

University of Zagreb
School of Denat Medicine

Gundulićeva 5, HR-10000 Zagreb, Croatia

ECTS Information Package
for Academic Year
2016/2017

Course Catalogue – Postdoctorate Study

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for Academic Year
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Study Programs


Postgraduate doctoral study Dental Medicine

Qualification awarded: Ph.D. in the field of Dental Medicine, Biomedicine and Healthcare
(dr. sc.)

1st semester, 1st year					
ECTS	methodological courses	Eng. Lev.	Study Hours	Sem.	
PDS- D	4.0 Analytical, in vitro and in vivo laboratory methods for bioactive and biocompatible substances research (1000) Alajbeg, I.	L3	0 (6+4+10)	I	
PDS- D	5 Biomorphological Methods in Dentistry Research (75) Gajović, S.	L1	0 (39+0+36)	I	
PDS- D	6.0 Biostatistics (1001) Petrovečki, M.	L2	0 (5+10+15)	I	
PDS- D	4 Dental Profiling (15) Brkić, H.	L2	0 (9+15+36)	I	
PDS- D	4 Epidemiological methods in research (175) Ulovec, Z.	L2	0 (15+30+15)	I	
PDS- D	3.0 Ethics in Biomedical Research (10) Matulić, T.	L2	0 (9+0+6)	I	
PDS- D	3.0 Information sources in dental medicine (290) Borić, V.	L0	0 (5+10+0)	I	
PDS- D	5 Molecular Biology of Mineralized Tissues (76) Grgurević, L.	L3	0 (30+30+15)	I	
PDS- D	4.0 Morphometric 3D analysis of craniofacial system (3) Šlaj, M.	L0	0 (4+6+10)	I	
PDS- D	6 Oral epidemiology (2) Šlaj, M.	L3	0 (0+45+45)	I	
PDS- D	4 Writing of scientific work (11) Anić, I.	L0	0 (15+15+30)	I	
ECTS	branch courses	Eng. Lev.	Study Hours	Sem.	
PDS- D	3.0 Aesthetics in orthodontics (86) Anić-Milošević, S.	L3	0 (15+15+15)	I	
PDS- D	3 A Modern Approach to the Issues Regarding Oral Premalignant Lesions (55) Biočina-Lukenda, D.	L3	0 (15+15+15)	I	
PDS- D	3.0 Assessment of orthodontic treatment need (82) Špalj, S.	L2	0 (15+12+18)	I	
PDS- D	4 Basic and advanced research techniques in Endodontics and laser application in Dentistry (1003) Anić, I.	L0	0 (24+18+18)	I	
PDS- D	4 Biomechanic principles in implant-prosthetic therapy (30) Čatić, A.	L3	0 (15+9+36)	I	
PDS- D	2 Biomechanics in fixed prosthodontics (37) Čatović, A.	L0	0 (12+6+12)	I	
PDS- D	4 Ceramics in Prostodontics (1011) Mehulić, K.	L1	0 (18+12+30)	I	
PDS- D	5 Chronic orofacial pain diagnostics and somatic and sensory testing methods in the orofacial region (1002) Alajbeg, I.	L3	0 (21+24+30)	I	
PDS- D	3.0 Clinical and experimental endodontics in primary and permanent teeth (1080) Jurić, H.	L3	0 (6+24+15)	I	
PDS- D	3 Clinical and instrumental analysis of stomatognathic system (39) Kraljević-Šimunković, S.	L2	0 (15+30+0)	I	
PDS- D	4.0 Clinical and radiological examination of the success of implant-prosthetic treatment in completely edentulous patients (1050) Čelić, R.	L3	0 (9+30+21)	I	
PDS- D	4 Conventional and digital cephalometry in orthodontics (1) Lapter Varga, M.	L2	0 (21+27+12)	I	

	ECTS	branch courses	Eng. Lev.	Study Hours	Sem.
PDS-D	3	Correlations and connections between the diseases of mouth and teeth and cardiovascular and gastrointestinal diseases (100) Ljubičić, N.	L2	0 (6+15+24)	I
PDS-D	2	Dental Implant Design (1005) Bošnjak, A.	L3	0 (0+6+24)	I
PDS-D	3.0	Determination of fluoride in human enamel after treatment with topical fluoride agents (34) Peroš, K.	L3	0 (3+6+6)	I
PDS-D	3	Digital gnathometrics and CAD CAM assisted treatment in orthodontics (99) Šlaj, M.	L1	0 (6+18+21)	I
PDS-D	3.0	Digital radiological imaging of the H&N tumors (1060) Zadravec, D.	L3	0 (9+18+18)	I
PDS-D	4	Endodontic surgery: contemporary approach, methods and materials (117) Karlović, Z.	L0	0 (15+18+27)	I
PDS-D	3	Epidemiological and systemic aspects in the epidemiology of periodontal diseases (6) Plančak, D.	L3	0 (15+15+15)	I
PDS-D	3	Epidemiology of caries activity in adolescents (70) Verzak, Ž.	L0	0 (15+15+15)	I
PDS-D	3	Epidemiology of dental erosion among adolescents (69) Čuković Bagić, I.	L1	0 (15+6+24)	I
PDS-D	3.0	Epigenetics (1110) Šerman, L.	L3	0 (6+18+21)	I
PDS-D	4	Evaluation of clinical and preventive methods of caries therapy (24) Dukić, W.	L0	0 (12+24+24)	I
PDS-D	5	Evaluation of dental materials in Pediatric Dentistry (1010) Glavina, D.	L0	0 (18+27+30)	I
PDS-D	3.0	Evaluation of the application of inhalation sedation in dentistry (1090) Majstorović, M.	L3	0 (0+21+24)	I
PDS-D	3	Evaluation of the quality of the postendodontic systems (28) Šegović, S.	L1	0 (9+18+18)	I
PDS-D	3	Experimental evaluation of glass ionomer cements (16) Prskalo, K.	L1	0 (12+18+15)	I
PDS-D	4	Experimental methods for determining effectiveness of adhesive systems (17) Tarle, Z.	L1	0 (18+21+21)	I
PDS-D	4	Experimental methods for determining the quality of composite materials (18) Tarle, Z.	L1	0 (18+21+21)	I
PDS-D	3.0	Experimental methods of determining the effectiveness of the resources for the maintenance of oral hygiene (1100) Negovetić-Vranić, D.	L3	0 (0+21+24)	I
PDS-D	3	Experimental photopolymerization (20) Čizmić, A.	L3	0 (15+24+6)	I
PDS-D	3	Fiber reinforced polymer materials in prosthetic dentistry (63) Vojvodić, D.	L1	0 (15+15+15)	I
PDS-D	4	Finite element method in biomechanical analysis of craniofacial system (4) Meštrović, S.	L2	0 (18+12+30)	I
PDS-D	3	Genome of tumor cells (190) Pećina-Šlaus, N.	L3	0 (15+15+15)	I
PDS-D	2	Histopathological analysis of periapical diseases (40) Pavelić, B.	L1	0 (6+12+12)	I
PDS-D	3	Immunohistochemical and molecular analysis of inflammation of the pulp and the periapical tissue (29) Krmek, S.	L2	0 (18+18+9)	I
PDS-D	4.0	Importance of dental color assessment in various dental treatments (1130) Knezović-Zlatarić, D.	L3	0 (9+30+21)	I
PDS-D	3	Investigation of biological and technical qualities of root canal filling materials. (5) Miletić, I.	L3	0 (18+9+18)	I

	ECTS	branch courses	Eng. Lev.	Study Hours	Sem.
	3.0	Investigation of laser influence on biomechanical properties of dental materials and hard dental tissues (1040) Baraba, A.	L2	0 (12+18+15)	I
	4	Laboratory methods in imunology: polymerase chain reaction and flow cytometry (1013) Šamića, I.	L3	0 (0+39+21)	I
	4	Localized alveolar crest defects, influence on esthetics and the anchors of fixed prosthodontics (1012) Stipetić-Ovčariček, J.	L2	0 (12+36+12)	I
	2	Management in dental medicine (181) Simeon, P.	L1	0 (18+12+0)	I
	3.0	Metals and alloys as biomaterials (1020) Jelinić Carek, A.	L3	0 (0+24+21)	I
	3	Molecular diagnostics of oral diseases (47) Mravak-Stipetić, M.	L2	0 (15+24+6)	I
	3	Morphometry in Dental Anthropology (1008) Dumančić, J.	L3	0 (6+18+21)	I
	3	Neurological causes of chewing and swallowing (mastication and deglutition) disorders (50) Trkanjec, Z.	L3	0 (18+6+21)	I
	4	New findings about melanoma with special emphasis on melanomas of the head and neck (349) Šitum, M.	L0	0 (27+21+12)	I
	4	Odontobiography - the basics of stomatognathic system meta-analysis (1014) Vodanović, M.	L2	0 (15+45+0)	I
	4	Oral-Medical Aspects of Systemic Autoimmune Diseases (53) Biočina-Lukenda, D.	L3	0 (18+21+21)	I
	2	Orthodontic and surgical treatment of skeletal face deformations (59) Uglešić, V.	L3	0 (9+12+9)	I
	2	Oxidative stress (314) Lovrić, J.	L1	0 (15+3+12)	I
	2	Periodontium, periimplant tissues and occlusal forces (336) Aurer, A.	L3	0 (15+0+15)	I
	4	Prosthodontic patient and quality of life evaluation after prosthodontics: questionnaires, factor analysis and psychometric qualities (1007) Čelebić, A.	L3	0 (18+21+21)	I
	3	Recent techniques in dental implantology (68) Katanec, D.	L0	0 (18+12+15)	I
	2.0	Regenerative periodontal therapy and tissue engineering (1070) Božić, D.	L3	0 (9+12+9)	I
	3	Release ions mineral from hard tissue teeth influence egzogenic and endogenic factors (54) Katunarić, M.	L0	0 (6+33+6)	I
	6	Scientific approach to genetics, epidemiology, patophysiology, diagnostics and pain treatment in the head and neck region (1004) Bašić Kes, V.	L3	0 (24+30+36)	I
	4	Scientific research in psychostomatology (60) Karlović, D.	L3	0 (18+21+21)	I
	4	Sinus lifting-evaluation of different operating technics (93) Perić, B.	L3	0 (12+18+30)	I
	4	Stomatognathic bone tissue analysis; the impact of functional wear, aging, implant therapy and/or prosthetics (1006) Čelebić, A.	L3	0 (18+21+21)	I
	3.0	Successful evaluation of preventive and minimally invasive procedures for the treatment of dental hard tissue (1120) Janković, B.	L2	0 (27+15+9)	I
	5.0	Temporomandibular pain and osteoarthritis (1030) Badel, T.	L3	0 (12+30+36)	I

	ECTS	branch courses	Eng. Lev.	Study Hours	Sem.
	3	Toxicity research on dental materials used for dental fillings and their influence on the human body and the environment (1009) Galić, N.	L3	0 (15+15+15)	I

Courses

Aesthetics in orthodontics

86



Lecturer in Charge



Izv. prof. dr.sc.
Sandra Anić-
Milošević

ECTS Credits	3.0
English Level	L3
E-learning Level	L1
Study Hours	
Lectures	5
Practicals	5
Seminars	5
Grading	
oral exam	

Course Description

Facial aesthetics is a primary area of concern for orthodontists. Class I occlusion is no longer the only treatment goal; the resultant soft tissue contours are often equally important in defining a well-treated case. Different treatment modalities (dentofacial orthopedics, extraction of premolars, orthognatic surgery) enable the orthodontist to significantly alter facial esthetics. On the other hand, several studies have documented a significant difference between the ideals of the public and the ideals of orthodontist.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Identify the changes on soft tissue profile in certain malocclusions
2. Analyze information according to knowledge
3. Select the features that influence the soft tissue profile

General Competencies

Students will be informed about the possibilities and the importance of the soft tissue analysis. It is expected that they recognize the different soft tissue profiles in different types of malocclusions and the possibilities of the soft tissue profile changes that could be achieved with orthodontic treatment as well as the interdisciplinary treatment with orthognatic surgery.

Literature



Anić-Milošević S. Meštrović S. Prlić A. Šlaj M. Proportions in the upper lip-lower lip-chin area of the lower face by photogrammetric method. *J Cranio-Maxillofac Surg* 2009. ahead of pub.



Anić-Milošević S. Meštrović S. Šlaj M. Soft tissue profile typology: results of the cluster analysis. *J Craniofac Surg* 2009 ahead of pub.



Anić Milošević S. Lapter Varga M. Šlaj M. Analysis of the Soft Tissue Facial Profile of Croatians Using of Linear Measurements. *J Craniofac Surg* 2008;19(1):251-258.



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Arnett GW, Bergman RT. Facial keys to orthodontic diagnosis and treatment planning-Part I. *Am J Orthod Dentofacial Orthop* 1993; 103: 299-312.



Ferrario VF, Sforza C, Puleo A, Poggio CE, Schmitz J. Three-dimensional facial morphometry and conventional cephalometrics: A correlation study. *Int J Adult Orthodon Orthognath Surg* 1996; 11: 329-38.



Talass MF, Baker RC. Soft tissue profile changes resulting from retraction of maxillary incisors. *Am J Orthod* 1987; 91: 385-94.



McNamara JA Jr, Ellis E. Cephalometric analysis of untreated adults with ideal facial and occlusal relationships. *Int J Adult Orthodon Orthognath Surg*. 1988; 3: 221-31.



Cochrane SM, Cunningham SJ, Hunt NP. Perceptions of facial appearance by orthodontists and the general public. *J Clin Orthod* 1997; 31: 164-8.



Farkas LG, Hreczko TA, Kolar JC, Munro IR, Chir B. Vertical and horizontal proportions of the face in young adult North American Caucasians: Revision of Neoclassical canons. *Plast Reconstr Surg* 1985; 75: 328-37.



Auger TA, Turley PK. Esthetic soft-tissue profile changes during 1900s. *J Dent Res* 1994; 73: 368.



Ferrario VF, Sforza C, Miani A, Poggio CE, Schmitz J. Harmonic analysis and clustering of facial profiles. *Int J Adult Orthod Orthog Surg* 1992; 7: 171-9.

A Modern Approach to the Issues Regarding Oral Premalignant Lesions

55



PDS-D

Lecturer in Charge



Izv. prof. dr.sc.
Dolores Biočina-
Lukenda

ECTS Credits	3
English Level	Lo
E-learning Level	L1
Study Hours	
Lectures	5
Practicals	5
Seminars	5

Course Description

In this course, students will through a recommended schedule, gain insight to the issues of oral premalignant lesions. They will learn the newest principles to their clinical and pathohistological diagnosis, with the newest discoveries in molecular-genetic base of oral premalignant lesions, as well as the newest visions into their chemoprevention. The lectures will include the following: cell mitosis and the formation of premalignant lesions; Oral premalignant lesions I (oral leukoplakia, erythroplakia, oral lichen ruber); Oral premalignant lesions II (leukoplakia candidomycetica, cheilitis actinica); Molecular-genetic base of premalignant lesions (oncogenes, tumor suppressive genes, cell proliferation markers); Molecular-genetic base of oral premalignant lesions; Pathohistological diagnosis of oral premalignant lesions (biopsy techniques, processing materials, histological processing); Immunohistochemical and molecular-pathological diagnosis of oral premalignant lesions; Treatment of oral premalignant lesions (immunotherapy, biotherapy, interferons, interleukins, levamisole); A molecular approach to chemoprevention of oral premalignant lesions.

Study Programmes

» Postdoctorate Study (branch courses, 1st semester, 1st year)

General Competencies

Understanding the molecular-genetic background of oral premalignant lesions, the principles of modern diagnostic methods, the treatment approach to oral premalignancies with emphasis on the chemoprevention of oral planocellular carcinoma.

Literature



Kumar V. Scotran RS. Robbins SL. *Osnove patologije*. Zagreb: Školska knjiga; 2000.



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Girod SC. Kruger G. Pape H-D. P53 and Ki-67 expression in preneoplastic and neoplastic lesions of the oral mucosa. *Int J Oral Maxillofac Surg*. 1993; 22: 285-288.

Analytical, in vitro and in vivo laboratory methods for bioactive and biocompatible substances research

1000



Lecturer in Charge



Ivan Alajbeg

ECTS Credits 4.0

English Level L3

E-learning Level L1

Study Hours

Lectures 6

Practicals 4

Seminars 10

Course Description

Study Programmes

» Postdoctorate Study (*methodological courses, 1st semester, 1st year*)

Literature



Andreja Ambriović Ristov i sur. (2007). *Metode u molekularnoj biologiji*, IRB

Assessment of orthodontic treatment need

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Lecturer in Charge



Doc. dr.sc.
Stjepan Špalj

ECTS Credits 3.0

English Level L2

E-learning Level L2

Study Hours

Lectures 5

Practicals 4

Seminars 6

Grading

Completed seminar paper and ten clinical cases with assessed orthodontic treatment need (based on indices presented on lectures) is obligatory for final exam.

Course Description

The aim of this lecture is to provide education and practical skills on epidemiologic methods for assessment of prevalence, incidence and severity of malocclusions and craniofacial deformities, usage of various indices for assessment of orthodontic treatment need, priority and outcome, and to study factors influencing perception of malocclusion.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Student is able to select the indices of orthodontic treatment need
2. To use the indices of orthodontic treatment need
3. To interpret the results of the assessment of orthodontic treatment need
4. To evaluate treatment priorities
5. To quantify succes of treatment outcome

General Competencies

Student should be able to design the research form and protocol. to select the indices. to test the reproducibility. to conduct the investigation. to intepret the results of the investigation of orthodontic treatment need and to specify treatment priorities.

Literature



Bishara SE (2001). *Textbook of orthodontics*, WB Saunders



Michell L. (2001). *An introduction to orthodontics. 2nd ed.*, Oxford University Press



Proffit WC (2007). *Contemporary orthodontics*, Mosby



Špalj S (2015). *Oralna epidemiologija*, Rijeka, Medicinski fakultet



Špalj S (2012). *Ortodontski priručnik*, Rijeka, Medicinski fakultet

Additional Literature



Pine C, Harris R. (2007).
Community oral health,
Quintessenz



Burt BA, Eklund SA. (2000).
*Dentistry, dental practice, and the
community*, Saunders



Shaw WC, Richmond S,
O'Brien KD (1995). *The use of
occlusal indices: a European
perspective*, Am J Orthod
Dentofacial Orthop 1995;107



Daniels C, Richmond S. (2000).
*The development of the index of
complexity, outcome and need
(ICON)*, J Orthod. 2000;27

1003

Basic and advanced research techniques in Endodontics and laser application in Dentistry

Lecturer in Charge



Prof. dr.sc.
Ivica Anić

ECTS Credits	4
English Level	Lo
E-learning Level	L1
Study Hours	
Lectures	8
Practicals	6
Seminars	6
Grading	
Oral examination	

Course Description

During the theoretical part of the course, students learn about the principles and rules of scientific research of various root canal instrumentation techniques. The methods of examining the effectiveness of the instrument and the comparison with respect to the sample instrument are explained. The interpretation of results and comparison with the results in previously published relevant journals are presented. The techniques for measuring the temperatures changes during instrumentation and different, cold and warm obturation techniques are explained. Scientific methods are explained on techniques: Taper Next, and reciprocating techniques, EndoEze and obturation techniques warm gutta-percha: System B Heat Transfer system, Calamus and "One Step" system.

Seminars include a description of the procedures for the evaluation of the effectiveness of root canal instruments as compared to other techniques instrumentation techniques (plastic model, computer simulation, etc.). Techniques for the evaluation of the permeability of root canal fillings: the technique of dye penetration, construction of transmission fluid model, bacterial leakage test, scanning-electron microscopy.

The practical part includes a computer analysis of the effectiveness of root canal instrumentation. In vitro obturation techniques of warm gutta-percha and the evaluation of sealing ability of various materials and obturation techniques using dye penetration and fluid transport test are presented.

The theoretical part of the course covers the definition of the parameters of lasers for dental use and the possibility of scientific research of each of them (wavelength, frequency, by contact and noncontact mode, focus, direct and indirect effects on the target site). The ability to assess and compare the quality of bonding restorations to dental hard tissue in cavities made by laser, the reaction of the pulp to the laser radiation, temperature changes in the tissue caused by the laser radiation, the comparison of the photodynamic laser therapy with conventional medical therapy and surgery, and trends in the research of laser (which is being investigated and that the guidelines where scientific research can continue or start new in comparison to already published results) and its application in dentistry are explained. Seminars and exercises include scanning-electron microscopy cavity preparation after Er: YAG laser and the surface of the root canal after the application of Nd: YAG laser, a computer analysis of three-dimensional leakage cavity made by Er: YAG laser, microbiological analysis of root canal after the application of the laser, measuring the temperature of laser and histological analysis of the effects of lasers on the pulp.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Prepare scientific work of the effectiveness of rotary instrumentation techniques and obturation techniques
2. Explain results of study after statistical analysis and discuss them critically in comparison to the previously published results

Literature



Ingle JI & Bakland LK (2008). *Endodontics. VIed.*, BC Decker Inc, Hamilton, London

Additional Literature



Cohen S & Burns RC (2010). *Pathways of the Pulp. Xed.*, CV, Mosby Inc.St. Louis



Moritz et al. (2004). *Oral Laser Application*, Quintessence



Guest editor Syngcuk Kim (2004). *Modern Endodontic Practice. Dental Clinics of North America*, Saunders, Philadelphia

Biomechanic principles in implant-prosthetic therapy

30



PDS-D

Lecturer in Charge



Izv. prof. dr.sc.
Amir Ćatić

ECTS Credits	4
English Level	L3
E-learning Level	L1
Study Hours	
Lectures	5
Practicals	3
Seminars	12

Grading

Finished seminar on specific topic is a requirement for taking the exam.

Course Description

-bone tissue. bone types. bone metabolism;-structural upper and lower jaw anatomy. alveolar process;-structural. metabolic and dimensional changes after tooth extraction;-systemic and local factors affecting bone resorption;-biomechanics of functional and

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Choose and apply appropriate loading concept for specific clinical situation
2. Define implant loading options
3. Plan the adequate loading according to the clinical situation
4. Analyze the occlusal concepts and influence on biomechanics and longevity of implant-borne appliances.

General Competencies

Knowledge and understanding of the biomechanics of implant-supported prosthetic appliances and importance of bone quality evaluation in treatment planning and positioning. implant surgery. choice of timing and type of loading. relevant literature acquisition. discussion on relevant literature and its ideas. statistical analysis and interpretation of results.

Literature



Caputo AA. Standlee J. *Biomechanics in clinical dentistry*. Quintessence Publishing Co. Chicago. 1987.



Avila G. Galindo P. Rios H. Wang HL. *Immediate implant loading: current status from available literature*. *Implant Dent* 2007; 16:235-245.



Cowin SC. *Bone mechanics*. 2. izd. Boca Raton. CRC Press Inc.. 2001.



Natali AN. Meroi EA. *A review of the biomechanical properties of bone as a material*. *J Biomed Eng*. 1989; 11:266-276



Natali AN. ed. *Dental Biomechanics*. London. Taylor and Francis. 2003.

Additional Literature



Ćatić A. Čelebić A. Valentić-
Peruzović M. Čatović A.
Jerolimov V. Muretić I.
*Evaluation of the precision of
dimensional measurements on
panoramic radiographs. Oral
Surg Oral Med Oral Patol Oral
Radiol Endod* 1998;86:242-248



*Najnovija objavljena literatura
dostupna preko PubMed-a.*

Biomechanics in fixed prosthodontics

37



Lecturer in Charge



Prof. dr.sc.
Adnan Čatović

ECTS Credits	2
English Level	Lo
E-learning Level	L1
Study Hours	
Lectures	4
Practicals	2
Seminars	4

Grading

The evaluation of candidates will be done by oral examination.

Course Description

Historical overview of the biomechanical research in fixed prosthodontics. the functional and morphological characteristics of the tooth- anchor- jaw –fixed prosthodontic appliance system. wedge principle and the anchor concept. Theoretical analysis of flexure stresses and strain. fracture mechanics and basic concepts of the dynamic strength theory. application of static tensile stress and striking fracture experiments in the research of alloys and non-alloys and different fixed prosthodontic appliances. Use of dynamic pulsating destruction method and the finite elements method in the research of the dynamic strength of teeth. jaws. dental materials and different types of fixed prosthodontic appliances.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. After completion of the course, candidates will acquire a basic knowledge of biomechanics to overcome experimental work.

General Competencies

The attendants are expected after exam to be able to prepare and practice research dealing with static tensile stress experiments. finite elements method and striking fracture on dental materials and different types of prosthodontic appliances.

Literature



Ćatović A. i sur. *Klinička fiksna protetika. Stomatološki fakultet Sveučilišta u Zagrebu. Ispitno štivo.* 1995.



Franz M. *Mehanička svojstva materijala.* AJA. Zagreb. 1998



Ćatović A. *Comparative investigation of dynamic loading of prepared and intact human premolars.* Quintessence Int 1992;23:435-80.



Poljak - Guberina R. *Prilog istraživanju dinamičke izdržljivosti spoja ducera gold keramike i AgPd legure u različitim uvjetima okoline /Distertacija /.* Zagreb: Stomatološki fakultet Sveučilišta u Zagrebu; 1998.



Ćatić A. *Analiza djelovanja žvačnih sila na zub i metal-keramičku krunicu metodom konačnih elemenata /Disertacija /.* Zagreb: Stomatološki fakultet Sveučilišta u Zagrebu; 2005.



Ćatović Adnan, Komar Dragutin, Ćatić Amir i sur. (2015). *Klinička fiksna protetika I - Krunice*, Medicinska naklada Zagreb

Additional Literature



Ćatović A. Kraljević K. Jerolimov V. Čelebić A. Kovačiček F. Valentić-Peruzović M. *The response of human premolars on cyclic loadings.* J Oral Rehabil. 1997;24:320-324.



Fiket D. *Komparativno istraživanje lomne čvrstoće krunica iz tri različita nemetalna materijala.* Magistarski rad. Stomatološki fakultet u Zagrebu. 2004.



Ćatović A. Poljak - Guberina R. Jerolimov V. *Does thermal cycling affect dynamic strength between Ag-Pd alloy and hydrothermal ceramics?* International J Prosthet Dent 1999;12:556.



Ćatović A. Seifert D. Poljak - Guberina R. Kvasnička B. *Utjecaj biomehaničkih čimbenika na nadograđivanje devitaliziranih zuba.* Acta Stomatol Croat 2000; 34:59-66.

Biomorphological Methods in Dentistry Research

75



PDS-D

Lecturer in Charge



Prof. dr.sc.
Srećko Gajović

ECTS Credits	5
English Level	L1
E-learning Level	L1
Study Hours	
Lectures	13
Seminars	12

Grading

Written exam to describe one of the morphological methods

Course Description

The course gives an overview of a number of morphological methods that enable the visual presentation of molecules, cells, tissues, organs and systems of man and laboratory animals with special emphasis on the study of the teeth and oral cavity. Students learn about different types of microscopy, and the methods of application of light and electron microscopy. Theoretical and practical procedures will be used to visualise the basic macromolecules of the living world, the activity of genes, and imaging of proteins in research and diagnostics. Participants will gain insight into the practical knowledge in the use of modern methods of light microscopy (fluorescence and confocal microscope), and transmission electron microscopy. The methods will be applied for the morphology and function of the teeth and oral cavity.

Study Programmes

» Postdoctorate Study (*methodological courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Identify and name morphological research methods
2. Estimate the application need for morphological method in the research study
3. Analyze results obtained by morphological research methods

General Competencies

The students should be able to govern contemporary biomorphological methods and by reading to understand and critically interpret scientific articles.

Literature



L.C. Junqueira, J. Carneiro, R.O. Kelley (2005). *Osnove histologije*, Školska knjiga, Zagreb

Additional Literature



Bancroft JD, Gamble M. (2007).
*Theory and Practice of the
Histological Techniques*,
Churchill Livingstone



Allen TD (ed.) (2008).
*Introduction to Electron
Microscopy for Biologists*,
Methods Cell Biol, 88:1-545.



Coleman WB, Tsongalis GJ
(eds.) (2009). *Molecular
Pathology: The Molecular Basis of
Human Disease*, Academic Press

Biostatistics

1001

Lecturer in Charge



Mladen Petrovečki

Course Description

The course teaches students the basic knowledge on characteristics of statistical data presentation and statistical analysis of biomedical data, especially in dental medicine, i.e., it teaches them how to read and understand statistical methodology of scientific papers, to perform data processing in the context of their own scientific research and to interpret results of data processing, and to publish the results of data analysis as an integral part of the complete scientific paper.

Basic statistical methodology of biomedical data analysis processing in the course of scientific research in dentistry includes description and understanding of the types of clinical trials, sample and population, data distribution, data collection, data types and description of measurement scales, review and understanding of descriptive statistical indicators (measures of central tendency and dispersion), confidence intervals, statistical hypothesis and statistical inference, comparison of data between groups, testing the difference and association, use of proportions, incomplete analysis of monitored data and dose response curves, sample size determination and power of the study, with the principles on use of multivariate statistics.

Study Programmes

» Postdoctorate Study (*methodological courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Read, understand, clarify, and explain the use of statistical methodology of data presentation and data analysis in the scientific paper
2. To set, explain, and interpret scientific and statistical hypothesis and its testing using appropriate statistical methodology
3. To recognize statistical problem of the scientific research, properly select variables and measurement scales, to measure variables and collect the data using modern information technology (software)
4. For data presentation and basic data analysis to use appropriate statistical parameters and statistical tests

Literature



Matko Marušić i sur. (2013). *Uvod u znanstveni rad u medicini*, Medicinska naklada

ECTS Credits	6.0
English Level	L2
E-learning Level	L1
Study Hours	
Lectures	5
Practicals	10
Seminars	15

Grading

1. Written seminar as a critical review of the use of statistical methodology in the selected original scientific paper in the domain of biomedicine (dental medicine) published in journal indexed in CC (student chooses scientific paper). 2. Oral exam (interpretation of statistical methodology explained in the seminar paper and explanation of statement, with checking of theoretical knowledge).

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Additional Literature



Beth Dawson, Robert G. Trapp
(2004). *Basic and Clinical
Biostatistics*, McGraw-Hill



Aviva Petrie, Caroline Sabin
(2001). *Medical Statistics at a
Glance*, Blackwell Science



Acta Stomatologica Croatica,
School of Dental Medicine,
University of Zagreb

Ceramics in Prosthodontics

1011

Lecturer in Charge



Prof. dr.sc.
Ketij Mehulić

Course Description

The high aesthetic requirements of modern fixed prosthodontics can be satisfied with the application of ceramics, which, apart from such marked criteria, also satisfy requirements of hygiene maintenance, tissue tolerance, durability and stability. The development of all ceramics occurred through attempting to replace the metal construction of restorations with a material similar to dental enamel. The application of ceramics in dental medicine, from the enameling technique up to the age of high technology, evolved in accordance with new knowledge about silicate chemistry and in accordance with the development and possibilities of treatment of ceramic raw materials. Strengthening of ceramic materials is obtained through a whole range of procedures; from insertion of specific fibers into the basic structure, insertion of aluminium, zirconium oxide and other compounds, to special methods for controlling the crystallization process of glass. Consequently, today there is a whole range of new systems on the market with precisely determined areas of indication and specific technologies.

As a brittle material, ceramic does not deform under loading. This makes it, in spite of the firm shape, particularly sensitive to minor structural errors, which can later develop into micro-cracks. Dental ceramics are the leading aesthetic constructive material in prosthodontics today. Without a metallic substructure they are indicated in of single crown restorations, inlays, onlays, veneers, three unit or longer span bridges.

Recent studies have shown the potential of corrosive influence on biologic tissues, which is one of the subjects discussed during this class.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Identify and describe current ceramic materials in prosthodontics and their properties
2. Identify clinical application fields of dental ceramics
3. Evaluate the influence of technical procedures on ceramic materials
4. Independently search for relevant literature

Literature



Mehulić K. (2010). *Keramički materijali u stomatološkoj protetici*, Školska knjiga

ECTS Credits	4
English Level	L1
E-learning Level	L1
Study Hours	
Lectures	6
Practicals	4
Seminars	10

Grading

The exam is conceived as a seminar that brings together the knowledge acquired within the course and an oral exam

Additional Literature



Anusavice KJ, Phillips (2003).
Science of Dental Materials,
Saunders Elsevier Science



Schillingburg H., Hobo S.,
Whitsett LD., Jacobi R.
Brackett ES. (1997).
*Fundamentals of Fixed
Prosthodontics. 3er ed.*,
Quintessenz Publishing Co. Inc



Rosenstiel S., Laub MF.,
Fujimoto J. (1988).
*Contemporary Fixed
Prosthodontics*, CV Mosby Co

Chronic orofacial pain diagnostics and somatic and sensory testing methods in the orofacial region

1002



PDS-D

Lecturer in Charge



Izv. prof. dr.sc.
Iva Alajbeg

ECTS Credits	5
English Level	L3
E-learning Level	L2
Study Hours	
Lectures	7
Practicals	8
Seminars	10
Grading	
Presentation of seminar work. Oral exam.	

Course Description

Orofacial pain is a major health problem in the general population with a marked influence on the daily functioning of the individuals. It is a symptom of many disorders that affect the different structures of the head, face and oral cavity, but the cause often remains unknown.

Temporomandibular disorders are a major cause of chronic pain in the orofacial area while in everyday neurological practice the most important causes of orofacial pain are the trigeminal nerve neuralgia and headache. For years, the recognition of temporomandibular disorders has been a controversial issue, primarily due to the fact that the term temporomandibular disorder encompasses many symptoms of different etiopathogenesis, resulting in an unfavourable diagnosis and inadequate therapeutic approach. Today we know for sure that etiopathogenesis of these disorders is not fully understood. The cause of idiopathic trigeminal neuralgia is also unknown but there are several proposed theories that include traumatic compression of the trigeminal nerve bundle by either neoplastic or vascular anomalies and a demyelinating condition.

