

Course title: Scientific research in psychostomatology

Department: Postgraduate Doctoral Study Dental Medicine

Address: Department of Psychiatry, Sestre milosrdnice University Hospital Center

Total ECTS points: 4

Course leader: Professor Dalibor Karlović, MD, PhD

Course associates: /

Teaching plan: 20

	No. classes
Lecture	6
Seminar	7
Practical	7
Total	20

1 class = 45 minutes

Course description: The aim of the subject is to get familiar with recent knowledge and research methods regarding relationship between psychological factors and orofacial region. Further on, the importance of cooperation of psychiatrist and dentist is important in diagnostics, as well as in scientific research of such disorders in orofacial region. The emphasis will be put on recent diagnostic methods, which include rating scales, psychoneuroendocrinological and psychoneuroimmunological tests, as well as other biochemical and molecular diagnostic methods used for diagnostics of orofacial disorders. Students will also get familiar with psychosomatic orofacial and dental disorders, e.g. major aphthous stomatitis, lichen planus, stomatopyrosis, burning mouth syndrome, glossodynia, bruxism, atypical odontalgia, facial arthromyalgia, dental phobia, malocclusion, atypical facial pain, etc.

Learning outcomes

1. Define psychostomatologic disorders
2. Create a plan of scientific research in psychostomatology
3. Summarize results of psychostomatologic research
4. Evaluate psychostomatologic research
5. Justify results of scientific research in psychostomatology

Course content

Lectures

	Lecture topics	Number of classes/hours
1.	Introduce students to the practices of consultative psychiatry.	1
2.	Cooperation between psychiatrists and dental doctors in the field of treatment and research of psychosomatic disorders of the orofacial region.	1
3.	Psychosomatic etiology of orofacial disorders.	1
4.	Psychoneuroendocrinological and psychoneuroimmunological factors in the development of orofacial disorders.	1
5.	Relationship between mental state, stress and genetic factors in the development of psychosomatic dental disorders.	1
6.	-	-
7.	-	-
8.	-	-
9.	-	-
10.	-	-

1 class = 45 minutes

Seminars

	Seminar topics	Number of classes/hours
1.	Psychostomatology in endodontics, cariology and endodontic surgery.	1
2.	Psychostomatology in oral medicine.	1
3.	Psychostomatology in paradontology.	1
4.	Psychostomatology in pedodontics and orthodontics.	1
5.	Psychostomatology in oral and maxillofacial surgery.	1
6.	Psychopharmacotherapy of orofacial psychosomatic disorders.	1
7.	Cosmetic dental procedures - the role of psychological factors. Plastic and reconstructive surgery of the orofacial region and the psychological experience of the body.	1
8.	-	-
9.	-	-
10.	-	-

1 class = 45 minutes

Practicals

	Practical topics	Number of classes/hours
1.	How to diagnose psychiatric disorders with orofacial region symptomatology.	1

2.	Dental doctor's approach to a patient with psychosomatic orofacial disorder.	1
3.	Practicum on applying psychiatric classifications (DSM IV TR and MKB 10 and research criteria DSM V) in psychosomatic medicine.	1
4.	Practicum on using psychiatric assessment scales in the assessment of the psychosomatic state of the orofacial patient.	1
5.	Psychoneuroendocrinological, psychoneuroimmunological and molecular indicators of psychosomatic disorders - how to conduct a diagnostic process.	1
6.	Psychostomatological disorders - clinical picture.	1
7.	Psychostomatological disorders - diagnostics.	1
8.	-	-
9.	-	-
10.	-	-

1 class = 45 minutes

Literature

1. Karlović D. Psihijatrija, Naklada slap, Jastrebarsko 2019.
2. Američka psihijatrijska udruga. Dijagnostički kriteriji iz DSM-, međunarodna verzija s MKB-10 šiframa. Jastrebarsko: Naklada Slap; 2015.
3. Amos JJ, Robinson RG, ed. Psychosomatic Medicine, an introduction to consultation-liaison psychiatry. Cambridge University Press; 2010.

CV (*curriculum vitae*) and bibliography of course leader

Dalibor Karlović was born in 1973. in Zadar. He is the Chairman of the Psychiatry Clinic in Clinical Hospital Centre Sestre milosrdnice in Zagreb, the Head of the Department of Biological Psychiatry and Psychopharmacology in the Psychiatry Clinic in the named Centre, and the Chair of the Department of Psychiatry and Psychological Medicine at the School of Dental Medicine at the University of Zagreb.

He graduated in 1998. from the School of Medicine at the University of Zagreb. He has been a psychiatry specialist since 2004., and a biological psychiatry subspecialist since 2009. He did his Ph.D. in 2004. at the University of Zagreb. He has been a senior research scientist since 2013. In 2009. he became an assistant professor, and in 2012. an associate professor. He has been a full professor since 2016. He works as a full professor at the Department of Psychiatry and Psychological Medicine at the Catholic University of Croatia (teaching Psychopathology and Neurochemistry of Behaviour). He also works as an assistant professor at the School of Dental Medicine at the University of Zagreb (teaching Psychiatry) and at the Psychology Department at the University of Zadar (teaching Psychopathology). He holds a collegium

named Genetics of the psychiatry disorders at the Ph.D. at the Faculty of Pharmacy and Biochemistry and at the School of Dental Medicine at the University of Zagreb. He leads several multinational and multicenter psychopharmacological researches in the development of new potential psychopharmacs. He also leads several scientific projects financed by Ministry of Science and Education (in the area of biological psychiatry). He is a member of the Editory of the *Biochemia medica* and *Klinička psihologija* journals, an editor of the *Acta Clinica Croatica*, and Editor in Chief of *Archives of Psychiatry Research*. He reviewed numerous scientific journals (*Psychiatry Research*, *Psychoneuroendocrinology*, *Progress in Biological Psychiatry*, *Journal of Affective Disorders* etc.). He was a mentor at several graduate papers, 2 master degrees, and 9 doctorate degrees; there are 4 more doctorate degrees in progress at this moment. He is a member of examination commission of the Ministry of Science and Education for the exams of psychiatry specialists and biological psychiatry subspecialists. He is a member of American Psychological Association (APA), European Association for Consultation Liaison Psychiatry and Psychosomatics (EACLPPM), Croatian Medical Association, Croatian Biological Psychiatry Association, Croatian Medical Chamber and Croatian Catholic Medical Society. He published more than 200 references: more than 100 scientific papers in indexed scientific journals, about 100 conference communications, and about 15 books and book chapters. He was rewarded by the Croatian Psychiatric Association in scientific research in 2006.

Bibliography

CROSBİ profile: <https://www.bib.irb.hr/pregled/profil/18479>

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