2025/2026

Univerza v Mariboru
Medicinska fakulteta

UČNI NAČRT PREDMETA / COURSE SYLLABUS	
Predmet:	Bolečina v stomatologiji
Course title:	Pain in dentistry

Študijski program in stopnja Study programme and cycle	Študijska smer Study option	Letnik Year of study	Semester Semester
Dentalna medicina/Dental medicine 2. stopnja/2nd cycle		**4**	**8**

Vrsta predmeta / Course type	Izbirni/Elective
Univerzitetna koda predmeta / University course code:	

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje Clinical training	Druge oblike študija Other forms of study	Samost. delo Individual work	ECTS
5	**40**				**45**	**3**

Nosilec predmeta / Lecturer:	**Doc. dr. Nevenka Krčevski Škvarč**

Jeziki / Languages:	**Predavanja / Lectures:**	slovenščina/slovene
	Vaje / Tutorial:	

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

Vsebina:

1. Uvod: večdimenzionalna narava bolečine
2. Mehanizmi nastanka dentalne bolečine
3. Ocenjevanje in merjenje bolečine
4. Obravnava bolečine
5. Klinična stanja bolečine v ustih in obrazu

Content (Syllabus outline):

1. Introduction: multidimensional nature of pain
2. Mechanisms of dental nociception
3. Pain Assessment and measurement
4. Pain management
5. Clinical conditions of dental and facial pain

Temeljni literatura in viri / Readings:

Orofacial pain guidelines for assessment, diagnosis and management. Seventh edition. Eds: Klasser GD, RomeroReyes M. The American academy of orofacial pain. Batavia. Quintessence Publishing 2023

Moule J, Hicks. Diagnosing dental and orofacial pain: a clinical manual. Chester, Iowa. Willey Blackwell 2017.

IASP Curriculum Outline on Pain for Dentistry. https://www.iasp-pain.org/education/curricula/iasp-curriculum-outline-on-pain-for-dentistry-and-oral-health/

Citation: Canfora, F.; Ottaviani, G.; Calabria, E.; Pecoraro, G.; Leuci, S.; Coppola, N.; Sansone, M.; Rupel, K.; Biasotto, M.; Di Lenarda, R.; et al. Advancements in Understanding and Classifying Chronic Orofacial Pain: Key Insights from Biopsychosocial Models and International Classifications (ICHD-3, ICD-11, ICOP). Biomedicines 2023, 11, 3266. https://doi.org/10.3390/biomedicines11123266

Dopolnilna literatura:

Vignesh. R, V. M. Padmapriya, Rajasekar. G. Dentalgesian Physiology: A Review on the Neurophysiology of pain in Dentistry. Research J Pharm and Tech 2021; 14(1):482-486. doi: 10.5958/0974-360X.2021.00088.3 Available on: https://rjptonline.org/AbstractView.aspx?PID=2021-14-1-88
Dowell D, Ragan KR, Jones CM, Baldwin GT, Chou R. CDC Clinical Practice Guideline for Prescribing Opioids for Pain — United States, 2022. MMWR Recomm Rep 2022;71(No. RR-3):1–95. DOI: Available on: http://dx.doi.org/10.15585/mmwr.rr7
Rotpenpian N, Yakkaphan P. Review of literatures: physiology of orofacial pain. eNeuro 5 April 2021, 8 (2) ENEURO.0535-20.2021; DOI: https://doi.org/10.1523/ENDOI:.0535-20.2021Shaikh S. Management of odontogenic and nonodontogenic pain. DOI: 10.5772/intechopen.83837 in Cascella M. From conventional to innovative approches for pain treatment, IntechOpen 2019
Laba M, Giano M, Franco C, Rezzani R. Orofacial pain and dentristy management: guidelines for a more comprehensive evidence-based approach. Diagnostics 2023; 13: 2854. Available on: https://doi.org/10.3390/diagnostics13172854nca

Cilji in kompetence:

Cilji:
Pridobiti osnovno znanje in veščine za diagnosticiranje in zdravljenje dentalne in bolečine u ustih in obrazu na izčrpen in jasen način.
Kompetence:
Študent bo sposoben opraviti pregled bolnika z boleči no in jo opredeliti po vzroku, patofiziologiji, lokalizaciji in trajanju. Študent bo lahko ocenil bolečino , razumel njen vpliv na kakovost življenja bolnika in bo sposoben oceniti kateri načini zdravljenja so primerni za določeno dentalno bolečino.

Objectives and competences:

Objectives:
The students will acquire basic knowledge and core skills for diagnosis and treatment of dental and orofacial pain in a comprehensive and coherent fashion.
Competences:
student will be able to perform the examination of patient with pain and to identify pain causes, pathophysiology, localization and duration. Student will be able to measure pain and its implications for the patients' quality of life and will be able to assess the appropriate pain management for the certain dental pain.

