[Medicinski fakultet u Rijeci]

Curriculum
2024/2025

[Za kolegij]

Emergency Medical Conditions I

Study program:	**Medical Studies in English (R)** [Sveučilišni integrirani prijediplomski i diplomski studij]
Department:	**[Katedra za anesteziologiju, reanimatologiju, hitnu i intenzivnu medicinu]**
Course coordinator:	**naslovna doc. prim.dr.sc. Pavletić Martina, dr. med.**
Year of study:	**4**
ECTS:	**7**
Incentive ECTS:	**0 (0.00%)**
Foreign language:	**Possibility of teaching in a foreign language**

Course information:

Course **Emergency medicine I** is compulsory course in the 4th year of the Integrated Undergraduate and Graduate Study of Medicine in English. It consists of 1 hour of lectures, 129 hours of exercises, individual assignment and group seminar paper (7 ECTS credits). The course is held in the premises of the Department for Emergency Medicine, University Hospital Center Rijeka.

The course is composed of 8 clinical practices, which include an introduction to emergency medicine, triage, history-taking and physical examination, basic EKG interpretation, venipuncture, IV therapy, sampling for ABS, urinary catheter placement, and other essential emergency room procedures. There are also two online interactive practice sessions held via MS Teams, where students present their group seminar paper and two case studies from clinical practice.

Course objectives:

Adopt theoretical knowledge in the field of internal medicine, neurology, paediatrics, infectology and psychiatry. Students are going to apply knowledge during practical work in Emergency medicine department through 12 hours shifts. It is expected that students adopt process of triage, interviewing, physical examination and assessing of emergency level in critically ill patients. In addition, it is expected to understand principal indications for laboratory, imaging and endoscopic procedures in emergency department.

Course content:

Approach to the emergency patient, importance of anamnestic data and physical examination, basics of emergency medicine and introduction in the most common emergency conditions in internal medicine, neurology, paediatrics, infectology and psychiatry. Importance of diagnostic methods in radiology, laboratory diagnostics and endoscopy. Basic introduction in other non-surgical medical fields like dermatovenerology and oncology. Differential diagnosis and multidisciplinary approach. Fieldwork are going to be organised as assistance for medical transportation in ambulance car.

Teaching:

Classes are organized in the form of lectures and exercises, with individual and group assignements. Exercises are supervised by emergency medicine physicians, while students are actively involved in patient treatment in Department of Emergency medicine. Teachers discuss with students the specifics of each exercise. By completing all teaching activities, the student's attendance on exercises acquires 7.0 ECTS credits.

List of assigned reading:

1. Cydulka R.K. et all. Tintinalli's Emergency medicine manual, 18th edition, 2018.
2. Mahadevan S.V., Garmel G.M. Introduction to clinical emergency medicine, Cambrige Univeristy press, 2015.

List of optional reading:

Curriculum:

[Vježbe] list (with titles and explanation):

P1 - Introduction to emergency medicine

Learning outcomes:

Define key concepts of emergency medicine

Students will be able to clearly define the key concepts of emergency medicine, including the basic concepts and procedures used in emergency situations.

P2 - ABCDE approach

Learning outcomes:

Identify key priorities in the assessment of a critically ill patient.

Students will learn to identify essential aspects of patient assessment to act quickly and effectively in emergency medical situations.

Explain the importance of the sequence of actions in the assessment and interventions of critically ill patients.

Students will explain the impact of a structured approach on treatment success and patient outcomes.

P3 - Differential diagnosis and investigation

Learning Outcomes:

Recognize symptoms and signs of emergency medical conditions

Students will be able to identify key symptoms and signs that indicate emergency medical conditions, allowing for timely response and approach to patients.

Develop the ability to analyze differential diagnosis

Students will learn to analyze clinical data to properly consider various possible diagnoses and select the most probable one.

Apply appropriate diagnostic procedures

Students will be capable of selecting and applying suitable diagnostic tests and procedures to confirm or rule out potential diagnoses.

