

Medicinski fakultet u Rijeci

**IZVEDBENI NASTAVNI PLAN
2024/2025**

Za kolegij

Ultrasound examination in emergency situations I

Studij:	Medical Studies in English (R) (izborni) Sveučilišni integrirani prijediplomski i diplomski studij
Katedra:	Katedra za anesteziologiju, reanimatologiju, hitnu i intenzivnu medicinu
Nositelj kolegija:	prof. dr. sc. Protić Alen, dr. med.
Godina studija:	5
ECTS:	1.5
Stimulativni ECTS:	0 (0.00%)
Strani jezik:	Ne

Podaci o kolegiju:

The use of ultrasound examination is a mandatory skill for modern doctor, and every doctor must be able to perform an ultrasound examination of a patient in life-threatening condition. Through this course, students acquire the basics of sonoanatomy and ultrasonography for examining patients according to the FAST-ER protocol (Focused Assessment with Sonography for Trauma/Extended Respiration). This protocol detects the presence of free fluid in 4 spaces - perisplenic, perihepatic, in the space of Douglas and the pericardial space. The extended protocol includes the detection of free intrathoracic fluid, as well as the detection of pneumothorax. By practicing on the models, students will handle different ultrasound probes and learn the main ultrasound characteristics for the detection of free fluid and pneumothorax, which are critical skills in caring for a patient in a life-threatening condition and can be done quickly and directly at the patient's bedside, and based on them, decide on further procedures in patient treatment.

Course content

Sonoanatomy basics. Handling of the ultrasound device. The FAST-ER protocol. Ultrasonic identification of free liquid. Ultrasound recognition of pneumothorax.

Ishodi učenja:

- To learn the basics of sonoanatomy relevant for the FAST-ER protocol
- Handle the ultrasound device and
- To understand the basics of the ultrasound physics
- Choose an appropriate ultrasound probe
- Disinfect the ultrasound device
- To master FAST-ER protocol
- To detect free liquid in the perisplenic space
- To detect free liquid in the perihepatic space
- To detect free fluid in the Douglas space
- Detect free intrathoracic fluid
- Recognize pneumothorax using ultrasound

Popis obvezne ispitne literature:

Šustić A, Sotošek V et al. Handbook of Anesthesiology, Reanimatology and Intensive Care Medicine for student of Medicine and Dental Medicine, Zagreb: Medicinska naklada; 2021.

Popis dopunske literature:

<https://www.ncbi.nlm.nih.gov/books/NBK470479/>

Nastavni plan:

Obveze studenata:

Students are required to regularly attend and actively participate in all forms of classes.

Ispit (način polaganja ispita, opis pisanog/usmenog/praktičnog dijela ispita, način bodovanja, kriterij ocjenjivanja):

Evaluation of students is carried out in accordance with the current Rulebook on studies of the University of Rijeka and the Rulebook on evaluation of students of the Faculty of Medicine in Rijeka (adopted by the Faculty Council of the Faculty of Medicine in Rijeka). Students' work will be evaluated during the course and in the oral exam. During the class, students will be continuously evaluated using appropriate forms. On the learning platform, they will solve small tests of knowledge.

Ostale napomene (vezane uz kolegij) važne za studente:

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SATNICA IZVOĐENJA NASTAVE 2024/2025

Ultrasound examination in emergency situations I

Popis predavanja, seminara i vježbi:

ISPITNI TERMINI (završni ispit):
