

REQUIREMENTS

Semmelweis University, Faculty of Medicine Name of the managing institute (and any contributing institutes): Department of Pathology, Forensic-, and Insurance Medicine
Name of the subject: Forensic Medicine in English: - in German: - Credit value: 2 Total number of lessons: 28 lecture: 0 practical course: 10 seminar: 18 Subject type: <u>compulsory course</u> elective course optional course
Academic year: 2022/2023
Subject code: AOKIGS754_1A <i>(In case of a new subject, it is filled by the Dean's Office, after approval)</i>
Name of the course leader: Dr. Kiss András His/her workplace, phone number: Department of Pathology, Forensic and Insurance Medicine, phone: 061-215-6921 Position: director Date and registration number of their habilitation: 30th May 2007, reg. number: 248
Objectives of the subject, its place in the medical curriculum: Forensic medicine is a science forming a bridge between medicine and law, aiming to communicate medical findings in order to aid jurisdiction. In our course we go beyond morphology and diagnoses, and try to reveal the underlying causes of the current state of a body, through providing a foundation for the understanding of changes, injuries and disease states at the molecular, cellular, tissue, organ, and organism levels. The purpose of the subject is to achieve the qualities of a medical doctor, within the framework of forensic medicine, and for the students to become (a) independent, (b) critically thinking, (c) able to make decisions, and (d) take further necessary actions, (e) recognize emergency situations and (f) respects the boundaries of their competency. During this course our goal is to pass over the knowledge substantial in everyday clinical practice, making the main objective of this subject to help acquire the following practical skills: <ol style="list-style-type: none"> I. Attain the skillset of on-scene inspection of cadavers, and familiarize with the procedure of processing cases of the deceased. II. Examining injuries, and injury-patterns in the clinical practice, with the ability to individually evaluate, and professionally document them.
Place where the subject is taught (address of the auditorium, seminar room, etc.): Hegedűs Gyula Room, Harsányi Hall, Autopsy Room, Digital Hystopatology Practice Room, Kenyeres Hall All premises above are located under our main address, at 93. Üllői street 1091 Budapest.

Successful completion of the subject results in the acquisition of the following competencies:

Successfully completing the subject will result in the attainment of the following practical skills and knowledge:

Sufficient data about basic disease reactions and organ specific reactions so that you can:

- Interpret signs and symptoms appearing in a patient's history and create a differential diagnosis.

Sufficient knowledge of forensic pathology and histopathology at large so that you can:

- Interpret findings at autopsy
- Interpret reports of forensic pathology
- Intelligently review forensic pathology slides and images with a consulting forensic pathologist

Awareness of the role of autopsy in medicine.

Course prerequisites:

Pathology, Genetics, Pharmacology

Number of students required for the course (minimum, maximum) and method of selecting students:

The announcement of the courses is based upon the orders of the Dean's Office of General Medicine.

Maximum headcount of the course: 26

Minimum headcount of the course: 10

How to apply for the course:

Applying for the course takes place via the NEPTUN system, regarding the instructions of the Study and Exam Committee (TVSZ) and the Dean's Office of General Medicine.

Detailed curriculum:

The course is organized in the block-based education system, throughout 40 weeks, in blocks of 2 weeks. Practical classes are preceded by short theoretical preparation sessions, followed by a gradual introduction to the clinically oriented practices, emphasizing the importance of examination of cadavers for every student. During the sessions we organize the students into small groups, challenging them to examine and process cases, while the theoretical preparation classes are held in bigger groups. Regular oral and written contribution of the students (case reports, and independent documentation) is substantial during the course. All sessions are required to contain feedback elements. At the end of the course an oral exam is conducted on the second week (see details below).

Detailed schedule***Week A*****Monday (A/I)**

- Introduction to Forensic medicine. Violent death and post mortem changes (2 periods – Dr. Almádi Zsófia)
- Types and patterns of injuries (2 periods – Dr. Törő Klára)
- Electrical fatalities, burns and scalds (1 periods – Dr. Némethi Balázs)
- DNA analysis (1 periods – Dr. Némethi Balázs, Dr. Lászik András)
- Sudden death (number of classes: 1 period – Dr. Bokor János)

- Head trauma (1 period – Dr. Csáki Erzsébet, Dr. Almádi Zsófia)

Tuesday (A/II)

- Autopsy room practice (2 periods – Dr. Marcsa Boglárka, Dr. Almádi Zsófia, Dr. Csáki Erzsébet)
- Examination on the scene of death (1 period – Dr. Marcsa Boglárka)
- General toxicology (1 period – Szabó-Kócs Tamara)
- Documentation of injuries (2 periods – Dr. Almádi Zsófia)
- The role of histopathology in forensic medicine (1 period – Dr. Hegedüs Panna, Dr. Danics Krisztina)
- Asphyxia and drowning (1 period – Dr. Csellár Lilla, Dr. Törő Klára)

Wednesday (A/III)

- Autopsy room practice (2 periods – Dr. Bokor János, Dr. Némethi Balázs, Dr. Misnyovszki Péter)
- Medico-legal aspects of traffic accidents (1 period – Dr. Misnyovszki Péter, Dr. Almádi Zsófia)
- Firearm injuries (1 period – Dr. Misnyovszki Péter, Dr. Almádi Zsófia)
- Identification (2 periods – Dr. Magyar Lóránt)
- External examination practice (2 periods – Dr. Magyar Lóránt, Dr. Marcsa Boglárka, Dr. Némethi Balázs, Dr. Misnyovszki Péter, Dr. Hegedüs Panna)

Friday (A/IV)

- Autopsy room practice (2 periods – Dr. Magyar Lóránt, Dr. Csellár Lilla, Dr. Danics Krisztina)
- Clinical toxicology, commonly misused drugs (2 periods – Dr. Zacher Gábor)

The names of tutors listed above is given for information purposes only, the actual roster of tutors may change in accordance with the rules for substituting tutors on classes.

