[Medicinski fakultet u Rijeci]

**Curriculum**
**2021/2022**

[Za kolegij]

# Anaesthesiology, Reanimatology and Intensive Medicine

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|---|---|
| Study program: | **Medical Studies in English (R)**<br>[Sveučilišni integrirani prijediplomski i diplomski studij] |
| Department: | **[Katedra za anesteziologiju, reanimatologiju, hitnu i intenzivnu medicinu]** |
| Course coordinator: | **prof. dr. sc. Sotošek Vlatka, dr. med.** |
| Year of study: | **5** |
| ECTS: | **4** |
| Incentive ECTS: | **0 (0.00%)** |
| Foreign language: | **Possibility of teaching in a foreign language** |

## Course information:

**Anesthesiology, Reanimatology and Intensive Care Medicine** is a compulsory course on the 5th year of the Integrated Undergraduate and Graduate Study of Medicine in English. It consists of 12 hours of lectures, 68 hours of practicals, and a total of 80 hours (4 ECTS credits). The course is held at the Department of Anaesthesiology, Reanimatology, Emergency and Intensive Care Medicine, Clinical Hospital Center Rijeka and at The Institute of Emergency Medicine of the Primorje-Gorski kotar County.

**Course objectives**: The goal of this course is to encounter students with basic knowledge and skill of anesthesiology, reanimation and intensive care medicine. Further goal is to introduce to the students different anesthesia techniques, its indications and contraindications. Special attention is on training students to perform basic and advanced life support in adult and in children. Furthermore, the aim of the course is to encounter students with intensive care units, monitors of vital signs and treatment of critically ill patients. Additional goal is to introduce to the students different techniques of pain management.

**Course content:**
Anesthesiology: Historical review of the development of anesthesiology. Preoperative preparation of patients and operative risk assessment. Organization of anesthesia service and postoperative anesthesia care unit. General anesthesia, inhaled anesthetics, intravenous anesthetics and opioids, muscle relaxants. Regional anesthesia. Acute and chronic pain.
Reanimatology: Basic and advanced life support procedures. Approach to the patient with multiple injuries in outpatient emergency medical service. Approach to the patient with multiple injuries in the hospital emergency medical service.
Intensive care medicine: Organization of intensive care units. Vital signs monitoring in anesthesiology and intensive care medicine. Approach to the circulatory unstable patient. Sepsis and septic shock. Shock. Mechanical ventilation and Acute respiratory distress syndrome. Acute toxicity. Brain death and maintenance of a deceased organ donor for organ transplantation.

**Teaching:**
Classes are organized in the form of lectures and practicals. The estimated duration of course is 3 weeks. Lectures will be held on lecture room or on-line (MS Teams, Merlin platform) depending on epidemiological situation. Practicals are supervised by anesthesiologist and intensive care medicine physician, and the student are actively involved in practicals in accordance with epidemiological recommendations. Teaching staff will discuss with the students practicals. By completing all teaching activities, the students must pass obligatory test and final exam. By completing all teaching activities, the students will acquire 4 ECTS credits

## List of assigned reading:

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.

## List of optional reading:

Allman KG, Wilson IH. Oxford handbook of anaesthesia. Oxford: Oxford University Press; 2016.

## Curriculum:

## Student obligations:

Attendance on lectures and practicals is mandatory. Communication between the teaching stuff and students will take place on Merlin e-learning system or by e-mail addresses (@uniri.hr)

**Exam (exam taking, description of the written/oral/practical part of the exam, point distribution, grading criteria):**

Student assessment is carried out in accordance with the current University of Rijeka Study Regulations and the Student Regulations at the Faculty of Medicine Rijeka (adopted by the Faculty Council of the Faculty of Medicine Rijeka). Students' performance will be evaluated during the course and at the final exam. Out of a total of 100 credits, a student can earn 50 credits (50%) during the course, and 50 credits (50%) at the final exam. Student assessment is performed using ECTS (A-F) and number system (1-5). Student assessments in ECTS system is carried out by is performed by absolute distribution, and according to graduate assessment criteria. Out of a total of 50 credits that can be earn during the course, student must earn 25 credits to take final exam.

The student acquires grade points by completing the tasks as follows I. During the course (maximum 50 credits): Obligatory test (maximum 50 credits) During the course students must take obligatory test of BLS and ALS and can earn maximum (range 25-50). The obligatory test is held the Skills Lab Simulation Center (Kabinet vještina). During the obligatory test teacher grades knowledge and skills of each student as follows:

| grade | credits |
|---|---|
| sufficient | 25 |
| good | 33 |
| very good | 42 |
| excellent | 50 |

II. Final exam (maximum 50 credits): Final exam is consist of obligatory written exam on Merlin platform. Student who earn 25 or more credits during the course can take final exam. Student who earn less than 25 credits during the course cannot take final exam. Final exam is scored maximal up to 50 credits. Final exam is consist of 24 questions and brings 50 credits (rage 25-50). To earn the credits student must pass 50% of final test. Correct answers are converted in credits by the following criteria:

| CORRECT ANSWERS (%) | credits |
|---|---|
| 50-54,99% | 25 |
| 55-59,99% | 30 |
| 60-64,99% | 32,5 |
| 65-69,99% | 35 |
| 70-74,99% | 37,5 |
| 75-79,99% | 40 |
| 80-84,99% | 42,5 |
| 85-89,99% | 45 |
| 90-94,99% | 47,5 |
| 95-100% | 50 |

For a passing grade during classes and on the final exam, student has to obtain minimum of 50 credits. The ECTS grading system is defined by the following criteria:
A (5) – 90 -100% credits
B (4)– 75 - 89,9% credits
C (3) – 60 - 74,9% credits
D (2) -- 50 - 59,9% credits
F (1) – 0 - 49,9% credits

Grades in ECTS grading system are converted in numerical system by the following criteria:
A = excellent (5)
B = very good (4)
C = good (3)
D = sufficient (2)
F = insufficient (1)

### Other notes (related to the course) important for students:

Course content and all information related to the course as well as exam dates can be found on the Merlin elearning system and on the web pages of the Department of Anesthesiology, Reanimatology, Emergency and Intensive care. All student inquiries, regarding the course and possible problems, remarks and inquiries are provided exclusively using the official e-mail addresses (@medri.uniri.hr) or via the Merlin e-learning system. It is possible to arrange consultations with the teaching staff during working hours

### COURSE HOURS 2021/2022

Anaesthesiology, Reanimatology and Intensive Medicine

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### List of lectures, seminars and practicals:

### EXAM DATES (final exam):

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