Correct diagnosis of TMD and chronic orofacial pain is based on history and clinical evaluation, since the informations obtained from the patient during the examination can sometimes be the key for correct diagnosis. The diagnosis of headaches in terms of neurophysiologic and neuroradiologic diagnostic methods include computer tomography scan (CT), magnetic resonance imaging (MRI), with cerebral vascular angiography (MRA), electroencephalograph (EEG), ultrasonic methods of presentation of cerebral circulation, electrophysiological methods - visual evoked interaction potential (VEP), auditory evoked potentials, blink reflex and EMNG. Diagnosis of TMD based on the RDC / TMD, and may include additional radiological methods (radiographic TMJ, TMJ MRI).

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Summarize knowledge about possible causes of orofacial pain disorders
2. Define the methods used in the diagnosis of chronic orofacial pain disorders
3. Identify psychometric methods for evaluation of pain, disability and depression
4. Describe protocols for clinical examination of patients with temporomandibular disorder
5. Summarize obtained knowledge and conclude on therapeutic possibilities

Literature



Manfredinin D (2010). *Current concepts on temporomandibular disorders.* Quintessence publishing



Demarin V, Trkanjec Z. (2008). *Neurologija za stomatologe.* Medicinska naklada

Additional Literature



Okeson JP (2008). *Temporomandibularni poremećaji i okluzija.* Medicinska naklada

1080

Clinical and experimental endodontics in primary and permanent teeth



PDS-D

Lecturer in Charge



Prof. dr.sc.
Hrvoje Jurić

ECTS Credits	3.0
English Level	L3
E-learning Level	L2
Study Hours	
Lectures	2
Practicals	8
Seminars	5

Grading

Essay – seminar work Oral examination

Course Description

Specific form of endodontic space in primary and permanent teeth certainly significantly affect the plan and outcome of endodontic therapy in children. Of course, unconditional effect on the treatment plan, and its outcome has a specific histological structure of the tooth pulp in both dentition in children. Therefore, during all three forms of teaching in this subject, with all the clinical aspects will give an overview on the methods of treatment of pathological changes in the pulp of both, primary and young permanent teeth. Significant emphasis will be given on experimental possibilities in these area, which are particularly important for doctoral students. Research in the field of endodontics in children are valuable and always provide important guidelines to ensure better daily clinical work, and require participants a special effort. During exercise students will test various endodontic techniques in vitro, ex vivo and in vivo. In this way, students get to know the most modern operating techniques and procedures which are the current "state of the art" in endodontic treatment in children. Of course, we will use the latest instruments and materials which will contribute to overcoming the best clinical techniques work.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. The student understands the significance of the differences between the diseases of the pulp of primary and young permanent teeth.
2. Student is able to apply the most modern techniques and instruments for endodontic treatment that are consistent with diagnosed pulp pathology.
3. It is capable of independently analyze the clinical situation and to link with the final decision with respect to the desired outcome of dental treatment.
4. The student is able to synthesize knowledge to offer a proper solution to the situation during a clinical or experimental work and to evaluate the credibility of the solutions.

Literature



Kenneth M. Hargreaves and Stephen Cohen (2010). *Cohen's Pathways of the Pulp*, Available from: <http://www.expertconsultbook.com>



Cameron A C, Widmer RP. (2008). *Handbook of pediatric dentistry*, ; New York : Mosby



Torabinejad M, Walton RE (2009). *Endodontija: Načela i praksa*, Zagreb. Naklada Slap



Fuks AB (2002). *Current concepts in vital primary pulp therapy*, Eur J Paediatr Dent.



Hørsted-Bindslev P, Bergenholtz G. (2010). *Treatment of vital pulp conditions. In: Reit C, Bergenholtz G, Hørsted-Bindslev P. Textbook of endodontology. 2nd ed.*, Wiley-Blackwell

Additional Literature



Jefferies S (2014). *Bioactive and Biomimetic Restorative Materials: A Comprehensive Review. Part I.*, JERD



Jefferies S (2014). *Bioactive and Biomimetic Restorative Materials: A Comprehensive Review. Part II.*, JERD



Goldberg M (2014). *The Dental Pulp: Biology, Pathology, and Regenerative Therapies.*, Berlin-Heidelberg: Springer-Verlag



Damle SG, Bhattal H, Loomba A. (2012). *Apexification of anterior teeth: A comparative evaluation of mineral trioxide aggregate and calcium hydroxide paste.*, J Clin Pediatr Dent.



Welbury R, Duggal MS, Hosey MT. (2012). *Paediatric Dentistry*, Oxford University Press, Oxford

Clinical and instrumental analysis of stomatognathic system

39



PDS-D

Lecturer in Charge



Izv. prof. dr.sc.
Sonja Kraljević-
Šimunković

ECTS Credits	3
English Level	L2
E-learning Level	L1
Study Hours	
Lectures	5
Practicals	10

Grading

Prije usmenog ispitivanja potrebno je obaviti praktični dio nastave

Course Description

Several studies have been conducted in recent years in order to collect as much as possible information on the signs, course and frequency of temporomandibular disorders. In patients with TMD it includes making a specific diagnosis, and it is necessary to be carried out for each patient before his or her dental or orthodontic treatment. Common characteristics often cannot be established between clinical results achieved by conventional methods, which include examination of active mobility of the mandible and muscle palpation, and health history data collected from patients. During clinical examination special attention is paid to disorders in tooth arrangement, abrasion, periodontal lesions, dyskinesia, change in muscle tonus, coordination disorders, lesions of the temporomandibular joint, capsulitis, compressions of the temporomandibular joint, reduction of muscles, myofascial pain and changes in body posture. For the purpose of causal therapy it is also necessary to include specific causes of changes in disordered neuromuscular programming. Only differentiated diagnostic protocol can resolve the ever-present philosophical discussion on etiologic factors (occlusion versus psychic factors) that cause and develop temporomandibular disorders. In the specific diagnosis of temporomandibular disorders modern methods of electronic axiography and nuclear magnetic resonance are used. The reversible therapy of TMD is conducted by means of various occlusal splints.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Define causes of functional disorders of craniomandibular system
2. Identify potential risk group of patients according to signs and symptoms of tmd
3. Reproduce the method of manual function analysis
4. Identify the need of reversible occlusal splint therapy

General Competencies

#NAME?

Literature



Bumann A. Lotzmann U (2002). *Bumann A. Lotzmann U. Funktionsdiagnostik und Therapieprinzipien.* Georg Thieme Verlag Stuttgart. New York. 2000., Thieme Verlag



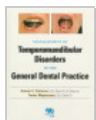
Kraljević K (1991). *Kraljević K. Anatomija i fiziologija okluzije.* Globus. Zagreb 1991.



Bauer A. Gutowski A (1984). *Bauer A. Gutowski A. Gnathologie. Einfuehrung in Theorie und Praxis.* Quintessenz Verlags-GmbH. Berlin 1984., Quintessenz



Kraljević. Sonja; Pandurić. Josip; Badel. Tomislav; Dulčić. Nikša. (2003). *Kraljević. Sonja; Pandurić. Josip; Badel. Tomislav; Dulčić. Nikša. Bilježenje i mjerenje kretnje otvaranja i zatvaranja usta i rotacijskog kapaciteta mandibule metodom elektro ničke aksio grafije.* Collegium Anthropologicum. 27 (2003.). 2; 51-59., Collegium Anthropologicum



Carlsson GE (1999). *Carlsson GE. Management of temporomandibular disorders in the general dental practice.* Quintessence Publishing Co.. Inc. 1999, Quintessenz

Additional Literature



Dulčić. Nikša; Pandurić. Josip; Kraljević. Sonja; Badel. Tomislav; Čelić. Robert (2003). *Dulčić. Nikša; Pandurić. Josip; Kraljević. Sonja; Badel. Tomislav; Čelić. Robert. Frequency of internal derangement of the temporomandibular joint in elderly individuals. // European Journal of Medical Research.* 8 (2003). 10; 465-471., European Journal of Medical Research



Piehslinger E. Celar A. Celar R. Slavicek R (1992). *Piehslinger E. Celar A. Celar R. Slavicek R: Elektronische Axiographie – Prinzip und Methodik.* Zeitschrift für Stomatologie. Springer-Verlag 1992, J Craniomand Disord Facial Oral Pain



Gsellmann B. Schmid-Schwap M. Piehslinger E. Slavicek R (1998). *Gsellmann B. Schmid-Schwap M. Piehslinger E. Slavicek R. Lengths of condylar pathways measured with computerised axiography (CADIAX) and occlusal index in patients and volunteers.* J Oral Rehabil 1998; 25 (2):146-52., Journal of oral rehabilitation

1050

Clinical and radiological examination of the success of implant-prosthetic treatment in completely edentulous patients

Lecturer in Charge



Izv. prof. dr.sc.
Robert Čelić

Course Description

Implant-prosthetic therapy, today, is the standard form of prosthetic rehabilitation of patients with partial and complete loss of teeth. However, implant-prosthetic rehabilitation of completely edentulous patients, as socially and psychologically disabled persons (according to the WHO), it seems almost revolutionary breakthrough in our profession regarding improved functionality and quality of life of the same.

The purpose of this subject is to introduce and teach dentists and specialists of certain branches (primarily oral surgery and dental prosthetics, or other) to treat totally edentulous patients by means of implant-prosthetic restorations through standardized diagnostic and therapeutic procedures.

Through lectures and seminars students will learn about the consequences of complete loss of teeth as a result of the aging process but also wearing complete dentures. This dynamic state has its biomechanical repercussions on the entire masticatory system. The introduction of dental implants and the idea of osseointegration in oral rehabilitation of completely edentulous patients also bring new biomechanical moments concerning fixed and removable implant-prosthetics, knowledge and modifications of occlusal concepts for implant-prosthetic restorations and select the appropriate restorative biomaterials. Using diagnostic algorithms and the necessary knowledge, students will be able to learn and follow the process of planning and fabrication of fixed and removable implant-prosthetic restorations in completely edentulous patients from simple to more complex clinical cases.

Practical (working) part of the subject consists of learning and the adoption of standard diagnostic and therapeutic clinical laboratory procedures necessary for prosthetic rehabilitation of completely edentulous patients. This includes the use of modern software for the planning of implant-prosthetic therapy, performance impression techniques (with open or closed tray or their modifications), determination of the jaw relations in implant-prosthetic patients, selection of the appropriate abutments and retention-stabilization elements necessary for the fabrication of fixed and removable implant-prosthetic restorations. Finally, it is important a system of maintenance, as well as identification and remediation of the complications of these types of implant-prosthetic restorations.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

ECTS Credits 4.0

English Level L3

E-learning Level L2

Study Hours

Lectures 3

Practicals 10

Seminars 7

Grading

The exam is consisted of: - practical test as a precondition for written exam: - on the basis of clinical cases (up to 5 cases) candidate will be given the opportunity to plan the implant-prosthetic restorations in completely edentulous patients with the help of radiological images (panoramic or 3D CBCT) and the appropriate software for planning - final seminar essay as a precondition for written exam - written exam (candidate is considered successful if he/she achieves result higher than 70%).

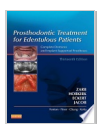
PDS-D

Learning Outcomes

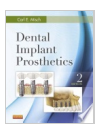
On successful completion of the course, students will be able to:

1. Recognize the consequences of complete edentulism in context of the masticatory system and to learn about diagnostic methods necessary for the planning of the implant-prosthetic restorations (fixed and removable) in completely edentulous patients
2. To plan fixed and removable implant-prosthetic restorations through the different loading protocols (delayed, early and immediate) in both jaws
3. To get to know and adopt clinical laboratory phases of the fabrication of fixed and removable implant-prosthetic restorations in completely edentulous patients
4. To become familiar with complex forms of implant-prosthetic treatment in completely edentulous patients (eg. the All-on-four system or using Zygoma implants in extremely atrophic upper edentulous jaw)

Literature



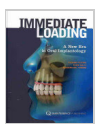
George A. Zarb, John Hobkirk, Steven Eckert, Rhonda Jacob (2013). *Prosthetic Treatment for Edentulous Patients*, Elsevier Health Sciences



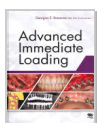
Carl E. Misch (2014). *Dental Implant Prosthetics*, Elsevier Health Sciences



Dean Morton, Jeffrey Ganeles, Daniel Buser (2008). *Loading Protocols in Implant Dentistry*, Quintessence Publishing Company



Tiziano Testori, Fabio Galli, Massimo Del Fabbro (2011). *Immediate Loading*, Quintessence Publishing Company

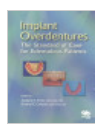


Georgios Romanos (2012). *Advanced Immediate Loading*, Quintessence Publishing (IL)

Additional Literature



Per-Ingvar Brånemark, Shu Chien (2005). *The Osseo integration Book*, Quintessence Publishing Company



Jocelyne S. Feine, Gunnar E. Carlsson (2003). *Implant Overdentures*, Quintessence Publishing (IL)



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Galasso L, Favero GA (2013). *Atlas komplikacija i neuspjeha u dentalnoj implantologiji*, Zagreb, Media ogled



Bayer G, i sur (2012). *Imedijatni nadomjestci na manjem broju implantata. Znanstveni koncept i klinički rezultati*, Zagreb, Media ogled

Conventional and digital cephalometry in orthodontics

1



PDS-

D

Lecturer in Charge



Prof. dr.sc.
Marina Lapter
Varga

ECTS Credits	4
English Level	L2
E-learning Level	L1
Study Hours	
Lectures	7
Practicals	9
Seminars	4

Grading

Students have to pass theoretical and practical examination.

Course Description

Classes are performed through seminars where the students get information about the theoretical contents of the subjects. They learn about the importance and purpose of cephalometric diagnosis in orthodontics, and about the most important dental and skeletal variables of different analysis.

On the x-ray films students practise drawing basic cephalometric and anthropometric points, angles and linear measures required for conventional cephalometric analysis.

Possibilities of saving, processing and transferring cephalograms into the computer, and possibilities of the computer processing of the cephalograms, are performed on scanned cephalograms of patients, so that students can acquire such knowledge /skills/.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

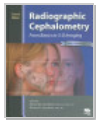
On successful completion of the course, students will be able to:

1. List the main goals of cephalometry
2. Define the most relevant skeletal and dental parameters
3. Apply cephalometric analysis in diagnostic procedure.
4. Define main advantages of digital cephalometry.
5. Apply variables for determination of dental and skeletal relationships.

General Competencies

Students should learn about cephalometric analysis for research in orthodontics. to be able to make cephalometric tracing and diagnosis alone. To explain the methods for follow up growth and development and the scientific use of analysis. To understand the basics of computer software program (Dolphin imaging). and the methods of saving, processing and transferring cephalograms into the computer

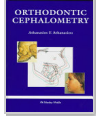
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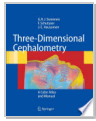


William R. Proffit, Henry W. Fields, Jr., David M. Sarver (2012). *Contemporary Orthodontics - Pageburst E-Book on Kno (Reil Access Card)*, Mosby Incorporated



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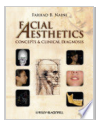
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Gwen R.J. Swennen, Filip A.C. Schutyser, Jarg-Erich Hausamen (2005). *Three-Dimensional Cephalometry*, Springer Science & Business Media



Herman S. Duterloo, Pierre-Georges Planché (2011). *Handbook of Cephalometric Superimposition*, Quintessence Publishing Company



Farhad B. Naini (2011). *Facial Aesthetics*, John Wiley & Sons

Correlations and connections between the diseases of mouth and teeth and cardiovascular and gastrointestinal diseases

Lecturer in Charge



Prof. dr.sc.
Neven Ljubičić

ECTS Credits	3
English Level	L2
E-learning Level	L2
Study Hours	
Lectures	2
Practicals	5
Seminars	8
Grading	
Written exam.	

Course Description

It is not uncommon for certain cardiovascular diseases and especially gastrointestinal diseases to have first clinical manifestations involving the oral cavity and teeth, sometimes up to 2 years before any other manifestations of the disease. The goal of our postgraduate course is to point out such diseases and to show to which degree certain cardiovascular and gastrointestinal diseases can be related to changes that can be observed in oral cavity. Furthermore, we'd like to emphasize and show certain lesion involving oral mucosa and teeth that can be related to standard therapy for some cardiovascular and gastrointestinal diseases. Our subject will also try to encompass contraindications and cautions when performing certain dental procedures in relation both to certain cardiovascular and gastrointestinal diseases and their therapy (i.e. anticoagulant therapy and tooth extraction). Postgraduates will also receive guidelines for future studies involving the cardiovascular and gastrointestinal diseases and their possible oral manifestations.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Define changes on the teeth and oral cavity in digestive and cardiovascular diseases
2. Define and know to evaluate changes in the oral cavity that can occur as a side effect of medication
3. Identify and argue prophylaxis of endocarditis and hepatitis

General Competencies

We expect that the postgraduates, upon finishing our course, will be able to recognize certain cardiovascular and gastrointestinal diseases and will therefore know how to adequately direct their patient. Also, we expect that, given the insight into pathophysiology behind the said diseases and their oral manifestations, they'll receive a strong base for current and future scientific studies.

Literature



Dubravko Petrač (2009).
Interna medicina, Medicinska
naklada Zagreb



Marinka Mravak Stipetić
(2006). *Burketova oralna
medicina: dijagnoze i liječenje*,
Medicinska naklada Zagreb



Božidar Vrhovac. Igor
Francetić. Branimir Jakšić.
Boris Labar. Boris Vucelić
(2008). *Interna medicina*,
Naklada Ljevak Zagreb

Dental Implant Design

1005



Lecturer in Charge



Izv. prof. dr.sc.
Andrija Bošnjak

ECTS Credits	2
English Level	L3
E-learning Level	L1
Study Hours	
Practicals	2
Seminars	8

Course Description

During the course of the subject we shall encompass following themes: "machined" implants, modified surface implants, different procedures of obtaining the roughness, and basic procedures used for defining the topography: shape, waviness and roughness. Microstructures and nanostructures on the implant surface will be discussed briefly. Basics of different procedures will be explained, and some of the published information will be discussed. First two seminars will be focusing on alloys used, mostly titanium and titanium alloys. The advantages and disadvantages of commercially pure titanium and Ti-6Al-4V alloy will be discussed. Third seminar will include characteristics of the surface and tissue reaction to titanium and titanium alloys as well as measuring and evaluation of the surface regarding the shape, waviness and roughness. During the fourth seminar we will discuss the parameters of the amplitude and space distribution (Sa, Sm, Scx) in detail, and the comparison of contemporary implant systems regarding the analysis of the microstructures and nanostructures on their surface will be performed. Sixth seminar will include osseointegration in comparison to different surfaces, from "machined" to modern, "enhanced" surfaces enriched with different elements. Finally, seventh and eighth seminar will include an analysis of implant systems on the market regarding implant-to-abutment connections and a rationale of different connections regarding clinical, prosthetic viewpoint.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. The students should learn about the basic terminology used in describing surface topography of dental implants, to learn to differentiate "machined" from modified surface.
2. The students should be able to critically analyze implant systems on the market regarding the material and surface.
3. The candidates should be able to form their own opinion regarding the flat and conical interfaces, together with their advantages and disadvantages.
4. They should be able to assess the justification of "platform switch" from the clinical, histological and biomechanical viewpoint.

Literature



Lindhe J i sur. (2010). *Klinička parodontologija i dentalna implantologija*, Zagreb: Globus



Misch CE i sur. (1999). *Contemporary Implant Dentistry*, St Louis: Mosby

Additional Literature



Wennerberg A. (2003). *Implant design and surface factors*, Int J Prosthodont



Cooper LF, Deporter D, Wennerberg A, Hämmerle C. (2005). *What physical and/or biochemical characteristics of roughened endosseous implant surfaces particularly enhance their bone-implant contact capability?*, Int J Oral Maxillofac Implants



Meirelles L, Arvidsson A, Albrektsson T, Wennerberg A. (2007). *Increased bone formation to unstable nano rough titanium implants.*, Clin Oral Implants Res.



Coelho PG, Bonfante EA, Pessoa RS, Marin C, Granato R, Giro G, Witek L, Suzuki M. (2011). *Characterization of five different implant surfaces and their effect on osseointegration: a study in dogs.*, J Periodontol



Albrektsson T, Wennerberg A. (2004). *Oral implant surfaces: Part 2 – review focusing on clinical knowledge of different surfaces.*, Int J Prosthodont

Dental Profiling

15

Lecturer in Charge



Prof. dr.sc.
Hrvoje Brkić

ECTS Credits	4
English Level	L2
E-learning Level	L2
Study Hours	
Lectures	3
Practicals	5
Seminars	12

Course Description

Determination of dental age and sex represent an essential and the most demanding task in the procedure of the determination of the identity of an unknown human body. More than 100 different morphological characteristics are recorded in the human dentition. The microstructures and macrostructures of the solid dental tissues (dental enamel, dentine and dental cement) as well as the x-rays and radioviziographic dental slides will be analyzed within this research project with the final aim of the exact dental age and sex determination. The base for the continuous vertical and horizontal monitoring of the dental characteristics of the population from this geographical area through history will be established based on the registration of dental characteristics and the analysis and standardization of the procedures. The following procedures will be used in the analysis of the anthropometrical and laboratory results: multivariate statistical procedure. plus. when and if needed. also non-parametrical analytical methods. According to the achieved results in this research. same procedures will be applied for the determination of the identities of the living persons. as well as for the determination of the identities of the unknown human remains. They will also be used for the putting together of the dental profile on the osealodental samples of the archaeological material on the territory of the Republic of Croatia since the antique period.

Study Programmes

» Postdoctorate Study (*methodological courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Dental age determination
2. Gender determination
3. Race determination

General Competencies

Every student after this subject must to determine dental age and gender using scientific models and results.

Literature



Brkić H. i suradnici. *Forenzička stomatologija*. Zagreb: Školska knjiga. 2000.



Brkić H. Milicević M. Petrovečki M. *Age estimation methods using anthropological parameters on human teeth - (A0736)*. *Forensic Sci Int.* 2006;162(1-3):13-6.



Cameriere R. Ferrante L. Liversidge HM. Prieto JL. Brkić H. *Accuracy of age estimation in children using radiograph of developing teeth*. *Forensic Sci Int.* In Press. Corrected Proof. Available online 18 October 2007



Hugo F. Cardozo V. *Accuracy of developing tooth length as an estimate of age in human skeletal remains: The deciduous dentition*. *Forensic Sci Int.* 2007; 172(1.)17-22.



Olze A. Ishikawa T. Zhu BL. Schulz R. Heinecke A. Maeda H. Schmelting A. *Studies of the chronological course of wisdom tooth eruption in a Japanese population*. *Forensic Sci Int.* In Press. Corrected Proof. Available online 4 June 2007

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Wood RE. *Forensic aspects of maxillofacial radiology*. *Forensic Sci Int.* 2006;159(Suppl 1)S47-S55.



Solheim T. Vonen A. *Dental age estimation. quality assurance and age estimation of asylum seekers in Norway*. *Forensic Sci Int.* 2006;159(Suppl 1)S56-S60.



Yang F. Jacobs R. Willems G. *Dental age estimation through volume matching of teeth imaged by cone-beam CT*. *Forensic Sci Int.* 2006;159(Suppl 1)S78-S83.



Yaar M. Kedici SP. *Sexual variation in bucco-lingual dimensions in Turkish dentition*. *Forensic Sci Int.* 2003;137(2-3)160-164.

Determination of fluoride in human enamel after treatment with topical fluoride agents

34



PDS-D

Lecturer in Charge



Kristina Peroš

ECTS Credits	3.0
English Level	L3
E-learning Level	L1
Study Hours	
Lectures	3
Practicals	6
Seminars	6

Grading

forms of testing the knowledge is oral

Course Description

The mechanisms of action of topical fluoride in caries prevention. Physicochemical aspects of fluoride-enamel interactions. The role of calcium fluoride and fluorapatite on the demineralization/remineralization. Distribution of fluoride in hard dental tissues. Dose-response relationship of fluoride. The factors which can influence on the determination of dose and its useful/adverse effect. Fluoride in oral fluids and dental plaque. The relationship between fluoride concentration in the topical fluoride agents, their acidity, the frequency of application and calcium availability on the formation of alkali soluble and structurally bound fluoride in enamel.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Define possible mechanisms of action of fluoride in caries prevention.
2. Describe the role of calcium fluoride and fluorapatite on processes of demineralization and remineralization of teeth.
3. Select fluoride ion selective electrode for the determination of fluoride in solution
4. Identify the amount of "firmly" and "loosely" bound fluoride after topical application of fluoride.
5. Outline plan and design of new investigation that will generate new knowledge and their application.

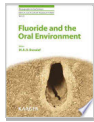
General Competencies

It is expected from the attendants that the knowledge they've gained can apply for better understanding and overcoming the problems in their field of research. That will be useful for compiling their PhD thesis.

Literature



Ole Fejerskov, Jan Ekstrand,
Brian A. Burt (1996). *Fluoride in
Dentistry*, Wiley-Blackwell

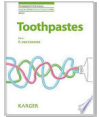


Marilia Afonso Rabelo Buzalaf
(2011). *Fluoride and the Oral
Environment*, Karger Medical
and Scientific Publishers



Linčir i sur. (2011).
Farmakologija za stomatologe,
Medicinska naklada

Additional Literature



C. van Loveren (2013).
Toothpastes, Karger Medical
and Scientific Publishers



James R. Mellberg, Louis W.
Ripa (1983). *Fluoride in
preventive dentistry*,
Quintessence Pub Co

Digital gnathometrics and CAD CAM assisted treatment in orthodontics

99



PDS-

D

Lecturer in Charge



Izv. prof. dr.sc.
Martina Šlaj

ECTS Credits	3
English Level	L1
E-learning Level	L1
Study Hours	
Lectures	2
Practicals	6
Seminars	7

Grading

To attend the exam, it is necessary to present two recent studies on the subject.

Course Description

Different methods of 3D view of dental arches, as well as jaw structures that are important in gnathometric analysis, will be presented. X-ray procedures with a special emphasis of Cone beam CT, 3D laser scanning and stereophotogrammetric methods will be elaborated. The possibilities of dental arches and jaw digitizing will be analyzed as well as computer display of the structures. The emphasis will be on the structures of upper and lower jaw, teeth and dental arches. Students will be introduced to computer assisted research on digital objects. They will be instructed on scanning of different 3D objects using the most contemporary 3D scanners. The studies from the most recent literature using 3D digital technology, will be analyzed by students.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Analyze scanning of different 3D objects using the most contemporary 3D scanners.
2. Apply computer assisted research on digital objects

General Competencies

Theoretical knowledge of 3D display of dental arches and jaw structures that are relevant in gnathometrics is expected. It is also expected the understanding of x-ray methods, especially CBCT and 3D scanning. Students should understand the digital view of dental structures and basic usage of software, that will make possible the research in this field.

Literature



Proffit WR, Fields HW, Sarver D M. *Contemporary orthodontics*. 4th edition. Mosby; 2006.



Asquith J, Gillgrass T, Mossey P. *Three-dimensional imaging of orthodontic models: A pilot study*. *Eur J Orthod*. 2007; 29(5):517-22.



Dalstra M, Melsen B. *From alginate impressions to digital virtual models: accuracy and reproducibility*. *J Orthod*. 2009 Mar;36(1):36-41; discussion 14.

Additional Literature



Zilberman O, Huggare JAV, Parikakis KA. *Evaluation of the validity of tooth size and arch width measurements using conventional and three-dimensional virtual orthodontic models*. *Angle Orthod*. 2003; 73:301-306.



Quimby ML, Vig KWL, Rashid RG, Firestone AR. *The accuracy and reliability of measurements made on computer-based digital models*. *Angle Orthod*. 2004; 74:293-303.



Hajeer MJ, Millett DT, Ayoub AF, Siebert JP. *Applications of 3D imaging in orthodontics: Part I*. *J Orthod*. 2004; 31:62-70.



Hajeer MJ, Millett DT, Ayoub AF, Siebert JP. *Applications of 3D imaging in orthodontics: Part II*. *J Orthod*. 2004; 31:154-62.



Rangel FA, Maal TJ, Bergé SJ, van Vlijmen OJ, Plooi JM, Schutyser F, Kuipers-Jagtman AM. *Integration of digital dental casts in 3-dimensional facial photographs*. *Am J Orthod Dentofacial Orthop*. 2008 Dec;134(6):820-6.



Keating AP, Knox J, Bibb R, Zhurov AI. *A comparison of plaster, digital and reconstructed study model accuracy*. *J Orthod*. 2008 Sep;35(3):191-201; discussion 175.

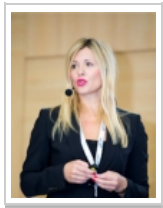


Alcan T, Ceylano Ğlu C, Baysal B. *The relationship between digital model accuracy and time-dependent deformation of alginate impressions*. *Angle Orthod*. 2009 Jan;79(1):30-6.

Digital radiological imaging of the H&N tumors

1060

Lecturer in Charge



Doc. dr.sc.
Dijana Zadravec

ECTS Credits	3.0
English Level	L3
E-learning Level	L1
Study Hours	
Lectures	3
Practicals	6
Seminars	6
Grading	
Oral exam	

Course Description

To represent possibilities of digital radiological imaging methods in the analysis of head and neck tumors in clinical practise and science. To confirm radiological algorithms in diagnostics of the head and neck tumors. To represent diferential diagnosis of the head and neck disease. To learn basics of neuroscience.

Study Programmes

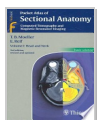
» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. To select appropriate radiological method of head&neck tumors patients. Accurate indications for radiological diagnostic procedure.
2. To differentiate pathological changes and connect with clinical symptoms and tests
3. To learn about possibilities of advanced radiological imaging in neuroscience.

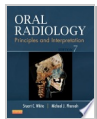
Literature



Torsten B. Möller, Emil Reif (2007). *Pocket Atlas of Sectional Anatomy: Head and neck*, Thieme

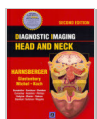


Robert Hermans (2012). *Head and Neck Cancer Imaging*, Springer Science & Business Media



Stuart C. White, Michael J. Pharoah (2014). *Oral Radiology*, Elsevier Health Sciences

Additional Literature



H. Ric Harnsberger (2011). *Diagnostic Imaging*, Amirsys Incorporated



Judaš M, Kostović I. (1997). *Temelji neuroznanosti*

Endodontic surgery: contemporary approach, methods and materials

117



PDS-D

Lecturer in Charge



Izv. prof. dr.sc.
Zoran Karlović

ECTS Credits	4
English Level	Lo
E-learning Level	L1
Study Hours	
Lectures	5
Practicals	6
Seminars	9

Grading

Assesment based on oral examination and seminar work

Course Description

Participants are going to be informed about latest scientific knowledge regarding endodontic surgery. The newest methods and techniques will be described as well as their advantages compared to old techniques. We will explain indications for these surgical procedures based on modern knowledge about physiological and pathohistological processes in periradicular tissue before and after surgery. with emphasis on differences in tissue healing with or without bone augmentation. The use of different materials for retrograde cavity will be also of our concern . The candidates will be informed about advantages brought by use of lasers and ultrasonic equipment as well as use of ozone. The students will be informed about replantation surgery. The students will be informed about modern approach in psychopharmacological treatment of pain and psychosomatic reaction in endodontic surgery.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Define scientific research from the field of endodontic surgery
2. Define the most appropriate form of research for the target topic

General Competencies

The students will be well educated about indications. techniques. materials and complications in endodontic surgery.

Literature



Torabinejad M. Walton RE. (2008). *Endodontics: Principles and Practice*, 4th ed. Philadelphia: WB Saunders company



Cohen S. Hargreaves KM. (2005). *Pathways of the pulp*, 9th ed. St. Louis: CV Mosby.



Ingle JI. Bakland LK. (2002). *Endodontics*, . Fifth Edition. Philadelphia: B.C. Decker.

Additional Literature



Karlovic Z. (2002). *Usporedba Er:YAG lasera s ultrazvukom pri izradbi retrogradnih kaviteeta*. Disertacija; 2002., Disertacija; SFZG



Grgurevic J. Grgurevic L. Miletic I. Karlovic Z. Krmek SJ. Anic I. (2005). *In vitro study of the variable square pulse Er:YAG laser cutting efficacy for apicectomy*, Lasers Surg Med. 2005; 36(5): 347-50.



