



**UČNI NAČRT PREDMETA / COURSE SYLLABUS**

<b>Predmet:</b>	URGENTNA STANJA V PEDIATRIJI
<b>Course title:</b>	EMERGENCIES IN PEDIATRICS

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Zdravstvena nega 2. stopnja	Urgentna stanja in temeljni intenzivnega zdravljenja	2.	3.
Nursing Care master study programme	Emergencies and fundamentals of intensive treatment	2.	3.

**Vrsta predmeta / Course type**

Obvezni predmet izbrane študijske smeri /  
Compulsory subject selected study field

**Univerzitetna koda predmeta / University course code:**

IM-MAG-C.1.2

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje Clinical Practice	Druge oblike študija Other study forms	Samost. delo Individ. work	ECTS
30	20	/	/	/	100	5

**Nosilca predmeta / Lecturer:**

prof. dr. Štefan Grosek / Prof. Štefan Grosek, MD, PhD

**Jeziki /  
Languages:**

**Predavanja /  
Lectures:** Slovenski jezik / Slovene language  
**Vaje / Tutorial:** Slovenski jezik / Slovene language

**Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:** **Prerequisites:**

- Ni pogojev.

- No prerequisites.

**Vsebina:**

- **Najpomembnejša ugentna stanja v pediatriji:**
  - Epidemiologija urgentnih stanj v pediatriji
  - Organizacija urgentnih centrov v Sloveniji
  - Klinična ocena življenjsko ogroženega otroka
  - Oživljanje novorojenčka, dojenčka in otroka
  - Vesniki pristopi v nujnih stanjih
  - Oskrba dihalnih poti v nujnih stanjih
  - Nujna stanja v pulmologiji
  - Nujna stanja v gastroenterologiji
  - Nujna stanja v infektologiji
  - Nujna stanja v nevrologiji

**Content (Syllabus outline):**

- **The most important urgent conditions in paediatrics':**
  - Epidemiology of paediatric emergencies
  - Organization of emergency centers in Slovenia
  - Clinical assessment of a life-threatening child
  - Newborn, infant and child resuscitation
  - Venous accesses in emergencies
  - Airway care in emergency situations
  - Emergencies in pulmonology
  - Emergencies in gastroenterology
  - Emergencies in infectious diseases
  - Emergencies in neurology
  - Emergencies in cardiology
  - Emergencies in allergology



- Nujna stanja v kardiologiji
- Nujna stanja v alergologiji
- Nujna stanja v endokrinologiji
- Nujna stanja v nefrologiji
- Nujna stanja v hematologiji
- Nujna stanja v toksikologiji
- Nujna stanja v pedopsihiatriji
- Nujna stanja v neonatologiji
- Nujna stanja v travmatologiji in ortopediji
- Nujna stanja v otroški kirurgiji, oftalmologiji in otorinolaringologiji
- Transport kritično bolnega otroka
- Etika v urgentnih stanjih v pediatriji

- Emergencies in endocrinology
- Emergencies in nephrology
- Emergencies in haematology
- Emergencies in toxicology
- Emergencies in child psychiatry
- Emergencies in neonatology
- Emergencies in traumatology and orthopaedics
- Emergencies in paediatrics surgery, ophthalmology and otorhinolaryngology
- Transport of a critically ill child
- Ethics in paediatrics emergencies

#### Temeljni viri in literatura / Textbooks:

- »Bolj ali manj« NUJNA STANJA V PEDIATRIJI. Ured. Katarina Vincek in Minca Mramor, Ljubljana; Društvo za pomoč otrokom s presnovnimi motnjami, 2007.
- HITNA STANJA U PEDIJATRIJI. Ured.. Julije Meštrović i suradnici.Medicinska naklada Zagreb 2022.
- Učbeniki Kritično bolan otrok, od leta 2010 naprej v organizaciji diplomiranih medicinski sester Kliničnega oddelka za otroško kirurgijo in intenzivno terapijo otroka.

#### Cilji:

- Prepoznati najpogostejša urgentna stanja v pediatriji,
- Poznati začetno zdravljenje in oskrbo v urgentni pediatriji
- Osvojiti načela zdravstvene oskrbe v urgentni pediatriji.

#### Objectives:

- • Recognize the most common emergency conditions in pediatrics,
- Know initial treatment and care in emergency pediatrics
- Master the principles of medical care in emergency pediatrics.

#### Predvideni študijski rezultati:

##### Znanje in razumevanje:

- Študent/-ka bo osvojil/-a znanje najpomembnejši urgentnih stanj v pediatriji
- Študent/-ka ob osvojitvi znanja zanje kako začeti in kako ukrepati v urgentni pediatriji
- Študent/-ka ob osvojitvi bo osvojila načela zdravstvene oskrbe v urgentni pediatriji

#### Intended learning outcomes:

##### Knowledge and understanding:

- • The student will gain knowledge of the most important emergency situations in pediatrics
- • The student has acquired knowledge of how to start and how to act in emergency pediatrics
- • Upon completion, the student will master the principles of medical care in emergency pediatrics

#### Metode poučevanja in učenja:

- Predavanja
- Seminarji
- Projektno delo

#### Learning and teaching methods:

- Lectures
- Seminars
- Project work

#### Assessment:

Delež (v %) /  
Percentage  
(in %)

