



Univerza v Mariboru

Medicinska fakulteta

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Na dokazih podprta medicina – zdravstvena ekonomika, varnost bolnika, kakovost v zdravstvu
Course title:	Evidence-based medicine – health-care economics, patient safety, quality in health care

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
ENOVIT MAGISTRSKI ŠTUDIJSKI PROGRAM SPLOŠNA MEDICINA	Splošna medicina	6	11

Vrsta predmeta / Course type

Univerzitetna koda predmeta / University course code:

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje work	Druge oblike študija	Samost. delo Individ. work	ECTS
10	35	0	/	/	45	3

Nosilec predmeta / Lecturer:

doc. dr. Eva Turk

Sonosilci predmeta / Lecturer:

izr. prof. dr. Uroš Maver

Jeziki /

Predavanja / Lectures:

slovenski

slovene

Languages:

Vaje / Tutorial:

slovenski

slovene

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

Prerequisites:

Vsebina:

Predavanja:

- Zdravstvena ekonomika
- Izboljševanje kakovosti
- Varnost bolnika
- Vrednotenje zdravstvenih tehnologij
- Organizacija zdravstvenih sistemov

Seminarji:

Zdravstvena ekonomika

- Različne teme

Kakovost v medicini in klinični praksi

- Različne teme

Varnost bolnika

- Različne teme

Vrednotenje zdravstvenih tehnologij

- Različne teme

Content (Syllabus outline):

Lectures:

- Healthcare economics
- Quality improvement
- Patient safety
- Health technology assessment
- Healthcare system organization

Seminars:

Healthcare economics

- Different topics

Quality in medicine and clinical practice:

- Different topics

Patient safety

- Different topics

Health technology assessment

- Different topics



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Temeljni literatura in viri / Readings:

- 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).
- 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 & Sons, 2019.

Dodatna literatura

- Cochrane Collaboration: <http://www.cochrane.org>
- 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 www.training.cochrane.org/handbook.
- Hamer, Susan, and Gill Collinson. *Achieving evidence-based practice: A handbook for practitioners*. Elsevier Health Sciences, 2014.
- Drummond, Michael F., Mark J. Sculpher, Karl Claxton, Greg L. Stoddart, and George W. Torrance. *Methods for the economic evaluation of health care programmes*, 4th edition. Oxford University Press, 2015.
- Eddy, David. "Health technology assessment and evidence-based medicine: what are we talking about?" *value in health* 12 (2009): S6-S7.
- Rupel-Prevolnik V, Simčič B, Turk E. *Dictionary of Terminology in the Health Care System*. Ljubljana: Ministrstvo za zdravje Republike Slovenije; 2014. (Slovenian)
- Ozcan, Y.A. *Health care benchmarking and performance evaluation: an assessment using data envelopment analysis (DEA)*. New York: Springer, 2008.
- McIntosh, E. et al. *Applied methods of cost-benefit analysis in health care*. Oxford [etc.]: Oxford University Press, 2011.
- Gray, A. *Applied methods of cost-effectiveness analysis in health care*. Oxford [etc.]: Oxford University Press, 2011.

Cilji in kompetence:

- spoznati delovanje in trende v zdravstveni ekonomiki
- pridobiti osnovno znanje metod ekonomskega vrednotenja in raziskovanja izidov na področju zdravstva
- pridobiti pregledno znanje v povezavi s kakovostjo v zdravstvenih sistemih
- načrtovanje in izvedba vrednotenja zdravstvenih tehnologij (HTA)
- pridobiti pregled dosedanjih spoznanj zagotavljanja varnosti bolnikov

Predvideni študijski rezultati:**Znanje in razumevanje:**

- spoznati delovanje in trende v zdravstveni ekonomiki
- pridobiti pregledno znanje in razumevanje metod ekonomske evalvacije in raziskav terapijskih izidov

Objectives and competences:

- learn about trends in health economics
- obtain basic knowledge about methods of economic evaluation and Outcomes research in healthcare
- obtain basic knowledge quality improvement in healthcare
- systematic planning of Health Technology Assessment (HTA)
- obtain basic knowledge about patient safety and its evaluation methods

Intended learning outcomes:**The students gain fundamental knowledge on:**

- understanding trends in health economics
- obtain basic knowledge about methods of economic evaluation and outcomes research
- obtain basic knowledge on systematic planning and conducting of Health Technology Assessment (HTA)



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<ul style="list-style-type: none"> • pridobiti osnove načrtovanja in izvedbe vrednotenja zdravstvenih tehnologij • pridobiti pregledno znanje v povezavi s kakovostjo v zdravstvenih sistemih • pridobiti pregled dosedanjih spoznanja zagotavljanja varnosti bolnikov <p>Prenesljive/ključne spretnosti in drugi atributi:</p> <ul style="list-style-type: none"> - praktična raba z dokazi podprte medicine - priprava in uporaba vrednotenja zdravstvenih tehnologij - načrtovanje raziskav na področju varnosti bolnika - opredeliti in diferencirati različne vidike kakovosti v zdravstvu in zdravstvenih sistemih 	<ul style="list-style-type: none"> • obtain basic knowledge and understanding of quality improvement in healthcare • obtain basic knowledge and understanding about patient safety <p>Transferable/Key Skills and other attributes:</p> <ul style="list-style-type: none"> - practical use of evidence based medicine - applied use of HTA - planning of studies in the field of Patient Safety - Identifying and differentiating various aspects of quality in healthcare and health systems
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Metode poučevanja in učenja:

Predavanja, seminarji.

Learning and teaching methods:

Classroom lectures, seminars.

Načini ocenjevanja:Delež (v %) /
Weight (in %)**Assessment:**

<p>Način (pisni izpit, ustno izpraševanje, naloge, projekt): Materialni pogoji za izvedbo predmeta : Predavalnica, računalniška učilnica.</p> <p>Obveznosti študentov: seminar</p> <ul style="list-style-type: none"> - pisni izpit. 	100	<p>Type (examination, oral, coursework, project): Material conditions for subject realization Classroom, computer lab.</p> <p>Student's commitments: seminars</p> <ul style="list-style-type: none"> - written exam.
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Reference nosilca / Lecturer's references:**ČLANKI****EVA TURK:**

- 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-
- 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.
- TURK, Eva**, WONTOR, Viola, VERA-MUÑOZ, Cecilia, COMNES, Lucia, RODRIGUES, Natércia, 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
- 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
- BATTELINO, Ula Magdalena, **TURK, Eva**. Vpliv pandemije covid-19 na vključevanje telemedicine v zdravstveni sistem: dejavniki, ki so to omogočili in kako lahko telemedicina koristi zdravstvu tudi po koncu pandemije = How



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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**, MIČETIČ-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. 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.