Grgurevic L. (2006). *Er:YAG laser u izradi retrogradnih kaviteta*, Diplomski rad, SFZG



Karlovic Z. Pezelj-Ribaric S. Miletic I. Jukic S. Grgurevic J. Anic I. (2005). *Erbium:Yag laser versus ultrasonic in preparation of root-end cavities*, J Endod. 2005 Nov;31(11):821-3



Škaričić J, Matijević J, Karlović Z, Medvedec I. (2010). *Endodontska kirurgija: apikotomija, tehnike izrade retrogradnog kaviteta i materijali za retrogradne ispun*, Sonda 2010;11(20)



Baltić, Nenad; Paris, Simeon; Matijević, Jurica; Repić, Dario; Karlović, Zoran; Jukić Krmek, Silvana. (2011). *Patient satisfaction with endodontic treatment*, ESE Research abstracts / Rome, 2011



Karlović, Zoran; Katanec, Davor; Verzak, Željko; Blažić Potočki, Zita. *Implant options after vertical root fracture of endodontically treated teeth – a case reports //ESE abstracts / Lisabon, 2013 (2013). Implant options after vertical root fracture of endodontically treated teeth, /ESE abstracts / Lisabon, 2013*



Karlović Z, Grgurević L, Verzak Z, Modrić VE, Sorić P, Grgurević J. (2014). *Effectiveness of Er: YAG laser in cavity preparation for retrograde filling - In vitro study*, Acta Clin Croat. 2014 Jun;53(2):184-9



Sorić L. (2014). *Materijali u endodontskoj kirurgiji*, Diplomski rad, SFZG



Šuligoj B. (2014). *Postupci u endodontskoj kirurgiji*, Diplomski rad, SFZG

Epidemiological and systemic aspects in the epidemiology of periodontal diseases

6



PDS-D

Lecturer in Charge



Prof. dr.sc.
Darije Plančak

ECTS Credits	3
English Level	Lo
E-learning Level	L1
Study Hours	
Lectures	5
Practicals	5
Seminars	5

Course Description

Epidemiological procedures which are used in the research of the etiology of periodontitis. Systemic aspects of the onset of rapid forms of periodontitis (aggressive periodontitis). General conditions and diseases and periodontitis (sex hormones, diabetes, nutrition, blood diseases, immunological disorders-HIV, certain drugs: dilantin, cyclosporin, nifedipin). Genetic disorders and periodontal diseases (hypophosphatasia, Syndrome Papillon-Lefevre, Down syndrome). Periodontal medicine-“periodontal diseases as risk factors for systemic diseases and conditions”. Cardiovascular diseases and periodontitis (atherosclerosis, coronary heart diseases, ischemic miokard). Periodontitis and respiratory diseases. Smoking and periodontitis. Diabetes mellitus and periodontitis (mechanism of diabetes on the periodontium, influence of periodontitis on the glycemic control in diabetes). Specifics of diagnostics and therapy of periodontal diseases in systemically diseased patients. Systemic treatment in aggressive periodontitis.

Study Programmes

» Postdoctorate Study (branch courses, 1st semester, 1st year)

General Competencies

Knowledge of the etiology of periodontal diseases. Role of systemic diseases in the etiology of periodontal. Risk factors in periodontal diseases. Influence of periodontal diseases on general health. Diagnostics of periodontal diseases.

Literature



Lindhe J. Clinical Periodontology and Implant Dentistry. 4th ed. Munksgaard. 2004.



Carranza F. Jr. Textbook of Clinical Periodontology. 10th ed. WB Saunders. 2006.



Rose. Genco. Mealey. Cohen. Periodontal Medicine. BC Decker Inc. 2000.



Offenbacher S et al. World Workshop in Clinical Periodontics. Ann Periodontol 1996.



Williams. Cohen. Offenbacher. Genco et al. Periodontal Aspects of Systemic Health. Compendium 2001.

Epidemiological methods in research

175



Lecturer in Charge



Izv. prof. dr.sc.
Zlatko Ulovec

ECTS Credits 4

English Level L2

E-learning Level L1

Study Hours

Lectures 5

Practicals 10

Seminars 5

Grading

The use of epidemiological methods in personal research: examination task, result

Course Description

The place and the role of epidemiology in dental and medical practice; specificities of epidemiological research. General epidemiological principles: individual, time, location – epidemiological concept of causality. Sources of data for epidemiological studies and public health work. Incidence and prevalence of the disease. The use of measures of incidence and prevalence. Risk and causality. Descriptive and analytical methods. Scientific approach to epidemiology. Epidemiological research and planning of experiments – methods: case report, case series, studies of incidence and prevalence, prospective and retrospective studies, cohort studies, case-control studies, cross-sectional studies, controlled clinical trial, controlled field trial. Selection of samples, determining sample size. Ensuring the population turn-out. Systematic review of literature and meta-analysis. Errors in epidemiological studies (accidental and systematic). Selection of the appropriate study design.

Study Programmes

» Postdoctorate Study (*methodological courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Define the sample and determine the sample size
2. Select, plan and implement the most suitable epidemiological method in the research

General Competencies

The participant will understand basic factors connected with health from the population perspective and will be able to monitor the occurrence of health phenomena in epidemiological relations. He/She will know how to use basic epidemiological analyses, in order to determine causal results of correlation and to monitor and investigate the effects of health interventions on the observed occurrence of certain health related problems.

Literature



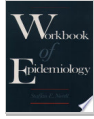
Babuš V. (1997). *Epidemiologija*, Medicinska naklada



Fletcher RH, Fletcher SW, Wagner EH. (1996). *Clinical Epidemiology. the Essentials*, Lippincott Williams & Wilkins

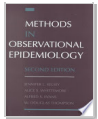


Rothman KJ, Greenland S, Lash TL. (2008). *Modern epidemiology*, Lippincott Williams & Wilkins



Norell SE. (1995). *Woorkbook ofepidemiology*, Oxford University Press, USA

Additional Literature



Kelsey JL, Whittemore AS, Evans AS, Thompson WD. (1996). *Methods in observational epidemiology*, Oxford University Press, USA

Epidemiology of caries activity in adolescents

70



Lecturer in Charge



Izv. prof. dr.sc.
Željko Verzak

ECTS Credits 3

English Level Lo

E-learning Level L1

Study Hours

Lectures 5

Practicals 5

Seminars 5

Grading

Assesment based on oral examination and seminar work

Course Description

The course introduces students to the fundamentals of caries epidemiology, caries etiological factors as well as specific oral parameters in the adolescent population. Students will gain insight to epidemiological methods used for monitoring high risk caries patients. They will learn how to use and analyze various indexes of oral health and oral hygiene. They will also learn the planning of required treatment as well as making individual preventive programs based upon scientific facts. As part of their seminar classes, students will orally present individual caries preventive programs appropriate for adolescents.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Define scientific research from the field of epidemiology in DM
2. Define most appropriate form of the research for the target topic

General Competencies

Students are expected to have the theoretical and practical knowledge of the epidemiology of caries activity in adolescents. In addition, they are expected to know scientific evaluation of results of epidemiological studies linked to etiology, diagnostic methods and the classification of caries lesions, as well as making individual preventive programs.

Literature



Fejerskov O. Kidd EAM. *Dental Caries: The Disease and Its Clinical Management*. Blackwell Munksgaard. 2005.



Koch G. Poulsen S. *Pediatric dentistry: a clinical approach*. Blackwell Munksgaard. 2001.

Additional Literature



McDonald R. Avery D. Dean J. *Dentistry for the child and adolescent*. Mosby. 2004.



Studen-Pavlovich D. Ranalli D. *Adolescent oral health, an issue of dental clinics*. Elsevier Health Sciences. 2006.

Epidemiology of dental erosion among adolescents

69



PDS-D

Lecturer in Charge



Prof. dr.sc.
Ivana Čuković
Bagić

ECTS Credits	3
English Level	L1
E-learning Level	L1
Study Hours	
Lectures	5
Practicals	2
Seminars	8
Grading	
Presentation	

Course Description

Presentation of epidemiology of dental erosion in adolescents and presentation of conducting epidemiological research in this field. Evaluation of validity of a model for the definition of dental erosion and its prevention. Evaluation of validity of new scientific methods (laboratory and clinical) for monitoring of dental erosion progress. Evaluation of the erosive potential of the most frequently consumed food and drinks in adolescent age. Evaluation of new scientific methods required for the adequate clinical approach and for dental erosion prevention. Through the seminars, students will present their own idea of a scientific research in the field of dental erosion, as well as a prevention program based on current scientific knowledge. At tutorials, the students will be introduced into the performance of laboratory tests and methods related to confirming the dental erosion status.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

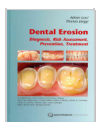
On successful completion of the course, students will be able to:

1. Define the term of dental erosion
2. Analyze the value of laboratory and clinical methods for monitoring of dental erosive process
3. Identify the erosive potential of food and drinks

General Competencies

The students are expected to possess the knowledge of epidemiology of dental erosion in adolescents. In respect of the evaluation of scientific epidemiological methods valid for the diagnostics of dental erosion. It is further expected that based on the evaluation of diagnostic parameters they can create a scientifically based preventive program for the prevention of erosive lesions on dental hard tissues of young population.

Literature



Adrian Lussi, Thomas Jaeggi (2011). *Dental Erosion*, Quintessence Publishing Co Ltd

Additional Literature



Lussi A. (2006). *Dental Erosion: From Diagnosis to Therapy (Monogr Oral Sci)*, Karger Publishers, Switzerland

Epigenetics

1110

Lecturer in Charge



Izv. prof. dr.sc.
Ljiljana Šerman

ECTS Credits	3.0
English Level	L3
E-learning Level	L3
Study Hours	
Lectures	2
Practicals	6
Seminars	7

Grading

Essay based on current literature
Written exam

Course Description

The course offers students the basic knowledge of epigenetic mechanisms and the resulting consequences of their changes effecting the cells. Compared to normal tissues, there are a number of clinical entities that show changes in DNA methylation status, in the histone code or in the small interfering RNA expression. Particular emphasis will be placed on the role of epigenetic changes in etiopathogenesis of oral cancers. At the same time, students will be supplied with information on the possibility of using epigenetic markers for diagnostic and therapeutic purposes. The diagnostic use of epigenetic changes in free DNA will be covered as well. The benefits of using the free serum DNA analysis for early tumor diagnosis and for prognosis follow up will be explained. Because epigenetics today occupies a significant domain in biomedicine and encompasses vast areas engaging a large number of scientists, this course will facilitate understanding of the basis of epigenetics and epigenetic changes in health and disease. The proposed educational themes are specifically selected to enable students to study the problem on the specific cases from the original scientific research carried on for years in our laboratory. The practical part of the proposed course will enable students to detect epigenetic changes in healthy and tumor tissues, with emphasis on oral cancer samples. Students will be offered insights into the most recent research advances in this scientific domain. The emphasis will be placed on the understanding of epigenetic changes in healthy and pathological tumorous head and neck tissues. Specific course topics will be covered in lectures (“Mechanisms of epigenetic regulation of gene expression”), seminars (“Epigenetic changes in the free serum DNA”; „Epigenetic changes in saliva DNA“ and “Epigenetics of tumorous processes”) and in laboratory work (“Analysis of DNA methylation: “CRED-RA method for analysis of DNA methylation” and “MSP – methylation specific PCR”; “Analysis of gene expression at the level of RNA and protein products”).

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. To explain the theoretical basis of formation of epigenetic changes
2. To assess and compare the results of the research obtained by genetic and epigenetic analysis
3. To assess the possibility of applying the free circulating DNA analysis and compare the molecular methods used in such analysis, from genetic to epigenetic ones.
4. To integrate the analysis of epigenetic changes in understanding of etiopathogenesis of tumors.
5. To distinguish and recognize the advantages and disadvantages of using non-invasive methods in early diagnosis and follow-up monitoring of tumors

Literature



Haslberger AG, Gresler S. (2010). *Epigenetics and human health: Linging hereditary, environmental and nutritional aspects. 1st ed.*, Wiley Blackwell, Weinheim



Mikeska T, Craig JM *DNA methylation biomarkers: cancer and beyond.*, Genes (Basel)



Heitzer E, Ulz P, Geigl JB (2015). *Circulating tumor DNA as a liquid biopsy for cancer*, Clin Chem



Šerman Lj, Dodig D (2011). *Impact of DNA methylation on trophoblast function*, Clin Epigenetics. doi: 10.1186/1868-7083-3-7



Matthews AM, Kaur H, Dodd M, D'Souza J, Liloglou T, Shaw RJ, Risk JM (2013). *Saliva collection methods for DNA biomarkers analysis in oral cancer patients*, Br J Oral Maxillofac Surg

Additional Literature



Šerman Lj, Šerman A, Fabijanović D: (2011). *An in vivo rat model to study epigenetic control of cell invasion*, Med Hypotheses 76 (3)



Seo JY, Park YJ, Yi YA, Hwang JY, Lee IB, Cho BH, Son HH, Seo DG (2015). *Epigenetics: general characteristics and implications for oral health*, Restor Dent Endod



Šerman A, Vlahović M, Šerman Lj, Bulić-Jakuš F (2006). *DNA methylation as a regulatory mechanism for gene expression in mammals*, Coll Antropol

Ethics in Biomedical Research

10



Lecturer in Charge



Tonči Matulić

ECTS Credits	3.0
English Level	L2
E-learning Level	L1
Study Hours	
Lectures	9
Seminars	6

Course Description

A. Introduction to biomedical ethics. Epistemological, historical, ethical, and social dimensions of biomedical research; values in science and personal values of researcher; conflict of interest;

B. Ethical standards in biomedical research enterprise. Academic freedom and responsibility; publication and openness; allocation of credits; authorship practices; misconduct in science, errors, negligence, fabrication, falsification, plagiarism.

C. Principles of biomedical ethics; morals and ethics; ethical theory and biomedical research; types of ethical theory; principles of respect for autonomy, non-maleficence, beneficence, and justice.

D. Physician-patient relationship; rules of veracity, privacy, confidentiality, and fidelity; codes of professional conduct.

E. Ethical principles and guidelines for research involving human beings. Boundaries between practice and research. Basic ethical principles: respect for persons, beneficence, and justice; applications: informed consent, assessment of risk and benefits, selection of subjects; ethical issues concerning research on animals.

F. Ethical dilemmas: analysis of some practical cases.

G. Ethical committees: types, functions, procedures, ethical review.

Study Programmes

» Postdoctorate Study (*methodological courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Knowledge of Nature and Purpose of Biomedical Ethics
2. Knowledge of Ethical Dimensions of Profession
3. Knowledge of Ethical Argumentation
4. Recognition of Ethical Challenge in Biomedical Research

General Competencies

To describe relevant scientific conventions in biomedical researches; to describe what leads to ethical problems in the social context of practice of science; to be able to separate research behaviors into morally prohibited, required, permitted and encouraged; to be able to complete application forms submitted for the EC review.

Literature



(2012). *Matulić Tonči. 2001 (drugo izdanje). Bioetika. Zagreb: Glas Koncila.*



(2002). *Ozar. David and Sokol. David. 2002 (Second Edition). Dental Ethics at Chairside: Professional Principles and Practical Applications. Washintgon D.C.: Georgetown University Press.*



(2003). *Etika u medicinskim istraživanjima i kliničkojpraksi, Zagreb, Medicinska naklada.*



Schwarz, Lisa – Preece, E. Paul – Hendry, A. Robert (2002). *Medical Ethics: A Case-Based*



Approach, Edinburgh – London – New York, Saunders.

Additional Literature



(2007). *Sveučilište u Zagrebu, Medicinski fakultet (2007.), Medicinska etika, Zagreb, Merkur A.B.D.*



(2009). *Aramini, Michele (2009.), Uvod u Bioetiku, Zagreb, KS*



FDI World Dental Federation [Williams, R. John] (2007.), Dental Ethics Manual, http://www.hkdm.hr/pic_news/files/hkdm/PSE%20-%20final.pdf

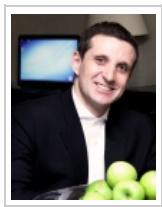
Evaluation of clinical and preventive methods of caries therapy

24



PDS-D

Lecturer in Charge



Izv. prof. dr.sc.
Walter Dukić

ECTS Credits	4
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English Level	Lo
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E-learning Level	L1
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Study Hours

Lectures	4
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Practicals	8
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Seminars	8
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Grading

oral examination

Course Description

The researches will include children up to the age of 18, parents and educators, which will be involved in educational lectures on etiology of caries and importance of nutrition on general health of the children. With the preventive procedures, which represent the top of contemporary prevention, we will try to prove the successfulness of prevention conducted in time and systematically, which in all branches of medicine and dentistry shows good results, which can be seen in 2 to 4 years, which we will show with our epidemiological studies and indexes DMF/T and DMF/S, and modern statistical methods will prove the theses on efficacy of our procedures during 4 years. By analyzing the success of described methods published in domestic and foreign scientific publications, we will prove the successfulness of our procedures. Modern preventive procedures which we will conduct are: preventive sealing of fissures with pre-treatment of the enamel, ultrasonic micropreparations, minimally invasive dentistry, and diagnostics of caries with DIAGNOdent and X-rays, and scientific indexes of their success. The research and scientific studies will prove the effect of ozone on reduction of cariogenic flora and reduction of caries and its dissemination. As the most recent form of prevention and therapy, therapy of the pulp with the laser will be used and its success will be proven with scientific and epidemiological procedures.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

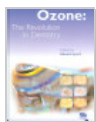
On successful completion of the course, students will be able to:

1. Identify and assess modern techniques of caries diagnosis
2. Summarize caries prevention programs
3. Compare methods of caries treatment

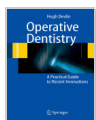
General Competencies

Mastering procedures of research, evaluation of results, correct interpretation and use, modern therapy with microinvasive devices; Healozone, DIAGNOdent, X-ray, laser, modern fissure sealing, Evaluation of therapeutic procedures, calculation of received – invested, analysis of successfulness of preventive procedures by epidemiological procedures, Individual caries prophylaxis in dental praxis, education of patients.

Literature



Lynch E. (2004). *Ozone: the revolution in dentistry*, Surrey(UK): Quintessence Publishing Co. Ltd;



Devlin H. (2006). *Operative Dentistry: A Practical Guide to Recent Innovations*, 1st ed. London(UK): Springer



Lussi A. Mergert B. Longbottom C. Reich E. Francescut P. *Clinical performance of a laser fluorescence device for detection of occlusal caries lesions*. *Eur J Oral Sci* 2001;109:14-19.



Lulić-Dukić O. (2005). *Pedodontija: Klinički pristup*, Naklada Slap



Pinkham J. (2012). *Pediatric Dentistry: Infancy Through Adolescence*, Philadelphia(USA). Mosby.

Additional Literature



Akarsu S. Koprulu H. *In vivo comparison of the efficacy of DIAGNOdent by visual inspection and radiographic diagnostic techniques in the diagnosis of occlusal caries*. *J Clin Dent*. 2006;17(3):53-8.



Qin M. Liu H. *Clinical evaluation of a flowable resin composite and flowable compomer for preventive resin restorations*. *Oper Dent*. 2005;30(5):580-7.



Dukić. Walter. Lulić Dukić O. Milardović S. Vindakijević Ž. *Clinical comparison of flowable composite to other fissure sealing materials - a 12 months study*. *Coll Antropol*. 2007(31);4:315-9.



Dukic W. Glavina D. *Clinical evaluation of three fissure sealants: 24 month follow-up*. *Eur Arch Paediatr Dent*. 2007;8(3):163-6.



Francescut P. Lussi A. *Performance of a conventional sealant and a flowable composite on minimally invasive prepared fissures*. *Oper Dent*. 2006;31(5):543-50.



Lussi A. Hellwig E. *Performance of a new laser fluorescence device for the detection of occlusal caries in vitro*. *J Dent*. 2006;34(7):467-71.



Mount GJ. Ngo H. *Minimal intervention dentistry: rationale of cavity design*. *Oper Dent* 2003; 28(1): 92-9.



Mount GJ. Ngo H. *Minimal intervention: early lesions*. *Quintessence Int*. 2000; 31(8): 535-46.



Dähnhardt JE. Jaeggi T. Lussi A. *Treating open carious lesions in anxious children with ozone. A prospective controlled clinical study*. *Am J Dent*. 2006;19(5):267-70.



Hall RK. Cameron AC. Widmer RP. editors. *Handbook of Pediatric Dentistry*. 2nd ed. London (UK): Mosby 2003.

Evaluation of dental materials in Pediatric Dentistry

1010



PDS-D

Lecturer in Charge



Prof. dr.sc.
Domagoj Glavina

ECTS Credits	5
English Level	Lo
E-learning Level	L1
Study Hours	
Lectures	6
Practicals	9
Seminars	10
Grading	
oral exam	

Course Description

Course includes following themes:

1. Materials for pulp therapy of deciduous and young permanent teeth –calcium hydroxyde, MTA, Ferric sulphate, Zinc oxide
2. Glass ionomers, Glass-based materials
3. Adhesion on hard dental tissues – principles, resources
4. Adhesive systems-clinical analysis: handling, USPHS criteria
5. Compomers
6. Composite materials
7. CAD/CAM systems: clinical analysis- polishing, USPHS criteria
8. Selection criteria for application of dental materials in deciduous teeth
9. Fissure sealing materials- analysis of preventive effect
10. Principles of esthetic reconstruction in paedodontics

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Define properties of restorative and therapeutic dental materials and their application in pediatric dentistry.
2. Define clinical principles in application of restorative dental materials for deciduous teeth.
3. Define principles of esthetic reconstruction in pediatric dentistry.
4. Define indications and application of CAD/CAM systems.
5. Define properties of ceramic materials for CAD/CAM systems.

Literature



Craig RG, Powers JM (2002). *Restorative dental materials.*, St.Louis, CV Mosby Co.



Nakabayashi N, Pashley D (1998). *Hybridization of dental hard tissues*, Quintessence Publishing Co.Ltd, Tokyo



McDonald RE, Avery DR, Dean JA (2004). *Dentistry for the Child and Adolescent*, Mosby, St.Louis



Geissberger M (2010). *Esthetic dentistry in clinical practice*, Blackwell Publishing, Singapore

Additional Literature



Schmalz G, Arenholt-Bindslev D (2009). *Biocompatibility of dental Materials*, Springer-Verlag Berlin Heidelberg

1090

Evaluation of the application of inhalation sedation in dentistry

Lecturer in Charge



Izv. prof. dr.sc.
Martina
Majstorović

ECTS Credits	3.0
English Level	L3
E-learning Level	L2
Study Hours	
Practicals	7
Seminars	8
Grading	
oral exam	

PDS-

D

Course Description

Modern clinical trends in the control of behavior and pain in dentistry are oriented to the application of different methods of patient sedation before planning dental treatment. The nitrous oxide inhalation sedation method is effective, simple method that is routinely used in clinical dental practice in dealing with uncooperative patients. Inhalation sedation method is primarily effective at achieving the level of sedation (relaxation) and a certain degree of analgesia in patients in whom a complex dental procedure is planned. It is carried out individually in patients according to the clinical criteria and indications, which are proposed by ASA classification (American Society of Anaesthesia), particularly in uncooperative patients before performing some complex and demanding dental interventions. The application of inhalation sedation in dentistry in order to prepare and relax patients before performing dental procedures is in accordance with the recent worldwide trends and protocols and does not require the presence of anesthesiologists.

In accordance with the latest protocols, clinical recommendations regarding the application of conscious sedation (inhalation sedation) are focused on the dentists' training in mastering the techniques of application of inhalation sedation, as well as its proper application modes.

The objective is to evaluate the potential clinical application of inhalation sedation in patients with existing indications, but also to evaluate the needs and requirements of the clinical team in applying the method. The main goal is to inform postgraduate students about possible clinical application of the method in dealing with uncooperative and / or fearful patients, and in particular to determine the age of patients and clinical situations in which the method is applied. In order to perform behavior and pain control in dentistry, the objective is to assess the effectiveness of applying the combined method of inhalation sedation and local anesthesia, in order to increase the efficiency of clinical success in performing dental procedures in the selected population of patients.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Postgraduate student will be able to describe, plan and reproduce conscious (inhalation) sedation method.
2. Postgraduate student will be able to recognize and define patients in whom depending on indications and contraindications inhalation sedation is applied.
3. Postgraduate student will be able to describe and define inhalation sedation method as well as advantages of using the combination of inhalation sedation and local anaesthesia in controlling pain and preparing patients for the treatment.
4. Postgraduate student will be able to describe and define postoperative course of the patients in whom inhalation sedation is applied.
5. Postgraduate student will be acquainted with the possibilities of applying other methods of sedation in clinical work with patients.

Literature



Intercollegiate Advisory Committee for Sedation in Dentistry. (2015). *Royal College of Surgeons of England*, <http://www.rcseng.ac.uk/fds/committees/intercollegiate-advisory-committee-for-sedation-in-dentistry>



Millar J M, Rudkin G E, Hitchcock M. (1997). *Practical Anaesthesia and Analgesia for Day Surgery*, BIOS Scientific Publisher Limited, Oxford, UK.



Standing Committee on Sedation for Dentistry (2007). *Standards for Conscious Sedation in Dentistry: Alternative Techniques.*, London: Royal College of Surgeons of England and Royal College of Anaesthetists



Academy of Medical Royal Colleges (2013). *Safe Sedation Practice for Healthcare Procedures*, London: AoMRC



Wood-Smith F G, Vickers M D, Stewart H C (1973). *Drugs in Anaesthetic Practise, 4th edition*, Butterworth & Co (Publishers) Ltd



Cameron A, Widmer R P. (2007). *Handbook of Pediatric Dentistry, 2nd edition*, Edinburgh-London-New York-Oxford-Philadelphia-St-Louis-Sydney-Toronto

Additional Literature



Koch G, Poulsen S. (2005). *Pedo doncija - Klinički pristup.*, Naklada Slap, Jastrebarsko



Welbury R, Duggal MS, Hosey MT. (2012). *Paediatric Dentistry*, Oxford University Press, Oxford

Evaluation of the quality of the postendodontic systems

28



PDS-D

Lecturer in Charge



Izv. prof. dr.sc.
Sanja Šegović

ECTS Credits	3
English Level	L1
E-learning Level	L1
Study Hours	
Lectures	3
Practicals	6
Seminars	6

Grading
according to the results of the oral exam

Course Description

The role of postendodontic restoration in longevity of endodontically treated tooth. Factors contributing to the strength of the endodontically treated tooth. Importance of good coronal and intracanal postendodontic sealing. Requirements of an adequate postendodontic restoration. Materials for postendodontic treatment. Dynamic cyclic loading of postendodontic systems. Measuring of microleakage along postendodontic systems (experimental trials). Evaluation of retention and resistance of postendodontic systems (experimental trials).

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Describe techniques for evaluating the quality of the postendodontic systems
2. List disadvantages of the techniques for evaluating the quality of the postendodontic systems
3. Relate factors affecting the quality of postendodontic system
4. Select and perform a postendodontic system according to apprehended knowledge of endodontically treated tooth survival in oral environment

General Competencies

Understanding the problems of postendodontic therapy. Evaluation of the different techniques for measuring quality of postendodontic restorations. Studing recent literature.

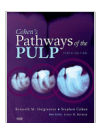
Literature



Walton RE, Torabinejad M. (2009). *Endodontics: načela i praksa*, Jastrebarsko : Naklada Slap.



Ingle JI, Bakland LK, Baumgartner C. (2008). *Endodontics 6e*, Hamilton: BC Decker Inc.



Hargreaves KM, Cohen S. (2011). *Pathways of the pulp*, St. Louis: Mosby.

Additional Literature



Recentna literatura na PubMedu

Experimental evaluation of glass ionomer cements

16



PDS-D

Lecturer in Charge



Izv. prof. dr.sc.
Katica Prskalo

ECTS Credits	3
English Level	L1
E-learning Level	L1
Study Hours	
Lectures	4
Practicals	6
Seminars	5

Grading

Before the examination it is necessary fully attended lectures.

Course Description

Theoretical part: Definition, composition, classification and characteristics of glass ionomer cements. Bonding of glass ionomer cements to the hard tooth tissue. Smear layer. Clinical applications of glass ionomer cements (linings, bases, fillings, luting, applications in endodontics). Advantages and disadvantages of glass ionomer cements. Ozon applications in remineralization process of caries lesions by glass ionomer cements. Remineralization process follow up by Diagnodent device. Practical part: Demonstrations of use stereozoom microscope (Olympus Optical Co. Europa, GMBH, Hamburg, Germany), digital camera and Olympus DP.Soft 3.2 program for digital data and picture analysis. Microscopic evaluation of tooth tissue and glass ionomer filling embedded in acrylic resin and longitudinally sectioned by Leitz 1600 microtom for hard tissue. Adhesive and cohesive fractures analyses. Evaluations of caries lesions degree by Diagnodent (KaVo.Germany) device. Demonstrations of HealOzone use. Evaluation of remineralization degree according to clinical criteria and comparison Diagnodent findings before and after remineralization process.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Critically evaluated glass ionomer cements (GIC) as restorative material and also in relation to the others restorative materials.
2. Student is able to apply the knowledge about GIC in different clinical situations.
3. Student understand, is able to interpret, compare and explain advantages and disadvantages of GIC.
4. Student is able to use obtained knowledge in new situations.

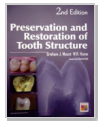
General Competencies

After the exam. the attendants should know the characteristics of glass ionomer cements and ozon. indications and contraindications and use in daily clinical work.

Literature



Jozo Šutalo (1994). *Patologija i terapija tvrdih zubnih tkiva*, Zagreb:Naklada Zadro



(2005). *Preservation and Restoration of Tooth Structure*



Davidson CL, Mjör IA. (1999). *Advances in glass-ionomer cements*, Quintessence Pub Co., Chicago



Mount GJ. (1997). *The wonderful world of glass-ionomers*. London: Martin Dunitz. 1997., London: Martin Dunitz. 1997.

Additional Literature



Knežević A. Tarle Z. Prskalo K. (26). *HealOzone u terapiji karijesa*. *Hrvatski stomatološki Vijesnik*. 2004; 1:26-27., Hrvatski stomatološki Vijesnik. 2004; 1:26-27.



Berry EA. *Glass ionomers 1990. Practical clinical techniques*. ADA. 131st Annual Session. October 13-18.1990. Boston.



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Yli-Urpo. Lassila LVJ. Narhi T. Vallittu PK. *Compressive strength and surface characterization of glass ionomer cements modified by particles of bioactive glass*. *Dent Mater*. 2005;21:201-9.



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Tanaumiharja M. Burrow MF. Cimmino A. Tyas MJ. *The evaluation of four conditioners for glass ionomer cements using field-emission scanning electron microscopy*. *J Dent*. 2001; 29:131-8.



Yamamoto K. Kojima H. Tsutsumi T. Oguchi H. *Effects of tooth-conditioning agents on bond strength of a resin-modified glass-ionomer sealant to enamel*. *J Dent*. 2003; 31:13-18.



Yap AUJ. Yeo EJC. Yap WY. Ong DSB. Tan JWS. *Effects of instrumentation time on microleakage of resin-modified glass ionomer cements*. *Oper Dent*. 2003; 28:47-52.



Baysan A. Whiley RA. Lynch E. *Antimicrobial effect of a novel ozone-generating device on microorganisms associated with primary root carious lesions in vitro*. *Caries Res*. 2000;34:498-501.

Experimental methods for determining effectiveness of adhesive systems

17



PDS-D

Lecturer in Charge



Prof. dr.sc.
Zrinka Tarle

ECTS Credits	4
English Level	L1
E-learning Level	L1
Study Hours	
Lectures	6
Practicals	7
Seminars	7

Grading

1. Written seminar 2. Oral exam

Course Description

Theoretical part includes: introduction and definition of adhesive systems; concept of adhesion; application of adhesive systems; smear layer; adhesion in enamel and dentin; dentin hybridization; composition and classifications of adhesive systems and methods of determining efficiency of the adhesive system interaction with hard dental tissues. Practical part includes: demonstrating use of stereozoom microscope Olympus (Olympus Optical Co., Europa, GMBH, Hamburg, Germany); digital camera and Olympus DP-Soft 3.2 program for digital data and image analysis; microscopic analysis of teeth with adhesive filling and cemented esthetic intracanal posts inserted in acrylic moulds and horizontally cut with Leitz 1600 mikrotom for hard dental tissues; evaluation of adhesive bond in enamel and dentin after various adhesive procedures by use of SEM (Field Emission Scanning electron microscope JSM FE 7000F); analysis of cohesive and adhesive fractures in adhesive fillings; evaluation of the efficiency of adhesive cementation of different esthetic intracanal posts; introduction to holographic interferometry method; assessment of enamel and dentin surface after polymerization of the composite filling; assessment of the root surface after adhesive cementation of the esthetic intracanal posts and adhesive cavity treatment with ozone (HealOzone, Kavo, Germany). Seminars include critical analysis of scientific articles from course field (journal club).

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Define the term "adhesive system"
2. Describe the basic composition of adhesive systems
3. Describe, understand and apply certain methods for analysis of hybrid layer

General Competencies

Attendants should have theoretical knowledge of adhesive systems (characteristics, indications and ways of application of adhesives, advantages and disadvantages of various systems) as well as practical skill in handling devices necessary for conducting the practical part of the course (stereo microscope, specimen preparation for SEM, digital holographic interferometry, HealOzone)

Literature



Vjekoslav Jerolimov i sur. (2005). *Osnove stomatoloških materijala*.