Interpret the results of diagnostic tests

Students will acquire skills in interpreting the results of laboratory and diagnostic tests and integrating them into the overall clinical picture of the patient.

P4 - POCus - bedside ultrasound in emergency medicine

Learning outcomes:

Identify the basic indications for the use of bedside ultrasound in emergency medical situations.

- Students will be able to identify situations in emergency medicine where the application of ultrasound can enhance the diagnostic process and patient treatment.

P5 - Approach to the patient with chest pain

Learning Outcomes for the Lecture:

Recognize symptoms and causes
Description: Students will be able to identify the main symptoms occurring in patients with chest pain and understand potential causes and characteristics that may be associated with different emergency medical conditions.

Apply appropriate diagnostic procedures

Description: Students will be able to select and use appropriate diagnostic procedures for assessing a patient with chest pain, relying on clinical assessments and protocols.

P6 - Approach to the patient with dispnea

Learning Outcomes:

Distinguish the causes of dyspnea.
Description: Students will be able to recognize and identify various etiologies of dyspnea, including cardiovascular, respiratory, metabolic, and neurological causes, facilitating precise direction for further diagnostics and treatment.

Evaluate clinical findings in patients with dyspnea.
Description: Students will learn how to gather relevant histories and clinical findings using physical examinations and basic diagnostic techniques to assess the patient's condition.

Analyze laboratory and imaging tests for evaluating patients with dyspnea.
Description: Students will develop the ability to interpret laboratory test results and imaging studies to enhance the diagnostic process and determine the causes of dyspnea.

P7 - Approach to the patient with abdominal pain

Learning Outcomes:

Recognition: Students will be able to identify various causes of abdominal pain in patients through symptom analysis and medical history.
Description: Participants will learn how to assess the clinical picture to differentiate abdominal pain caused by conditions such as appendicitis, gallstones, or pancreatitis.

Application: Students will apply standardized protocols for the initial assessment and stabilization of patients with abdominal pain.
Description: Participants will learn to use diagnostic tools and clinical guidelines for optimal management of patients with this symptom.

Analysis: Students will analyze laboratory and imaging findings to formulate a differential diagnosis for abdominal pain.
Description: Participants will evaluate test results to differentiate benign causes of pain from those requiring urgent intervention.

P8 - Approach to the patient with loss of consciousness

Learning Outcomes:

Distinguish various causes of loss of consciousness

- Students will be able to identify diverse causes that can lead to episodes of loss of consciousness, such as neurological, cardiovascular, metabolic, and other causes.

Analyze the underlying mechanisms leading to loss of consciousness

- Students will understand and explain the physiological and pathophysiological processes in the body that can result in loss of consciousness.

Apply clinical assessment methods for patients with loss of consciousness

- Participants will be capable of conducting basic clinical assessments including checking vital signs, performing neurological evaluations, and gathering relevant medical histories for patients who have lost consciousness.

Develop a differential diagnosis based on clinical findings

- Students will elaborate on differential diagnoses and identify the most likely causes of loss of consciousness based on the clinical data collected during patient examinations.

Student obligations:

A complete medical uniform ('scrub') is recommended for attendance at practice sessions. If you do not possess one, a pressed white coat, a shirt, and trousers with long legs will suffice. It is also advisable to bring your own stethoscope if you have one.

Clinical skills to be mastered during practice are recorded in the MedRi INP application in the Student Clinical Skills Booklet. The educational material and detailed instructions for the course will be available through the MS Teams channel 'Emergency Medicine Conditions I,' accessible via the provided link, and through the Merlin online learning system.

Case studies and seminar papers should also be submitted for review through MS Teams (assignment) . Attendance will be monitored through the INP application.

Attendance on exercises and work with doctors at the Department for Emergency Medicine is mandatory.

Exchanges for practice session dates are possible only with prior arrangement with the assistant or course leader. Absences must be compensated for by agreement with the assistant or course leader. Additional terms will be held during July and September 2024. The allowed limit of justified absences is 30%, with a medical certificate in case of illness.

Individual assignment in form of case report of two patient in whose treatment they participated is mandatory.