Week B

Wednesday

- Oral exam

Friday

- Oral exam

Other subjects concerning the border issues of the given subject (both compulsory and optional courses!). Possible overlaps of themes:

Neurology – head injuries

Traumatology – injuries of bones and soft tissues

General practice – examination of cadavers

Radiology – radiological results as proof

Gynaecology – sexual offences

Internal medicine – toxicology

Special study work required to successfully complete the course:

Successfully completing the subject does not require additional instructional occupation.

Requirements for participation in classes and the possibility to make up for absences:

Students are required to be present on 75% of all classes, and thus allowed to miss 7x45 minutes of education, provided that they attend at least one autopsy room practice during their rotation. The names of students listed on the attendance sheet or make up sheet of practices, signed by the appointed instructor of the class classifies as a proof of their verified presence on the session.

Making up for absences can be done by joining other, subsequent groups in which case missed classes must be made up for in accordance with their original topics. Attending another group has to be arranged with the resident educational advisor of the department in advance!

The make-up classes have to be registered and presented to the secretary of the department by 2 days before the exam at latest. Presenting a written certificate of the makeup classes is the responsibility of the students attending the course! If the number of missed classes exceeds 7, and the make-up classes have not been verified, the subject cannot be completed.

The rules above may vary in accordance with rules and regulations due to the pandemic situation.

Methods to assess knowledge acquisition during term time:

No mid-term examination takes place, and homework is not given. Assigned groups all take their exams on the B week of their periods, on the given specific days provided above.

Requirements for signature:

Attendance will be monitored on each class of the course individually and registered on the attendance sheet at the beginning or end of classes. Taking attendance is the responsibility of the tutor. Students with the required amount of attendances (see segment *Requirements for participation in classes and the possibility to make up for absences* for more information) will be given signature by the end of the first week of their rotation.

Type of examination:

The subject concludes with an **oral exam**. Students are required to pick two randomly chosen topics from the list below and talk about them after a brief preparation time. The preparation time only applies if the exam is held in person.

Requirements of the examination:

List of topics

1. Definition of death. Post mortem changes.
2. The early post-mortem interval.
3. The late post-mortem interval. Estimation of post-mortem interval.
4. Estimating the time of death.
5. Determining the cause of death. Medico-legal investigation of death.
6. The autopsy.
7. Methods of identification. Identification of decomposed or skeletonized remains.
8. Sudden death of cardiovascular disorders.
9. Sudden death of respiratory and gastrointestinal disorders.
10. Sudden infant death.
11. Child abuse. Safeguarding children.
12. Terminology of injuries. Types of injuries.
13. Self-inflicted injury.
14. Injury patterns. Documentation of injuries and marks of injury.
15. Head and neck injuries.
16. Spinal, chest and abdominal injuries.
17. Gunshot injuries.
18. Differentiation of accident, suicide or murder in gunshot injuries.
19. Sexual assault: examination requirements, evidential samples and documentation.
20. Transportation under influence. Drink and drive problems. Widmark's formula.
21. Road traffic injuries.
22. Railway injuries, aircraft fatalities.
23. Classification of asphyxia. Signs of asphyxia.

24. Types of mechanical asphyxial mechanism.
25. Immersion deaths: evidence of immersion. Post-mortem artefact and immersion.
26. Pathological diagnosis of drowning. The role of alcohol in drowning.
27. Injury caused by heat. Cold injury, hypothermia.
28. Electrical injury.
29. Principles of toxicology.
30. Commonly misused drugs and drug related death.
31. Carbon-monoxide poisoning. Arsenic, cyanide, lead and methanol poisoning.
32. Scene examination and evidence recovery. Examination on the scene
33. Forensic DNA analysis.

Method and type of evaluation:

Students are being evaluated based on their presentation of their assigned topic, and on their answers to the follow-up questions.

The students will then be graded on a scale of 1-5, with a 1 resulting in a fail.

How to register for the examination:

Via the NEPTUN system, according to the general rules of the Study and Exam Regulations (TVSZ).

Possibilities for exam retake:

Via the NEPTUN system, according to the general rules of the Study and Exam Regulations (TVSZ). Successful exams may be repeated up to 1 time.

Printed, electronic and online notes, textbooks, guides and literature (URL address for online material) to aid the acquisition of the material:

- Lecture notes of forensic medicine. Semmelweis Publisher. 2008.
- Simpson's Forensic Medicine. 13th edition. Hodder Arnold Publishing. 2011.
- www.forensicmed.co.uk edited by: Richard Jones

Signature of the habilitated instructor (course leader) who announced the subject:

Signature of the Director of the Managing Institute:



Hand-in date:

Opinion of the competent committee(s):

Comments of the Dean's Office:

Dean's signature: