


UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Orofacialna bolečina
Course title:	Orofacial Pain

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		5	10

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: Red. prof. dr. Sunčana Simonić-Kocijan

Jeziki / Predavanja / Lectures: Slovenščina/Slovene
 Languages: Vaje / Tutorial:

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

Vsebina: **Content (Syllabus outline):**
Občutek bolečine in modulacija bolečine. Definicija in vrste orofacijskih bolečin s poudarkom na neodontogeno bolečino. Etiopatogeneza in simptomatologija temporomandibularnih motenj (TMM). TMM diagnostike, TMM terapija z odraslimi, TMM laserska terapija, ultrazvočna terapija TMM. Akupunktura pri TMM terapiji. Farmakoterapija TMM. Fizikalna terapija TMM. Pain perception and modulation of pain. Definition and types of orofacial pain focusing on nonodontogenic pain. Etiopathogenesis and symptomatology of TMD. Diagnostic of TMD. Splints in TMD therapy. Ultrasound in therapy of TMD. Acupuncture in the treatment of TMD. Pharmacotherapy in TMD. Physical therapy of TMD.

Temeljni literatura in viri / Readings:
 Avtorska predavanja/Copyright lectures
 Selected chapters from: Lajnert V, Gržič R. Gnatologija. Rijeka, 2014.
 Valentić-Peruzović M. i sur. Gnatologija@net-virtual textbook

Cilji in kompetence: **Objectives and competences:**
Cilj predmeta je pridobiti osnovno znanje o orofacialni bolečini ter diagnostiki in terapiji temporomandibularnih motenj (TMM). Študenti bodo seznanjeni s terapevtskimi postopki zdravljenja TMM s poudarkom na ne invazivnih metodah zdravljenja z namenom odpravljanja simptomov motnje. Cilj predmeta je analizirati uporabo ugriznih opornic, ultrazvoka, laserske, fizikalne in farmakoterapije pri zdravljenju motenj. The aim of the course is to gain basic knowledge of orofacial pain and diagnosis and treatment of temporomandibular disorders (TMD). Students will be familiar with the therapeutic treatment procedures of TMD-s with an emphasis on non-invasive methods of treatment with the purpose of removing the symptoms of the disorder. The aim of the course is to analyse the use of splint, ultrasound, laser, physical therapy and pharmacotherapy in the treatment of disorder.

**Predvideni študijski rezultati:**

Znanje in razumevanje:
 Definirati orofacialno bolečino in opisati pot prenosa bolečine v orofacialni regiji
 Analizirati etiopatogenezo in simptomatologijo TMM
 Analizirati diagnostične postopke pri TMM
 Opisati vrsto ugriznih opornic in potek njihove priprave
 Opisati uporabo laserja in ultrazvoka pri TMM terapiji
 Opisati uporabo akupunkture pri zdravljenju TMM
 Opisati vključenost fizikalne terapije pri zdravljenju TMM
 Analizirati najpogosteje uporabljena zdravila pri zdravljenju TMM

Intended learning outcomes:

Knowledge and understanding:
 Define orofacial pain and describe the pain pathway in the orofacial region
 Analyse the etiology, pathophysiology and symptoms of TMD
 Analyse the diagnostic procedures of TMD
 Describe the type of splint, and the procedure of fabrication
 Describe the use of laser and ultrasound in the treatment of TMD
 Describe the use of acupuncture in the treatment of TMD
 Describe the involvement of physical therapy in the treatment of TMD
 Analyse the most commonly used drugs in the treatment of TMD

Metode poučevanja in učenja:

Predavanja
 Seminarji

Learning and teaching methods:

Lectures
 Seminars

Načini ocenjevanja:	Delež (v %) / Weight (in %)	Assessment:
Način (pisni izpit, ustno izpraševanje, naloge, projekt) Seminar -PPT o dogovorjeni temi -30 točk	30%	Type (examination, oral, coursework, project): Seminar -PPT on chosen topic -30 points
Pisni izpit Zaključna ocena se oblikuje iz vsote ocene seminarskega dela in pisnega izpita.	70%	Final written examination The definitive grade is formed from the sum of the marks of the seminar and the written exam.

Reference nosilca / Lecturer's references:

- Simonić-Kocijan S**, Uhač I, Braut V, Kovač Z, Pavičić Kovačević D, Fugošić V, Urek Muhvić M. Influence of chronic stress and occlusal interference on masseter muscle pain in rat. Coll Antropol 2009;33:863-6.
- Pavičić DK, Delić Z, Lajnert V, Fugošić V, **Simonić-Kocijan S**, Buković D. Changes of alveolar bone density around the abutment teeth in patients wearing removable partial dentures depending on Kennedy classification. Coll Antropol 2009;33:1349-52.
- Uhač I, Tariba P, Kovač Z, **Simonić Kocijan S**, Lajnert V, Fugošić Mesić V, Kuiš D, Braut V. Masticatory Muscle and Temporomandibular Joint Pain in Croatian War Veterans with Posttraumatic Stress Disorder. Coll Antropol 2011; 35:1161-66.
- Lajnert V, Kovačević P D, Gržić R, Kovač Z, Pahor Đ, Kuiš D, **Simonić-Kocijan S**, Antonić R, Bakarčić D. Influences of age and maxillary anterior teeth status on patient's satisfaction with dental appearance and tooth colour. Gerodontolog 2012; 29:674-79.
- Simonić Kocijan S**, Uhač I, Tariba P, Fugošić V, Kovačević Pavičić D, Lajnert V, Braut V. Alterations in the Masseter Muscle and Plasma IL-6 Level Following Experimentally Induced Occlusal Interference and Chronic Stress – A Study in Rats. Coll Antropol 2012;36:651-55.
- Simonic Kocijan S**, Zhao X, Liu W, Wu Y, Uhač I, Wang K. TRPV1 channel-mediated bilateral allodynia induced by unilateral masseter muscle inflammation in rats. Mol Pain 2013;9:68.



7. Tariba Knežević P, Vukman R, Antonić R, Kovač Z, Uhač I, **Simonić-Kocijan S**. The role of P2X₃ receptors in bilateral masseter muscle allodynia in rats. *Croat Med J*. 2016 Dec; 57(6): 530–539. doi: 10.3325/cmj.2016.57.530