Ronald L. Sakaguchi, John M. Powers (2011). *Craig's Restorative Dental Materials*, Mosby



Kenneth J. Anusavice, Chiayi Shen, H. Ralph Rawls (2012). *Phillips' Science of Dental Materials*, Saunders

Additional Literature



Višnja Negovetić Mandić (2004). *Hibridizacija dentina kod adhezijskog cementiranja estetskih intrakanalnih kolčića (magistarski rad)*, Stomatološki fakultet



Vlatko Pandurić (2003). *Pro sudba adhezijskih i kohezijskih fraktura stereomikroskopom i holografskom interferometrijom (disertacija)*, Stomatološki fakultet



Alena Knežević (2002). *Mjerenje skupljanja kompozitnih materijala uporabom holografske interferometrije (disertacija)*, Stomatološki fakultet



Van Meerbeck B, Vargas M, Inoue S, Yoshida Y, Peumans M, Lambrechts P, Vanherle G (2001). *Adhesives and cements to promote preservation dentistry.*, Operative Dentistry



T. K. Vaidyanathan, Jayalakshmi Vaidyanathan (2009). *Recent Advances in the Theory and Mechanism of Adhesive Resin Bonding to Dentin: A Critical Review*, J Biomed Mater Res Part B: Appl Biomater



Van Meerbeek B, De Munck J, Yoshida Y, Inoue S, Vargas M, Vijay P, Van Landuyt K, Lambrechts P, Vanherle G. (2003). *Buono core memorial lecture. Adhesion to enamel and dentin: current status and future challenges.*, Operative Dentistry

Experimental methods for determining the quality of composite materials

18



PDS-D

Lecturer in Charge



Prof. dr.sc.
Zrinka Tarle

ECTS Credits 4

English Level L1

E-learning Level L1

Study Hours

Lectures 6

Practicals 7

Seminars 7

Grading

1. Written seminar 2. Oral exam

Course Description

Theoretical part includes definition and composition of resin composite materials (organic and inorganic part, intermediary bonding agent, polymerization initiators, polymerization inhibitors and stabilizers); classification of resin composite materials; new generations of composite materials (bulk, siloranes, composite materials based on amorphous calcium phosphate); characteristics of resin composite materials; setting mechanism of composite resin; polymerization shrinkage and clinical indications. Practical part includes demonstrations and practicals: determining polymerization shrinkage of composite materials using digital holographic interferometry; determining of degree of conversion of composite materials by Fourier transform infrared spectroscopy (FTIR); determining of temperature rise in the material by use of different thermometers; analysis of nanostructure of the material and interactions with hard tooth tissues and evaluation of new, experimental materials by electron microscopy.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Define the term "composite materials"
2. Describe the basic composition of composite materials
3. Describe, understand and apply certain methods for analysis of composite materials

General Competencies

After the exam, the attendants should know the characteristics and types of composites, procedures, indications and contraindications for clinical application and negative consequences of the setting of composites as well as possibilities of overcoming them. Also, they should master the skills necessary for handling the apparatus and doing experimental work (FTIR, digital holographic interferometry, work with microscope)

Literature

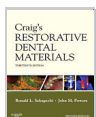


Jozo Šutalo (1988). *Kompozitni materijali u stomatologiji*



Vjekoslav Jerolimov i sur. (2005). *Osnove stomatoloških materijala*

Additional Literature



Ronald L. Sakaguchi, John M. Powers (2012). *Craig's Restorative Dental Materials*, Mosby



Kenneth J. Anusavice, Chiayi Shen, H. Ralph Rawls (2013). *Phillips' Science of Dental Materials*, Saunders



Gottfried Schmalz, Dorte Arenholt Bindslev (2008). *Biocompatibility of Dental Materials*, Springer



Zrinka Tarle (1995). *Procjena polimerizacijskog učinka u uzorku kompozitnog materijala (disertacija)*, Stomatološki fakultet



Alena Knežević (2002). *Mjerenje skupljanja kompozitnih materijala uporabom holografske interferometrije (disertacija)*, Stomatološki fakultet



Vlatko Pandurić (2003). *Prosudba adhezijskih i kohezijskih fraktura stereomikroskopom i holografskom interferometrijom (disertacija)*, Stomatološki fakultet



Ferracane JL. (2002). *New polymer for dental restorative materials.*, Operative Dentistry



Tarle Z, Knežević A, Demoli N, Meniga A, Šutalo J, Unterbrink G, Ristić M, Pichler G. (2006). *Comparison of composite curing parameters: effects of light source and curing mode on conversion, temperature rise and polymerization shrinkage.*, Operative Dentistry



Ferracane JL (2011). *Resin composite—State of the art*, Dental materials



Tarle Z, Attin T, Marovic D, Andermatt L, Ristic M, Tauböck TT (2014). *Influence of irradiation time on subsurface degree of conversion and microhardness of high-viscosity bulk-fill resin composites.*, Clinical Oral Investigations

1100

Experimental methods of determining the effectiveness of the resources for the maintenance of oral hygiene

Lecturer in Charge



Doc. dr.sc.
Dubravka
Negovetić-Vranić

ECTS Credits	3.0
English Level	L3
E-learning Level	L2
Study Hours	
Practicals	7
Seminars	8
Grading	
oral exam	

Course Description

Modern clinical approach in preventive therapy is orientated on planning individual therapy based on the use of innovative ingredients that are used in oral hygiene (toothpaste, toothbrushes, dental floss, mouthwash), which control the composition and activity of oral microflora in the saliva, and encourage the renewal process (remineralization) of hard dental tissues. The global program for oral health by the World Health Organization (WHO) has provided the initiative of promoting the importance of a new form for the treatment of caries lesions, which is changed from a surgical / restorative model in preventive / minimally invasive model, and the World Dental Federation (FDI) started the Global caries initiative (GCI), which aims to create a 10 - year plan aimed at achieving optimal oral and systemic health of the general population. The main objective of this postgraduate doctoral study is to evaluate the clinical effectiveness of the product to be used in oral hygiene in the Croatian population (toothpaste, mouth rinse, dental floss, varnish), and to determine the possibility that low-risk patients maintain motivated in terms of retention of positive food- hygiene practices, while patients of high and medium risk have made low-risk for tooth decay. The aim is to set up guidelines on the basis of the individual planning of preventive therapy. Clinical evaluation will address frequency of usage of innovative resources and their effectiveness in reducing the number and activity of cavity bacteria, input in changing the pH of saliva, and of any changes that cause the caries activity in hard dental tissues and gum disease. Analysis of physical and mechanical properties of tooth brush and floss. The emphasis would be on innovative means, whose concept is based on the use of new compounds with potentially better efficiency. The aim of this postgraduate studies is setting new guidelines in planning individual preventive therapy, analysis of physical and mechanical properties of tooth brush and floss and to suppress the formation and progression of caries disease in patients.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Student will be able to describe, plan and reproduce individual caries prevention therapy.
2. Student will be able to recognize, number and show number of streptococci in the mouth.
3. Student will be able to recognize, show and identify mechanical properties of dental floss.
4. Student will be able to recognize, show and identify performance of fibers in tooth brush.

5. Student will know how to define, reproduce and repeat remineralization therapy.

Literature



Darby ML, Walsh MM. (2010). *Dental Hygiene: Theory and Practice. 3rd Ed.*, Saunders



Fejerskov O, Kidd E. (2010). *Zubni karijes*, Naklada Slap



Anderson MH et al. (1994). *Professional prevention in dentistry*, Williams & Wilkins, Baltimore



Harris NO, Garcia-Godoy F (1999). *Primary Preventive Dentistry (5th Edition)*, Prentice Hall

Additional Literature



Koch G, Poulsen S. (2005). *Klinički pristup*, Naklada Slap, Jastrebarsko



Welbury R, Duggal MS, Hosey MT (2012). *Paediatric Dentistry*, Oxford University Press, Oxford

Experimental photopolymerization

20

Lecturer in Charge



Doc. dr.sc.
Alena Čizmić

ECTS Credits	3
English Level	L3
E-learning Level	L2
Study Hours	
Lectures	5
Practicals	8
Seminars	2
Grading	
Oral examination	

Course Description

Light cure dental materials and curing lights for their photopolymerization are the common subject of ongoing research and development. The purpose of the course is to familiarize candidates with the fundamental chemical and physical principles of photopolymerization of light cured dental materials, photoinitiators present in light-curing dental materials, light curing units for photopolymerization, the characteristics of individual light curing units and polymerization modes, their indications and contraindications in clinical use, the impact of the light curing intensity on the degree of conversion, polymerization shrinkage, polymerization stress, temperature increase, cytotoxicity and genotoxicity. Lectures and discussion at seminars will be also focused on "single peak" and "dual-peak" LED light curing units and how to apply these units to various photoinitiators present in light curing dental materials. Candidates will learn how to determine and achieve maximum efficiency of curing light applied to the composite material (MARC Resin Calibrator, MARC patient simulator), the optical characteristics of the light guide tip ("beam profile", "R value") and how to optimize the existing light curing unit in order to achieve maximum efficiency. Influence of photopolymerization with light curing units on different composition of composite materials will be also discussed, as well as how to implement infection control measures and measures to protect the eyes of the therapist.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Know how to select the most appropriate light curing unit for photopolymerization with respect to the degree of conversion, polymerization shrinkage, temperature, cytotoxicity and genotoxicity, polymerization stress and light curing materials that are used in clinical practice
2. Know how to determine the characteristics of the light curing unit necessary for sufficient photopolymerization Know the difference between "single peak" and "dual-peak" LED light curing units, how to use them in different clinical situations Know the basics principles of "beam profile" of the light curing unit, its effect on the photopolymerization and how to deal in the situation when the "beam profile" is not known
3. Being able to carry out simple clinical procedures for determining the quality of polymerization
4. Know how to compensate the negative effects of temperature increase, polymerization contraction and polymerization stress
5. Know how to properly maintained light curing unit, how to implement infection control measures and measures to protect the eyes of the therapists

General Competencies

After passing the exam. the attendants should know advantages and disadvantages of various light curing units as well as indications and their applications in clinical work.

Literature



Knezevic A, Tarle Z, Meniga A, Sutalo J, Pichler G. (2005). *Influence of light intensity from different curing units upon composite temperature rise*, J Oral Rehabil 32:362-8.



Knezevic A, Demoli N, Tarle Z, Meniga A, Sutalo J, Pichler G. (2005). *Measurement of linear polymerization contraction using digital laser interferometry*, Oper Dent .



Tarle Z, Knezevic A, Demoli N, Meniga A, Sutalo J, Unterbrink G, Ristic M, Pichler G. (2009). *Comparison of composite curing parameters: Effects of light source and curing mode on conversion, temperature rise and polymerization shrinkage*, Oper Dent



Cramer NB, Stansbury JW, Bowman CN. (2011). *Recent advances and developments in composite dental restorative materials*, J Dent Res

Additional Literature



Lucey SM, Santini A, Roebuck EM. (2014). *Degree of conversion of resin-based materials cured with dual-peak or single-peak LED light-curing units*, Int J Pediatr Dent



Haenel T, Hausernova B, Steinhaus J, Price RTB, Sullivan B, Moeginger B. (2015). *Effect of the irradiance distribution from light curing units on the local micro-hardness of the surface of dental resins*, Dent Mat



Platt JA, Price RB. (2014). *Light Curing Explored in Halifax*, Oper Dent



Santini A, Gallegos IT, Felix CM. (2013). *Photo initiators in dentistry: A review*, Prim Dent J



Pubmed – ključne riječi: curing lights, LED, monowave/single peak LED, polywave/dual peak LED, beam profile, degree of conversion, polymerization shrinkage, polymerization stress, temperature increase, cytotoxicity/genotoxicity

Fiber reinforced polymer materials in prosthetic dentistry

63



PDS-D

Lecturer in Charge



Prof. dr.sc.
Denis Vojvodić

ECTS Credits	3
English Level	L1
E-learning Level	L1
Study Hours	
Lectures	5
Practicals	5
Seminars	5

Grading

Assessed practical work during the exercises, and seminars, as a condition for the oral exam.

Course Description

Dealing with problems of reinforcing polymer materials widely used in dentistry, especially prosthetics. As reinforcements glass, polyethylene, carbon and aramid fibers are used. Good bond between fiber reinforcements and polymer matrix is of a great importance, thus enabling delamination. Subject concerns basics of crack mechanisms, and the role of fibers in crack prevention. With the use of fibers anisotropic materials are produced, with the new bettered properties. Direction and depth of fiber alignment within polymer matrix are having great importance on material mechanical properties. In practical work students make specimens of fiber reinforced polymers which strength is investigated with different tests. They differ in shape and dimensions of the specimens and in the way of applying load (flexural, tensile, pressure, shear tests). Students should be acquainted with these tests so they can properly choose and use them in their future scientific work. Microscopic examination of specimens is important for evaluation of the bond between fibers and polymer matrix because the success of the reinforcement is evaluated in that way, too. Preparation of specimens is important for microscopic examination consisting of specimens sealing; cutting to obtain needed and wanted cross-section; and polishing to smooth surface appropriate for microscopic examination. This practical work would be useful for students in specimens production for further similar investigations in this field.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Apply the principles of polymer reinforcement using different fibers
2. Use different fibers to improve the mechanical properties of composite materials
3. Operate the preparation of the composite material samples for testing the mechanical properties
4. Operate the microscopy of the samples made from composite materials
5. Analyze microscopic findings of sample fractures and determine the character of fracture

General Competencies

Student should perform basic knowledge in constructing fiber reinforced polymers, knowledge of principles of crack mechanisms, techniques of different fiber reinforced specimens production, as well as their testing. Also, the student should acquire the possibilities of microscope examination of the aforementioned specimens.

Literature



O'Brien WJ. *Dental Materials: Properties and selection*. Chicago: Quintessence. 1989.



Vallittu PK. *The First International Symposium on Fibre-Reinforced Plastics in Dentistry*. Turku: University of Turku. 1998.



Phillips RW. *Skinner's science of dental materials*. 8th edition. Philadelphia: WB Saunders Co.. 1982.



Alfirević I. *Nauka o čvrstoći I*. Zagreb: Tehnička knjiga. 1995.

Additional Literature



Wittney JM. Daniel IM. Pipes RB. *Experimental Mechanics of Fibre-Reinforced Composite Materials*. New Jersey: Prentice-Hall. 1984.



McCabe JF. *Applied Dental Materials*. London: Blackwell Scientific Publications. 1990.



Hull D. *An Introduction to Composite Materials*. Cambridge: Cambridge University Press. 1981.



Cheremisinoff NP. *Handbook of Ceramics and Composites*. vol. 1. New York: Marcel Dekker. 1990.



Nielsen LE. *Mechanical properties of polymer and composites*. New York: Marcel Dekker. 1974.



Struers. *Preparation of Composites*. Rodovre: Struers Tech.. 1992.



Drummond JL. Bapna MS. *Static and cyclic loading of fiber-reinforced dental resin*. *Dent Mater* 2003;19:226-31.



Vallittu PK. *Effect of 180-week water storage on flexural properties of E-glass and silica fiber acrylic resin composite*. *Int J Prosthodont* 2000;13:334-9.



Behr M. Rosentritt M. Lang R. Handel G. *Flexure properties of fiber reinforced composite using a vacuum/pressure or a manual adaptation manufacturing process*. *J Dent* 2000;28:506-14.



Vallittu PK. *A Review of methods used to reinforce polymethylmetacrylate resin*. *J Prosthodont* 1995;4:183-7.

Finite element method in biomechanical analysis of craniofacial system

4



PDS-D

Lecturer in Charge



Prof. dr.sc.
Senka Meštrović

ECTS Credits	4
English Level	L2
E-learning Level	L1
Study Hours	
Lectures	6
Practicals	4
Seminars	10

Grading

two seminars are necessary for exam

Course Description

Structure and biomechanical properties of teeth. PDL and cancellous bone will be present. Bone metabolism, apposition and resorption as result of functional orthodontic and orthopaedic forces will also be explained. Definition of force, stress and strain and their dependence will be explained as well as measurement possibilities. Mechanical and biological response of craniofacial system on force will be demonstrated since finite element method is very efficient in force, stress and strain analysis. The possibilities of mathematical modeling of craniofacial system will be explained. Finite element method could be utilized in analysis of implants loading and osseointegration.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Define biomechanical properties of craniofacial system
2. Recognize mathematical method application in craniofacial system

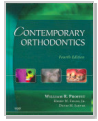
General Competencies

Students must comprehend basic principles of biomechanical investigations of craniofacial system. They also have to plan independently their own study. They have to understand the application and response to biological, orthodontic and orthopedic forces of teeth and surrounding structures and their anatomical, physiological and biomechanical properties.

Literature



Fung Y.C. (1993). *Mechanical properties of living tissues*, New York, Springer



Profit WR. Fields HW. (2007). *Contemporary orthodontics*, St. Louis, Mosby



Nikolai RJ. (1985). *Bioengineering analysis of orthodontic mechanics*, Philadelphia, Lea&Fabiger



Graber TM. Vanarsdal RL. (1994). *Orthodontics. Current Principles and Techniques*, St. Louis: Mosby



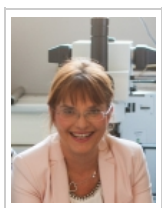
Nikolić V. Hudec M. (1988). *Principi i elementi biomehanike*, Zagreb: Školska knjiga

Genome of tumor cells

190



Lecturer in Charge



Prof. dr.sc.
Nives Pećina-
Šlaus

ECTS Credits	3
English Level	L3
E-learning Level	L2
Study Hours	
Lectures	5
Practicals	5
Seminars	5

Grading

The students write an essay from novel scientific papers and have written exam..

Course Description

The main subject of the course is the genomic characteristics of tumor cells. Genomic changes that are the basis of malignant transformation are described. Therefore, genomic instability caused by defective DNA repair mechanisms is also represented together with scientific topics of mutations and repair. New research in the scientific field of genetics of tumor formation and progression is brought to students attention. Genetic organization, basic mechanisms of gene regulation and function are also extensively covered. Signal transduction pathways involved in tumor formation especially brain tumors and oral tumors will be discussed. Practical work enables students to discover genomic instabilities in human tumor tissues. Microsatellite dinucleotide and tetranucleotide repeats that serve as genetic markers are investigated. Specific topics include: Genomic characteristics of tumor cells (lecture 2 hours). Genome instability, mutations and DNA repair. The control of gene expression (lecture 1 hour). Genes and signal transduction pathways involved in tumor genesis (lecture 1 hour). Wnt signal transduction pathway and brain tumors (lecture 1 hour). Scientific papers on genomic instability (seminar 3 hours). microsatellite instability in oral cancer (seminar 2 hours). Practical work includes following methods: Loss of heterozygosity detection. Replication error positive sample detection. Microsatellite analysis. Mutational analysis by SSCP/Heteroduplex. Electrophoresis. DNA and RNA isolation. Immunohistochemistry. Novel techniques of mutation search through High resolution melting on Light Cycler PCR instrument are also included.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Describe, summarize and reviews and understands knowledge obtained in this course
2. Summarize, explain, and interpret, predict and apply the acquired knowledge and solve problems
3. Discover genetic changes, apply, interpret, solve and write
4. Arrange, assemble, categorize, collect, combine, comply, compose, construct and synthesize
5. Describe, compare, conclude, discriminate, estimate, evaluate, explain, judge

General Competencies

The students will learn the characteristics of eucaryotic and human genome. They will learn about specific genetic and molecular changes happening in the genome of tumor cells. termed genomic instability. They will be introduced to tumor cell at the molecular level and will also master techniques of molecular biology used for genomic instability detection.

Literature



Abdel-Rahman WM Abdel-Rahman WM. *Genomic instability and carcinogenesis: an update.* *Curr Genomics.* 2008;9:535-41



Pecina-Šlaus N (2010). *Pecina-Slaus N. Wnt signal transduction pathway and apoptosis: a review.* *Cancer Cell International,* 10; 22, 2010, (<http://www.cancerci.com/content/10/1/22>)



Beckman RA. Loeb LA. *Genetic instability in cancer: theory and experiment.* *Semin Cancer Biol* 2005. 15. 423-435.



(2007). *Pecina-Slaus N. Beros V. Nikuseva Martic T. Bulic-Jakus F. Genomic Instability of the APC Gene Found in Glioblastoma. In: New Research on Genomic Instability.* Ed. Eleanor J Glasgow. Novascience Publishers. Inc. 2007. pp.121-137, Novascience Publishers



Reshimi SC. Gollin SM. *Chromosomal instability in oral cancer cells.* *J Dent Res.* 2005; 84: 107-117



(2009). *Pećina-Šlaus i suradnici: Odabrane metode molekularne biologije.* Medicinska naklada. Zagreb. 2009., Medicinska naklada



Watson JD. Baker TA. Bell SP. Gann A. Levine M. Losick R. *Molecular Biology of the gene.* 5th ed. San Francisco: Benjamin Cummings; 2004. (odabrana poglavlja).



Liu L. Ling J. Wei X. Wu L. Xiao Y. *Stem cell regulatory gene expression in human adult dental pulp and periodontal ligament cells undergoing odontogenic/osteogenic differentiation.* *J Endod.* 2009;35:1368-76



Wang XP. O'Connell DJ. Lund JJ. Saadi I. Kuraguchi M. Turbe-Doan A. Cavalleco R. Kim H. Park PJ. Harada H. Kucherlapati R. Maas RL. *Apc inhibition of Wnt signaling regulates supernumerary tooth formation during embryogenesis and throughout adulthood.* *Development.* 2009;136:1939-49.



Numasawa H. Yamamoto N. Shibahara T. *Loss of heterozygosity and microsatellite instability on chromosome 2q in human oral squamous cell carcinoma.* *Bull Tokyo Dent Coll.* 2005; 46: 17-25



Vogelstein et al. (2013). *Cancer Genome Landscapes,* Science. 2013 March 29; 339(6127): 1546-1558. doi:10.1126/science.1235122.



Liu F. Millar SE. *Wnt/beta-catenin signaling in oral tissue development and disease.* *J Dent Res.* 2010; 89:318-330



Ishwad CS. Ferrell RE. Rossie KM. Appel BN. Johnson JT. Myers EN. Law JC. Srivastava S. Gollin SM. *Microsatellite instability in oral cancer.* *Int J Cancer* 1995; 64:332-335

Histopathological analysis of periapical diseases

40

Lecturer in Charge



Prof. dr.sc.
Božidar Pavelić

ECTS Credits 2

English Level L1

E-learning Level L1

Study Hours

Lectures 2

Practicals 4

Seminars 4

Grading

According on the results of the oral examination

Course Description

Contents: Definition of periapical diseases; Classification of periapical diseases; Anatomy and morphology of periapical tissue; Histological and developmental characteristics of periapical tissue; Histopathological base to development of periapical diseases; Morphogenetic base to development of periapical diseases; Diagnosis of periapical diseases; Rtg analysis; Examination and selected portion of tissue for PHD; Prepare formalin solutions to fix and preserve tissue; Forming a paraffin block; Cut paraffin block with a microtome into slices; Eosin-hematoxylin staining; Cover slip placing; Immunohistological staining; Microscopic examination

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Describe the disease processes in periapical region
2. Describe the purpose and uses of extraoral radiographx
3. Identify periapical lesions in terms of appearance, location and size
4. Describe periradicular lesions of pulpal origin
5. Describe the steps in repair of periapical lesions

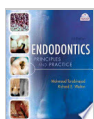
General Competencies

It is expected that a student accept a method used in preparing a selected portion of tissue for pathologic examination and make a diagnosis. Compare of data gathered by clinical and radiographic examination to finally histologic diagnosis.

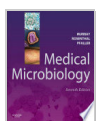
Literature



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Laskaris G. *Treatment of Oral Diseases.* Stuttgart: Georg Thieme Verlag. 2005.



Neville BW, Damm DD, Allen CM, Bouquot JE. *Oral and Maxillofacial Pathology.* WB Saunders Co: Philadelphia. 2002.

Immunohistochemical and molecular analysis of inflammation of the pulp and the periapical tissue

29



PDS-D

Lecturer in Charge



Prof. dr.sc.
Silvana Krmek

ECTS Credits	3
English Level	L2
E-learning Level	L2
Study Hours	
Lectures	6
Practicals	6
Seminars	3

Grading

The student should write a seminar on related topic and the exam is performed in the oral form.

Course Description

In a theoretical part participants will be familiarized with inflammatory response in the pulp and periapical tissue. modification of inflammatory response. specific and non-specific mediators of inflammatory process. T and B lymphocyte activation. expression of membrane and intracellular receptor linked to an apoptosis and inflammation. Participants will also study immunohistochemical determination of expression of hormone receptors and tumor suppressing proteins as well as usage of polymerase chain reaction method (PCR and RT PCR) in qualitative and quantitative gene research. In a practical part participants will learn to manage laboratory protocols of immunohistochemical methods: specimen acquiring and storage. monoclonal antibodies. visualization protocols. qualitative and semi-quantitative results reading and their interpretation. Protein expression will be demonstrated via Western Blot method. Sequence of procedures of genome analysis and principles of PCR and RT PCR device operation. Participants will perform protocol of DNA and mRNA isolation, reverse transcriptase isolation. DNA replication with aid of PCR device and ELISA protocol of gene replication determination. all under mentor supervision.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Describe the role of molecular modulators in inflammatory process in the pulp and periapical tissues
2. Apply histochemical and PCR methods in the investigation of pathological events in the pulp and periapical tissues
3. Recognize open scientific questions in dynamics of pulpal and periapical diseases
4. Plan the research related to the discovery of potential modulators of the inflammation in specific tissues

General Competencies

Participant is expected to understand the onset, development and biochemical processes of inflammatory response in the pulp and periapical tissue and process of apoptosis. Student should also be familiar with basic principles of immunohistochemical and PCR methods.

Literature



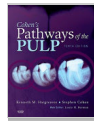
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Xiao-Ming Yin, Zheng Dong (2009). *Essentials of Apoptosis*, Springer Science & Business Media

Additional Literature



Jontell M. Okiji T. Dahlgren. Bergenholtz G. *Immune defense mechanisms of the dental pulp. Crit Rev Oral Biol* 1998; 9: 179 - 200.



Jukic S. Prpic-Mehicic G. Talan-Hranilovic J. Miletic I. Segovic S. Anic I. *Estrogen receptors in human pulp tissue. Oral Surg Oral Med Oral Pat Oral Rad End* 2003; 95: 340-4.



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Jukić S. Talan-Hranilović J. Buković D. Miletić I. Nežirić E. *Nicotine Adenine Dinucleotide Phosphate Diaphorase (NADPH-d) histochemistry detecting NOS in healthy and chronically inflamed pulp. Coll Antropol* 2002; 26: 681-8.



Di Nardo Di Maio F. Lohinai Z. D'Arcangelo C. Esposito De Fazio P. Speranza L. De Lutiis MA. Patruno A. Grilli A. Felaco M. *Nitric oxide synthase in healthy and inflamed human dental pulp. J Dent Res* 2004; 83: 312-6.



Murray PE. Windsor LJ. Smyth TW. Hafez AA. Cox CF. *Analysis of pulpal reactions to restorative procedures. materials. pulp capping. and future therapies. Crit Rev Oral Biol* 2002; 13: 509-20.

Importance of dental color assessment in various dental treatments

Lecturer in Charge



Izv. prof. dr.sc.
Dubravka
Knezović-Zlatarić

Course Description

Smile design presents one of the main goals in esthetic dentistry. Previous studies have emphasized dental color as one of the most important parameters in successful dental treatment. Anyhow, dentists are still not introduced enough in basic characteristics of dental color and different techniques of its in vivo assessment.

The aim of this subject is to educate dentists in basic dental color components and dental color assessment techniques.

In theoretical part the basic dental color characteristics and different ways of its expression are discussed. Value (lightness), color saturation (chroma) and color (hue) of the natural tooth as basic parameters to be considered in color assessment are emphasized. Three different color assessment techniques – classical and linear shade-guide as well as digital shade-matching device are described.

In practical part the candidates train dental color assessment using Toothguide Training Box dependent on value, chroma and hue. Afterwards, they rearrange classical dental shade-guide according to value and assess dental color in vivo. Using linear dental shade-guide and digital shade-matching device they assess the same teeth. Different modes of color assessment and verification are trained using digital shade-matching device as well.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. After successful overcome of this subject, the students will be able to distinguish, define and interpret three basic characteristics of natural dental color,
2. Handle with different dental shade-guides and digital dental shade-matching devices,
3. Correctly analyze and assess the initial dental color prior to the dental treatment,
4. Forward accurate information about requested color of future prosthetic appliance to the dental technician using and comparing the results of different visual and digital devices,
5. Check the new color of appliance and compare it with the initial one as well as with the color of adjacent teeth and apply acquired knowledge in their everyday dental practice.

ECTS Credits	4.0
English Level	L3
E-learning Level	L2
Study Hours	
Lectures	3
Practicals	10
Seminars	7

Grading

The exam is consisted of: - practical examination as precondition for written examination: - verification of training on TTB device (candidate is considered successful if he/she achieves result higher than 700 points) - verification of in vivo handling with visual dental shade-guide tabs - verification of in vivo handling with digital dental shade-matching device (candidate is considered successful if he/she achieves dental color visual and digital assessment matching in four of five shots) - written examination (candidate is considered successful if he/she achieves result higher than 70%).

Literature



Knezović Zlatarić D (ur.) (2013). *Osnove estetike u dentalnoj medicine*, Zagreb; Hrvatska komora dentalne medicine



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Gürel G (2009). *Znanje i vještina u izradi estetskih keramičkih ljuski*, Zagreb; Quintessence Publishing

Additional Literature



Greenwall L (2011). *Tehnike izbjeljivanja u restorativnoj stomatologiji*, Zagreb; Aria



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Magne P, Belser U. (2002). *Bonded porcelain restorations in the anterior dentition. A Biomimetic approach*, Chicago; Quintessence Publishing



Fradeani M (2008). *Esthetic rehabilitation in fixed prosthodontics. Volume 1. Esthetic analysis: a systematic approach to prosthetic treatment*, Chicago; Quintessence Publishing



Fradeani M (2008). *Esthetic rehabilitation in fixed prosthodontics. Volume 2. Prosthetic treatment: a systematic approach to esthetic, biologic and functional integration*, Chicago; Quintessence Publishing

Information sources in dental medicine

290



Lecturer in Charge



Vesna Boric

ECTS Credits	3.0
English Level	Lo
E-learning Level	L1
Study Hours	
Lectures	5
Practicals	10

Course Description

Students learn about document type, elements of bibliographic description, different cite styles (CMJE, MLA, APA, Oxford Style) and its importance in indexing and citing. Furthermore, they look into structure of bibliographic databases, search strategies, choosing information source, making queries, result limits, using Boolean logic functions, „wild cards“ and metadata. Bibliographic, full-text, citing and mixed databases like as Medline/PubMed, Current Contents, Web of Science, Journal Citation Report, MeSH Browser, Hrčak, DOAJ and commercial publishers. In the course they are processing ethical questions as author rights, plagiarism and licencing. There are exercises in solving information problems with teachers help. At the end of course every student have to define information query, choose the base, set search strategy, evaluate results, and save it by oneself.

Study Programmes

» Postdoctorate Study (*methodological courses, 1st semester, 1st year*)

Literature



Patrias K, Wendling D (eds.) (2007). *Citing Medicine: The NLM Style Guide for Authors, Editors, and Publishers*, National Library of Medicine (US)



Marušić M. i suradnici (2013). *Uvod u znanstveni rad u medicini*, Medicinska naklada

Investigation of biological and technical qualities of root canal filling materials.

5



PDS-D

Lecturer in Charge



Prof. dr.sc.
Ivana Miletić

ECTS Credits	3
English Level	L3
E-learning Level	L1
Study Hours	
Lectures	6
Practicals	3
Seminars	6
Grading	
Oral exam	

Course Description

Biocompatibility of root canal filling materials is one of the factors that influence the outcome of endodontic treatment. The most common materials in root canal filling are gutta-percha and sealer that come in contact with the periapical tissue so the structure of material may influence the tissue healing. The sealing ability is also important for the success of endodontic treatment. Theoretical part of the course comprises the introduction of students with the material properties, the procedures for investigating cytotoxicity, mutagenicity and cancerogenicity in in vitro and in vivo conditions. As materials can cause cell death (necrosis or apoptosis) this part of the course will be dedicated to showing the complex net of signaling apoptotic pathways leading to the cell death. Furthermore, the lectures will deal with the antibacterial properties of materials as well as with the ways to investigate antibacterial impact on microorganisms most commonly found in a root canal. Special attention will be paid to the further research trends. Seminars and practice will introduce students to the procedures of investigating cytotoxicity and mutagenicity in vitro and in vivo as well as to the procedures for investigating the antibacterial impact of root canal filling materials, and investigations of sealing ability using scanning electron microscope, fluid transport model and test of bacterial leakage.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

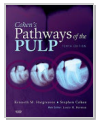
On successful completion of the course, students will be able to:

1. Describe properties of different root canal filling materials
2. Define procedures for investigating cytotoxicity, genotoxicity and antibacterial properties of root canal filling materials
3. Describe different types of cell death
4. Plan investigation of technological properties of the root canal filling materials
5. Recognize main scientific issues of biological properties of root canal fillings

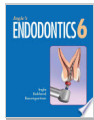
General Competencies

A student becomes proficient in theoretical and practical knowledge of properties of root canal filling materials. She/he is capable of understanding the experimental procedures of investigations and their application.

Literature



Kenneth M. Hargreaves, Stephen Cohen, Louis H. Berman (2011). *Cohen's Pathways of the Pulp*, Mosby



John Ide Ingle, Leif K. Bakland, J. Craig Baumgartner (2008). *Ingle's Endodontics 6*, PMPH-USA

Additional Literature



M. G. Ormerod, David Novo (2008). *Flow Cytometry*, Damaris Publishing

1040

Investigation of laser influence on biomechanical properties of dental materials and hard dental tissues

Lecturer in Charge



Doc. dr.sc.
Anja Baraba

ECTS Credits	3.0
English Level	L2
E-learning Level	L1
Study Hours	
Lectures	4
Practicals	6
Seminars	5
Grading	
Oral exam	

Course Description

Course «Investigation of laser influence on biomechanical properties of dental materials and hard dental tissues» provides knowledge on basic principles and methods of in vitro and in vivo studies about influence of laser on hard dental tissues and biological properties of materials in dental medicine. During lectures, students of doctoral study will be introduced to different methods for investigating influence of laser on physico-mechanical and biological properties of materials in dental medicine. In lectures, possibilities and limitations of specific scientific methods and application of certain methodologies will be explained. The aim of the seminars is to introduce students to different possibilities of clinical application of lasers according to scientific data. During seminars, influence of laser on bond strength of bioactive and fiber reinforced materials will be assessed. During practical part of the course, students will have the possibility, during laboratory work, to be introduced to different types of lasers and possibilities of in vitro and in vivo investigations.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Describe different methods for laser application
2. Define different methods for investigating influence of laser on hard dental tissues
3. Explain possible influence of laser on bonding of bioactive and fiber reinforced materials in dental medicine
4. Compare the influence of different lasers on bond strength of bioactive and fiber reinforced materials in dental medicine
5. Describe advantages of application of different lasers in endodontic surgery

Literature



Coluzzi DJ. (2008). *Fundamentals of lasers in dentistry: basic science, tissue interaction, and instrumentation*, J Laser Dent



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Additional Literature



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Baraba A, Dukić W, Chieffi N, Ferrari M, Anić I, Miletić I (2013). *Influence of different pulse durations of Er:YAG laser based on Variable Square Pulse technology on microtensile bond strength of a self-etch adhesive to dentin*, Photomed Laser Surg



Mensudar R. (2014). *Photodynamic therapy: a review*, World J Med Sci



De Moor RJG, Meire M (2014). *Review: High-power lasers in endodontics-fiber placement for laser- enhances endodontics: in the canal or at the orifice*, J Laser Health Acad



Bader C, Krejci I (2006). *Indications and limitations of Er:YAG laser application in dentistry*, Am J Dent

Laboratory methods in immunology: polymerase chain reaction and flow cytometry

1013



PDS-D

Lecturer in Charge



Doc. dr.sc.
Ivan Šamija

ECTS Credits	4
English Level	L3
E-learning Level	L2
Study Hours	
Practicals	13
Seminars	7
Grading	
Oral exam.	