Group assignment in form of group seminar paper is mandatory.

All communication between students and faculty must be conducted exclusively through official AAI@edu.hr (or @uniri.hr) identities. The same applies to accessing the MS Teams channel.

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

To successfully pass the course, you must:

- Attend practice sessions

- Write up two case studies (you will choose cases depending on the clinical cases you have the opportunity to see, as we cannot predict the pathology and cases we will deal with on that day :))

- Complete a group seminar paper.

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

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COURSE HOURS 2024/2025

Emergency Medical Conditions I

[Vježbe] (Place and time or group)
01.05.2025
P1 - Introduction to emergency medicine: • [OHBP Sušak] (20:00 - 08:00) [2155]   ○ EMCI-2D
naslovna asistentica Rosić Ivana, dr. med. [2155]
04.05.2025
P2 - ABCDE approach: • [OHBP Sušak] (08:00 - 20:00) [2155]   ○ EMCI-2D
naslovna asistentica Rosić Ivana, dr. med. [2155]
05.05.2025

P1 - Introduction to emergency medicine:
• [OHBP Sušak] (08:00 - 20:00) [293] [1975]
  ○ EMCI-1D
  ○ EMCI-1B
 	
P3 - Differential diagnosis and investigation:
• [OHBP Sušak] (20:00 - 08:00) [2155]
  ○ EMCI-2D

naslovni asistent Lerga Mate, dr. med. [293] · naslovna asistentica Mavrinac Nataša, dr. med. [1975] · naslovna asistentica Rosić Ivana, dr. med. [2155]
06.05.2025
P1 - Introduction to emergency medicine: • [OHBP Rijeka] (20:00 - 08:00) [2775]   ○ EMCI-2A
naslovna asistentica Poldan Skorup Klara, dr. med. [2775]
09.05.2025

P1 - Introduction to emergency medicine:
• [OHBP Rijeka] (08:00 - 20:00) [2153]
  ○ EMCI-2C
 	
P4 - POCus - bedside ultrasound in emergency medicine:
• [OHBP Sušak] (20:00 - 08:00) [2155]
  ○ EMCI-2D
 	
P2 - ABCDE approach:
• [OHBP Rijeka] (20:00 - 08:00) [2775]
  ○ EMCI-2A

naslovna asistentica Petrić Tamara, dr. med. [2153] · naslovna asistentica Poldan Skorup Klara, dr. med. [2775] · naslovna asistentica Rosić Ivana, dr. med. [2155]
10.05.2025
P2 - ABCDE approach: • [OHBP Sušak] (20:00 - 08:00) [1975]   ○ EMCI-1D

naslovna asistentica Mavrinac Nataša, dr. med. [1975]

13.05.2025

P3 - Differential diagnosis and investigation:
- [OHBP Sušak] (08:00 - 20:00) [1975]
  - EMCI-1D

P5 - Approach to the patient with chest pain:
- [OHBP Sušak] (20:00 - 08:00) [2155]
  - EMCI-2D

P2 - ABCDE approach:
- [OHBP Rijeka] (20:00 - 08:00) [2153]
  - EMCI-2C

naslovna asistentica Mavrinac Nataša, dr. med. [1975] · naslovna asistentica Petrić Tamara, dr. med. [2153] · naslovna asistentica Rosić Ivana, dr. med. [2155]

14.05.2025

P1 - Introduction to emergency medicine:
- [OHBP Sušak] (08:00 - 20:00) [1482]
  - EMCI-1A
- [OHBP Rijeka] (08:00 - 20:00) [294]
  - EMCI-1C

P3 - Differential diagnosis and investigation:
- [OHBP Rijeka] (20:00 - 08:00) [2775]
  - EMCI-2A

P4 - POCus - bedside ultrasound in emergency medicine:
- [OHBP Sušak] (20:00 - 08:00) [1975]
  - EMCI-1D

naslovna asistentica Mavrinac Nataša, dr. med. [1975] · naslovna asistentica Otočan Marinka, dr. med. [294] · naslovna doc. prim.dr.sc. Pavletić Martina, dr. med. [1482] · naslovna asistentica Poldan Skorup Klara, dr. med. [2775]

