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|--|-----------------|-----------------------------|---------------------------------|
| <b>Study program:</b> Integrated academic studies in medicine  |                 |                             |                                 |
| <b>Type and level of the study program:</b> integrated academic studies  |                 |                             |                                 |
| <b>Title: Intensive care (M5-INTC)</b>   |                 |                             |                                 |
| <b>Teaching staff:</b> Biljana G. Draskovic, Ljiljana V. Gvozdenovic, Milanka R. Tatic, Dragana R. Radovanovic, Sanja V. Vickovic, Anna S. Uram-Benka, Gordana V. Jovanovic, Arsen A. Uvelin, Goran S. Rakic, Snezana D. Stanisavljevic, Dusanka S. Obradovic, Jovan A. Matijasevic  |                 |                             |                                 |
| <b>Course status:</b> elective   |                 |                             |                                 |
| <b>ECTS credits:</b> 3   |                 |                             |                                 |
| <b>Condition:</b> -  |                 |                             |                                 |
| <b>Course aim</b><br>To obtain basic knowledge about assessment, diagnostic procedures and therapy of critically ill patients.<br>Developing basic competencies and skills necessary for treatment of the critically ill.  |                 |                             |                                 |
| <b>Expected outcome of the course:</b>   |                 |                             |                                 |
| <ul style="list-style-type: none"> <li>– Demonstrate appropriate, evidence based, knowledge about patients with critical illness and injury, including life threatening trauma and multi-system organ failure.</li> <li>– Developing an understanding of the organ systems approach to critical care, and obtaining, organizing, and presenting data</li> <li>– Demonstrate appropriate, evidence based, knowledge about care to post-operative patients.</li> </ul> |                 |                             |                                 |
| <b>Course description</b>  |                 |                             |                                 |
| <i>Theoretical education</i>   |                 |                             |                                 |
| General:   |                 |                             |                                 |
| 1. General approach to critically ill patient.   |                 |                             |                                 |
| 2. Diagnostic procedures in ICU  |                 |                             |                                 |
| 3. Monitoring in ICU   |                 |                             |                                 |
| 4. Intrahospital infections and antibiotic therapy in intensive care units   |                 |                             |                                 |
| 5. Sepsis, definition and treatment.   |                 |                             |                                 |
| 6. Nutrition and Nutritional status assessment in critically ill patient   |                 |                             |                                 |
| 7. Early rehabilitation in critically ill patient  |                 |                             |                                 |
| 8. Multidisciplinary approach and teamwork in ICU  |                 |                             |                                 |
| Special  |                 |                             |                                 |
| 1. Diagnostic and initial treatment in trauma patient  |                 |                             |                                 |
| 2. Critically ill pediatric patient  |                 |                             |                                 |
| 3. Critically ill geriatric patient  |                 |                             |                                 |
| 4. Critically ill oncology patient   |                 |                             |                                 |
| 5. Critically ill pulmonology patient  |                 |                             |                                 |
| 6. Critically ill cardiology patient   |                 |                             |                                 |
| 7. Critically ill surgical patient   |                 |                             |                                 |
| <i>Practical education: exercises, other forms of education, research related activities</i>   |                 |                             |                                 |
| Students will attend everyday working activities in specialised ICUs (surgical and trauma) in Clinical Centre of Vojvodina, surgical pediatric ICU in Institute for Child and Youth Healthcare of Vojvodina and in Institute for Pulmonary Diseases of Vojvodina.  |                 |                             |                                 |
| <b>Literature</b>  |                 |                             |                                 |
| 1. Marino PL. ICU book, 3rd Edition. Lippincott Williams & Wilkins 2007.   |                 |                             |                                 |
| 2. Rhodes A. et al. Surviving Sepsis Campaign: International Guidelines for Management of Sepsis and Septic Shock: 2016. Intensive Care Med 2017;43(3):304-377.  |                 |                             |                                 |
| <b>Number of active classes</b>  |                 |                             |                                 |
| Lectures:<br>15  | Practice:<br>30 | Other types of<br>teaching: | Research related<br>activities: |
| Other classes  |                 |                             |                                 |
| <b>Teaching Methodology:</b>   |                 |                             |                                 |
| 1. Lectures.   |                 |                             |                                 |
| 2. Active learning   |                 |                             |                                 |
| 3. Teaching by simulation  |                 |                             |                                 |
| <b>Student activity assessment points (maximum 100 p)</b>  |                 |                             |                                 |
| Pre-exam activity  | <b>points</b>   | Final exam                  | <b>points</b>                   |
| Lectures   | 10              | Written exam                | 20                              |
| Practical classes  | 20              | <i>Oral exam</i>            | 50                              |
| Colloquium   |                 | Projects                    |                                 |
| Seminars   |                 |                             |                                 |