Course Description

Within the course students will learn about work in experimental and clinical immunology laboratory. Principles and applications of different methods for analyzing the number and function of immune cells, methods for analyzing other components of immune reaction, laboratory methods based on use of monoclonal antibodies, different applications of polymerase chain reaction in immunology laboratory, and some other methods will be explained. Students will learn in details which is the purpose for use of different methods described, especially what are clinical indications, and how to interpret the results, especially how the results could influence the course of treatment for patients. Flow cytometry and polymerase chain reaction methods will be described in details: different applications and clinical indications for application of these two methods; physical, chemical, and biological principles, instruments and procedures; interpretation of results and potential difficulties and problems in use of these methods. In the practical part of the course students will go in details through whole procedure of gene expression analysis by reverse transcription – polymerase chain reaction: RNA isolation, reverse transcription, real-time polymerase chain reaction, and analysis and interpretation of results. In the practical part of the course students will also go in details through whole procedure of flow cytometry immunophenotyping of peripheral blood lymphocytes: isolation of cells, labeling of cells with fluorescently labeled monoclonal antibodies, sample processing in flow cytometer, analysis and interpretation of results.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Students will be able to explain the principles and applications of most important methods used in immunology laboratory.
2. Students will be able to evaluate and choose for which clinical and experimental problems to apply methods of polymerase chain reaction and flow cytometry
3. Students will be able to understand, interpret and apply results of polymerase chain reaction and flow cytometry analysis
4. Students will be able to explain the whole procedure of gene expression analysis by reverse transcription - polymerase chain reaction and flow cytometry immunophenotyping of peripheral blood lymphocytes.

Literature

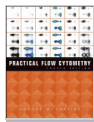


J. Lukač *Imunologija - Skripta za studente Stomatološkog fakulteta Sveučilišta u Zagrebu*, Stomatološki fakultet Sveučilišta u Zagrebu

Additional Literature



Andreis I, Batinić D, Čulo F, i sur. (2010). *Imunologija*, Medicinska naklada



Shapiro HM (2003). *Practical flow cytometry. 4. izdanje.*, Hoboken: Wiley-Liss



Mc Pherson MJ, Moller SG (2006). *PCR. 2. izdanje*, New York: Taylor & Francis

1012

Localized alveolar crest defects, influence on esthetics and the anchors of fixed prosthodontics



PDS-D

Lecturer in Charge



Prof. dr.sc.
Jasmina Stipetić-
Ovčariček

ECTS Credits	4
English Level	L2
E-learning Level	L2
Study Hours	
Lectures	4
Practicals	12
Seminars	4

Course Description

- Causes of localized resorption and alveolar ridge defects
- Prosthetic approach in a problem solving
- Surgical approach in a problem solving
- Assessment of accomplished esthetics

Acquaintance of localized resorption of alveolar ridge, etiology and treatment, researching prevalence per age, sex, index of body mass, success of simple and complicated intervention in mouth, influence of aesthetics of fixed prosthodontic appliance. Research of influence of the number of tooth extracted, periodontic disease and et.

Study Programmes

- » Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Identify of vertical resorption
2. Define and measure horizontal resorption
3. Define and surgically approach in a problem solving
4. Identify and analyse resorption size
5. Define and analyse factors that contribute to resorption

Literature



I.Studer S, Naef Rm Schraerer P. (1997). *Adjustment of localized alveolar ridge defects by soft tissue transplantation to improve musicological esthetics*, Quintessence Int.

Additional Literature



Salama H, Garver DA, Salama MA, Adar P, Rosenberg ES. (1998). *Fifty years of interdisciplinary site development: lessons and guidelines from periodontal prosthesis*, J. Esthet Dent.



Gleghorn T, Westbrook P. (1998). *Aesthetics in anterior crown and bridge*, Dent Today

Management in dental medicine

181



Lecturer in Charge



Izv. prof. dr.sc.
Paris Simeon

ECTS Credits	2
English Level	L1
E-learning Level	L1
Study Hours	
Lectures	6
Practicals	4

Grading

Oral and Power point presentations are evaluated.

Course Description

Modern forms of management emerged under combined influence of economics, entrepreneurship, informatic technology, psychology, sociology toward law science. Management in dentistry is supposed to gather this knowledge and use it as a platform to communicate on an elevated level with a patient on one hand and on the other to be able to manage, integrate and adapt to the needs of profit and nonprofit organizations. Therefore students should learn about health policies, functioning of health systems, services and its clinics. Also the purpose would be to teach the professional and social behaviour of doctors of dental medicine servicing in a properly according to economic and law basics. Finally student should learn it's perspective and possibilities of work in Republic of Croatia. Due to the basic combination of economy and other specialties (as medicine) end the constant evolution and globalization of the medical services market it is necessary to have knowledges of management to be and stay competitive in managing health system, institutions and it's resources.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Recognize basics of management and entrepreneurship in healthcare
2. Recognize and understand the difference between management and entrepreneurship in healthcare
3. Recognize and understand basics, tasks and aims of managers in healthcare
4. Explain basics of client satisfaction management, basics of psychology and approach to the patient and basics of decision making i
5. Explain basics of marketing in healthcare, basics of ethics socially responsible attitude in dental medicine

General Competencies

Student is expected to accept basic management knowledge and know basics of dental office functioning as a part of small businesses management. It is also expected from the students to understand functioning of profit and non-profit health systems.

Literature



Kovačić L. (ur.). *Organizacija i upravljanje u zdravstvenoj zaštiti*. Zagreb. Medicinska naklada 2003.



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Additional Literature



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101. Money management for new
dentists. NYS Dent J
2002;68(4):38-40.



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statistics for practice success. J
Contemp Dent Pract
2002;1(3):55-68



Bahtijarević-Šiber F. Sikavica P.
Leksikon menadženta. Zagreb:
Masmedia; 2001.

Metals and alloys as biomaterials

1020

Lecturer in Charge



Doc. dr.sc.
Andreja Jelinić
Carek

ECTS Credits	3.0
English Level	L3
E-learning Level	L2
Study Hours	
Practicals	8
Seminars	7

Grading

For oral exam, students should have completed an essay.

Course Description

The science of dental metals and alloys includes studies on the composition, properties, processing and their influence on the environment with which they are in contact. Planning types and forms of metals and alloys as a constituent of the structural part of compensation of the tooth or more teeth depended on the development of industry and technological processes. The industry used alloys (eg. steel) have found application in the development of denture base, at first by cold working, or by manually shaping and hardening. Tagart's invention apparatus for casting in 1907 was a turning point in the design and application of metal for restorative-reconstructive procedures in the oral cavity. First used metal in the mouth was gold. Chemical never clean, very soft and extendible, originally

was formed by forging and bending as fixation tape, or as a cohesive gold indenter into the cavity of the tooth. It was a precursor of filling or inlay. Similarly, the injection of crushed glass in the tooth start the application of ceramics.

Gold is too soft, platinum is too hard, silver is chemically reactive. These are all reasons for blending two or more metals to obtain a mixture with optimal properties for use in biological media. Thus, the alloys, ie. a mixtures of metal and metal or metal and non-metals was achieved. Alloys are commonly produced by addition of alloying elements, by which the alloy is appointed, to the molten core component or constituent. Mutual chemical tendency of individual elements is different. There are elements that are inclined to one another in liquid and solid state. Some elements exhibit a partial or no tendency in the solid state. Depending on mutual inclinations components in an alloy, the microstructure and properties of alloys are changed. According to the composition of the crystal lattice, homogeneous, inhomogeneous and heterogeneous structure and mechanical mixtures are distinguished. The mixture of compounds can be obtained by sintering and by compressing metal powders under pressure and elevated temperature respectively. By sintering the homogeneous composition of the mixture is obtained which is more appropriate to call alloy. Alloys with respect to the number of components can be binary, ternary or multicomponent. They are solids at room temperature with the glossy surface, crystalline structure and are castable in a certain time period, ie, within a casting range. As the dental industry offers a vast number of alloys of different composition, for easy selection alloys are systematized according to weight or atomic proportion of the main stand (composition), by purpose and the mechanical properties. According to the component's electropotential, alloys are divided into precious and non-precious alloys. While the precious alloys must be a certain percentage of base components, primarily due to the improvement in mechanical properties,

non-precious alloys generally do not contain precious components. Non-precious alloys are often called basic or alternative alloy. This being assessed as a replacement alloy for the high-gold alloy. Metals and alloys which they will enter into a biological medium must have a positive therapeutic effect. Dental alloys are on the list of medicines and are subject to the law on drugs.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Student will be able to describe, define and select the type of metal and alloy materials for dental applications.
2. Student will be able to analyze and match the relationship between microstructure and properties of materials.
3. Student will be able to recognize, show and identify mechanical properties of metals and alloys as biomaterials.
4. Student will be able to organize and lead laboratory testing in dental practice
5. Student will be able to explain the basic principles and methods for the preparation of biomaterials for dental applications

Literature



Živko-Babić J. Jerolimov V. (2005). *Metali u stomatološkoj protetici.*, Školska knjiga; Zagreb.



J. Anthony von Fraunhofer. (2013). *Dental Materials at a Glance. 2th edition.*



Kenneth J. Anusavice. (2003). *Phillips' Science of Dental Materials*



R.E. Smallman, R.J. Bishop. (1999). *Modern Physical Metallurgy and Materials Engineering.*

Additional Literature



William J. O'Brien. (2008). *Dental Materials and their selection. 4th edition.*

Molecular Biology of Mineralized Tissues

76



Lecturer in Charge



Izv. prof. dr.sc.
Lovorka Grgurević

ECTS Credits	5
English Level	Lo
E-learning Level	L1
Study Hours	
Lectures	10
Practicals	10
Seminars	5

Course Description

During the course, participants will be familiar with the basic structure and function of bone tissue. Will receive new information about new discoveries in the field of biomarkers of bone metabolism with a view corresponding patent applications and granted patents. Participants will gain new insights into the molecular signals involved in the development of teeth and bones during the prenatal period, as well as those required for the maintenance of homeostasis in adulthood. Special attention will be paid to bone morphogenetic proteins and their role in the process cementogenesis and implications for tissue regeneration. Detailed mechanisms of structural changes in tissues and inter- and intra-cellular signaling in the various forms of diseases of the teeth, jaws and other bones will be explained. The students will be introduced to the effects of local and systemic treatment that affect bone remodeling. The advantages and side-effects of different therapies in the correlation to cellular and molecular changes will be shown. The ways of discoveries of new drugs based on the knowledge of molecular biology of mineralized tissues will be described as well as their preclinical and clinical trials.

Study Programmes

» Postdoctorate Study (*methodological courses, 1st semester, 1st year*)

General Competencies

The students are expected to know basic mechanisms of molecular signalization and influence of diseases and treatments on the cells of teeth and bones.

Literature



Lindsay R. Cosman F.
Osteoporosis. In Harrison's
Principles of Internal Medicine.
15th edition. Braunwald E. Fauci
AS. Kasper DL. Hauser SL. Longo
DL. Jameson JL. editors. New
York: McGraw Hill; 2011. p.
2226-36.



Vukičević S. Sampath KT. Bone
Morphogenetic Proteins: From
Laboratory to Clinical Practice.
Basel. Boston. Berlin: Birkhauser
Verlag; 2002.

Additional Literature



Šimic P. Vukičević S. Bone morphogenetic proteins: from developmental signals to tissue regeneration. *EMBO reports*. 2007; 8: 327-321.



Šimic P. Culej JB. Orlić I. Grgurević L. Drača N. Spaventi R. Vukičević S. Systemically administered bone morphogenetic protein-6 restores bone in aged ovariectomized rats by increasing bone formation and suppressing bone resorption. *J Biol Chem*. 2006; 281: 25509-21.



Gambert SR. Schultz BM. Hamdy RC. Osteoporosis: clinical features, prevention and treatment. *Endocrinol Metab Clin N Amer*. 1995; 24: 317-71.

Molecular diagnostics of oral diseases

47



Lecturer in Charge



Prof. dr.sc.
Marinka Mravak-
Stipetić

ECTS Credits 3

English Level L2

E-learning Level L1

Study Hours

Lectures 5

Practicals 8

Seminars 2

Grading

Oral exam, the student defends completed essay.

Course Description

The primary goal of this postgraduate doctorate course is to train students to the methods of molecular medicine applied in clinical practice in the diagnosis of oral diseases, early detection of oral pathogens and neoplastic changes in the oral mucosa. Explain principles of molecular diagnostics and application of the methods of molecular medicine in the diagnosis of oral diseases. Cytological and patohistological diagnostic procedures in oral medicine. Immunohistochemical diagnosis of oral precancerous lesions. Saliva as a diagnostic tool for molecular investigations. Molecular mechanisms premalignant and malign oral lesions. Tumor supressor genes and oncogenes. Application of transcriptomics and proteomics in the detection of oral diseases. Detection and genotypization of microbial causes of mucosal and parodontal diseases. Epidemiology of oncogene viruses. Molecular genetic of oncogene viruses-herpesviruses, papilomaviruses, retroviruses. Signal transduction and oncogenesis. Methods of virus infection control. Methods of molecular analysis of oncogene viruses. Closing seminar: critical analysis of scientific paper from the literature(journal club)

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

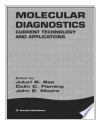
On successful completion of the course, students will be able to:

1. Recognize basic concepts of molecular diagnostics in oral medicine
2. Explain, distinguish and give example of molecular diagnostic tests
3. Apply methods of molecular diagnostics in clinical and research work

General Competencies

Student gains theoretical knowledge about the application and importance of molecular diagnostics methods in early detection of oral mucosa disease; get acquainted with clinical and laboratory procedures; adopt and understand molecular mechanisms that precede to clinical changes and expression of the disease.

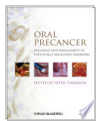
Literature



Juluri R. Rao, Colin Craig Fleming, John Edmund Moore (2006). *Molecular Diagnostics*, Horizon Scientific Press



Charles F. Streckfus (2015). *Advances in Salivary Diagnostics*, Springer



Peter Thomson (2012). *Oral Precancer*, John Wiley & Sons

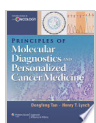


Krešimir Pavelić, Radan Spaventi (1992). *Molekularna onkologija*



Martin S. Greenberg, Michael Glick (2006). *Burketova oralna medicina. Dijagnoza i liječenje*, Medicinska naklada, Zagreb

Additional Literature



Dongfeng Tan, Henry T. Lynch (2012). *Principles of Molecular Diagnostics and Personalized Cancer Medicine*, Lippincott Williams & Wilkins



Brad W. Neville, Angela C. Chi, Douglas D. Damm, Carl M. Allen (2015). *Oral and Maxillofacial Pathology*, Elsevier Health Sciences



Andrew M. Fribley (2016). *Targeting Oral Cancer*, Springer

Morphometric 3D analysis of craniofacial system

3

Lecturer in Charge



Mladen Šljaj

ECTS Credits	4.0
English Level	Lo
E-learning Level	L1
Study Hours	
Lectures	4
Practicals	6
Seminars	10

Course Description

Students will be informed about various methods of 3D view of craniofacial structures (X-ray techniques. 3D laser scanning and stereo-photo technique). objects digitizing procedure and final computerized display of various structures. Some topics as upper and lower jaw structures. teeth and dental arches will be emphasized. In practices. students will be informed about computerized research procedures on digitized objects that are performing at Department of Orthodontics with potential active participation. Students will be included in scanning of different 3D objects by the most comprehensive 3D scanners "Atos". Special attention will be on DICOM file format standard. Students will analyze all captured data with CT and MR devices using specialized software as Simplant and Dolphin. In the seminars. we will critically process all research data from foreign studies that use same methods for acquiring and processing data that includes craniofacial complex morphology or different methodologies and techniques that are introduced into research or lately used for clinical purposes also. Mentioned researches students will collect in the recent scientific literature.

Study Programmes

» Postdoctorate Study (*methodological courses, 1st semester, 1st year*)

General Competencies

Understanding of data from the different 3D devices. x-ray as CT. MR. laser and photo scanners. Operating with data and data research using software for 3D analyses as Simplant. Dolphin. Atos. etc.

Literature



Jacobson A. Jacobson RL.
*Radiographic cephalometry:
From basics to 3-D imaging.*
Quintessence Publishing Co. Inc;
2007.



Proffit WR. Fields HW. Sarver D
M. *Contemporary orthodontics.*
4th edition. Mosby; 2006.



Zilberman O. Huggare JAV.
Parikakis KA. *Evaluation of the
validity of tooth size and arch
width measurements using
conventional and three-
dimensional virtual orthodontic
models.* *Angle Orthod.* 2003;
73:301-306.

Additional Literature



Swennen GRJ. Schutyser FAC. Hausamen JE. *Three-dimensional cephalometry: A color atlas and manual. 1rd edition.* Springer: Berlin; 2005.



Asquith J. Gillgrass T. Mossey P. *Three-dimensional imaging of orthodontic models: A pilot study.* *Eur J Orthod.* 2007; 29(5):517-22.



Iannucci J. Jansen Howerton L. *Dental Radiography: Principles and techniques. 3rd Edition.* Philadelphia: W.B. Saunders Company; 2005.



Quimby ML. Vig KWL. Rashid RG. Firestone AR. *The accuracy and reliability of measurements made on computer-based digital models.* *Angle Orthod.* 2004; 74:293-303.



Hajeer MJ. Millett DT. Ayoub AF. Siebert JP. *Applications of 3D imaging in orthodontics: Part I.* *J Orthod.* 2004; 31:62-70.



Hajeer MJ. Millett DT. Ayoub AF. Siebert JP. *Applications of 3D imaging in orthodontics: Part II.* *J Orthod.* 2004; 31:154-62.

Morphometry in Dental Anthropology

1008



Lecturer in Charge



Doc. dr.sc.
Jelena Dumančić

ECTS Credits	3
English Level	L3
E-learning Level	L1
Study Hours	
Lectures	2
Practicals	6
Seminars	7

Grading

Oral exam consisting of two parts: oral presentation of the elected seminar topic and questions from the subject matter.

Course Description

Human dentition has a number of specific features which make it an excellent system for testing hypotheses of the development of the individual and population changes in time and in a particular geographic area.

Dental morphology is an element of the human dentition that is largely a reflection of the genetic substrate and, only to a lesser extent, of the environment. It includes metric and nonmetric variations i.e. variation in size and shape of the tooth. At the histological level variations are related to the thickness of dental tissues. Other elements of the human dentition, which will be discussed in the course are the number of teeth and the size and shape of the jaws.

Variations are a reflection of evolutionary changes and in living populations there is a visible pattern of geographic variation and variations which occur as a result of chromosomal abnormalities. Sexual dimorphism includes differences between men and women, which are conditioned by the sex chromosomes X and Y. Due to geographical differences in dental variables (continental, regional and local) we can make conclusions about the history of a particular population and about ethnicity. Inheritance of the dental characteristics is complex and is investigated through studies of twins and families, however, influence of the environment should not be ignored. Contemporary research is focused on genetic studies - linking features with the sequence of the human genome. It can be conducted in individuals with the deletion of certain genes and through research of epigenetic factors.

The practical part of the course includes Arizona State University Dental Anthropology System (ASUDAS) for the analysis of the key morphological features of the human dentition, odontometrics and gnathometrics on dental casts. Radiological dental morphometry will include an analysis of the size, number and shape of dental roots and crowns (histological components), including taurodontism evaluation. Besides the living populations, these methods are applicable to fossil hominids and human skeletal populations.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Discuss variations in human dentition that reflect evolutionary changes, population and ethnic differences
2. Describe types of contemporary research in the field of dental anthropology
3. Analyze dental crown and root morphology
4. Apply odontometrics and gnathometrics
5. Design a study in the field of dental anthropology

Literature



Dumančić J (2014). *Postupak vrednovanja ključnih morfoloških obilježja trajne denticije*. Arizona State University dentoantropološki sustav, I. dio, Stomatološki fakultet Sveučilišta u Zagrebu



Irish JD, Nelson GC (2008). *Technique and Application in Dental Anthropology*, Cambridge University Press

Additional Literature



Dumančić J (2014). *Postupak vrednovanja ključnih morfoloških obilježja trajne denticije*. Arizona State University dentoantropološki sustav, II. dio, Stomatološki fakultet Sveučilišta u Zagrebu



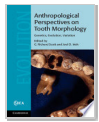
Alvesalo L (2009). *Human sex chromosomes in oral and craniofacial growth*, Elsevier



Grant Townsend, Eisaku Kanazawa, Hiroshi Takayama (2012). *New Directions in Dental Anthropology*, University of Adelaide Press



G. Richard Scott, Christy G. Turner (2000). *The Anthropology of Modern Human Teeth*, Cambridge University Press



G. Richard Scott, Joel D. Irish (2013). *Anthropological Perspectives on Tooth Morphology*, Cambridge University Press



Townsend G, Bockmann M, Hughes T, Brook A (2012). *Genetic, environmental and epigenetic influences on variation in human tooth number, size and shape*, Springer



Dumancic J, Kaic Z, Lapter Varga M, Lauc T, Dumic M, Anic Milosevic S, Brkic H (2010). *Characteristics of the Craniofacial Complex in Turner Syndrome*, Elsevier

Neurological causes of chewing and swallowing (mastication and deglutition) disorders

50



PDS-D

Lecturer in Charge



Prof. dr.sc.
Zlatko Trkanjec

ECTS Credits	3
English Level	Lo
E-learning Level	L1
Study Hours	
Lectures	6
Practicals	2
Seminars	7

Course Description

During the course attendants will get knowledge about epidemiology, etiology, pathophysiology, diagnosis, differential diagnosis, and treatment of neurological diseases that can cause chewing and swallowing disorders. Numerous neurological diseases (cerebrovascular, extrapyramidal, neuromuscular, neurodegenerative diseases) can cause mastication and deglutition disorders. During this course attendants will learn about etiopathogenesis of chewing and swallowing disorders that can be caused by neurological diseases and with modalities of treatment of these diseases. Mastication and deglutition disorders are an area in which neurology and stomatology overlap, and the cooperation between neurologists and stomatologists in diagnostic workup and treatment of patients is necessary.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

General Competencies

Attendants will learn normal functioning of cranial nerves and their disorders, neurological diseases affecting primary head and face, neuromuscular diseases affecting orofacial area, clinical picture and differential diagnosis of bulbar and pseudobulbar palsy, feeding modalities for patients with deglutition disorders, oral cavity care in patients with mastication and deglutition disorders.

Literature



Demarin V (ur.). *Priručnik iz neurologije*. Bjelovar: Prosvjeta. 1998.



Demarin V (ur.). *Moždani krvotok klinički pristup*. Zagreb: Naprijed. 1994.



Demarin V, Trkanjec Z. *Neurologija za stomatologe*. Zagreb: Školska knjiga (u tisku).



Vrhovac B, Francetić I, Jakšić B, Labar B, Vucelić B (ur.). *Interna medicina*. 3. izdanje. Zagreb: Naklada Ljevak. 2003.

Additional Literature



Mumenthaler M. Mattle H. Taub E. Neurology. Stuttgart. New York: Georg Thieme Verlag. 2004.



Goetz GC (ur.). Textbook of clinical neurology. 2. izdanje. Philadelphia: Saunders. 2003.



Judaš M. Kostović I. Temelji neuroznanosti. Zagreb: MD. 1997.



Ropper AH. Brown RH. Adams and Victor's Principles of Neurology. 8. izdanje. New York: McGraw-Hill. 2005.

New findings about melanoma with special emphasis on melanomas of the head and neck

Lecturer in Charge



Prof. dr.sc.
Mirna Šitum

ECTS Credits	4
English Level	Lo
E-learning Level	L1
Study Hours	
Lectures	9
Practicals	7
Seminars	4

Course Description

Basic characteristics of malignant melanoma (MM): risk factors for MM development (sun exposure and reaction of skin, phenotype, familial melanoma, melanocytic nevi, occupation and social status, gender and hormonal factors) and measures of prevention. Tumorigenesis, tumor progression, genetics. Precursor lesions and types of MM (superficial spreading melanoma, acral melanoma, lentigo maligna melanoma, nodular melanoma). Clinical detection of melanoma (ABCDE rule). Follow-up and evaluation in MM patients, psychological aspects of melanoma patients. Review of current knowledge.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)









General Competencies

Students should be introduced to latest findings about the clinical presentation, diagnostics, therapy and follow-up in melanoma patients, especially regarding unique characteristics of melanoma of the head and neck. Prevention of melanoma.

Literature

-  Fitzpatrick TB, Freedberg JM, Eisen AZ, Wolff K, Frak-Austen K, Austen KF, Goldsmith LA, Katz SI. (2003). *Dermatology in General Medicine. 6th ed.*, McGraw-Hill, New York, SAD
-  Burgdorf WHC, Plewig G, Wolff HH, Landthaler M. eds. (2009). *Braun-Falco's Dermatology. 3rd edition.*, Springer, Heidelberg, SR Njemačka
-  Šitum M, Buljan M, Kolić M, Vučić M. *Melanoma - clinical, dermatoscopic, and histopathological morphological characteristics. Acta Dermatovenerol Croat* 2014;22(1):1-12.
-  Eggermont AM, Keilholtz U, Autier P, Ruiter DJ, Lehmann F, Lienard D. *The EORTC Melanoma Group. a comprehensive melanoma research programme by clinicians and scientists. Eur J Cancer* 2002; 38 (4) 114-9.
-  Sekulić A, Hauska P, Miller AJ, De Lamo JG, Ejadi S, Pulido JS, Salomao DR. et al. *Malignant melanoma in the 21st century: The emerging molecular landscape. Mayo Clinic Proceedings* 2008;83(7):825-46.

Additional Literature

-  Flaherty KT, Hodi FS, Bastian BC. *Mutation-driven drug development in melanoma. Curr Opin Oncol.* May 2010;22(3):178-83.
-  Ellerhorst JA, Prieto VG, Ekmekcioglu S, Broemeling L, Yekell S, Chada S, Grimm EA. *Loss of MDA-7 expression with progression of melanoma. J Clin Oncol* 2002; 15;20(4):1069-74.
-  Šitum M, Buljan M. *Surgical and histologic pitfalls in the management of lentigo maligna melanoma. G Ital Dermatol Venereol* 2012;147(1):21-7.
-  Erb P, Ji J, Kump E, Mielgo A, Wernli M. *Apoptosis and pathogenesis of melanoma and nonmelanoma skin cancer. Adv Exp Med Biol* 2008;624:283-95.
-  Goldstein AM, Chidambaram A, Halpern A, Holly EA, Guerry IV D, Sagebiel R, Elder DE, Tucker MA. *Rarity of CDK4 germline mutations in familial melanoma. Melanoma Res* 2002;12(1):51-5.
-  Homolák D, Vučetić B, Puljiz Z, Blajić I, Vurnek Živković M, Šitum M. *Our experiences of melanoma thickness as a predictor of outcome of sentinel node biopsy. Coll Antropol* 2008; 32 (2): 57-60.
-  Cretnik M, Poje G, Musani V, Krušlin B, Ozretić P, Tomas D, Šitum M, Levanat S. *Involvement of p16 and PTCH in pathogenesis of melanoma and basal cell carcinoma Int J Oncol* 2009; 34: 1045-50.
-  Lugović Mihić L, Bulat V, Šitum M, Krolo I, Šešerko A. *The role of apoptosis in the pathogenesis of malignant melanoma. Coll Antropol.* 2010;34 (Suppl 2):303-6.

Odontobiography – the basics of stomatognathic system meta-analysis

1014



PDS-D

Lecturer in Charge



Doc. dr.sc.
Marin Vodanović

ECTS Credits 4

English Level L2

E-learning Level L1

Study Hours

Lectures 5

Practicals 15

Grading

Interpretation of a own meta analysis case.

Course Description

Teeth and mouth are a rich source of information about an individual. An average dentist is able to notice this information but usually is not trained to put them in appropriate context and they stay useless. Someone's biography based on analysis of the teeth and mouths is called odontobiography.

It can be made for living or dead people including skeletons of archaeological origin. The aim of making odontobiography is to reconstruct the life of an individual and to provide as many details as possible from her/his life by analysis of the oral environment. Use your knowledge and learn how to understand when teeth speak.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Define the investigation techniques for examination of anatomy and morphology of oral cavity
2. Define the investigation techniques for examination of pathology of oral cavity
3. Describe a basic meta analysis of oral cavity

Literature



Alt KW, Rösing FW, Teschler-Nicola M (1998). *Dental anthropology, fundamentals, limits and prospects*, Springer-Verlag

Additional Literature



Brkić H (2000). *Forenzička stomatologija*, Školska knjiga



Iscan MY, Kennedy KAR (1989). *Reconstruction of life from the skeleton*, Alan R. Liss Inc



Šlaus M (2006). *Bioarheologija – demografija, zdravlje, traume i prehrana staro hrvatskih populacija*, Školska knjiga

Oral epidemiology

2

Lecturer in Charge



Prof. dr.sc.
Mladen Šljaj

ECTS Credits	6
English Level	Lo
E-learning Level	L1
Study Hours	
Practicals	15
Seminars	15

Course Description

Oral epidemiology domains of interest are oral diseases in population (decay, oral cancer, lesions in oral mucosa, periodontal diseases, craniofacial and dentofacial dysfunctions and anomalies), better organization of dental services effects and health policies, planning and offering a new methods for prevention and oral diseases incidence decreasing, control of execution of these measures and evaluation of results data. Course lectures are realized through five topics: Principles of oral epidemiology, Methodology of researches in epidemiology, Computer technologies in epidemiology, Biostatistics in epidemiology and Dental public health. Course seminars include: Oral diseases indexes, Designing of epidemiology forms and protocols for epidemiology researches, Informing about global oral diseases databases accessible by internet, Working with statistical software SPSS, STATISTICA, SAS and Epidemiology research results interpretation.

Study Programmes

» Postdoctorate Study (*methodological courses, 1st semester, 1st year*)

General Competencies

Students should gain theoretical and practical knowledge needed for creation, execution and interpretation of descriptive, analytical and experimental epidemiological studies.

Literature



Oral Health Surveys - Basic methods. 4th ed. Geneva. 1997.



Burt BA, Ekland SA. Dentistry, Dental Practice, and the Community. 5th ed. 2000.



Treasure E, Bathel P, Richard W. Essential dental public health. Oxford University Press. 2002.



Pelton WJ, Dunbar JB, McMillan RS, Moller P, Wolff AE. The Epidemiology of Oral Health. Harvard University Press. 1969.

Additional Literature



Jamison DT. Breman JG. Disease Control Priorities in Developing Countries. World Bank. 2nd ed. 2006.



Bratthall D. Introducing the Significant Caries Index together with a proposal for a new oral health goal for 12-year-olds. Int Dent J 2000; 50: 378-384.



WHO Geneva. Oral Health Programme - [http://www.whoollab.od.mah.se](http://www.whocollab.od.mah.se)



Lang T. Twenty statistical errors even you can find in bio medical research articles. Croat Med J. 2004;45:361-70.

Oral-Medical Aspects of Systemic Autoimmune Diseases

53



PDS-D

Lecturer in Charge



Izv. prof. dr.sc.
Dolores Biočina-
Lukenda

ECTS Credits	4
English Level	Lo
E-learning Level	L1
Study Hours	
Lectures	6
Practicals	7
Seminars	7

Course Description

In this course, students will, through a recommended schedule, be introduced to the problems of systemic autoimmune diseases. The specified diseases manifest themselves on the oral mucosa with a characteristic clinical picture (Arthritis reumatoides, Sill disease, Sjögren syndrom, SLE, Sclerodermia, Polyomiositis / Dermatomyositis, Mixed connective tissue disease, Idiopathic thrombocytopenic purpura) and can start a series of changes on the oral mucosa itself which are evident by the appearance of autoimmune diseases characteristic for the oral mucosa, such as oral lichen ruber and aphtae. In addition, due to a disorder in immunoglobulin synthesis, which is the base of a majority of systematic autoimmune diseases and can transfer into monoclonal hypergamaglobulinemia, it is not unusual that manifestations of paraneoplastic syndromes may appear together with oral lichen, aphtae majors and pemphigus. To attain this it is imperative to be familiar with modern diagnostic methods and have an appropriate therapeutic approach towards patients with clinical recognition of autoimmune diseases. The course includes a presentation of all mentioned autoimmune diseases, an introduction to disease epidemiology and etiology, presentation of pathogenic mechanisms, clinical pictures, noted oral changes, diagnostic criteria, diagnostic tests (inflammatory activity test, hematological tests, immunological tests and radiographic tests) with specific immunotherapy.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

General Competencies

Understanding the pathogenic mechanisms of systemic autoimmune diseases, their appearance on oral mucosa, the purpose and importance of the diagnostic approach to a patient and the treatment approach with emphasis on local therapy.

Literature



Parslow TG i sur. *Medical Immunology*. Edinburg: Mosby; 2001.



Roitt I. i sur. *Immunology*. Edinburg: Mosby; 2001.



Davidson A. Diamond B. *Advances in Immunology*. New Engl J Med. 2001;345:340.



Greenberg MS. Glick M. *Burkets Oral Medicine. Diagnosis and Treatment*. Hamilton. Ontario: BC Decker Inc; 2003.



