

Faculty of Medicine in Rijeka

**Curriculum  
2024/2025**

For course

**Primjena ultrazvuka u hitnim stanjima I**

Study program:	<b>Medicina (R)</b> (elective) University integrated undergraduate and graduate study
Department:	<b>Anesthesiology, Reanimatology, Intensive Care and Emergency Medicine</b>
Course coordinator:	<b>prof. dr. sc. Protić Alen, dr. med.</b>
Year of study:	<b>5</b>
ECTS:	<b>1.5</b>
Incentive ECTS:	<b>0 (0.00%)</b>
Foreign language:	<b>No</b>

**Course information:**

**List of assigned reading:**

**List of optional reading:**

**Curriculum:**

**Lectures list (with titles and explanation):**

**P1 Osnove sonoanatomije i fizike ultrazvuka**

**P2 Savladati FAST-ER protokol**

**P3 Ultrazvuk pleuralnog prostora**

**Practicals list (with titles and explanation):**

**V1 FAST - ER protocol**

**V2 Detektirati slobodnu tekućinu u perispleničnom i perihepatalnom prostoru**

**V3 Detektirati slobodnu tekućinu u Douglasovom prostoru**

**V4 Detektirati slobodnu tekućinu intratorakalno**

**V5 Prepoznati pneumotoraks ultrazvučno**

**Student obligations:**

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

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

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## COURSE HOURS 2024/2025

Primjena ultrazvuka u hitnim stanjima I

<b>Lectures</b> (Place and time or group)	<b>Practicals</b> (Place and time or group)
<b>07.05.2025</b>	
<p>P1 Osnove sonoanatomije i fizike ultrazvuka:</p> <ul style="list-style-type: none"><li>• Cabinet of skills, training ground 1 (08:00 - 11:45) [259]<ul style="list-style-type: none"><li>◦ PUUHSI</li></ul></li></ul> <p>P2 Savladati FAST-ER protokol:</p> <ul style="list-style-type: none"><li>• Cabinet of skills, training ground 1 (08:00 - 11:45) [259]<ul style="list-style-type: none"><li>◦ PUUHSI</li></ul></li></ul> <p>P3 Ultrazvuk pleuralnog prostora:</p> <ul style="list-style-type: none"><li>• Cabinet of skills, training ground 1 (08:00 - 11:45) [259]<ul style="list-style-type: none"><li>◦ PUUHSI</li></ul></li></ul>	<p>V1 FAST - ER protocol:</p> <ul style="list-style-type: none"><li>• Cabinet of skills, training ground 1 (12:00 - 20:00) [259]<ul style="list-style-type: none"><li>◦ PUUHSI</li></ul></li></ul> <p>V2 Detektirati slobodnu tekućinu u perispleničnom i perihepatnom prostoru:</p> <ul style="list-style-type: none"><li>• Cabinet of skills, training ground 1 (12:00 - 20:00) [259]<ul style="list-style-type: none"><li>◦ PUUHSI</li></ul></li></ul> <p>V3 Detektirati slobodnu tekućinu u Douglasovom prostoru:</p> <ul style="list-style-type: none"><li>• Cabinet of skills, training ground 1 (12:00 - 20:00) [259]<ul style="list-style-type: none"><li>◦ PUUHSI</li></ul></li></ul>
prof. dr. sc. Protić Alen, dr. med. [259]	
<b>09.05.2025</b>	
	<p>V4 Detektirati slobodnu tekućinu intratorakalno:</p> <ul style="list-style-type: none"><li>• Cabinet of skills, training ground 1 (14:00 - 19:00) [259]<ul style="list-style-type: none"><li>◦ PUUHSI</li></ul></li></ul> <p>V5 Prepoznati pneumotoraks ultrazvučno:</p> <ul style="list-style-type: none"><li>• Cabinet of skills, training ground 1 (14:00 - 19:00) [259]<ul style="list-style-type: none"><li>◦ PUUHSI</li></ul></li></ul>
prof. dr. sc. Protić Alen, dr. med. [259]	
<b>22.05.2025</b>	
	<p>V1 FAST - ER protocol:</p> <ul style="list-style-type: none"><li>• Cabinet of skills, training ground 1 (08:00 - 20:00) [259] [294] [2152]<ul style="list-style-type: none"><li>◦ PUUHSIA</li><li>◦ PUUHSIB</li><li>◦ PUUHSIC</li></ul></li></ul> <p>V2 Detektirati slobodnu tekućinu u perispleničnom i perihepatnom prostoru:</p> <ul style="list-style-type: none"><li>• Cabinet of skills, training ground 1 (08:00 - 20:00) [259] [294] [2152]<ul style="list-style-type: none"><li>◦ PUUHSIA</li><li>◦ PUUHSIB</li><li>◦ PUUHSIC</li></ul></li></ul> <p>V3 Detektirati slobodnu tekućinu u Douglasovom prostoru:</p> <ul style="list-style-type: none"><li>• Cabinet of skills, training ground 1 (08:00 - 20:00) [259] [294] [2152]<ul style="list-style-type: none"><li>◦ PUUHSIA</li><li>◦ PUUHSIB</li><li>◦ PUUHSIC</li></ul></li></ul> <p>V4 Detektirati slobodnu tekućinu intratorakalno:</p> <ul style="list-style-type: none"><li>• Cabinet of skills, training ground 1 (08:00 - 20:00) [259] [294] [2152]<ul style="list-style-type: none"><li>◦ PUUHSIA</li><li>◦ PUUHSIB</li><li>◦ PUUHSIC</li></ul></li></ul>
naslovna asistentica Otočan Marinka, dr. med. [294] · prof. dr. sc. Protić Alen, dr. med. [259] · mr. sc. Smailji Medjit, dr. med. [2152]	
<b>24.05.2025</b>	