15.05.2025

P2 - ABCDE approach:
- [OHBP Sušak] (08:00 - 20:00) [1482]
  - EMCI-1A

naslovna doc. prim.dr.sc. Pavletić Martina, dr. med. [1482]

16.05.2025

P3 - Differential diagnosis and investigation:
- [OHBP Rijeka] (08:00 - 20:00) [2153]
  - EMCI-2C

P2 - ABCDE approach:
- [OHBP Rijeka] (20:00 - 08:00) [294]
  - EMCI-1C

naslovna asistentica Otočan Marinka, dr. med. [294] · naslovna asistentica Petrić Tamara, dr. med. [2153]

17.05.2025

P5 - Approach to the patient with chest pain:
- [OHBP Sušak] (08:00 - 20:00) [1975]
  - EMCI-1D

P4 - POCus - bedside ultrasound in emergency medicine:
- [OHBP Rijeka] (08:00 - 20:00) [2775]
  - EMCI-2A

P6 - Approach to the patient with dispnea:
- [OHBP Sušak] (20:00 - 08:00) [2155]
  - EMCI-2D

naslovna asistentica Mavrinac Nataša, dr. med. [1975] · naslovna asistentica Poldan Skorup Klara, dr. med. [2775] · naslovna asistentica Rosić Ivana, dr. med. [2155]

18.05.2025

P6 - Approach to the patient with dispnea:
- [OHBP Sušak] (20:00 - 08:00) [1975]
  - EMCI-1D

naslovna asistentica Mavrinac Nataša, dr. med. [1975]

20.05.2025

P1 - Introduction to emergency medicine:
- [OHBP Rijeka] (08:00 - 20:00) [2152]
  - EMCI-2B

P7 - Approach to the patient with abdominal pain:
- [OHBP Sušak] (08:00 - 20:00) [2155]
  - EMCI-2D

naslovna asistentica Rosić Ivana, dr. med. [2155] · naslovni asistent Smailji Medjit, dr. med. [2152]

21.05.2025

P3 - Differential diagnosis and investigation:
- [OHBP Rijeka] (08:00 - 20:00) [294]
  - EMCI-1C

P7 - Approach to the patient with abdominal pain:
- [OHBP Sušak] (08:00 - 20:00) [1975]
  - EMCI-1D

P5 - Approach to the patient with chest pain:
- [OHBP Rijeka] (08:00 - 20:00) [2775]
  - EMCI-2A

P2 - ABCDE approach:
- [OHBP Rijeka] (20:00 - 08:00) [2152]
  - EMCI-2B

naslovna asistentica Mavrinac Nataša, dr. med. [1975] · naslovna asistentica Otočan Marinka, dr. med. [294] · naslovna asistentica Poldan Skorup Klara, dr. med. [2775] · naslovni asistent Smailji Medjit, dr. med. [2152]

22.05.2025

P8 - Approach to the patient with loss of consciousness:
- [OHBP Sušak] (20:00 - 08:00) [1975]
  - EMCI-1D

P6 - Approach to the patient with dispnea:
- [OHBP Rijeka] (20:00 - 08:00) [2775]
  - EMCI-2A

naslovna asistentica Mavrinac Nataša, dr. med. [1975] · naslovna asistentica Poldan Skorup Klara, dr. med. [2775]

24.05.2025

P3 - Differential diagnosis and investigation:
- [OHBP Rijeka] (20:00 - 08:00) [2152]
  - EMCI-2B

naslovni asistent Smailji Medjit, dr. med. [2152]

25.05.2025

P4 - POCus - bedside ultrasound in emergency medicine:
- [OHBP Rijeka] (20:00 - 08:00) [2152]
  - EMCI-2B

P8 - Approach to the patient with loss of consciousness:
- [OHBP Sušak] (20:00 - 08:00) [2155]
  - EMCI-2D

naslovna asistentica Rosić Ivana, dr. med. [2155] · naslovni asistent Smailji Medjit, dr. med. [2152]