Sherman LA. Chess L. *Autoimmunity*. Curr Opin Immunol. 2001;13: 637.

Additional Literature



Vrhovac B. i sur. *Interna medicina*. Zagreb: Medicinska biblioteka; 2003.



Troulis JM. Coope C. O'Neill MJ. Kaban LB. *Ultrasound assessment of the distraction osteogenesis wound in patients undergoing mandibular lengthening*. J Oral Maxillofac Surg. 2003 Oct;61(10):1144-9.



Mandel L. Dehlinger N. *Primary biliary cirrhosis and Sjogrens syndrome: case report*. J Oral Maxillofac Surg. 2003 Nov;61(11):1358-61.



Saurit V. Canpana R. Ruiz Lascano A. *Mucocutaneous lesions in patients with systemic lupus erythematosus*. Medicina (B Aires). 2003;63(4):283-7.



Tam LS. Fan B. Li EK. *Patients with systemic lupus erythematosus show increased platelet activation and endothelial dysfunction induced by acute hyperhomocysteinemia*. J Rheumatol. 2003 Jul;30(7):1479-84.



Thai KE. Barrett W. Kossard S. *Reactive angioendotheliomatosis in the setting of antiphospholipid syndrome*. Australas J Dermatol. 2003 May;44(2):151-5.



Kobayashi T. Ito S. Yamamoto K. *Risk of periodontitis in systemic lupus erythematosus is associated with Fc gamma receptor polymorphisms*. J Periodontol. 2003 Mar;74(3):378-84.



Oda Y. Kagami H. Tohnai I. Ueda M. *Asynchronously occurring bilateral mandibular hemorrhagic bone cysts in a patient with idiopathic thrombocytopenic purpura*. J Oral Maxillofac Surg. 2002 Jan;60(1):95-9.



Kondo H. Imamura T. *Pernicious anemia (PA) subsequent to insulin-dependent diabetes mellitus and idiopathic thrombocytopenic purpura. and effects of oral cobalamin on PA*. Am J Hematol. 1999 Sep;62(1):61-2.



Chang DK. Yoo DH. Kim TH. Jun JB. Lee IH. *Induction of remission with intravenous immunoglobulin and cyclophosphamide in steroid-resistant Evans syndrome associated with dermatomyositis*. Clin Rheumatol. 2001;20(1):63-6.

Orthodontic and surgical treatment of skeletal face deformations

59



PDS-D

Lecturer in Charge



Prof. dr.sc.
Vedran Uglešić

ECTS Credits	2
English Level	Lo
E-learning Level	L1
Study Hours	
Lectures	3
Practicals	4
Seminars	3

Course Description

Since introduction of computer technology and new surgical techniques, planning and treatment of skeletal deformations in the past few years has reached a new level. In orthognatic surgery multidisciplinary approach, cooperation of dentists and maxillofacial surgeons, is necessary because detection of the deformations, planning and timing of definite treatment is crucial for success of the therapy. Purpose of this course is to introduce doctors of dental medicine with localization and treatment plan of skeletal deformations. During the course attendants will be introduced with specific clinical inspection and diagnostics, manual and computer analisys of clinical photographs and dental casts, cephalometrics of LL and AP craniograms. Specal focus will be put on specific orthodontic procedures before, during and after the surgical procedure. Attendants will be introduced with surgical techniques for treatment of mandibulary prognathism, mandibulary retrognathism, maxillary retrognathism and maxillary micrognathism. Also surgical techniques for treatment of macro and microgenia and bimaxillary osteotomy will be presented. Course of the planning of orthodontic and surgical treatment will be illustrated with clinical examples from orthognatic database of Maxillofacial department of Dubrava University hospital.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

General Competencies

Identify and distinguish dentoalveolar from skeletal deformity. Role of dentists and orthodonts in treatment of skeletal deformations. Diagnostics of skeletal deformations. Sequence of orthodontic and surgical treatment of skeletal deformations. Possibilities and limits of orthodontic and surgical treatment of skeletal deformations.

Literature



Bagatin M. Virag M i suradnici. Maksilofacijalna kirurgija. Zagreb: Školska knjiga. 1991.



Epker BN, Wolford LM. Dentofacial deformities. Surgical-orthodontic correction. London: Mosby. 1980.

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Oxidative stress

Lecturer in Charge



Prof. dr.sc.
Jasna Lovrić

ECTS Credits	2
English Level	L1
E-learning Level	L1
Study Hours	
Lectures	5
Practicals	1
Seminars	4
Grading seminar	

Course Description

Oxidative stress is known to be one of the causative agents of numerous physiological and pathological processes like ageing, inflammation, atherosclerosis, ischemia - reperfusion, shock, sepsis, carcinogenesis, and autoimmune diseases. During the course, students will be given brief outline of the action of free radicals and reactive species and of their impact in the body. Particular attention will be paid to the assessment of the role of antioxidants. Examples will be given of the association between the oxidative stress, total salivary antioxidant activity and periodontal disorder. The topics of lectures, seminars and practicals: The sources of formation of free radicals and ROS and RNS and their role in metabolic processes Harmful effects of radicals Physiological and pathological characteristics of lipid peroxidation Free radicals in drug metabolism (statins, gemfibrozil, halothane, paracetamol, etc.) Laboratory parameters of oxidative stress: direct and indirect procedures (TBARS, FOX; markers of OS: 8-hydroxyguanine, MDA, HNE, isoprostanes, conjugated dienes, protein carbonyls). In order to determine the oxidative status of an individual, it has been proposed that determination should be made of markers of lipid peroxidation, protein oxidation and total antioxidative status and, ideally, of a marker of DNA damage. Oxidative stress and atherosclerosis - the role of gene variants eNOS, MnSOD, PON, MTHFR, ACE, GST, Lp-PLA₂ Oxidative stress and salivary antioxidant status - salivary biomarkers Antioxidant efficacy: enzymic and nonenzymic high and low-molecular antioxidants.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Describe free radicals and reactive oxygen and nitrogen species. Student can describe oxidative stress.
2. Analyze the relationship between the reactive form of the disease
3. Explain the formation of radicals in the metabolism of drugs
4. Apply laboratory indicators of oxidative stress
5. Distinguish antioxidants

General Competencies

After having passed the exam, students will possess theoretical knowledge related to the field of the chemistry of free radicals and their effect on the body. Students will be familiar with new scientific insights associated with biomarkers of oxidative stress, with particular attention to salivary biomarkers that they will be able to apply in their scientific studies.

Literature



R. K. Murray i surad (2011). *Harperova ilustrirana biokemija; prijevod 28 izdanja udžbenika*, Medicinska naklada 2011..



Barry Halliwell and John MC Gutteridge: (2015). *Free Radicals in Biology and Medicine.*, Oxford univerity, Fifth edition.



J. Frijhoff, P. G. Winyard, N. Zarkovic at all (2015). *Clinical Relevance of Biomarkers of Oxidative Stress, Antioxidants & Redox Signaling*

Additional Literature



J. Sertić i suradnici (2015). *Klinička kemija i molekularna dijagnostika u kliničkoj praksi*, Medicinska naklada



Ilasta Bradamante, Zdravko Lacković i suradnici (210). *Oksidativni stres i djelotvornost antioksidansa.*, iblioteka stalnog medicinskog usavršavanja; Medicinska naklada

Periodontium, periimplant tissues and occlusal forces

336



Lecturer in Charge



Izv. prof. dr.sc.
Andrej Aurer

ECTS Credits	2
English Level	Lo
E-learning Level	L1
Study Hours	
Lectures	5
Seminars	5

Course Description

1. Periodontal ligament. its homeostasis. physical forces and PDL. physiologic tooth mobility. tooth mobility and response to therapy. tooth mobility as prognostic factor. pathologic tooth mobility 2. traumatic occlusion. occlusal trauma. occlusal trauma in experimental animal model. therapy of tooth mobility 3. occlusal concepts in periodontics. clinical occlusal analysis. occlusal interferences. occlusal adjustment 4. periimplant tissues and occlusion. occlusal overload 5. therapy of partial edentulosity in patients with periodontitis occlusal changes in patients with periodontitis

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

General Competencies

The participants are required to possess basic knowledge of the anatomy and function of the periodontal ligament and periimplant tissues. in health and disease which allow distribution and transfer of occlusal forces and understanding basic terms pertaining to occlusion and periodontium. Also knowledge of the scientific literature about periodontal ligament. periodontitis and occlusion.

Literature



Role of physical forces in regulating the form and function of the periodontal ligament. McCulloch CAG, Lekic P, McKee MD. Periodontology 2000 2000;24:56-72.



Occlusal forces as a risk factor for periodontal disease. Harrel SK. Periodontology 2000 2003;32:III-7.



The association of occlusal contacts with the presence of increased periodontal probing depth. Harrel SK, Nunn ME. J Clin Periodontol 2009;36:1035-42



Occlusal analysis. diagnosis and management in the practice of periodontics. Hallmon WW. Harrel SK. Periodontol 2000 2004;34:151-64



The effect of occlusal discrepancies on gingival width. Harrel SK, Nunn ME. J Periodontol 2004;75:98-105

Additional Literature



Periodontal ligament areas and occlusal forces in dentitions restored with cross-arch unilateral posterior two-unit cantilever bridges. Laurell L. Lundgren D. J Clin Periodontol 1986;13:33-8



Is there an association between occlusion and periodontal disease. Harrel Sk. Nunn ME. Hallmon WW. JADA 2006;137:1380-92. 6.



. A randomized trial of occlusal adjustment in the treatment of periodontitis patients. Burgett FG. Ramfjord SP. Caffesse RG. J Clin Periodontol 1992;19:381-7



Prognostic model for tooth survival in patients treated for periodontitis. Faggion CM Jr. Petersilka G. Lange DE. J Clin Periodontol 2007;34:226-31



Correlation between periodontal status and biting force in patients with chronic periodontitis during the maintenance phase of therapy. Takeuchi N. Yamamoto T. J Clin Periodontol 2008;35:215-20. 7.

1007

Prosthodontic patient and quality of life evaluation after prosthodontics: questionnaires, factor analysis and psychometric qualities

Lecturer in Charge



Prof. dr.sc.
Asja Čelebić

ECTS Credits	4
English Level	L3
E-learning Level	L1
Study Hours	
Lectures	6
Practicals	7
Seminars	7
Grading	
oral exam	

Course Description

The aim of prosthodontic therapy is to improve the quality of life by means of aesthetic and functional rehabilitation. Evaluation of a success of any prosthodontic rehabilitation is not simple, and is based not only on the skill and knowledge of therapists, but also on the patient's psychological and social factors. Various validated questionnaires are used to assess the effectiveness of prosthodontic or any dental therapy. To be able to use already existin questionnaires, after translating them, they need to be validated and assessed (convergent and divergent validity, reliability, and so on). A measurement of success of a therapy, the type of scales used for assessment, questionnaires and their validation will be discussed in this topic. Oral Health Related Quality of life will be discussed.

Study Programmes

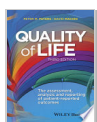
» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Identify instruments appropriate for evaluation of a dental therapy
2. Identify aspects of quality of life assessment
3. Use appropriate methods for validation of some questionnaires
4. Identify scales used for assessment
5. Identify dimensions of a questionnaire

Literature



Peter M. Fayers, David Machin (2016). *Quality of Life*, John Wiley & Sons



Ed Diener (2009). *The Science of Well-Being*, Springer Science & Business Media

Recent techniques in dental implantology

68



Lecturer in Charge



Prof. dr.sc.
Davor Katanec

ECTS Credits	3
English Level	Lo
E-learning Level	L1
Study Hours	
Lectures	6
Practicals	4
Seminars	5

Course Description

Through lectures and seminars it will be shown comparison between classical surgical techniques in dental implantology (lateral approach of maxillary sinus floor elevation, two-stage technique of dental implant placement) with recent techniques (balloon sinus floor elevation technique, immediate dental implant placement, minimally invasive surgical approaches in dental implantology), and bone management techniques (bone transfer, intraoral bone transplants, vertical and horizontal bone augmentation of alveolar ridge), and techniques of alveolar ridge augmentation with the purpose for preparation of the future implant site with different methods and materials (autologous bone graft, xenogenic materials, synthetic materials, combination of materials), and guided bone regeneration techniques in dental implantology. Mentioned content will be presented to the students with the accent on the scientific aspect of follow-up protocol results of computed densitometry analysis (CADIA) and resonance frequency analysis (Osstell apparatus), and also all possibilities of scientific comparison between techniques and materials, and the following results.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

General Competencies

Theoretic knowledge of all modern techniques and materials in dental implantology and recognition of indications and contraindications of their usage in daily clinical practice, and knowledge of results which can be accomplished with their usage.

Literature



Sjöström M. Lundgren S. Nilson H. Sennerby L. Monitoring of implant stability in grafted bone using resonance frequency analysis. A clinical study from implant placement to 6 months of loading. *Int J Oral Maxillofac Surg* 2005; 34: 45-51.



Woo VV. Chuang SK. Daber S. Muftu A. Dodson TB. Dentoalveolar reconstructive procedures as a risk factor for implant failure. *J Oral Maxillofac Surg* 2004; 62: 773-80.



Bischof M. Nedir R. Moncler SS. Bernard JP. Samson J. Implant stability measurement of delayed and immediately loaded implants during healing. A clinical RFA study with SLA ITI implants. *Clin Oral Implants Res* 2004; 15: 529-39.



Covani U. Crespi R. Cornelini R. Barone A. Immediate implants supporting single crown restoration: a 4-year prospective study. *J Periodontol* 2004; 75: 982-8.



Barone A. Covani U. Cornelini R. Gherlone E. Radiographic bone density around immediately loaded oral implants. A case series. *Clin Oral Implants Res* 2003; 14: 610-5.

Additional Literature



Prussaefs P. Lozada J. The use of resorbable collagen membrane in conjunction with autogenous bone graft and inorganic bovine mineral for buccal/labial alveolar ridge augmentation: a pilot study. *J Prosthet Dent* 2003; 90: 530-8.



Capelli M. Autogenous bone graft from the mandibular ramus: a technique for bone augmentation. *Int J Periodontics Restorative Dent* 2003; 23: 277-85.



Schultes G. Gaggl A. Histologic evaluation of immediate versus delayed placement of implants after tooth extraction. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod* 2001; 92: 17-22.



Brugnami F. Then PR. Moro i H. Kabani S. Leone CW. GBR in human extraction sockets and ridge defects prior to implant placement: clinical results and histologic evidence of osteoblastic and osteoclastic activities in DFDBA. *Int J Periodontics Restorative Dent* 1999; 19: 259-67.



Becker W. Urist M. Becker BE. Jackson W. Parry DA. Bartold M. Vincenzi G. De Georges D. Niederwanger M. Clinical and histologic observations of sites implanted with intraoral autologous bone grafts or allografts. 15 human case reports. *J Periodontol* 1996; 67: 1025-33.



Oh TJ. Shotwell JL. Billy EJ. Wang HL. Effect of flapless implant surgery on soft tissue profile: a randomized controlled clinical trial. *J Periodontol*. 2006;77:874-82.



Becker W. Goldstein M. Becker BE. Sennerby L. Minimally invasive flapless implant surgery. *Clin Implant Dent Relat Res*. 2005;7 Suppl 1:S21-7.



Flanagan D. Flapless dental implant placement. *J Oral Implantol*. 2007;9(1):34-45.



Wittwer G. Adeyemo WL. Schicho K. Gigo vic N. Turhani D. Enislidis G. Computer-guided flapless transmucosal implant placement in the mandible: a new combination of two innovative techniques. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod*. 2006;101:718-23.



Casap N. Kreiner B. Wexler A. Kohavi D. Flapless approach for removal of bone graft fixing screws and placement of dental implants using computerized navigation. *Int J Oral Maxillofac Implants*. 2006;21:314-9.

Regenerative periodontal therapy and tissue engineering

1070



PDS-D

Lecturer in Charge



Doc. dr.sc.
Darko Božić

ECTS Credits	2.0
English Level	L3
E-learning Level	L1
Study Hours	
Lectures	3
Practicals	4
Seminars	3

Grading

At the end of lectures and practices students will take a written exam with multiple choice answers

Course Description

Regenerative periodontal therapy has a goal to reconstruct lost periodontal tissues in order to change the prognosis of these teeth. There are certain problems in periodontal regeneration, primarily predictable regeneration of different tissues that constitute the periodontium. Although long term results show great success this treatment option is still, unfortunately, reduced to a small number of patients. During the last 35 years different techniques and methods have been developed to regenerate the periodontium some of which have been very poor and some have shown substantial clinical advances. Still, the main goal, complete regeneration, is still elusive. In the last 10 years growth factors have become standard treatment approaches in regenerating the periodontium. But, even they have not lead to greater predictability. The development of new technologies and approaches has led to the discovery of a new osteogenic device with superior effects on bone regeneration in comparison to other BMP devices. A special emphasis will be given to the results obtained with this device and the importance of microCT diagnostics in analyzing these results.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Students will be informed about the clinical limitations and problems in current approaches in regenerating the periodontium and why there is a need for a quantum leap.
2. Students will get scientific knowledge of state-of-the-art achievements in the field of regenerative surgery and tissue engineering
3. The student will be introduced to the diagnostics and visualization of histologic specimens utilizing the microCT and its advantages to other methods
4. Students will be introduced into the process of molecule discovery and their potential clinical application
5. Students will be introduced into the process of cell isolation and gene and proteomic analysis

Literature

Predavanja i powerpoint prezentacije predavača



Vukičević, Sampath (2008). *Bone morphogenetic proteins: From local to systemic therapeutics*, Birkhauser



DARBY IB, MORRIS KH (2013). *A SYSTEMATIC REVIEW OF THE USE OF GROWTH FACTORS IN HUMAN PERIODONTAL REGENERATION*, J PERIODONTOL



Lynch, Marx, Nevins (2008). *Tissue engineering*, Quintessence publishing Co



Vukicevic S et al (2014). *The clinical use of bone morphogenetic proteins revisited: a novel biocompatible carrier device OSTEOGROW for bone healing*, Int Orthop

Release ions mineral from hard tissue teeth influence egzogenic and endogenic factors

54



PDS-D

Lecturer in Charge



Izv. prof. dr.sc.
Marina Katunaric

ECTS Credits	3
English Level	Lo
E-learning Level	L1
Study Hours	
Lectures	2
Practicals	11
Seminars	2
Grading	
Oral exam	

Course Description

Diagnostic procedures and tests in range from clinical to chemical-laboratory and physical-laboratory tests. Experimental demineralisation on extracted teeth or on animal model. Hystologic analysis of demineralisation. light, reflexive or electron microscopy analysis. Analysis of pH value of stimulated and non-stimulated saliva. Buffers in saliva. Mineralisation and mineralisation defects in dental tissues. Laboratory analysis of influence of different factors and degrees of mineralisation. Experimental measurements of stress distribution in enamel and dentin tissue under loading, as well as the analysis of possible fracture lines exogenic and endogenic factors. Analysis of success of different therapeutic approach. Literature search. Discussion on new results from recent literature.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Collect medical history
2. Choose therapy

General Competencies

To recognise problems of non-carious lesions on mineralised dental tissues and success of different therapies. therapy possibilities. Knowledge on new literature and literature search about the above mentioned problem. Therapeutic possibilities and knowledge on the research about success of different methods.

Literature



Cohen B. Kramer IRH. *Scientific foundation of dentistry*. London 1976.



Williams RAD. Elliot JC. *Basic and applied dental biochemistry*. Edinburgh. London. New York. 1979.



Phelan JM. Rees JS. *The erosive potential of some herbal teas*. *J Dent*. 2003;31:241-246



Jenkins GN. *The Physiology and Biochemistry of the mouth*. Lackwell Sci Pub. Oxford. 2000.



Suliaman M. MacDonald E. Rees JS. Addy M. *Comparison of three in-office bleaching systems based on 35% hydrogen peroxide with different light activators*. *Am J Dent*. 2005 Jun;18(3):194-7.

Additional Literature



Weerheijm KL. *Molar incisor hypomineralization (MIH): clinical presentation, aetiology and management*. *Dent Update*. 2004 Jan-Feb;31(1):9-12.



Barbour ME. Parker DM. Allen GC. Jandt KD. *Human enamel erosion in constant composition citric acid solutions as a function of degree of saturation with respect to hydroxyapatite*. *J Oral Rehabil*. 2005 Jan;32(1):16-21.



Barbour ME. Parker DM. Jandt KD. *Enamel dissolution as a function of solution degree of saturation with respect to hydroxyapatite: a nanoindentation study*. *J Colloid Interface Sci*. 2003 Sep 1;265(1):9-14.



Hooper SM. Hughes JA. Newcombe RG. Addy M. West NX. *A methodology for testing the erosive potential of sports drinks*. *J Dent*. 2005 Apr;33(4):343-8. Epub 2004 Dec 25.



Rees JS. Jin LJ. Lam S. Kudanowska I. Vowles R. *The prevalence of dentine hypersensitivity in a hospital clinic population in Hong Kong*. *J Dent*. 2003 Sep;31(7):453-61.



Barbour ME. Parker DM. Allen GC. Jandt KD. *Human enamel dissolution in citric acid as a function of pH in the range 2.30 < or = pH < or = 6.30 - a nanoindentation study*. *Eur J Oral Sci*. 2003 Jun;111(3):258-62.



Barbour ME. Rees JS. *The laboratory assessment of enamel erosion: a review*. *J Dent*. 2004 Nov;32(8):591-602. Review.



Barbour ME. Parker DM. Allen GC. Jandt KD. *Enamel dissolution in citric acid as a function of calcium and phosphate concentrations and degree of saturation with respect to hydroxyapatite*. *Eur J Oral Sci*. 2003 Oct;111(5):428-33.



Hooper SM. Meredith N. Jagger DC. *The development of a new index for measurement of incisal/occlusal tooth wear*. *J Oral Rehabil*. 2004 Mar;31(3):206-12.



Tziafas D. *The future role of a molecular approach to pulp-dentinal regeneration*. *Caries Res*. 2004 May-Jun;38(3):314-20. Review.

Scientific approach to genetics, epidemiology, patophysiology, diagnostics and pain treatment in the head and neck region

1004



PDS-D

Lecturer in Charge



Izv. prof. dr.sc.
Vanja Bašić Kes

ECTS Credits	6
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English Level	Lo
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E-learning Level	L1
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Study Hours	
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Lectures	8
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Practicals	10
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Seminars	12
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Course Description

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Scientific research in psychostomatology

60

Lecturer in Charge



Doc. dr.sc.
Dalibor Karlović

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 angažmananga\mankolokvijscientific 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 fobia, malocclusion, atypical facial pain, etc.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

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

General Competencies

Ability to evaluate scientific literature in the area of psychostomatology and to enabling the participant to undertake psychostomatology research. Knowledge of aetiology, especially on oral diseases. comorbidity of idiopathic oral diseases (chronic orofacial painful syndromes. stomatopyrosis. xerostomy etc.).

Literature



Buljan D, Šitum M. (2007).
Psihodermatologija,
Jastrebarsko: Naklada Slap



Kaplan H, Sadock B. (1998).
Priručnik kliničke psihijatrije,
Jastrebarsko: Naklada Slap

ECTS Credits	4
English Level	L3
E-learning Level	L1
Study Hours	
Lectures	6
Practicals	7
Seminars	7

Grading

Exam is seminary work (discussion about scientific research in psychostomatology) and research proposal in psychostomatology.



Additional Literature



Američka psihijatrijska udruga (2014). *Diagnostički kriteriji iz DSM-5, međunarodna verzija s MKB-10 šiframa*, Jastrebarsko: Naklada Slap



Amos JJ, Robinson RG, ed. (2010). *Psychosomatic Medicine, an introduction to consultation-liaison psychiatry*, Cambridge University Press

Sinus lifting-evaluation of different operating technics

93



PDS-D

Lecturer in Charge



Izv. prof. dr.sc.
Berislav Perić

ECTS Credits	4
English Level	Lo
E-learning Level	L1
Study Hours	
Lectures	4
Practicals	6
Seminars	10

Course Description

Introducing with anatomical and functional structures significant for the sinus lifting. examination and x-ray analysis. Define indications and contraindications for operative treatment. Evaluation of technics and efficiency of closed sinus lifting technic. open sinus lifting technic with delay implantation and open technic with immediate implantation. Introducing with possible complications.

Study Programmes

» Postdoctorate Study (branch courses, 1st semester, 1st year)

General Competencies

Evaluation of indications. different operative technics. pros and cons of sinus lifting based on clinical review. x-ray analyses and new scientific acknowledgement.

Literature



Jensen OT. *The sinus bone graft.* Illinois: Quintessence Publishing 1999.



Lindhe J. Karring T. Lang PN. *Klinička parodontologija i dentalna implantologija.* Zagreb: Nakladni zavod Globus 2004.



Misch CE. *Contemporary implant dentistry.* St Louis: Mosby-Year Book 1993.

Additional Literature



Garg AK. *Augmentation grafting of the maxillary sinus for placement of dental implants: anatomy, physiology and procedures.* *Implant Dent* 1999;8:36-46.



Gabrić D. Katanec D. *Elevacija dna maksilarnog sinusa.* *Acta Stomatol Croat* 2007; 41: 57-65.

Stomatognathic bone tissue analysis; the impact of functional wear, aging, implant therapy and/or prosthetics

1006



PDS-D

Lecturer in Charge



Prof. dr.sc.
Asja Čelebić

ECTS Credits	4
English Level	L3
E-learning Level	L3
Study Hours	
Lectures	6
Practicals	7
Seminars	7
Grading	
oral exam	

Course Description

Bone tissue assessment of the maxilla and the mandible is very important when planning prosthodontic or implant-prosthodontic therapy. Periodontal alveolar bone quantity and quality is important when planning fixed dentures, and alveolar bone quantity and quality is important when planning removable dentures and implant-prosthodontic dentures. Students will repeat detailed anatomy and histology of cortical and cancellous bone. They will analyse cortical qualitative and quantitative indices, densitometric data using a calibrated stepwedge, CBCT densities using Hounsfield units according to MISCH division of alveolar bone into D1, D2, D3 and D4 densities. Soft tissue above alveolar bone will be analyzed, as well, together with removable denture movements and forces directed to alveolar bone and periodontal tissue.

Circumstances of a severe alveolar atrophy will be discussed and methods to prevent them. Influence of osteoporosis to the jaw bone will be discussed. Osseonecrosis will be defined. Growth factors

Study Programmes

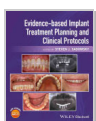
» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Assess a degree of alveolar ridge atrophy
2. Assess periodontal status of the abutment teeth
3. Identify a degree of resorption of mandibular cortex
4. Classify bone density using CBCT 3D images
5. Use of acquired knowledge for appropriate planning of implant-prosthodontic therapy

Literature



Steven J. Sadowsky (2016).
Evidence-based Implant Treatment Planning and Clinical Protocols, Wiley-Blackwell



R. Bruce Martin, David B. Burr,
Neil A. Sharkey, David P.
Fyhrie (2015). *Skeletal Tissue Mechanics*, Springer

1120

Successful evaluation of preventive and minimally invasive procedures for the treatment of dental hard tissue

Lecturer in Charge



Izv. prof. dr.sc.
Bernard Janković

Course Description

The modern concept of dental medicine indicates a growing need for early detection of the teeth damage and the prevention of its creation. Assessment of the risk of such damage is individual for each patient. This is why there are numerous tests to assess the risk of caries. It is imperative that during the restorative procedure unnecessary loss of healthy tooth tissue is minimal. Methods of preparation for the selected restorative material must be such as to ensure the bond strength and not to jeopardize the longevity of the restoration. Bonding mediator, ie. adhesive system for esthetic restorative materials is required. In this course, students will gain the knowledge necessary for early detection of caries and non-caries damages, how to choose the appropriate restorative material and use it to reconstruct the damaged crown. In the seminar part of the course, through review of recent literature, students will complement their knowledge on the given topics that will be presented in the form of a seminar paper. As part of the practical exercises they will evaluate the quality of adhesion of different materials to dentin with device for measuring tensile forces. They will also be informed about the possibility of individual risk assessment of caries by Caries Risk Test.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Modern procedures for objective caries detection
2. Identification and implementation of adequate material for reconstruction
3. Proper preparation and hard dental tissue management for restorative
4. Evaluation of restorative procedure success

ECTS Credits 3.0

English Level L2

E-learning Level L2

Study Hours

Lectures 9

Practicals 5

Seminars 3

Grading

Before the exam, students must have completed and presented to the seminar, and the exam is in oral form

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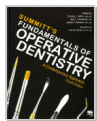
Literature



V Jerolimov i sur *Osnove stomatoloških materijala*



Anders Thylstrup and Ole Fejerskov *Textbook of Clinical Cariology*



Thomas J. Hilton, Jack L. Ferracane, James C. Broome (2013). *Summitt's Fundamentals of Operative Dentistry*, Quintessence Publishing (IL)

Additional Literature



Van Meerbeek and ass (2003). *Adhesion to Enamel and Dentin: Current Status and Future Challenges*, Operative Dentistry

Temporomandibular pain and osteoarthritis

1030

Lecturer in Charge



Izv. prof. dr.sc.
Tomislav Badel

ECTS Credits 5.0

English Level L3

E-learning Level L2

Study Hours

Lectures 4

Practicals 10

Seminars 12

Grading

To take the oral exam the seminar paper should be written first.

Course Description

Status and relevance of diagnostics and differential diagnostics of temporomandibular and other orofacial pain with nonodontogenic etiology in dental-medical and medical theory and practice.

The course is based on the fact that osteoarthritis of temporomandibular joint is one of the degenerative diseases also affecting other joints in the body. The histological specificity of articular cartilage (combination of hyaline and fibrous cartilage) as well as functional loading of the temporomandibular joint is the basis for creating a model of the initial lesion in the chondrocytes metabolism and then changes on the subchondral bone. The biochemical level of the osteoarthritic lesion is regularly related to the exposure of articular cartilage to excessive mechanical stress. Learning about these facts will give the candidates a foundation in studying the clinical picture of osteoarthritis of the temporomandibular joint. Biochemical processes are a part of the explanation of morphological changes in various stages of osteoarthritis development, which is related to the development of painful sensations and detecting of various biomarkers for a potential causal treatment of this illness. Therefore, the aim of the course is to connect clinical features with radiological signs of osteoarthritis and with cone beam computerized tomography (MSCT) as the new standard. A comparative review of dominantly inflammatory illnesses of connective tissues and joints (rheumatoid arthritis, etc.) will be given and of the more rare pathological process of synovial joint damage, including the temporomandibular joint. With respect to the revised clinical diagnostics, the specific features of the current concept of TMJ diagnostics will be explained.

The knowledge acquired within this course will familiarize the candidates with the neurological and physiatric-rheumatologic view of the differentiation and selection of diagnostic methods and treatment of musculoskeletal and neuropathic pain in the stomatognathic system.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Use clinical methods to identify osteoarthritis of temporomandibular joint
2. Relate clinical symptoms to histological characteristics which describe osteoarthritis of temporomandibular joint
3. Understand diagnostic possibilities of differentiation between inflammatory and non-inflammatory (degenerative) diseases of the temporomandibular joint

4. Understanding the relation between clinical features of temporomandibular pain and possibilities of treatments
5. Analyze the effects of exogenous factors as the etiopathogenic basis for the development of the temporomandibular joint disorders

Literature



Badel T, Savić Pavičin I, Zadavec D, Krapac L, Kern J. (2012). *Osteoarthritic temporomandibular joint changes confirmed by magnetic resonance imaging*. *Reumatizam*, Hrvatsko reumatološko društvo HLZ-a



Greene CS, Laskin DM. (eds.) (2013). *Treatment of TMDs: Bridging the Gap Between Advances in Research and Clinical Patient Management*, Chicago: Quintessence



Badel T. (2007). *Temporomandibularni poremećaji i stomatološka protetika*, Zagreb: Medicinska naklada



Miles DA (2013). *Atlas of Cone Beam Imaging for Dental Application*, Chicago: Quintessence



Loeser RF (2013). *Osteoarthritis year in review 2013: biology*, Osteoarthritis Cartilage

Additional Literature



Lotz M, Loeser RF. (2012). *Effects of aging on articular cartilage homeostasis*. *Bone*, Elsevier



Badel T, Savić Pavičin I, Krapac L, Zadavec D, Rosić D. (2014). *Psoriatic arthritis and temporomandibular joint involvement – literature review with a reported case*, Acta Dermatovenerol Croat.



Lajnert V, Gržić R, Kovačević Pavičić D, Bakarčić D, Badel T, Petričević N. (2013). *Uporaba DKI/TMP protokola u dijagnostici temporomandibularnih poremećaja (TMP-a)*, Hrvatski liječnički zbor, Podružnica Rijeka.



Badel T, Simonić-Kocijan S, Lajnert V, Dulčić N, Zadavec D. (2013). *Michigan splint and treatment of temporomandibular joint – review of literature*, Medicina fluminensis, Hrvatski liječnički zbor, Podružnica Rijeka.



Jerolimov V. (2009). *Temporomandibular disorders and orofacial pain*, Rad 504 Medical sciences

1009

Toxicity research on dental materials used for dental fillings and their influence on the human body and the environment

Lecturer in Charge



Prof. dr.sc.
Nada Galić

ECTS Credits	3
English Level	L3
E-learning Level	L1
Study Hours	
Lectures	5
Practicals	5
Seminars	5
Grading	
Oral and practical exam.	

Course Description

Gaining knowledge of toxic ingredients in dental materials, as well as analysis according to tests used in estimating their possible negative influence on human health.

Comparison of studies done by other authors with own studies on possible toxicity of researched dental materials on human organism and environment.

On the basis of the results obtained the course aims at emphasising how one should treat each material in order to prevent it from having toxic influence on people and environment.