<p>P1 Osnove sonoanatomije i fizike ultrazvuka:</p> <ul style="list-style-type: none"> <li>• Cabinet of skills, training ground 1 (08:00 - 11:45) [259] <ul style="list-style-type: none"> <li>◦ PUUHSIP</li> </ul> </li> </ul> <p>P2 Savladati FAST-ER protokol:</p> <ul style="list-style-type: none"> <li>• Cabinet of skills, training ground 1 (08:00 - 11:45) [259] <ul style="list-style-type: none"> <li>◦ PUUHSIP</li> </ul> </li> </ul> <p>P3 Ultrazvuk pleuralnog prostora:</p> <ul style="list-style-type: none"> <li>• Cabinet of skills, training ground 1 (08:00 - 11:45) [259] <ul style="list-style-type: none"> <li>◦ PUUHSIP</li> </ul> </li> </ul>	<p>V5 Prepoznati pneumotoraks ultrazvučno:</p> <ul style="list-style-type: none"> <li>• Cabinet of skills, training ground 1 (11:45 - 14:45) [259] <ul style="list-style-type: none"> <li>◦ PUUHSIA</li> <li>◦ PUUHSIB</li> <li>◦ PUUHSIC</li> </ul> </li> </ul>
<p>prof. dr. sc. Protić Alen, dr. med. [259]</p>	

### List of lectures, seminars and practicals:

LECTURES (TOPIC)	Number of hours	Location
P1 Osnove sonoanatomije i fizike ultrazvuka	1	Cabinet of skills, training ground 1
P2 Savladati FAST-ER protokol	2	Cabinet of skills, training ground 1
P3 Ultrazvuk pleuralnog prostora	2	Cabinet of skills, training ground 1

PRACTICALS (TOPIC)	Number of hours	Location
V1 FAST - ER protocol	4	Cabinet of skills, training ground 1
V2 Detektirati slobodnu tekućinu u perispleničnom i perihepatnom prostoru	4	Cabinet of skills, training ground 1
V3 Detektirati slobodnu tekućinu u Douglasovom prostoru	4	Cabinet of skills, training ground 1
V4 Detektirati slobodnu tekućinu intratorakalno	4	Cabinet of skills, training ground 1
V5 Prepoznati pneumotoraks ultrazvučno	4	Cabinet of skills, training ground 1

### EXAM DATES (final exam):

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