#### Načini ocenjevanja:

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<ul style="list-style-type: none"><li>• 80 % prisotnost na obveznih seminarskih vajah.</li><li>• Oddan in uspešno opravljen zagovor seminarske naloge. Opravljene obveznosti iz seminarske naloge so predpogoj za pristop k izpitu.</li><li>• Pisni izpit</li><li>• Ustni izpit</li><li>• Ocenjevalna lestvica ECTS: nezadostno (1-5), zadostno 6, dobro 7, prav dobro 8), prav dobro 9, odlično 10.</li></ul>	40 % 40 % 20 %	<ul style="list-style-type: none"><li>• 80% attendance at mandatory seminars.</li><li>• Submitted and successfully defended seminar work. Fulfilled obligations concerning seminar work are a prerequisite for the exam.</li><li>• Written exam.</li><li>• Oral Exam</li><li>• Grading scale ECTS: insufficient (1-5), satisfactory (6), good (7), very good (8), very good (9), and excellent (10).</li></ul>
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#### Reference nosilcev / Lecturer's references:

1. Noninvasive ventilation for respiratory distress syndrome is a potential risk factor for retinopathy of prematurity: Single Slovenian tertiary center study.
2. Hanuna S, Rus M, Štucin Gantar I, Erčulj V, Tekavčič Pompe M, **Grosek Š.**Wien Klin Wochenschr. 2021 Jul;133(13-14):687-694. doi: 10.1007/s00508-021-01883-2. Epub 2021 Jun 3.PMID: 34081190
3. Serum hepcidin and ferritin as markers of iron deficiency in premature infants born at less than 32 weeks of gestation: prospective observational study.
4. Boštjančič S, Spirovska A, Jerin A, Erčulj V, Avčin S, Kornhauser Cerar L, **Grosek Š.**Minerva Pediatr (Torino). 2021 Apr 23. doi: 10.23736/S2724-5276.21.06264-9. Online ahead of print.PMID: 33890745
5. Maturation of midazolam clearance in critically ill children with severe bronchiolitis: A population pharmacokinetic analysis.
6. Kos MK, Miksić M, Jovanović M, Roškar R, **Grosek Š,** Grabnar I.Eur J Pharm Sci. 2020 Jan 1;141:105095. doi: 10.1016/j.ejps.2019.105095. Epub 2019 Oct 15.PMID: 31626965
7. Severe Hyperkalemia Immediately After Birth.
8. Kavčič A, Avčin S, **Grosek Š.**Am J Case Rep. 2019 Oct 6;20:1471-1475. doi: 10.12659/AJCR.916368.PMID: 3158700
9. Rezidivierende fulminante Myokarditis mit wiederholtem Einsatz der ECMO bei einem Kind.
10. Vercek G, Markelj G, Mlakar G, Primec ZR, Bertok S, Writzl K, Stefanija MA, Bajic S, Vesel S, Ihan A, Stritar A, Pokorn M, Kovac J, Debeljak M, Vidmar I, Avcin T, **Grosek S.**Klin Padiatr. 2019 Mar;231(2):80-86. doi: 10.1055/a-0831-2593. Epub 2019 Mar 14.PMID: 30870874 German.
11. Passive therapeutic hypothermia during ambulance and helicopter secondary neonatal transport in neonates with hypoxic brain injury: a 10-year retrospective survey.
12. Leben M, Nolimal M, Vidmar I, **Grosek Š.**Childs Nerv Syst. 2018 Dec;34(12):2463-2469. doi: 10.1007/s00381-018-3914-7. Epub 2018 Jul 18.PMID: 30022316
13. Risk factors for bronchiolitis severity: A retrospective review of patients admitted to the university hospital from central region of Slovenia.
14. Praznik A, Vinšek N, Prodan A, Erčulj V, Pokorn M, Mrvič T, Paro D, Krivec U, Strle F, Petrovec M, Žnidaršič Eržen M, **Grosek Š.**Influenza Other Respir Viruses. 2018 Nov;12(6):765-771. doi: 10.1111/irv.12587. Epub 2018 Aug 9.PMID: 29944781
15. Two episodes of systemic capillary leak syndrome in an 8-year-old boy, following influenza A virus infection.
16. Perme T, Pokorn M, Markelj G, Avčin T, Battelino T, Uršič T, Vidmar I, **Grosek Š.**Pediatr Infect Dis J. 2014 Feb;33(2):222-4. doi: 10.1097/INF.000000000000029.PMID: 23995592
17. Heart rate variability of transported critically ill neonates.
18. Snedec N, Simoncic M, Klemenc M, Ihan A, Vidmar I, **Grosek S.**Eur J Pediatr. 2013 Dec;172(12):1565-71. doi: 10.1007/s00431-013-2081-9. Epub 2013 Jul 5.PMID: 23828133
19. Low CD8 T cells in neonates and infants prior to surgery, and health-care-associated infections: prospective observational study.
20. **Grosek S,** Petrin Z, Kopitar AN, Grosek J, Erzen J, Gmeiner TS, Petreska M, Primožic J, Ihan A.Pediatr Int. 2013 Aug;55(4):410-5. doi: 10.1111/ped.12142.PMID: 23701302
21. Prolonged prostaglandin E1 therapy in a neonate with pulmonary atresia and ventricular septal defect and the development of antral foveolar hyperplasia and hypertrophic pyloric stenosis.
22. Perme T, Mali S, Vidmar I, Gvardijančič D, Blumauer R, Mishaly D, Grabnar I, Nemec G, **Grosek S.**Ups J Med Sci. 2013 May;118(2):138-42. doi: 10.3109/03009734.2013.778374. Epub 2013 Mar 22.PMID: 23521358