Study Programmes

» Postdoctorate Study (*branch courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Acquiring knowledge on possible toxicity of dental materials.
2. Raising the awareness of a necessity to use dental material strictly in accordance with instructions given by manufacturer, in order to avoid any mistakes leading to possible toxicity of a given material to either human health or environment

Literature



Schmalz G, Arenholt-Bindslev D (2009). *Bio compatibility of dental materials*, Springer-Verlag Berlin Heidelberg

Additional Literature



Jerolimov V, editor. (2005). *Osnove stomatoloških materijala*, Sveučilište u Zagrebu, Stomatološki fakultet, available from: [http://www.sfzg.hr/files/user/pelivan/Osnove stomatoloških materijala.pdf](http://www.sfzg.hr/files/user/pelivan/Osnove_stomatoloških_materijala.pdf)

Writing of scientific work

11

Lecturer in Charge



Prof. dr.sc.
Ivica Anić

ECTS Credits	4
English Level	Lo
E-learning Level	L1
Study Hours	
Lectures	5
Practicals	5
Seminars	10
Grading	
Oral examination and seminar	

Course Description

The course introduces the attendants to major forms of scientific works through didactic division. The technical making up of scientific work and the principle of scientific approach to praxis is explained. Concrete examples from the fields of dental profession that could be of scientific interest are named. Forms and contents of the scientific works explained in more details are: dissertation, scientific article, review article, preliminary report, conference report, poster presentation. The necessity of interdisciplinary approach to recent science is pointed out. SCI, SSCI, impact factor as objective indicators of citation of the journal and article are explained. Seminars include oral presentations of the reviews of two publications chosen by candidates. The possibility and the methods and statistical analysis of the obtained results, the critical discussion of the results according to the previously published date of the other authors will be presented. During the seminar work the students will be make their own revision of two scientific works. One published in domestic scientific journal and the second one published in the journal in Current Contents.

Study Programmes

» Postdoctorate Study (*methodological courses, 1st semester, 1st year*)

Learning Outcomes

On successful completion of the course, students will be able to:

1. Define scientific work and types of scientific work
2. Define and explain parts of scientific work
3. Analyze scientific publications
4. Explain the possibilities of statistical analysis
5. Explain the protocol of performing a scientific work

General Competencies

The attendant possesses theoretical knowledge about the contents and the purpose of scientific work. He/she is familiar with the activities needed to get a paper published. Critically analyses of scientific publications.

Literature



Vlatko Silobrčić. (2003). *Kako sastaviti, objaviti i ocijeniti znanstveno djelo*, Medicinska naklada, Zagreb

Additional Literature



Matko Marušić (2004). *Uvodu znanstveni radu medicini*,
Medicinska naklada. Zagreb



Edward J Huth (1990). *How to Write and Publish Papers in the Medical Sciences.*, 2nd ed.
Williams & Wilkins

Lecturers

izv. prof. dr. sc. Iva Alajbeg



Phone: 4802212
 E-mail: ialajbeg@sfzg.hr
 Biography: A-3-II
 Year of graduation: 1997
 MSc thesis: 2001
 PhD thesis: 2003

Courses

- [Chronic orofacial pain diagnostics and somatic and sensory testing methods in the orofacial region](#)

Biography

EDUCATION 1997 Graduated from School of Dental Medicine University of Zagreb, 1998 - 2001 Postgraduate studies at School of Dental Medicine University of Zagreb, 2001 Master degree at School of Dental Medicine University of Zagreb 2003 PhD degree at School of Dental Medicine University of Zagreb 2001 - 2004 Specialist training in Prosthodontics at University Clinic Zagreb 2004 Specialty Exam in Prosthodontics

CURRENT POSITION(S) 1998 - 2002 scientific novice at Department of Prosthodontics, School of Dental Medicine 2002-2003 assistant at Department of Prosthodontics 2003-2006 senior research assistant 2006-2011 Assistant Professor 2010 Scientific Advisor 2011 Associate Professor

FELLOWSHIPS AND AWARDS 1. Best Oral presentation Prize at the "30th Annual Conference of the European Prosthodontics Association" in London, UK, 2006. 2. Scientific award of the Academy of Medical Sciences of Croatia "Borislav Nakić" 3. Best Poster Presentation Prize at the "26th Annual Conference of the European Prosthodontics Association" in Cavtat, Croatia, 2002 4. Co-author of paper awarded with the best poster presentation prize at the II. Croatian Congress of Pharmacology with International Participation 2001.

SUPERVISION OF DOCTORAL AND POSTDOCTORAL STUDENTS Supervisor of 4 doctoral thesis/ 1 master of science theses / 2 postgraduate specialist theses / 10 graduation theses

TEACHING ACTIVITIES - involvement in the undergraduate and graduate teaching process at the School of Dental Medicine, (lectures, seminars and clinical practicals for the courses prosthodontics, occlusion, and preclinical prosthodontics) - master program course lead: "Occlusal splints - indication, application and fabrication" and "Bruxism" - Ph.D. program course lead: "Methods for somatosensory and motor analysis in orofacial region" and "Diagnosis of temporomandibular disorders and chronic orofacial pain" - course "Bruxism" received the award for "The best e-course for the year 2013/2014 at School of dental medicine in Zagreb"

INSTITUTIONAL from 2006 member of the Faculty Council the 2010 member of the Committee of postgraduate doctoral studies since 2012 vice president of the Committee of postgraduate doctoral studies the 2012 member of the Committee of faculty members election

significant academic achievements -author and co-author of 50 "in extenso" scientific papers (21 CC/SCI indexed, 18 indexed in Medline/ PubMed, Scopus, EMBASE and 11 in non-indexed journals) -author and co-author of 60 conference abstracts

-135 citations (according WOS cited reference search)

-169 citations (according Scopus)

-h-index 9

Projects

1998 - 2007 project financed by the Croatian Ministry of Science and Technology "Analysis of form and function of masticatory system" (0065911) – **scientific novice**

2001 – 2004: "Gnatology online" – IT project - **investigator**

2007 - today project financed by the Croatian Ministry of Science and Technology "Biodynamics of

masticatory system, restorative procedures, function and esthetics" (065-0650448-0957) – **associate professor and investigator** with the research subject in the field of occlusion, function and dysfunction of masticatory system including temporomandibular disorders.

2015. Croatian Science Foundation project : "The Role of Oxidative Stress and Opiorphin in Temporomandibular Disorders" – **principal Investigator**

Publications

Five publications in last 5 years in leading international peer-reviewed scientific journals - ranked in accordance to impact factor

1. Alajbeg IZ, Zuvela A, Tarle Z. Risk factors for bruxism among Croatian navy employees. *J Oral Rehabil.* 2012;39:668-76. (ranked in the Q₁ of the finest journals in the observed field according to the Journal Citation Reports; IF: 2.344)
2. Samija I, Lukac J, Maric-Brozic J, Buljan M, Alajbeg ZI, Kovacevic D, Situm M, Kusic Z. Prognostic value of microphthalmia-associated transcription factor and tyrosinase as markers for circulating tumor cells detection in patients with melanoma. *Melanoma Res.* 2010;20:293- 302. (ranked in the Q₂ according to the Journal Citation Reports; IF: 2.254)
3. Vukoja D, Alajbeg I, Vucicevic Boras V, Brailo V, Alajbeg IZ, Andabak Rogulj A. Is effect of low-level laser therapy in patients with burning mouth syndrome result of a placebo? *Photomed Laser Surg.* 2011;29:647-8 (ranked in the Q₂ according to the Journal Citation Reports; IF: 1.255)
4. Cimic S, Kraljevic Simunkovic S, Badel T, Dulcic N, Alajbeg I, Catic A. Measurements of the sagittal condylar inclination: intraindividual variations. *Cranio* 2014; 32: 104-109 (for 2013 ranked in the Q₄ according to the Journal Citation Reports; IF: 0.725)
5. Alajbeg IZ, Gikic M, Valentic-Peruzovic M. Changes in pain intensity and oral healthrelated quality of life in patients with temporomandibular disorders during stabilization splint therapy – a pilot study: *Acta Clin Croat* 2014; 53: 7-16 (for 2013 ranked in the Q₄ according to the Journal Citation Reports; IF: 0.28)

Some most important CC-indexed papers in the field of function/dysfunction of masticatory system and salivation

1. Alajbeg IZ et al. Influence of occlusal stabilization splint on the asymmetric activity of masticatory muscles in patients with temporomandibular dysfunction. *Coll Antropol* 2003; 1: 361-373 (Q₃)
2. Alajbeg IZ et al. The influence of dental status on masticatory muscles activity in elderly patients. *Int J Prosthodont* 2005; 18:333-338.(Q₃)
3. Alajbeg IZ et al. The influence of age and dental status on elevator and depressor muscle activity. *J Oral Rehabil* 2006;33: 94-101 (Q₃)
4. Boras VV, Lukac J, Brailo V, Picek P, Kordic D, Alajbeg IZ. Salivary interleukin-6 and tumor necrosis factor-alpha in patients with recurrent aphthous ulceration. *J Oral Pathol Med.* 2006;35:241-3 (Q₂)
5. Brailo V, Vucicevic-Boras V, Cekic-Arambasin A, Alajbeg IZ, Milenovic A, Lukac J. The significance of salivary interleukin 6 and tumor necrosis factor alpha in patients with oral leukoplakia. *Oral Oncol.* 2006; 42: 370-373 (Q₁)
6. Celebic, A, Alajbeg IZ et al. Influence of different condylar and incisal guidance ratios to the activity of anterior and posterior temporal muscle. *Archives Oral Biol.* 2007; 52: 142-148 (Q₃)
7. Celebic A, Valentic-Peruzovic M, Alajbeg IZ, Mehulic K, Knezovic-Zlataric D. Jaw elevator silent periods in complete denture wearers and dentate individuals. *Journal of Electromyography and Kinesiology.* 2008; 18: 947-954 (Q₂)

Interests

MEMBERSHIPS -since 2010 Member of the Editorial Board of *Acta Medica Croatica* (The official journal of the Academy of Medical Sciences of Croatia) (indexed in Medline) -since 2008. Executive Board Committee Member of Croatian Prosthodontics Association

ORGANISATION OF SCIENTIFIC MEETINGS

- 1) Secretary of the 2. International Congress of the Croatian Prosthodontics Association (11- 12 December 2009, Zagreb)
- 2) Member of scientific / organizing committee of the 3. International Congress of the Croatian Prosthodontics Association (17 -18 May 2013, Zagreb).
- 3) Guest Editor of the Acta Stomatol Croat Supplement 2009, 43 (4)

Hobby

recreational running, participated in a number of national and international races (Zagreb 09.04.2016. Half Marathon "Hendrix" finished second in the age category)

prof. dr. sc. Ivan Alajbeg



Phone: 4802174

E-mail: alajbeg@sfzg.hr

Year of graduation: 1996

MSc thesis: 2000

PhD thesis: 2004

Courses

- [Analytical, in vitro and in vivo laboratory methods for bioactive and biocompatible substances research](#)

prof. dr. sc. Ivica Anić



Phone: 0038514802128

E-mail: anic@sfzg.hr

Biography: Zavod za endodonciju i restaurativnu stomatologiju, Stomatološki fakultet, Gundulićeva 5

Biography: <https://bib.irb.hr/lista-radova?autor=159102>

Year of graduation: 1984

MSc thesis: 1988

PhD thesis: 1991

Courses

- [Basic and advanced research techniques in Endodontics and laser application in Dentistry](#)

Biography

Professor Dr. Ivica Anić graduated at the School of Dental Medicine, University of Zagreb in 1984. After he had passed an final examination in 1986, he worked in the health center „Ravne na Koroškem“ in Slovenia until 1988, when he returned to Zagreb, and started working as a young researcher at the Department of Dental Pathology, School of Dental Medicine. He won a master's degree in 1988. In 1989, he started specialization in Endodontology and Restorative Dentistry with Periodontology and Oral Pathology, University of Zagreb, and in 1992, he passed the specialist exam.

In 1989, he became a research assistant.

During 1990 he learned clinical and scientific experience while staying at The Department of Conservative Dentistry, United Dental and Medical School, St Thomas and St Guy's Hospital in London.

In 1991, he won doctor's degree.

In 1993, he became a research associate, assistant professor, and a leader of a postgraduate training for continuous improvement at the School of Dental Medicine in Zagreb. During the same year, he started subspecialization in Endodontics at the Showa University in Tokyo, Japan. He finished the subspecialization in 1994, as the best foreign student of dr. Koukichi Matsumotoa.

In 1995, he was awarded with Hans Ganet Award as the best european young endodontist. The Award was assigned by The Netherland Endodontic Society and European Society of Endodontology in Tel Aviv, Israel.

Croatian Parliament assigned him an annual prize for scientific work in 1996.

He also won a prize for the best scientific presentation in 2005 in Schaanu , Lichtenstein.

In 1996, he bacame an associate professor at the School of Dental Medicine, and a full professor in 2000.

He has published more than 100 scientific and clinical papers, from which 33 were cited in Current Content, as well as congress communications and teaching works. His studies have been cited for 200 times abroad, and in two leading endodontic textbooks and books about the use of lasers in endodontics. He participated in the work of the projects, which had been approved by Ministry of Science, Education and Sport: „Endodontic diseases and caries. Experimental and clinical study“ No.3-02-277 and „Mineralization and demineralization of hard dental tissues“ No.3-02-278 .

He was a leader of a project „Clinical and experimental endodontology“ No. 065 005 and 065 999, from 1996 until 2002. Since 2006, he has been a leader of a project „Experimental and clinical endodontology“ No. 065-0650444-0418 and program „Basic and applied researches on oral health and dental materials“.

During 1996 he finished the course in endodontics and microsurgery at the Department of Endodontology and Cariology at the School of Dentistry ACTA, University of Amsterdam, The Netherlands. During 1998, he made a study visit at the Department of Endodontology, School of Dental Medicine, University of Florida, Gainesville, USA.

He was a mentor of many graduation thesis as well as master's and PhD thesis. He is a member of Croatian Medical Association since 1984, was a country representative at European Society of Endodontology from 1995 till 2002. He is a president of Croatian Endodontic Society, regular member of Croatian Academy of Medical Sciences since 1997, and a member of International Association for Dental Research since 1995.

He was head of the Department of Endodontics and Restorative Dentistry and vice dean for science from 2003. till 2009..

Since 2003, he has been a head of Department of Endodontics and Restorative Dentistry at the Dental Clinic University Clinical Hospital Centre Zagreb.

Publications

Current Contents:

1. Bago Jurić I, Plečko V, **Anić I.**

Antimicrobial efficacy of Er, Cr:YSGG laser-activated irrigation compared to passive ultrasonic irrigation and RinsEndo against intracanal Enterococcus faecalis population. Photomedicine and laser surgery. 2014;32:600-5.

1. Bago Jurić I, Plečko V, Gabrić Pandurić D, **Anić I.**

The antimicrobial effectiveness of photodynamic therapy used as an adjunct to conventional endodontic re-treatment: a clinical study. Photodiagnosis and photodynamic therapy. 2014;11:549-55.

1. Gabrić Pandurić D, Bago Jurić I, Musić S, Molčanov K, Sušić M, **Anić I.**

Morphological and ultrastructural comparative analysis of bone tissue after the Er:YAG laser and a surgical drill osteotomy. Photomedicine and laser surgery. 2014;32:401-8.

1. Katalinić I, Glockner K, **Anić I.**

Influence of several root canal disinfection methods on pushout bond strength of self-etch post and core systems. International endodontic journal 2014;47:140-6.

1. Bago I, Plečko V, Gabrić Pandurić D, Schaperl Z, Baraba A, **Anić I.**

[Antimicrobial efficacy of a high-power diode laser, photo activated disinfection, conventional and sonic activated irrigation during endodontic therapy.](#) International endodontic journal 2013;4:339-347.

2. Katalinić I, Baraba A, Glavičić S, Segović S, **Anić I**, Miletić I. [Comparison of vertical forces during root canal filling with three different obturation techniques.](#) Collegium Antropologicum. 2013;37:895-899.

1. Rogić Barbić M, Šegović S, Baraba A, Pezelj Ribarić S, Katunarić M, **Anić I.**

[Microleakage along glass-fibre posts cemented with three different materials after cyclic loading: a pilot study.](#) Collegium antropologicum 2013;2:431-435.

1. Baraba A, Dukić W, Chieffi N, Ferarri M, **Anić I**, Miletić I.

[Influence of different pulses of Er:YAG laser based on Variable Square Pulse technology on microtensile bond strength of a self-etch adhesive to dentin.](#) Photomedicine and laser surgery 2013;3:116-124.

2. Baraba A, Doméjean-Orliaguet S, Jurić H, Espelid I, Tveit Anne B, **Anić I.**

[Restorative treatment decisions of Croatian university teachers.](#) Collegium antropologicum 2012;4:1293-1299.

3. Baraba A, Perhavec T, Chieffi N, Ferrari M, **Anić I**, Miletić I.

[Ablative potential of four different pulses of Er:YAG lasers and low-speed handpiece.](#) Photomedicine and laser surgery 2012;6: 301-307.

4. Gabrić Pandurić D, Bago I, Katanec D, Žabkar J, Miletić I, **Anić I.**

[Comparison of the Er:YAG laser and a surgical drill used for osteotomy in oral surgery: an experimental study.](#) Journal of oral and maxillofacial surgery 2012;11: 2515-2521.

5. Baraba A, Želježić D, Kopjar N, Mladinić M, **Anić I**, Miletić I. [Evaluation of cytotoxic and genotoxic effects of two resin-based root-canal sealers and their components on human leucocytes in vitro.](#)

- International endodontic journal 2011;44:652-661.
6. Kqiku L, Miletić I, **Anić I**, Baraba A, Weiglein A, Städtler P. [Distribution of RoekoSeal sealer applied by three obturation techniques](#). Collegium antropologicum 2011;35:885-888.
 7. Glavičić S, **Anić I**, Braut A, Miletić I, Borčić J. [Vertical force and torque analysis during mechanical preparation of extracted teeth using hand ProTaper instruments](#). Aust Endodo J. Australian endodontic journal 2011;37:51-55.
 8. Kqiku L, Städtler P, Jürgen Gruber H, Baraba A, **Anić I**, Miletić I. [Active versus passive microleakage of Epiphany/Resilon and gutta-percha/Ah Plus](#). Aust Endodo J 2011;3:141-6.
 9. Baraba A, **Anić I**, Doméjean-Orliaguet S, Espelid I, Bjorg Tveit A, Miletić I. [Survey of Croatian Dentists' Restorative Treatment Decisions on Approximal Caries Lesions](#). Croat Med J. 2010; 51: 509-14.
 10. Jukić Krmek S, Bogdan I, Simeon P, Prpić Mehičić G, Katanec D, **Anić I**. [A Three-Dimensional Evaluation of Microleakage of the Class V Cavities Prepared by the Very Short Pulse Mode of the Er : YAG Laser](#). Lasers Med Sci. 2010; 6: 823-8.
 11. Bebek B, Bago I, Škaljac G, Plečko V, Miletić I, **Anić I**. [Antimicrobial Effect of 0.2% Chlorhexidine in Infected Root Canals](#). Collegium Antropologicum. 2009; 4: 1159-63.
 12. Baraba A, Miletić I, Jukić Krmek S, Perhavec T, Božić Ž, **Anić I**. [Ablative potential of the Er:YAG laser and conventional handpieces: A comparative study](#). Photomed Laser Surg. 2009.
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1. **Anić I**, Miletić I, Jukić Krmek S, Borčić J, Pezelj-Ribarić, Sonja. Vibrations produced during erbium:yttrium-aluminium-garnet laser irradiation. Laser Med Sci. 2009; 24: 697-701.
-
1. Brzović V, Miletić I, Želježić D, Mladinić M, Kašuba V, Ramić S, **Anić I**. In vitro genotoxicity of root canal sealers. Inter Endod J. 2009; 42: 253-63.
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1. Jukić Krmek S, Miletić I, Simeon P, Prpić-Mehičić G, **Anić I**, Radišić B. The temperature changes in the pulp chamber during the cavity preparation with Er:YAG laser using a very short pulse. Photomed Laser Surg. 2009; 27: 351-5.
-
1. Pezelj-Ribarić S, Prpić J, Miletić I, Brumini G, Simunović Šoškić M, Anić I. Association between oral lichenoid reactions and amalgam restorations. J Eur Acad Dermatol Venereol. 2008 Apr 2.
-
1. Malčić A, Jukić S, Anić I, Pavelić B, Kapitanović S, Kruslin B, Pavelić K. Alterations of FHIT and P53 genes in keratocystic odontogenic tumor, dentigerous and radicular cyst. J Oral Pathol Med. 2008; 37:294-301
-
1. Ferik Luketić S, Malčić A, Jukić S, Anić I, Segović S, Kalenić S. Coronal microleakage of two root-end filling materials using a polymicrobial marker. J Endod. 2008; 34:201-3.
-
1. Malčić A, Jukić S, Brzović V, Miletić I, Pelivani I, **Anić I**. Prevalence of root canal dilaceration in adult dental patients in Croatia. Oral Surg Oral Med Oral Pathol Oral Radiol Endod 2006; 102: 104-9.
-
1. Malčić A, Jukic S, Brzović V, Miletić I, **Anić I**. Leakage of bovine serum albumin in root canals obturated with Super EBA and IRM. J Endod. 2006; 32:368-71.

1. Rogić-Barbić M, Šegović S, Pezelj-Ribarić S, Borčić J, Jukić S, **Anić I**. Microleakage along Glassix glass fibre posts cemented with three different materials assessed using a fluid transport system. *Int Endod J*. 2006; 36:3-7.
1. Borčić J, **Anić I**, Smojver I, Čatić A, Miletić I, Ribarić Pezelj S. 3D finite element model and cervical lesion formation in normal occlusion and in malocclusion. *J Oral Rehabil*. 2005; 7:504-10.
1. Grgurević J, Grgurević L, Miletić I, Karlović Z, Krmek Jukić S, **Anić I**. *In vitro* study of the variable square pulse Er:YAG laser cutting efficacy for apicectomy. *Laser Surg Med*. 2005; 36:347-50.
1. Karlović Z, Pezelj-Ribarić S, Miletić I, Jukić S, Grgurević J, **Anić I**. Erbium:YAG laser versus ultrasonic in preparation of root-end cavities. *J Endod*. 2005; 31:821-3.
1. Miletić I, Devčić N, **Anić I**, Borčić J, Karlović Z, Osmak M. The cytotoxicity of RoekoSeal and AH Plus compared during different setting periods. *J Endod*. 2005; 31:307-9.
1. Borčić J, **Anić I**, Muhvić-Urek M, Ferreri S. [The prevalence of non-carious cervical lesions in permanent dentition](#). *J Oral Rehabil*. 2004; 31:117-23.
1. Jukić S, Prpić-Mehičić G, Talan-Hranilovc J, Miletić I, Šegović S, **Anić I**. [Estrogen receptors in human pulp tissue](#). *Oral Surg Oral Med Oral Pathol Oral Radiol Endod*. 2003; 95:340-4.
1. Miletić I, Jukić S, **Anić I**, Željezić D, Garaj-Vrhovac V, Osmak M. [Examination of cytotoxicity and mutagenicity of AH26 and AH Plus sealers](#). *Int Endod J*. 2003; 36:330-5.
1. Vidučić D, Jukić S, Božić Ž, Karlović Z, Miletić I, **Anić I**. [Removal of the gutta-percha using a Nd:YAG laser](#). *Int Endod J*. 2003; 36:670-3.
1. Pezelj-Ribarić S, **Anić I**, Brekalo I, Miletić I, Hasan M, Šimunović-Šoškić M. Detection of tumor necrosis factor alpha in normal and inflamed human dental pulps. *Arch Med Res*. 2002; 33:482-4.
1. Miletić I, Pezelj-Ribarić S, Karlović Z, Jukić S, Bošnjak A, **Anić I**. Apical leakage of five root canal sealers after one year of storage. *J Endod*. 2002; 28:431-2.
1. Miletić I, Prpić-Mehičić G, Maršan T, Tambić-Andrašević A, Pleško S, Karlović Z, **Anić I**. Bacterial and fungal microleakage of AH26 and AH Plus root canal sealers. *Int Endod J*. 2002; 35:428-32.
1. Šegović S, Ferik S, **Anić I**, Jukić S, Galić N, Sistić S. Changes in dentin after insertion of self-threading titanium pins with 3 methods: a scanning electron microscope pilot study. *J Prosthet Dent*. 2002; 87:182-8.
1. Pavelić B, Levanat S, Crnić I, Kobler P, **Anić I**, Manojlović S, Šutalo J. PTCH gene altered in dentigerous cysts. *J Oral Pathol Med*. 2001; 30:569-76.

1. Jukić S, Miletić I, **Anić I**, Britvić S, Osmak M, Sistig S. The mutagenic potential of AH+ and AH26 by Salmonella/microsome assay. *J Endod.* 2000; 26:321-4.
1. Miletić I, **Anić I**, Karlović Z, Maršan T, Pezelj-Ribarić S, Osmak M. Cytotoxic effect of the four root filling materials. *Endod Dent Traumatol.* 2000; 16:287-90.
1. Miletić I, **Anić I**, Pezelj-Ribarić S, Jukić S. Leakage of five root canal sealers. *Int Endod J.* 1999; 32:415-8.
1. **Anić I**, Šegović S, Katanec D, Prskalo K, Najžar-Fleger D. Scanning electron microscopic study of dentin lased with argon, CO₂, and Nd:YAG laser. *J Endod.* 1998; 24:77-81.
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- [RoekoSeal vs. AH Plus](#). Int Endod J. 2003; 36:952. (11th Biennial Congress of the European Society of Endodontology; Athens, Greece 2003).
1. Pavelić B, Jukić-Krmek S, Šegović S, **Anić I**. [Periodontal tissue necrosis caused by the paraformaldehyde pulp tissue devitalisation](#). // ESE Abstracts / Dummer, P.M.H. Athens Blackwell Publishing Ltd, 2003. 26. (11th Biennial Congress of the European Society of Endodontology; Athens, Greece 2003).
 1. Šegović S, Rogić M, Pezelj-Ribarić S, Borčić J, Galić N, **Anić I**. [Microleakage along Glassix glass fibre posts](#). Int Endod J. 2003; 36:26 (11th Biennial Congress of the European Society of Endodontology; Athens, Greece 2003).
 1. Jukić S, Miletić I, **Anić I**, Osmak M, Garaj-Vrhovec V, Željezić D. Structural chromosomal aberration and micronucleus test of AH Plus and AH26 on human lymphocytes. Int Endod J. 2002; 35:91. (10th Biennial Congress of the European Society of Endodontology; Munich, Germany 2001).
 1. Karlović Z, **Anić I**, Miletić I, Jukić S, Pezelj-Ribarić S, Prpić-Mehičić G. Comparison of efficiency of gutta-percha solvents in re-treatment of Endodontic fillings. Int Endod J. 2002; 35:91. (10th Biennial Congress of the European Society of Endodontology; Munich, Germany 2001).
 1. Miletić I, Pezelj-Ribarić S, Katić D, Karlović Z, Jukić S, **Anić I**. Fluid transport and dye penetration along root canals obturated with three different techniques. Int Endod J. 2002; 35:91. (10th Biennial Congress of the European Society of Endodontology; Munich, Germany 2001).
 1. **Anić I**, Jukić S, Miletić I, Karlović Z, Brozović S, Šegović S. The temperature changes in the pulp chamber during cavity preparation with Er:YAG lasers using very short puls technology. ESOL, Vienna, Laser Congress 2001. Supplement to the first edition of the J of Oral Lasers Applicat 2001; 1:42.
 1. Karlović Z, Miletić I, Maršan T, **Anić I**. The antibacterial effect of various gutta-percha solvents. Int Endod J 2000; 33:153. (The 9th biennial Congress of the European Society of Endodontology, Zagreb, Croatia 1999).
 1. Jukić S, Miletić I, Osmak M, **Anić I**, Sistig S, Bernard J. Evaluation of the cytotoxicity of AH+ and AH26 on Chinese Hamster V79 cells. Int Endod J 2000; 33:151. (The 9th biennial Congress of the European Society of Endodontology, Zagreb 1999).
 1. Šegović S, Jukić S, Prpić-Mehičić G, Hranilović-Talan J, **Anić I**, Miletić I. Oestrogen receptors in human dental pulp: a preliminary report. Int Endod J 2000; 33:165. (The 9th biennial Congress of the European Society of Endodontology, Zagreb 1999).
 1. Miletić I, Pezelj Ribarić S, Maršan T, **Anić I**, Karlović Z, Prpić-Mehičić G. Sealing ability of five commercial root canal sealers. Int Endod J 2000; 33:159. (The 9th biennial Congress of the European Society of Endodontology, Zagreb 1999).

1. Jukić S, **Anić I**, Talan-Hranilović J, Najžar-Fleger D, Pavelić B. The effect of CO₂ and Nd YAG lasers on the dog's periodontal tissue. Acta Stomatol Croat. 1997; 31:324 Suppl.

1. Azinović Z, Staničić T, **Anić I**, Azinović A, Tudja M. SEM study of the root canal walls following instrumentation. Acta Stomatol Croat. 1997; 31-321 Suppl.

1. Miletić I, **Anić I**, Maršan T, Karlović Z. Quality of sealing material for retrograde filling of root canals. Acta Stomatol Croat. 1997; 31:334 Suppl.

1. Najžar-Fleger D, **Anić I**, Pavelić B. Functional immobilization of traumatized teeth – case presentation. Acta Stomatol Croat. 1997; 31:334 Suppl.

1. Karlović Z, **Anić I**, Maršan T, Miletić I. Revision of endodontic filling with chloroform and eucalyptol. Acta Stomatol Croat. 1997; 31:325 Suppl.

1. Jukić S, **Anić I**, Talan-Hranilović J, Najžar-Fleger D, Pavelić B. The effect of CO₂ and Nd:YAG laser on parodontic tissue in dogs. Acta Stomatol Croat. 1997; 31:324 Suppl.

1. **Anić I**. Endodontic treatment of complicated cases: projector technique. Acta Stomatol Croat. 1997; 31:295-9 Suppl.

1. Jukić S, **Anić I**, Talan-Hranilović J, Najžar-Fleger D, Galić N. The effect of CO₂ and Nd:YAG lasers on the periodontal tissue following laser pulpotomy. (The 8th Biennial Congress of European Society of Endodontology Goeteborg 1997, Sweden).

1. Sistig S, Jukić S, **Anić I**, Šegović S, Cekić-Arambašin A, Sistig G, Mihelić D. Activity of NADPH-diaphorase, alkaline and acid phosphatase in chronic pulpitis. (The 8th Biennial Congress of European Society of Endodontology Goeteborg 1997, Sweden).

1. Katanec D, **Anić I**, Kobler P. A new method of densitometric analysis of bone density in periradicular bone defects healing. (The 8th Biennial Congress of European Society of Endodontology Goeteborg 1997, Sweden)

1. **Anić I**, Šegović S, Galić N, Jukić S. A methylene blue dye microleakage study of retrograde filling materials. (The 8th Biennial Congress of European Society of Endodontology Goeteborg 1997, Sweden).

1. Jurić H, **Anić I**, Seferović A, Verzak H. The sealing ability of four different root canal obturation techniques. First Croatian Endodontic symposium, 25. 05. 1996, Zagreb

1. Pavelić B, **Anić I**, Jukić S, Pandurić V. Parodontitis necroticans medicamentosa. First Croatian Endodontic symposium, 25. 05. 1996, Zagreb

1. **Anić I**, Pavelić B, Perić B, Matsumoto K. *In vitro* pulp chamber temperature rise associated with the argon laser polymerisation of composite resin. 11th International Symposium on Biomedical Engineering Nov. '96
1. Jukić S, **Anić I**, Koba K, Matsumoto K. The effects of Nd:YAG and CO₂ laser on dental pulp tissue. First Croatian Endodontic symposium, 25. 05. 1996, Zagreb.
1. **Anić I**. Separated instruments inside the root canal. Prognosis and therapy. First Croatian Endodontic symposium, 25. 05. 1996, Zagreb
1. Katanec D, Kobler P, **Anić I**. Clinical Evaluation of the Hydroxide apatite Ceramics in the Treatment of the Periradicular Bone Defect. (The 7th biennial congress, European Society of Endodontology, 7-10 Nov. 1995, Tel-Aviv, Izrael).
1. Jukić S, **Anić I**, Koba K, Matsumoto K. The effects of the CO₂ and Nd:YAG lasers on the dental pulp tissue. (The 7th biennial congress, European Society of Endodontology, 7-10 Nov. 1995, Tel-Aviv, Izrael).
1. **Anić I**, Matsumoto K. Argon, CO₂ and Nd:YAG lasers in Endodontics. (The 7th biennial congress, European Society of Endodontology, 7-10 Nov. 1995, Tel-Aviv, Izrael).
1. **Anić I**, Tachibana H, Matsumoto K. Lasers effects on the dentin canal walls. Third Endodontic World Congress, June 28 -July 01 1995, Rome, Italy
1. Dužević D, Stubičar S, Milat O, Tonejc A, Trojko R, Stubičar N, **Anić I**, Stanković M. Study of the deamalgamation process in silver-tin-base amalgams. Third Slovenian-Croatian Crystallographic Meeting, Kranjska Gora, Slovenia, Sept. 29-30, 1994.
1. Galić N, Prpić-Mehičić G, **Anić I**, Najžar-Fleger D, Buntak-Kobler D. The influence of polishing on the electric potential of amalgam filling. 10th International symposium on bio medical engineering, November 1994, Zagreb, Croatia
1. **Anić I**, Tachibana H, Matsumoto K. CO₂, Nd:YAG and argon laser in Endodontics. First World Congress of Croatian Dentists, November 3-5. 1994, Zagreb, Croatia, Abstract book, 91.
1. **Anić I**, Tachibana H, Matsumoto K, QP. Morphologic, temperature and permeability changes inside the root canal induced by Argon, CO₂ and Nd:YAG. Japan Laser Congress., 27-28. Nov.1993, Tokyo, Japan
1. **Anić I**, Džubur A, Skala K, Šutalo J. Temperature changes inside the molar pulpchamber and on the enamel and root surfaces induced by the CO₂ laser beam *in vitro*. International Symposium on "Biomedical Optics Europe '93" 1-5 Sept. Semmelweis, Medical University, Budapest, Hungary, Abstract book, 32; 2080-2088.