Predvideni študijski rezultati:

Znanje in razumevanje:
- Primarno bodo študenti:

-sposobni pri bolniku ugotoviti in oceniti dentalno bolečino
-razumeti bolnikovo bolečino iz vseh videzov kakovosti življenja,
-uporabiti metode analgezije za doseganje učinkovite kontrole bolečine, klasificirati metode izbirnega zdravljenja po stopnjevalni shemi
-sposobni oceniti učinkovitost določene obravnave bolečine
-prepoznati indikacije in uporabiti primerno psihoterapevtsko zdravljenje

- Delno bodo študenti usposobljeni za prepoznavanje in osnovno specifično obravnavo:

-akutne bolečine v ustih in obrazu
-bolečine zaradi raka ust in obraza
-nevropatske dentalne bolečine
-kronične bolečine,
-funkcionalnih bolečih sindromov

Prenesljive/ključne spretnosti in drugi atributi:
Predmet omogoča, da študent spozna pomen celostne obravnave bolnika z dentalno bolečino

Intended learning outcomes:

Knowledge and understanding:
- Primarily, students should:

-be able to identify patients with dental pain and measure pain
-learn to understand a patient's pain and all its implications for the patient's quality of life
-know and apply the methods of analgesia which offer effective pain control for the majority of patients, and to classify those methods in a graded scheme
-be able to evaluate the effectiveness of a particular pain management
-know and be able to apply the indications for appropriate psychotherapeutic treatment for pain

- In particular, student should be able to differentiate between and to know the basic principles of specific treatment of main syndromes:

-acute orofacial pain
-cancer orofacial pain
-neuropathic dental pain
-chronic pain
-functional pain syndromes

Transferable/Key Skills and other attributes:
The course will enable student to recognize the importance of integral dental pain management

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Metode poučevanja in učenja:	**Learning and teaching methods:**
Predavanja Seminarji (Klinični primeri)	Lectures Seminars (Clinical cases)

Načini ocenjevanja:	**Delež (v %) / Weight (in %)**	**Assessment:**
Način (pisni izpit, ustno izpraševanje, naloge, projekt) • Seminarska naloga • Ustna predstavitev OPOMBE: ŠTUDIJSKE OBVEZNOSTI ŠTUDENTOV: Obvezna prisotnost na seminarjih.	 **50 %** **50 %**	Type (examination, oral, coursework, project): • Seminar paper • Oral presentation NOTES: ACADEMIC OBLIGATIONS OF STUDENTS: Obligatory presence at seminars.

Reference nosilca / Lecturer's references:

1. Krčevski Škvarč N, Morlion B. Vowles KE, Banister K et al. European clinical practice recommendations on opioid use for chronic non-cancer pain – part 2. Eur J Pain 2021;25(5):969-985.
   Hauser W, Morlion B, Vowles KE, Bannister K, Krčevski Škvarč N et al. European clinical practice recommendations on opioid use for chronc non-cancer pain – part 1. Eur J Pain 2021;25(%):949-68.
2. Krčevski Škvarč N, Zelko E. Bolečina. V Zelko E, Rotarič-Pavlič D (eds). Paliativna oskrba odraslih bolnikov v družinski medicini: priročnik za zdravnike na primarni ravni. Ljubljana: zavod za razvoj družinske medicine, 2021:88-93.
3. Ebert Moltara M, Bernot M, Krčevski Škvarč N. Osnovna načela obravnave simptomov. V Ebert Moltara M, Bernot M (eds). Paliativna oskrba odraslih bolnikov z rakom v Sloveniji: temeljni pojmi in priporočila. Ljubljana. Onkološki Inštitut 2023;64-69.
4. Stražišar B, Lahajnar S, Krčevski Škvarč N. Obravnava bolečine. V Ebert Moltara M, Bernot M (eds). Paliativna oskrba odraslih bolnikov z rakom v Sloveniji: temeljni pojmi in priporočila. Ljubljana. Onkološki Inštitut 2023;70-85.
5. Krčevski Škvarč N, Papuga V. Obravnava bolečine v paliativni oskrbi. V Ebert Moltara M, Malačič S, Gumilar I (eds). Priročnik za paliativno oskrbo. Ljubljana. Slovensko združenje za paliativno in hospic oskrbo 2021:49-70.
6. Zelko E, Ramšak-Pajk J, Krčevski Škvarč N. An innovative approach for improving information exchange between palliative care providors in Slovenian primary healthcare – a qualitative analysis of testing a new tool. Healthcare 2022;10(2). ISSN2227-9032. Available on: https://www.mdpi.com/2227-9032/10/2/216/htm