1. General Traumatology. Soft tissue injuries. Thermal injuries. Wound management.
2. Fracture management. Bone healing
3. Immediate care and major accidents. (Multiple injuries, shock, major disasters)

4. Thoracic and abdominal trauma
5. Neurotrauma. Spinal, cranial and facial trauma.
6. Pelvic injuries. Femoral fractures (proximal femur and shaft)
7. Fractures of the tibia and fibula. Injuries of the ankle, talus, calcaneus and the foot
8. Knee Injuries. Cartilage repair, ligament surgeries
9. Injuries of the upper extremity
10. Hand injures
11. Pediatric trauma
12. Management of open fractures. Septic and non-septic complications in Traumatology.
13. Endoprosthetic replacement possibilities in Traumatology. Periprosthetic fractures and complications

1 theoretical day, 3 practical days, and 1 practical exam day.

The Traumatology Department reserves the right to make changes in the lecture schedule and practical lessons schedule during the academic year.

Orthopedics Orthopedics e-learning material is available on Semmelweis University's e-learning portal (Moodle system).

1. General Orthopedics
2. Metabolic Bone Diseases
3. Diseases of the Spine
4. Diseases of the Shoulder Girdle
5. Diseases of the Wrist and Hand
6. Hip Joint Diseases in Adulthood
7. Diseases of the Knee Joint
8. Diseases of the Foot
9. Developmental Abnormalities of the Skeletal System
10. Neuromuscular Diseases
11. Pediatric Orthopedics
12. Tumors of the Musculoskeletal System

4 mixed theoretical and practical days, and 1 practical exam day.

The Orthopedic Department reserves the right to make changes in the lecture schedule and practical lessons schedule during the academic year.

Other courses with overlapping topics (obligatory, optional, or elective courses) in interdisciplinary areas. To minimize overlaps, topics should be coordinated. Code(s) of courses (to be provided):

Elsősegély, Belgyógyászat II. (hematológia, infektológia, immunológia, reumatológia, laboratóriumi medicina), Gyermekgyógyászat, Gyermekgyógyászat

Requirements for attendance, options for making up missed sessions, and method of absence justification:

Based on the 39/2023. (V.25.) Semmelweis University Organizational and Operating Regulations amended by university's Senate - III. BOOK Student Requirements - III.2. PART Academic and Examination Regulations, Section 29. § 4, which states: „absences must be assessed together for lectures, seminars and practices requiring attendance, and may not exceed 10% during the block schedule of 4th-5th year Faculty of Medicine students...”

Only 7 academic hours of absence can be accepted in Traumatology and orthopedics for 4th year students during their Traumatology and orthopedics block of 70 hours!

The date of signing the attendance sheets for the given day is the responsibility of the hospitals' department.

Any student who, for whatever reason, needs to be absent for a maximum of 7 academic hours, but whose attendance has not yet been checked that day, should notify the teacher that he/she wishes to sign the attendance sheet and indicate the exact time spent at the department on that day (the exact time of arrival and departure).

Make up of absences:

- Make up of absences can be done in a later block, but only within the semester. Students need to make up the same day they were absent in the original block (practice day or lectures). The student can only take the semi-final exam after make-up of the absence - at the earliest in that block that he/she made up in. Scheduling of make-up of absence during traumatology days and making an appointment for the postponed examination needs to be confirmed by e-mail through the Clinic for Traumatology. Scheduling of make-up of absence during orthopedic

days and making an appointment for the postponed examination needs to be confirmed by e-mail through the Clinic for Orthopedics.

- If the absence were to occur in the last block of the first semester, then make-up of the absence can be done in the second semester, but the student needs to reapply for the course as "only exam" in the second semester. The earliest at which a student can take the exam is at the end of the block in which the student made-up the absence. Scheduling of absence during traumatology days and making an appointment for the postponed examination needs to be confirmed by e-mail through the Clinic for Traumatology. Scheduling of make-up of absence during orthopedic days and making an appointment for the postponed examination needs to be confirmed by e-mail through the Clinic for Orthopedics.
- If the absence were to occur in the last block of the second semester, then make-up of the absence can be done in the first semester of the following year. In this case, the student needs to reapply for the course as "only exam" in the following year. The earliest at which a student can take the exam is at the end of the block in which the student made-up the absence. Scheduling of absence during traumatology days and making an appointment for the postponed examination needs to be confirmed by e-mail through the Clinic for Traumatology. Scheduling of make-up of absence during orthopedic days and making an appointment for the postponed examination needs to be confirmed by e-mail through the Clinic for Orthopedics.

Assessment methods during semester (number, topics, and dates of midterms and reports, method of inclusion in the course grade, opportunities for make-up and improvement of marks):

(number, topics, and dates of midterms and reports, method of inclusion in the course grade, opportunities for make-up and improvement of marks)

Within the short course of the Traumatology and Orthopedics block, there will be no formal assessment of students. The interactive practices and seminars allow for evaluation of students' knowledge of the subject.

Number and type of individual assignments to be completed, submission deadlines:

Practical exam: Patient examination (in case of traumatology on Tuesday of the second week of the block, in case of orthopedics on Wednesday of the third week).

Completing the traumatology and orthopedics practical exams is required for the signature, and for the final exam.

Evaluation of the practical exam: successful/ not successful.

Requirements for the successful completion of the course:

Minimum required active attendance of the block seminars and practices and completion of the practical exams.

Type of assessment:

Examination requirements (list of examination topics, subject areas of tests, lists of mandatory parameters, figures, concepts and calculations, practical skills, optional topics for the project assignment recognized as an exam and the criteria for its completion and evaluation)

The knowledge of the given textbook, uploaded lecture material in Moodle and practice material.

Method and type of grading (Share of theoretical and practical examinations in the overall evaluation. Inclusion of the results in the end-of-term assessment. Possibilities of and conditions for offered grades.): (Share of theoretical and practical examinations in the overall evaluation, Inclusion of the results in the end-of-term assessment, Possibilities of and conditions for offered grades)

Completing the traumatology and orthopedics practical exams is required for the signature, and for the final exam.

Evaluation of the practical exam: successful/ not successful

Written MCQ electronic exam. 5 scale grading (1-5).

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List of coursebooks, textbooks, study aids and literature facilitating the acquisition of knowledge to complete the course and included in the assessment, precisely indicating which requirement each item is related to (e.g., topic by topic) as well as a list of important technical and other applicable study aids; possibility of individual or group student consultation, if available:

Type	Required	Author	Title	Publisher	Year of publication	Link
	igen					https://itc.semmelweis.hu/moodle/

	igen	Editors: Andrew B. Peitzman Michael Rhodes C. William Schwab Donald M. Yealy Timothy C. Fabian	The Trauma Manual: TRAUMA AND ACUTE CARE SURGERY Third edition	Wolters Kluwer / Lippincott Williams & Wilkins	1	
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Signature of habilitated instructor (course coordinator) announcing the course:

Signature of the director of the host institution:

Date of submission:

2024.08.05.

