



### UČNI NAČRT PREDMETA / COURSE SYLLABUS

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| Ime predmeta: | Z dokazi podprta medicina – izbrane vsebine |
| Course title: | Evidence based medicine - selected topics   |

| Študijski program in stopnja<br>Study programme and cycle | Študijska smer<br>Study option | Letnik<br>Year of study | Semester<br>Semester |
|-----------------------------------------------------------|--------------------------------|-------------------------|----------------------|
| Splošna medicina, enovit magistrski študijski program     |                                | Četrty                  | 7.                   |
| General medicine, Uniform master's degree study program   |                                | Fourth                  | 7th                  |

Vrsta predmeta (obvezni ali izbirni) /  
Course type (compulsory or elective)

izbirni

elective

Univerzitetna koda predmeta / University course code:

| Predavanja<br>Lectures | Seminar<br>Seminar | Vaje<br>Tutorial | Klinične vaje<br>Clinical training | Druge oblike študija<br>Other forms of study | Samost. delo<br>Individual work | ECTS |
|------------------------|--------------------|------------------|------------------------------------|----------------------------------------------|---------------------------------|------|
| 5                      | 40                 | AV LV RV         |                                    |                                              | 45                              | 3    |

Nosilec predmeta / Course coordinator:

izr. prof. dr. Uroš Maver (nosilec),  
doc. dr. (Republika Finska) Eva Turk

Jeziki /Languages:

Predavanja / Lectures: slovenski/slovene

Vaje / Tutorial: slovenski/slovene

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

Znanja iz predkliničnih predmetov in informatike.

Prerequisites for enrolling in the course or for performing study obligations:

Knowledge from preclinical subjects and informatics.

Vsebina (kratek pregled učnega načrta):

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| <p>Predavanja:</p> <ul style="list-style-type: none"> <li>Kaj je z dokazi podprta medicina (praksa)? <ul style="list-style-type: none"> <li>Zgodovina</li> <li>Najzaslužnejše osebe za razvoj z dokazi podprte medicine</li> <li>Časovni potek razvoja in integracija v medicino</li> <li>Analogija z drugimi področji</li> <li>Pristopi integracije po svetu</li> <li>Podatkovne baze, sistematični pregledi in drugi pristopi sinteze znanja– osnove</li> </ul> </li> </ul> |
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Content (syllabus outline):

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| <p>Lectures:</p> <ul style="list-style-type: none"> <li>What is Evidence based medicine (practice)? <ul style="list-style-type: none"> <li>History</li> <li>Crucial people for development of EBM</li> <li>Timeline and integration in medicine</li> <li>Analogy with other fields</li> <li>Approaches around the world</li> <li>Databases, systematic literature reviews and other approaches to knowledge synthesis- basics</li> </ul> </li> </ul> |
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| <ul style="list-style-type: none"> <li>• Kritična presoja obstoječih podatkov kot osnovno orodje načrtovanja v predkliničnih raziskavah in klinični praksi</li> <li>• Izboljševanje kakovosti in varnost pacienta</li> <li>• Vrednotenje zdravstvenih tehnologij</li> </ul> <p>Seminarji:</p> <p>Uvod v EBM</p> <ul style="list-style-type: none"> <li>• Ključna vprašanja glede EBM–PICO naloge?</li> <li>• Oblikovanje raziskave/projekta?</li> <li>• Kritičen pregled raziskav</li> </ul> <p>Vrste študij</p> <ul style="list-style-type: none"> <li>• Kvalitativno raziskovanje</li> <li>• Kvantitativno raziskovanje</li> <li>• Opazovalne študije</li> <li>• Randomizirane klinične študije</li> <li>• Prikazov primera</li> <li>• Hierarhičnost dokazov</li> <li>• ...</li> </ul> <p>Kako iskati literaturo – baze podatkov?</p> <p>Kaj je učinkovito zdravljenje?</p> <ul style="list-style-type: none"> <li>• Sistematični pregled literature</li> <li>• Kdaj narediti sistematični pregled literature?</li> <li>• Ocenjevanje kvalitete metodologije sistematičnih pregledov</li> <li>• Meta analize</li> </ul> <p>Kako napisati članek?</p> <p>Kako kritično prebrati članek?</p> <p>Ali lahko verjamemo kliničnim smernicam?</p> <ul style="list-style-type: none"> <li>• Ravnovesje med koristmi in škodo smernic</li> </ul> <p>Na dokazih podprta klinična praksa</p> | <ul style="list-style-type: none"> <li>• Critical appraisal of information as the core tool to research development in pre- and clinical practice</li> <li>• Quality improvement and patient safety</li> <li>• Health technology Assessment</li> </ul> <p>Seminars:</p> <p>Introduction to EBM</p> <ul style="list-style-type: none"> <li>• Key questions in EBM- PICO tasks?</li> <li>• Project/research development</li> <li>• Critical appraisal of studies</li> </ul> <p>Types of studies:</p> <ul style="list-style-type: none"> <li>• Qualitative research</li> <li>• Quantitative research</li> <li>• Observational studies</li> <li>• RCTs</li> <li>• Case studies</li> <li>• Hierarchy of evidence</li> <li>• ...</li> </ul> <p>Literature search - data bases?</p> <p>What is efficient/effective treatment?</p> <ul style="list-style-type: none"> <li>• Systematic literature review</li> <li>• When do we need a systematic literature review?</li> <li>• Appraisal of methodological quality</li> <li>• Meta analyses</li> </ul> <p>How a write a paper?</p> <p>Hot to critically read a paper?</p> <p>Can we trust clinical guidelines?</p> <ul style="list-style-type: none"> <li>• What is the balance between benefits and disadvantages?</li> </ul> <p>EBM in clinical practice</p> |
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## Temeljni literatura in viri / Reading materials:

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| <ul style="list-style-type: none"> <li>• Guyatt G, Rennie D, Meade MO, Cook DJ: User's Guides to the Medical Literature – A manual for evidence-based clinical practice, 3rd edition. JAMAevidence, McGraw Hill Education, 2015 (ali novejša izdaja).</li> <li>• Cochrane Collaboration: <a href="http://www.cochrane.org">http://www.cochrane.org</a></li> </ul> <p><b>Dodatna literatura</b></p> <ul style="list-style-type: none"> <li>• Higgins JPT, Thomas J, Chandler J, Cumpston M, Li T, Page MJ, Welch VA (editors). Cochrane Handbook for Systematic Reviews of Interventions. 2nd Edition. Chichester (UK): John Wiley &amp; Sons, 2019.</li> <li>• Higgins JPT, Thomas J, Chandler J, Cumpston M, Li T, Page MJ, Welch VA (editors). Cochrane Handbook for Systematic Reviews of Interventions version 6.3 (updated February 2022). Cochrane, 2022. Available from <a href="http://www.training.cochrane.org/handbook">www.training.cochrane.org/handbook</a>.</li> <li>• Fijan, S.; Kolč, N.; Hrašovec, M.; Jamtvedt, G.; Pogačar, M.Š.; Mičetić Turk, D.; Maver, U. Single-Strain Probiotic Lactobacilli for the Treatment of Atopic Dermatitis in Children: A Systematic Review and Meta-Analysis. <i>Pharmaceutics</i> 2023, 15, 1256. <a href="https://doi.org/10.3390/pharmaceutics15041256">https://doi.org/10.3390/pharmaceutics15041256</a></li> <li>• Gough, D., Davies, P., Jamtvedt, G. et al. Evidence Synthesis International (ESI): Position Statement. <i>Syst Rev</i> 9, 155 (2020). <a href="https://doi.org/10.1186/s13643-020-01415-5">https://doi.org/10.1186/s13643-020-01415-5</a></li> </ul> |
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| <ul style="list-style-type: none"> <li>• Ormstad, H., Jamtvedt, G., Svege, I. et al. The Bridge Building Model: connecting evidence-based practice, evidence-based research, public involvement and needs led research. <i>Res Involv Engagem</i> 7, 77 (2021). <a href="https://doi.org/10.1186/s40900-021-00320-y">https://doi.org/10.1186/s40900-021-00320-y</a></li> <li>• Lund, H., Robinson, K.A., Gjerland, A. et al. Meta-research evaluating redundancy and use of systematic reviews when planning new studies in health research: a scoping review. <i>Syst Rev</i> 11, 241 (2022). <a href="https://doi.org/10.1186/s13643-022-02096-y">https://doi.org/10.1186/s13643-022-02096-y</a></li> <li>• Oxman M, Habib L, Jamtvedt G, et al Using claims in the media to teach essential concepts for evidence-based healthcare <i>BMJ Evidence-Based Medicine</i> 2021;26:234-236.</li> </ul> |
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#### Cilji in kompetence:

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| <ul style="list-style-type: none"> <li>• spoznati osnove »z dokazi podprte medicine«</li> <li>• pridobiti pregledno znanje iz kritičnega vrednotenja obstoječih podatkov</li> <li>• sistematično načrtovanje z dokazi podrtih predkliničnih in kliničnih raziskav</li> <li>• sistematično načrtovanje pristopov v klinični praksi</li> <li>• osvojiti podlago za na dokazih temelječe sprejemanje kliničnih odločitev</li> </ul> |
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#### Objectives and competences:

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| <ul style="list-style-type: none"> <li>• learn the basics about »evidence based medicine«</li> <li>• obtain basic knowledge of critical available data appraisal</li> <li>• systematic planning of evidence based preclinical and clinical studies</li> <li>• systematic planning of clinical procedures and practice</li> <li>• obtain the basis for evidence based clinical decision making</li> </ul> |
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#### Predvideni študijski rezultati:

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| <b>Znanje in razumevanje:</b> <ul style="list-style-type: none"> <li>• spoznati osnove »z dokazi podprte medicine«</li> <li>• pridobiti pregledno znanje kritičnega vrednotenja obstoječih podatkov</li> <li>• sistematično načrtovanje z dokazi podrtih predkliničnih in kliničnih raziskav</li> <li>• sistematično načrtovanje pristopov v klinični praksi</li> <li>• osvojiti podlago za na dokazih temelječe sprejemanje kliničnih odločitev</li> <li>•</li> </ul> <b>Prenesljive/ključne spretnosti in drugi atributi:</b> <ul style="list-style-type: none"> <li>- osnove z dokazi podprte medicine</li> <li>- priprava in uporaba sistematičnega pregleda</li> <li>- sistematično načrtovanje raziskav in uporaba v praksi</li> </ul> |
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#### Intended learning outcomes:

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| <b>The students gain fundamental knowledge on:</b> <ul style="list-style-type: none"> <li>• learn the basics about »evidence based medicine«</li> <li>• obtain basic knowledge of critical available data appraisal</li> <li>• systematic planning of evidence based preclinical and clinical studies</li> <li>• systematic planning of clinical procedures and practice</li> <li>• obtain the basis for evidence based clinical decision making</li> </ul> <b>Transferable/Key Skills and other attributes:</b> <ul style="list-style-type: none"> <li>- basics in evidence based medicine</li> <li>- preparation and use of systematic reviewing</li> <li>- systematic planning of studies and use in practice</li> </ul> |
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#### Metode poučevanja in učenja:

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| Predavanja, seminarji. |
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#### Learning and teaching methods:

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| Classroom lectures, seminars. |
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#### Načini ocenjevanja:

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| <b>Način (pisni izpit, ustno izpraševanje, naloge, projekt):</b><br><b>Materialni pogoji za izvedbo predmeta :</b><br>Predavalnica, računalniška učilnica.<br><br><b>Obveznosti študentov:</b><br>seminar (priprava kratkega poročila na podlagi PICO vprašanj), ter predstavitev. |
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Delež (v %) /  
Share (in %)

100

#### Assessment methods:

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| <b>Type (examination, oral, coursework, project):</b><br><b>Material conditions for subject realization</b><br>Classroom, computer lab.<br><br><b>Student's commitments:</b> <ul style="list-style-type: none"> <li>- seminars (a short report on PICO questions), and presentation.</li> </ul> |
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## Reference nosilca / Course coordinator's references:

### **EVA TURK:**

1. HAN, Emeline, TAN, Melisa Mei Jin, **TURK, Eva**, SRIDHAR, Devi, LEUNG, Gabriel M, SHIBUYA, Kenji, ASGARI, Nima, OH, Juhwan, GARCÍA-BASTEIRO, Alberto L, HANEFELD, Johanna, et al. Lessons learnt from easing COVID-19 restrictions : an analysis of countries and regions in Asia Pacific and Europe. *The Lancet*. [Online ed.]. 2020, vol. 396, iss. 10261, str. 1525-1534. ISSN 1474-
2. **TURK, Eva**, DURRANCE-BAGALE, Anna, HAN, Emeline, BELL, Sadie, RAJAN, Selina, LOTA, Maria Margarita M, OCHU, Chinwe, LAZO PORRAS, Maria, MISHRA, Pallavi, FRUMENCE, Gasto, MCKEE, Martin, LEGIDO-QUIGLEY, Helena. International experiences with co-production and people centredness offer lessons for covid-19 responses. *BMJ*. 2021, vol. 372, str. 1-4. ISSN 1756-1833.
3. **TURK, Eva**, WONTOR, Viola, VERA-MUÑOZ, Cecilia, COMNES, Lucia, RODRIGUES, Natercia, FERRARI, Giovanna, MOEN, Anne. Human-centered integrated care pathways for co-creating a digital, user-centric health information solution. *Journal of integrated care*. 2022, vol. 30, no. 4, str. 296-309, ilustr. ISSN 2042-8685
4. HALDANE, Victoria, JUNG, Anne-Sophie, FOO, Chuan De, SHRESTHA, Pami, URDANETA, Elena, **TURK, Eva**, GAVIRIA, Juan I, BOADAS, Jesus, BUSE, Kent, MIRANDA, J Jaime, et al. Integrating HIV and substance misuse services: a person-centred approach grounded in human rights. *The Lancet. Psychiatry*. Aug. 2022, vol. 9, no. 8, str. 676-688. ISSN 2215-0374
5. BATTELINO, Ula Magdalena, **TURK, Eva**. Vpliv pandemije covida-19 na vključevanje telemedicine v zdravstveni sistem: dejavniki, ki so to omogočili in kako lahko telemedicina koristi zdravstvu tudi po koncu pandemije = How did COVID – 19 help implement telemedicine in health care: what were the factors that made it possible and how can we use telemedicine to our advantage after the pandemic is over. *Zdravniški vestnik : glasilo Slovenskega zdravniškega društva*. [Spletna izd.]. 2022, letn. 91, št. 11-12, str. 525-533. ISSN 1581-0224.
6. PREVOLNIK RUPEL, Valentina, DIVJAK, Marko, **TURK, Eva**. Changes in the level of knowledge of diabetes among elderly with diabetes in Slovenia in the period 2011-2020. *Primary care diabetes*. [in press] 2021, 5 str., tabela, graf. prikazi. ISSN 1751-9918.
7. **TURK, Eva**, MIČETIĆ-TURK, Dušanka, ŠIKIĆ POGAČAR, Maja, TAPAJNER, Alojz, VLAISAVLJEVIĆ, Veljko, PREVOLNIK RUPEL, Valentina. Health related QoL in celiac disease patients in Slovenia. *Health and quality of life outcomes*. 2020, vol. 18, art. no. 356, 6 str., tabele. ISSN 1477-7525.

### **UROŠ MAVER:**

1. ZIDARIČ, Tanja, MAJER, David, MAVER, Tina, FINŠGAR, Matjaž, **MAVER, Uroš**. The development of an electropolymerized, molecularly imprinted polymer (MIP) sensor for insulin determination using single-drop analysis. *Analyst*. [Online ed.]. First published 24 Jan 2023, 14 str.
2. MASTNAK, Tinkara, **MAVER, Uroš**, FINŠGAR, Matjaž. Addressing the needs of the rapidly aging society through the development of multifunctional bioactive coatings for orthopedic applications. *International journal of molecular sciences*. 2022, vol. 23, no. 5, 35 str.
3. KOCBEK, Primož, FIJAČKO, Nino, SOGUERO-RUIZ, Cristina, MIKALSEN, Karl Øyvind, **MAVER, Uroš**, POVALEJ BRŽAN, Petra, STOŽER, Andraž, JENSSEN, Robert, SKRØVSETH, Stein Olav, ŠTIGLIC, Gregor. Maximizing interpretability and cost-effectiveness of surgical site infection (SSI) predictive models using feature-specific regularized logistic regression on preoperative temporal data. *Computational and mathematical methods in medicine*. [Online ed.]. 2019, vol. 2019, str. 1-13.
4. MADORRAN, Eneko, STOŽER, Andraž, BEVC, Sebastjan, **MAVER, Uroš**. In vitro toxicity model : Upgrades to bridge the gap between preclinical and clinical research. *Bosnian journal of basic medical sciences*. 2020, vol. 20, no. 2, str. 157-168.
5. ŠIKIĆ POGAČAR, Maja, **MAVER, Uroš**, MARČUN-VARDA, Nataša, MIČETIĆ-TURK, Dušanka. Diagnosis and management of diaper dermatitis in infants with emphasis on skin microbiota in the diaper area. *International journal of dermatology*. [Online ed.]. 2018, vol. 57, iss. 3, str. 265-275.
6. ROŽANC, Jan, **MAVER, Uroš**. Methods for analyzing the biological and biomedical properties of biomaterials. V: MOHAN, Tamilselvan (ur.), STANA-KLEINSCHKEK, Karin (ur.). *Functional biomaterials : design and development for biotechnology, pharmacology, and biomedicine*. Weinheim: Wiley-VCH, cop. 2023. Str. 165-197.