26.05.2025

P3 - Differential diagnosis and investigation:
- [OHBP Sušak] (08:00 - 20:00) [1482]
  - EMCI-1A

P7 - Approach to the patient with abdominal pain:
- [OHBP Rijeka] (20:00 - 08:00) [2775]
  - EMCI-2A

naslovna doc. prim.dr.sc. Pavletić Martina, dr. med. [1482] · naslovna asistentica Poldan Skorup Klara, dr. med. [2775]

27.05.2025

P4 - POCus - bedside ultrasound in emergency medicine:
- [OHBP Sušak] (20:00 - 08:00) [1482]
  - EMCI-1A

naslovna doc. prim.dr.sc. Pavletić Martina, dr. med. [1482]

28.05.2025

P5 - Approach to the patient with chest pain:
- [OHBP Rijeka] (08:00 - 20:00) [2152]
  - EMCI-2B

naslovni asistent Smailji Medjit, dr. med. [2152]

29.05.2025

P6 - Approach to the patient with dispnea:
- [OHBP Rijeka] (08:00 - 20:00) [2152]
  - EMCI-2B

P8 - Approach to the patient with loss of consciousness:
- [OHBP Rijeka] (20:00 - 08:00) [2775]
  - EMCI-2A

naslovna asistentica Poldan Skorup Klara, dr. med. [2775] · naslovna asistentica Rosić Ivana, dr. med. [2155] · naslovni asistent Smailji Medjit, dr. med. [2152]

31.05.2025

P5 - Approach to the patient with chest pain:
- [OHBP Sušak] (08:00 - 20:00) [1482]
  - EMCI-1A

naslovna doc. prim.dr.sc. Pavletić Martina, dr. med. [1482]

01.06.2025

P6 - Approach to the patient with dispnea:
- [OHBP Sušak] (08:00 - 20:00) [1482]
  - EMCI-1A

P7 - Approach to the patient with abdominal pain:
- [OHBP Rijeka] (08:00 - 20:00) [2152]
  - EMCI-2B

naslovna doc. prim.dr.sc. Pavletić Martina, dr. med. [1482] · naslovni asistent Smailji Medjit, dr. med. [2152]

02.06.2025

P4 - POCus - bedside ultrasound in emergency medicine:
- [OHBP Sušak] (08:00 - 20:00) [1482]
  - EMCI-2C

naslovna doc. prim.dr.sc. Pavletić Martina, dr. med. [1482]

03.06.2025

P5 - Approach to the patient with chest pain:
- [OHBP Sušak] (08:00 - 20:00) [1482]
  - EMCI-2C

P8 - Approach to the patient with loss of consciousness:
- [OHBP Rijeka] (20:00 - 08:00) [2152]
  - EMCI-2B

naslovna doc. prim.dr.sc. Pavletić Martina, dr. med. [1482] · naslovni asistent Smailji Medjit, dr. med. [2152]

05.06.2025

P4 - POCus - bedside ultrasound in emergency medicine:
- [OHBP Rijeka] (08:00 - 20:00) [294]
  - EMCI-1C

P6 - Approach to the patient with dispnea:
- [OHBP Sušak] (08:00 - 20:00) [1482]
  - EMCI-2C

naslovna asistentica Otočan Marinka, dr. med. [294] · naslovna doc. prim.dr.sc. Pavletić Martina, dr. med. [1482]

06.06.2025

P7 - Approach to the patient with abdominal pain:
- [OHBP Sušak] (08:00 - 20:00) [1482]
  - EMCI-2C

naslovna doc. prim.dr.sc. Pavletić Martina, dr. med. [1482]

07.06.2025

P8 - Approach to the patient with loss of consciousness:
- [OHBP Sušak] (20:00 - 08:00) [1482]
  - EMCI-2C

naslovna doc. prim.dr.sc. Pavletić Martina, dr. med. [1482]

09.06.2025

P2 - ABCDE approach:
- [OHBP Sušak] (08:00 - 20:00) [293]
  - EMCI-1B

naslovni asistent Lerga Mate, dr. med. [293]

10.06.2025

P3 - Differential diagnosis and investigation:
- [OHBP Sušak] (08:00 - 20:00) [293]
  - EMCI-1B

naslovni asistent Lerga Mate, dr. med. [293]

13.06.2025

P7 - Approach to the patient with abdominal pain:
- [OHBP Sušak] (08:00 - 20:00) [1482]
  - EMCI-1A

naslovna doc. prim.dr.sc. Pavletić Martina, dr. med. [1482]

14.06.2025

P8 - Approach to the patient with loss of consciousness:
- [OHBP Sušak] (08:00 - 20:00) [1482]
  - EMCI-1A

P4 - POCus - bedside ultrasound in emergency medicine:
- [OHBP Sušak] (20:00 - 08:00) [293]
  - EMCI-1B

naslovni asistent Lerga Mate, dr. med. [293] · naslovna doc. prim.dr.sc. Pavletić Martina, dr. med. [1482]

15.06.2025

P5 - Approach to the patient with chest pain:
- [OHBP Sušak] (20:00 - 08:00) [293]
  - EMCI-1B

naslovni asistent Lerga Mate, dr. med. [293]

17.06.2025

P5 - Approach to the patient with chest pain:
- [OHBP Rijeka] (08:00 - 20:00) [294]
  - EMCI-1C

P6 - Approach to the patient with dispnea:
- [OHBP Sušak] (08:00 - 20:00) [293]
  - EMCI-1B

naslovni asistent Lerga Mate, dr. med. [293] · naslovna asistentica Otočan Marinka, dr. med. [294]

18.06.2025

P6 - Approach to the patient with dispnea:
- [OHBP Rijeka] (20:00 - 08:00) [294]
  - EMCI-1C

P7 - Approach to the patient with abdominal pain:
- [OHBP Sušak] (20:00 - 08:00) [293]
  - EMCI-1B

naslovni asistent Lerga Mate, dr. med. [293] · naslovna asistentica Otočan Marinka, dr. med. [294]

20.06.2025
P7 - Approach to the patient with abdominal pain: • [OHBP Rijeka] (08:00 - 20:00) [294]   ◦ EMCI-1C
naslovna asistentica Otočan Marinka, dr. med. [294]
21.06.2025

P8 - Approach to the patient with loss of consciousness:
• [OHBP Sušak] (08:00 - 20:00) [293]
  ◦ EMCI-1B
• [OHBP Rijeka] (20:00 - 08:00) [294]
  ◦ EMCI-1C

naslovni asistent Lerga Mate, dr. med. [293] · naslovna asistentica Otočan Marinka, dr. med. [294]
25.06.2025
naslovna doc. prim.dr.sc. Pavletić Martina, dr. med. [1482]

List of lectures, seminars and practicals:

[VJEŽBE] (TOPIC)	Number of hours	Location
P1 - Introduction to emergency medicine	12	[OHBP Rijeka] [OHBP Sušak]
P2 - ABCDE approach	12	[OHBP Rijeka] [OHBP Sušak]
P3 - Differential diagnosis and investigation	12	[OHBP Rijeka] [OHBP Sušak]
P4 - POCus - bedside ultrasound in emergency medicine	12	[OHBP Rijeka] [OHBP Sušak]
P5 - Approach to the patient with chest pain	12	[OHBP Rijeka] [OHBP Sušak]
P6 - Approach to the patient with dispnea	12	[OHBP Rijeka] [OHBP Sušak]
P7 - Approach to the patient with abdominal pain	12	[OHBP Rijeka] [OHBP Sušak]
P8 - Approach to the patient with loss of consciousness	12	[OHBP Rijeka] [OHBP Sušak]

EXAM DATES (final exam):

1.	07.05.2025.
2.	09.06.2025.
3.	02.07.2025.
4.	08.09.2025.
5.	22.09.2025.