1. **Anić I**, Džubur A, Vidović D, Tudja M. Temperature and surface changes of dentine and cementum induced by CO₂ laser exposure. European Society of Endodontology, Fifth Biennial Congress, Cannes, France, October 1991.

1. Lukač J, **Anić I**, Spaventi Š. Tube leukocyte adherence (LAI) assay in patients with adenocarcinoma of the breast. Ninth European Immunology Meeting. September 1988. Roma, Abstr W17-52.

1. Kadrnka-Lovrenčić M, Knežević J, Lukač J, Končar M, **Anić I**, Đurinović-Bello I, Oberiter V, Dekaris D. T lymphocyte subpopulations in children with diabetes melitus type I. XII Congres the International Diabetes federation, September 29th October 1st. Santander, Spain 1985 Abstr.

1. Kadrnka-Lovrenčić M, Knežević J, Lukač J, Končar M, **Anić I**, Đurinović-Bello I, Oberiter V, Dekaris D. T lymphocyte subpopulations in children with diabetes melitus type I. First Yugoslav Immunology Meeting. Collected abstracts 1985. Abstr 111-R12.

1. **Anić I**. Endodontic retreatment. Int Endod J Dummer, Paul (ur.). Oxford:-, 2000.-
(abstract)

1. Jukić S, Vidučić D, Božić Ž, **Anić I**, Simeon P, Sistig S. Removal of the root canal filling using a Nd:YAG laser. J Dent Research. Herzberg, Mark C. (ur.). Alexandria, USA: Internarional and American Association for Dental Research, 2000; 565- 565.

Interests

- Member and country representative of **Society for Oral Laser application (SOLA)**
- Member of **International Association for Dental Research (IADR)** from 1995.
- Member of alumni association **KOUHUKAI, Showa University Tokyo** from 1994.
- Member of **Croatian Medical Science Academy** from 1994.
- Member of **Croatian Medical & Biological Engineering Society (CROMBES)** from 1992.
- Member of the **European Society of Endodontology (ESE)** from 1989.
- President of the **Croatian Endodontic Association, (CEA)** from 2002. member and secretary from 1993 - 2002.
- Member of "**L Association Medicale Mondiale**" from 1984

izv. prof. dr. sc. Sandra Anić-Milošević



Phone: 4821173
E-mail: sanic@sfzg.hr
Biography: ortodoncija
Year of graduation: 1994
MSc thesis: 1998
PhD thesis: 2004

Courses

- [Writing of scientific work](#)
- [Aesthetics in orthodontics](#)

Interests

Member of Croatian Dental Chamber, Croatian Orthodontic Society, European Orthodontic Society i World Federation of Orthodontics.

izv. prof. dr. sc. Andrej Aurer



Courses

- [Periodontium, periimplant tissues and occlusal forces](#)

izv. prof. dr. sc. Tomislav Badel



Phone: 4802125
 E-mail: badel@sfzg.hr
 Biography: Zavod za mobilnu protetiku
 Year of graduation: 1995.
 MSc thesis: 2000.
 PhD thesis: 2004.

Courses

- [Temporomandibular pain and osteoarthritis](#)

Biography

Tomislav Badel was born on September 24, 1971 in Zagreb where he finished the secondary school for dental technicians. He graduated in Dental Medicine at the School of Dental Medicine, University of Zagreb in 1995 where, the same year, he became a junior researcher at the Department of Prosthodontics, School of Dental Medicine, University of Zagreb. He started postgraduate studies at the School of Dental Medicine, University of Zagreb, in the same year. In 2000, he received a Master's degree with the thesis on "Frequency of soft tissue changes on temporomandibular joints in younger male population". He obtained his PhD degree in 2004 at the School of Dental Medicine, University of Zagreb, with the thesis on "The analysis of temporomandibular joint disc displacement using the magnetic resonance imaging". The same year he became a Specialist of Prosthetic Dentistry. He has held a scientific-teaching position since 2008 as an Assistant Professor. He became a senior scientific researcher in 2011. In 2013, he became an Professor Extraordinarius. He participates in teaching at the integrated undergraduate and graduate study program at the courses of Preclinical Removable Prosthodontics, Laboratory Removable Prosthodontics, Clinical Removable Prosthodontics, Materials in Dental Medicine and Occlusion, both preclinical and clinical practicals and seminars as well as lectures and examinations. He created and leads two postgraduate courses: Diagnostics and treatment of temporomandibular pain, held within doctoral study program and Treatment methods of temporomandibular disorders held with the specialist study program. He is a reviewer in several foreign and Croatian scientific journals.

Projects

Dijagnostika i terapija neodontogenih bolnih stanja u orofacijalnom području
 Diagnostics and treatment of non-odontogenic conditions in the orofacial region
 Dijagnostika neurogenih i mišićno-koštanih bolnih stanja orofacijalnog područja
 Diagnostics of neurogenic and musculo-osseous painful conditions in the orofacial region
 Okluzija i kranio-mandibularne disfunkcije
 Occlusion and craniomandibular dysfunctions
 Klinički postupci i materijali u mobilnoj protetici
 Clinical procedures and materials in removable prosthodontics
 Istraživanje koštanog tkiva stomatognatskog sustava

Publications

Badel T. Temporomandibular disorders and prosthetic dentistry. Zagreb: Medicinska naklada, 2007.
 Badel T, Marotti M, Savić Pavičič I. Temporomandibular Disorders and Orthodontic Treatment – A Review with a Reported Clinical Case. U: Bourzgui F. (ur.): Orthodontics - Basic Aspects and Clinical Considerations. Rijeka: InTech, pp. 351-376.
 Badel T, Kocijan Lovko, S, Zdravec, D. Anxiety and Temporomandibular disorders: a Relationship in Chronic Pain Development. In: Shiloh AR (ed): Anxiety disorders – Risk Factors, Genetic Determinants and Cognitive-Behavioral Disorders. New York: Nova Science Publishers, 2014. pp.93-123.

Interests

He is also a member of the Croatian Society of Prosthetic Dentistry, Croatian Society of Local Anesthesia and Analgesia and the Croatian Catholic Medical Society.

doc. dr. sc. Anja Baraba



Courses

- [Investigation of laser influence on biomechanical properties of dental materials and hard dental tissues](#)

izv. prof. dr. sc. Vanja Bašić Kes



Courses

- [Scientific approach to genetics, epidemiology, patophysiology, diagnostics and pain treatment in the head and neck region](#)

Izv. prof. dr.sc. Dolores Biočina-Lukenda



Courses

- [A Modern Approach to the Issues Regarding Oral Premalignant Lesions](#)

Vesna Borić , dipl. bib.



Courses

- [Oral-Medical Aspects of Systemic Autoimmune Diseases](#)
- [Information sources in dental medicine](#)

Izv. prof. dr.sc. Andrija Bošnjak



Courses

- [Dental Implant Design](#)

doc. dr. sc. Darko Božić



Phone: 014802155
 E-mail: bozic@sfzg.hr
 Biography: soba 2
 Year of graduation: 2000
 MSc thesis: 2005
 PhD thesis: 2010

Courses

- [Regenerative periodontal therapy and tissue engineering](#)

Publications

1. Badovinac A, **Božić D**, Vučincac I, Vešligaj J, Vražić D, Plančak D. Oral health attitudes and behavior of dental students at the University of Zagreb; Croatia. *J Dent Educ.* 2013 77(9):1171-8. **IF:1,040**

2 **Darko Božić**, Lovorka Grgurevic, Igor Erjavec, Jelena Brkljacic, Iva Orlic, Genadij Razdorov, Ivica Grgurevic , Slobodan Vukicevic, Darije Plančak. *The proteome and gene expression profile of cementoblastic cells treated by bone morphogenetic protein7 (BMP7) in vitro.* *Journal of Clinical Periodontology* 2012 39(1):80-90 **IF:3,933**

3. **Darko Božić**, Lovorka Grgurević, Igor Erjavec, Genadij Razdorov, Jelena Brkljačić, Iva Orlić, Darije Plančak. **Effect of Bone Morphogenetic Protein-7 on Gene Expression of Bone Morphogenetic Protein-4, Dentin Matrix Protein-1, Insulin-like Growth Factor-I and -II in Cementoblasts In Vitro.** *Collegium Antropologicum* 2012 Dec;36(4):1265-71 **IF: 0.5**

- 4 . Špalj, Stjepan; Plančak, Darije; **Božić, Darko**; Kašaj, Adrian; Willershausen, Britta; Jelušić, Damir. **Periodontal conditions and oral hygiene in rural population of post-war Vukovar region, Croatia in correlation to stress.** *European Journal of Medical Research.* **13** (2008) , 3; 100-106 **IF: 1.092**

- 5 . Bošnjak, Andrija; Curilović, Zvonimir; Vučičević-Boras, Vanja; Plančak, Darije; Jorgić-Srdjak, Ksenija; Relja, Tomislav; **Božić, Darko**; Varnica, Hrvoje. **Prevalence of gingivitis in 6- to 11- year-old Croatian children.** *European Journal of Medical Research.* **8** (2003) , 7; 313-317. **IF: 1.092**

6. Baučić, Maja; Čelebić, Asja; Stipetić, Jasmina; Mehulić, Ketij; **Božić, Darko.** **In vitro release of metal ions from a gold-platinum alloy in saliva - simulated conditions.** *Collegium Antropologicum.* **27** (2003) , Suppl 2; 91-98 **IF: 0.5**

7. Bošnjak, Andrija; Vučević-Boras, Vanja; Miletić, Ivana; **Božić, Darko**; Vukelja, Milko. **Incidence of oral habits in children with mixed dentition.** *Journal of Oral Rehabilitation.* **29** (2002) , 9; 902-905. **IF: 1,462**

8. Baučić, Ivo; Baučić, Maja; Stipetić, Jasmina; Komar, Dragutin; Mehulić, Ketij; **Božić, Darko**; Klaić, Boris; Čelebić, Asja. **Screening of fixed prosthodontic dentures after five years of use in relation to material and construction.** *Collegium Antropologicum.* **26** Suppl (2002) , 2; 673-9. **IF: 0.5**

Interests

Vice-president Croatian Society of Periodontology
member European Federation of Periodontology, Croatian delegate
member External affairs committee EFP-a, EFP Webmaster
member iADR
member Croatian medical association

Hobby

Plays tennis and spearfishing. Plays the classical guitar

prof. dr. sc. Hrvoje Brkić



Phone: 4802 145
 E-mail: brkic@sfzg.hr
 Biography: Zavod za dentalnu antropologiju
 Year of graduation: 1988
 MSc thesis: 1990
 PhD thesis: 1992

Courses

- [Dental Profiling](#)

Biography

Curriculum Vitae

personal information

Name and surname
 Academic title
 Year and institution

Hrvoje Brkić
 Full Professor

of PhD obtained

1992. School of Dental Medicine University of Zagreb. Thesis title:
 Craniofacial characteristics in persons with Klinefelter Syndrome

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brkic@sfzg.hr

Personal web page

www.hrvojebrkic.eu

Citizenship

Croat

Date and place of birth August 12th 1963, Zagreb

work experience

Date (from – until)

1998 – present

Institution

Department of Dental Anthropology, School of Dental Medicine,
 University of Zagreb.

Position

Head of Chair of Forensic Dentistry

Work field

Forensic dentistry, Dental anthropology

Date (from – until)

2006 - present

Institution

Clinical Hospital Center Zagreb, dental Clinic

Position

Specialist

Work field

Oral and dental pathology with periodontology

education	
Date	1992. PhD thesis: Craniofacial characteristics in persons with Klinefelter Syndrome
Place	Zagreb
Institution	School of Dental Medicine, University of Zagreb
Title of qualification awarded	Phd
Date	1990. Masters thesis: Characteristics of teeth in persons with Klinefelter Syndrome
Place	Zagreb
Institution	School of Dental Medicine, University of Zagreb
Title of qualification awarded	MSc
Date	1984 –1989 School of Dental Medicine, University of Zagreb
Place	Zagreb
Institution	School of Dental Medicine, University of Zagreb
Title of qualification awarded	Doctor of Dental Medicine (DMD)

training	
Year	1995
Place	Stocholm, Sweeden
Institution	Karolinska Institute
Subject and skills covered	Forensic dentistry and Forensic anthropology
Year	1998
Place	Sacramento, CA, USA
Institution	ABFO
Subject and skill covered	National Missing and Unidentified Persons Violent Crime

languages	
Mother tongue	Croatian
english language	
Speaking	Excellent
Writing	Excellent
Reading	Excellent

research and other projects

2007 – present - Chief investigator on project: Human Dentition in Forensic and Archaeological Researches; Ministry of Science, education and sports of the Republic of Croatia

2007 – present – Investigator on project: Bioarchaeological analyses of medieval populations from Croatia; Ministry of Science, education and sports of the Republic of Croatia.

2005 – 2007 – Croatian coordinator of FP6 project: Medical Research Initiative South Eastern Europe – Med Res In SEE Sixt Framework Programme

2002 – 2005 – Chief investigator on project: Analysis of Teeth in Identification of Exhumed War Victims in Croatia; Ministry of Science, education and sports of the Republic of Croatia

1996 – 2002 - Chief investigator on project: Dental Identification of War Victims in Croatia; Ministry of Science, education and sports of the Republic of Croatia

1988 – 1996 – Young scientist, Features of Craniofacial Complex in Gonadal Dysgenesis, Ministry of Science, education and sports of the Republic of Croatia

teaching

2004 – present – Postgraduate study program “Dental profiling” at the School of Dental Medicine, University of Zagreb

1997 – present – Undergraduate study program "Forensic dentistry" at the School of Dental Medicine, University of Zagreb.

1997 – present – Postgraduate study program “Craniofacial identification” at the School of Dental Medicine, University of Zagreb.

1997 – present – Postgraduate study program “Dental identification” at the School of Dental Medicine, University of Zagreb

1994 – present – Undergraduate study program "Tooth morphology and dental anthropology" at the School of Dental Medicine, University of Zagreb.

mentorships

Phd thesis:

Ivan Galić, Dental age determination by panoramic radiographs of children in Croatia and Bosnia and Herzegovina, Department of dental anthropology, School of Dentistry, University of Zagreb, 2011.

Marin Vodanović, Paleostomatological analysis of late antique and early medieval sites in Croatia. Department of dental anthropology, School of Dentistry, University of Zagreb, 2008.

Miroslav Miličević, Age determination using anthropological parameters on teeth, Department of dental anthropology, School of Dentistry, University of Zagreb, 2003.

Mato Sušić, Dental traumatism on war victims in Croatia. Department of oral surgery, School of Dentistry, University of Zagreb, 2003.

Masters thesis:

Ivana Pranić, Anthropological analysis of dental and bone samples Bronze Age necropolis Bezdanjača in Lika, Department of dental anthropology, School of Dentistry, University of Zagreb, 1999

Nina Sever, Comparison of two methods of determining dental age, Department of dental anthropology, School of Dentistry, University of Zagreb, 2007

Marin Vodanović, Analysis of the dental system of medieval bone samples from the Bijelo Brdo, near Osijek, Department of dental anthropology, School of Dentistry, University of Zagreb, 2005

Andrej Katalinić, Tooth loss after the death in the process of identifying the human body, Department of dental anthropology, School of Dentistry, University of Zagreb, 2004

Mirko Laškarin, Dental age determination by the discoloration of the tooth root, Department of dental anthropology, School of Dentistry, University of Zagreb, 2004

Zrinka Milas, Age estimation in children in forensic procedures, Department of dental anthropology, School of Dentistry, University of Zagreb, 2004

Dalibor Šafar, Teeth Analysis of exhumed war victims, Department of dental anthropology, School of Dentistry, University of Zagreb, 2002

Minja Birimiša Komazec, Sex determination by analyzing DNA extracted from teeth, Department of dental anthropology, School of Dentistry, University of Zagreb, 2001

awards and recognitions

2013 – Croatian State Award for Science for the year 2012 – Annual Award for Science in the field of Biomedicine

**organizational skills and
competences**

Scientific collaboration with the following centers of scientific excellence: Institut fur Anthropologie, Johannes Gutenberg Universitat Mainz, Germany; Dental School Kings College London, Catholic University Leuven.

SCIENTIFIC AND PROFESSIONAL JOURNAL PUBLISHING

2011 – present – editor-in-chief, IOFOS Newsletter

2010 – present - member of scientific board, Stomatološki bilten B&H

2006 – present – member of scientific board, Pesquisa Brasileira em Odontopediatria e Clinica Integrada

2006 – present – editor-in-chief, Acta stomatologica Croatica

2004 – present - member of scientific board, International Journal of Forensic Odontostomatology

1996 – 2005 – member of scientific board, Acta stomatologica Croatica

1989 – 1993 – member of board, Medical newsletter

membership in science organizations and bodies

2009 – present – Association of Dental Education in Europe

1997 – present – President of *Croatian Association for Stomatology*

1997 – present – International Organization of Forensic Odonto-Stomatology

1996 – present – European Association of Endodontic

1996 – present – Croatian Endodontic Association

1989 – present – Croatian Dental Association

1989 – present – International Association for Dental Research

commissions, committees, boards and work groups

2006 – Reviewer for scientific projects for the Ministry of Science, education and sports of the Republic of Croatia

2006 – 2012, Member of the Croatian state awards committee for biomedical sciences.

other research activities

2000 – Author, Forensic dentistry. Zagreb: Školska knjiga

2000. – present – Reviewer for the following scientific journals from Croatia: Collegium Antropologicum; Croatian Medical Journal; Liječnički Vjesnik; Acta Stomatologica Croatica

2000. – present – Reviewer for the following international scientific journals: The Lancet, Archives of Oral Biology, Indian Journal for Dental Research, European Journal of Dental Education

computer skills

Excellent computer skills including knowledge of software packages MS Office (Word, Excel, PowerPoint, Access), web design software (Typo3 CMS, FER CMS, Frontpage), Adobe Photoshop, Windows Movie Maker and statistical programs such as SPSS, Statgraphics and Statistica.

other important skills and competences

Excellent management of research teams.

Excellent organizational skills.

additional information and notes

From 1994. to the present – forensic odontologist and part of the multidisciplinary team of forensic experts formed by the Croatian Government to locate and identify victims of the 1991 War in Croatia. In this context participated in more than 3000 identifications. Collaboration with the Department of Forensic medicine at the School of Medicine, University of Zagreb

Projects

Analysis of human dentition in forensic and archaeological research

Publications

a) Radovi objavljeni u časopisima koji su referirani u svjetskim bazama

1. Čelebić A, Valentić-Peruzović M, **Brkić H**, Prpić-Mehičić G. Radiographic study on the resorption of the lower part of the mandible. Coll Antropol 1994; 18 (Supplement): 7-92.
2. **Brkić H**, Kaić Z, Poje Z, Vitezić-Misjak M. Increased size of tooth crown in 47, XXY males. Coll Antropol 1994; 18 (Supplement): 113-17
3. **Brkić H**, Kaić Z, Poje Z, Singer Z. Shape of the craniofacial complex in patients with Klinefelter syndrome. Angle Orthod 1994; 64: 371-6.
4. Čelebić A, Valentić-Peruzović M, Kraljević K, **Brkić H**. A study of the occlusal plane orientation by intra-oral method (retromolar pad). J Oral Rehabil 1995; 22: 233-6.
5. Vojvodić D, Predanić-Gašparac H, **Brkić H**, Čelebić A. The bond strength of polymers and metal surfaces using the "silicoater" technique. J Oral Rehabil 1995; 22: 493-9.
6. Keros J, **Brkić H**, Ivanković D. Some characteristics of tooth crown convexity. Coll Antropol 1995; 19; 243-52.
7. Šutalo J, **Brkić H**. Cementum spurs. Coll Antropol 1995; 19: 253-6.
8. Kaić Z, **Brkić H**, Poje Z, Njemirovskij V, Dorn V. Hard palate size and shape in 47, XXY males. Coll Antropol 1996; 20 (Supplement): 87-91. Poje Z, **Brkić H**, Kaić Z, Singer Z. Malocclusion in males with Klinefelter syndrome. Coll Antropol 1996; 20 (Supplement): 93-6.
9. Poje Z, **Brkić H**, Kaić Z, Singer Z. Malocclusion in males with Klinefelter syndrome. Coll Antropol 1996; 20 (Supplement): 93-6.
10. **Brkić H**, Kaić Z, Poje Z, Singer Z, Njemirovskij V, Dorn V. Periodontal disease and Klinefelter's syndrome. Coll Antropol 1996; 20 (Supplement): 55-61.

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21. Konjević D, Keros J, **Brkić H**, Slavica A, Janicki Z, Margaletić J. Some histological characteristics of the fat dormice incisors in the Gorski Kotar area (Croatia). *Acta Zoologica Academiae Scientiarum Hungaricae*. 2003; 49 (Suppl 1): 63-68.
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- [in the mediaeval population of Bijelo Brdo in Croatia \(10th-11th century\)](#). *Archives of Oral Biol* 2005; 50 (7); 669-680.
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 33. Vodanović M, Šlaus M, Galić I, Marotti M, **Brkić H**. Stafne's Defects in Two mandibles from Archaeological Sites in Croatia. *Int J Osteoarcheology*. 2011; 21(1):119-26.
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36. Galić I, Vodanović M, Cameriere R, Nakaš E, Galić E, Selimović E, **Brkić H**. [Accuracy of Cameriere, Haavikko, and Willems radiographic methods on age estimation on Bosnian–Herzegovian children age groups 6–13](#). *Int J Legal Med.* 2011;125(2):315–321.
37. **Brkić H**, Vodanović M, Dumančić J, Lovrić Ž, Čuković-Bagić I, Petrovečki M. [The Chronology of Third Molar Eruption in the Croatian Population](#). *Coll Antropol.* 2011;35(2):353–357.
38. Galić I, Vodanović M, Janković S, Mihanović F, Nakaš E, Prohić S, Galić E, **Brkić H**. [Dental age estimation on Bosnian–Herzegovinian children aged 6–14 years: Evaluation of Chaillet's international maturity standards](#). *Journal of Forensic and Legal Medicine.* 2012;19;1–6
38. Vodanović M, Peroš K, Zukanović A, Knežević M, Novak M, Šlaus M, **Brkić H**. Periodontal diseases at the transition from the late antique to the early mediaeval period in Croatia. *Archives of Oral Biology* 2012;57:1362–1376.
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40. Vodanović M, Zukanović A, Galić I, Harvey L, Savić Pavičin I, Dumančić J, Bedić Ž, Njemirovskij V, Šlaus M, **Brkić H**. [Carabelli's trait in Croatian populations over 1800 years](#). *HOMO.* 2013;64(4)273–85.
41. Ambarkova V, Galić I, Vodanović M, Biočina-Lukenda D, **Brkić H**. Dental age using Demirijan and Willems methods: Cross section study on children from the Former Yugoslav Republic of Macedonia. *Forensic Sci Int.* 2014;234:187–93.
42. Sušić M, Brozović J, Filipović-Zore I, Milenović A, Strinović D, **Brkić H**, Gabrić Pandurić D. Jaw injuries of independence victims from the 1991 war in Croatia. *Coll Antropol.* 2014;38(1):255–60.
- 43.

Interests

Croatian dental Society

Croatian endodontics society

International Association for Dental Research

Association for Dental Education in Europe

International Organization of Forensic Odonto-Stomatology

izv. prof. dr. sc. Amir Ćatić



Phone: +3854802115

E-mail: catic@sfzg.hr

Biography: B-IF-1

Year of graduation: 1996

MSc thesis: 1999

PhD thesis: 2005

Courses

- [Biomechanic principles in implant-prosthetic therapy](#)

Biography

Amir Ćatić was born in Zagreb, Croatia, 12.05.1972. where he finished primary school and 3 years of High school for foreign languages, Križanićeva 4a, Zagreb. The senior year he completed in the USA, Shaddle Park high school, Spokane, Wa. In 1991. he enrolled in the School of Dental Medicine University of Zagreb and graduated in 1996. In 1999 after postgraduate studies he received the Master of science degree, and in 2005 finished his doctoral thesis earning a PhD degree. The same year he passed the specialist exam Clinical Medical Center Zagreb, Clinic for Dentistry, Department of prosthodontics, becoming the specialist in prosthetic dentistry.

During 1997. and 1998. as a Nuffic and Croatian Ministry of science and technology fellow he was a research assistant at the Academic Center for Dentistry Amsterdam (ACTA), the Netherlands, in the Department of Oral Function, participating in a research and development project «The kinematics of the human jaws» under supervision of prof. Machiel Naeije. Since 2001. he has been working at the School of Dental Medicine University of Zagreb, at the Department of prosthodontics where he was elected a research fellow in the Croatian Ministry of science and technology research project of prof. Adnan Ćatović in 2001, a research assistant in 2002, senior research assistant in 2005, assistant professor in 2008 and associate professor in 2013.

Amir Ćatić actively participated with poster and oral presentations at numerous national and international congresses and venues. He published original scientific, review and practice papers in national and international journals with relevant indices. He organized, held and participated in numerous continuous education courses in the fields of dental prosthodontics, fixed prosthodontics, jaw kinematics and implant prosthodontic rehabilitation. He was a member of the strategic creations group for institutions under prof. Mirko Gjurasin within the Croatian Ministry of health and social care project «Croatia in 21st century» led by prof. Mišo Virag.

Amir Ćatić received the Rector's award for the best student research project in 1996, in 2006. in Dublin, Ireland, and 2011. in Budapest, Hungary «the International Association for Dental Research Travel Awards», and in 2010. the best poster presentation prize at the European Prosthodontic Association Congress.

In the period from 2012 to 2015 Amir Ćatić was the Head of the Department of Fixed Prosthodontics, School of Dental Medicine, University of Zagreb.

He is married, and a father of two children.

Projects

"Teeth materials and prosthodontic appliances in adolescent and elderly population" - PI prof. Adnan Ćatović

"TiMg alloy for dental implants" - PI prof. Zdravko Schauperl, FNAE, UNIZG

Publications

<http://bib.irb.hr/lista-radova?autor=227805>

Interests

Amir Ćatić is currently a member of the Croatian Society for Prosthetic Dentistry of the Croatian Medical Chamber, and vicepresident of the Croatian Society for Dental Implantology of the Croatian Medical Chamber. He was a co-founder and member of the board of the Association of the young dentists and medical doctors of the Croatia Medical Chamber, a co-founder and vice-president of the Croatian Association for Education in Implantology. He is a member of the European Prosthodontic Association (EPA), International Association for Dental Research (IADR), European Association for Osseointegration (EAO).

Hobby

Sailing, fishing, tennis, motocycling

prof. dr. sc. Adnan Čatović



Phone: 4802135

E-mail: catovic@sfzg.hr

Biography: Ulična zgrada, I kat lijevo

Year of graduation: 1977

MSc thesis: 1979

PhD thesis: 1981

Courses

- [Biomechanics in fixed prosthodontics](#)

Biography

Born in Zagreb on the 9th of June 1953. Specialist in Prosthodontics. Primarius. Full Professor of Fixed Prosthodontics and Geriatric Dentistry at the School of Dentistry, University of Zagreb and Dental Clinic University Hospital Centre in Zagreb, Croatia. Regular Member of the Croatian Academy of Medical Sciences. Graduated from the School of Dental Medicine in Zagreb 1977. From 1977 until 1987. assistant and research assistant at the Department of Fixed Prosthodontics, Faculty of Dentistry in Zagreb, university lecturer and research associate in 1987. year, an associate professor and senior research associate in 1995 year, a full professor and scientific advisor from 1999 year. The Head of the Department of Fixed Prosthodontics, Faculty of Dentistry, University of Zagreb from 1999. until 2001. Head of the Department of Fixed Prosthodontics, School of Medicine, University of Rijeka, from 2001 until 2003.. Now Head of the Geriatric Dentistry at the School of Dental Medicine University of Zagreb. Fields of scientific interest: fixed dental prosthetics, biomechanics in dentistry, geriatric dentistry and ergonomics. He was a lecturer at numerous scientific and professional conferences and has published over 150 scientific papers and articles. He is a regular member of the Croatian Academy of Medical Sciences, editorial board Journal Medix, Croatian Society for Prosthetic Dentistry, Croatian Medical Association, European Prosthodontic Association/ EPA/ and the European College of Gerodontology /ECG/.

prof. dr. sc. Asja Čelebić



Phone: +38514802165
 E-mail: celebic@sfzg.hr
 Biography: mobilna protetika
 Year of graduation: 1980
 MSc thesis: 1984
 PhD thesis: 1993

Courses

- [Prosthodontic patient and quality of life evaluation after prosthodontics: questionnaires, factor analysis and psychometric qualities](#)

Biography

NAME: Asja Celebic

PERSONAL DATA: DDS, PhD, Full professor, Specialist of Prosthodontics

DATE OF BIRTH: 5th November, 1956.

PLACE OF BIRTH: Zagreb, Croatia

NACIONALITY: Croatian

ADDRESS: Department of Prosthodontics, School of Dental Medicine,
 University of Zagreb, Gundulićeva 5, 10000 Zagreb, Croatia

e-mail: celebic@sfzg.hr

EDUCATION:

1980. Graduated at the School of Dental Medicine, University of Zagreb, average grade 4.8 (maximum 5.0) – the best generation student

1984. **Master of Science:** Thesis „Activity of anterior and posterior part of temporal muscle at different occlusal positions of the mandible“

1987. **Specialist of Prosthodontics**

1993. **PhD:** Thesis " **EMG silent period in subjects with normal occlusion and artificial occlusal interference** “

1996. Nuffic and Croatian Ministry of science scholarship in Neimechen, Netherlands at Department of Prosthodontics

1997. Nuffic and Croatian Ministry of science scholarship - 7 days at School of Dentistry, University of Amsterdam (ACTA) in Department for Oral function (prof. Naijee, mentor)

1981.-2016.. – Attending programs (different topics) and also teaching at the courses of the long-life education programme

PROFESSIONAL CAREER:

1995. **Assistant lecturer** at the Department of Removable Prosthodontics School of Dental Medicine,

University of Zagreb

1996. **Assistant professor** at the Department of Removable Prosthodontics School of Dental Medicine, University of Zagreb

1999. **Associate professor** at the Department of Removable Prosthodontics School of Dental Medicine, University of Zagreb

2002. **Full professor** at the Department of Prosthodontics School of Dental Medicine, University of Zagreb

2006. Principal teacher of the Removable Preclinical Prosthodontics

2007. Re-election: **lifetime full professor (full tenure professor)**

2013. Principal teacher for TMD diagnosis and treatment

REWARDS:

1978. Chancellor's award for student's scientific research

1979. Chancellor's award for student's scientific research

1980. The best student at the School of Dental Medicine, University of Zagreb

1995. Dentsply Shield award for the best orally presented research study at the Conference at Cardiff, UK 19th EPA

2002. Co-author of the best Poster : "Quintessence poster prize" at the 26th EPA Conference in Cavtat, Croatia

2002. Co-author of the best orally presented research study : "Dentsply Shield Award" at the 26th EPA Conference in Cavtat, Croatia

2007. Co-author of the awarded poster: "Prediction of postmenopausal osteoporosis with mandibular bone density using panoramic radiographs" at the 12th ICP Meeting, Fukuoka, Japan

2007. Co-author of the awarded oral presentation at the European prosthodontic Association meeting in Athens-second prize

2008. Co-author of the best scientific poster at the Croatian Prosthodontic Association Conference, Zagreb, Croatia

2010. Croatian National Award for Science in the field of Biomedicine

2015. Award as a doctor who treated the highest amount of patients in the field of Prosthodontics in Croatia

TEACHING OCCUPATION:

- Lecturing, teaching and examining students from 4th to 10th semester
- Mentor of more than 35 student's graduate studies.
- Lecturing and teaching at post-graduate studies -
- Master specialist study teaching 2 topics;
- PhD study teaching 4 different topics
- Lecturing and teaching at "long-life education" courses.
- Mentor of 9 completed master science thesis
- Mentor of 6 completed PhD. Thesis

SCIENTIFIC RESEARCH: Different topics from the field of Removable Prosthodontics, TMD and related subjects

1990.-2002. Investigator at the project " Analysis of function and shape of craniomandibular complex: 3-02-329

2002.-2007. Principal investigator at the Project 0065014 «Influence of Prosthodontic Appliance and other Factors to stomatognathic system».

2007.-2013. Principal investigator at the Project 065-0650446-0420 "Influence of Prosthodontic Appliance and other Factors on stomatognathic system and Health"

2005. Researcher at the international project, leading prof.: Akira Taguchi, Japan: "Osteoporosis-screening project in dentistry"

2004-2006. Principal investigator of the Bilateral International Project with Slovenia, Ljubljana - (prof. Marion leading Slovenian team)

2006.-2008. Principal investigator: Bilateral International project with Slovenia, Ljubljana - (prof. Marion leading Slovenian team)

2009.-2011. Investigator at the bilateral projects with Slovenia

2012.-2014. Investigator for the Project funded by USA – principal investigator Prof. Mike John, Minnesota: Dimension of oral health related quality of life

2015.-2019. Principal Investigator at the Project funded by Croatian Science foundation "Defining the possibilities of use of mini dental implants by means of *in vitro* and clinical prospective studies"

Publications:

Over 300 scientific papers in various indexed Journals (CC, SCI, SSCI, Index to Dental literature, Medline, Index Medicus, Excerpta Medica, INSPEC), 100 papers in indexed in WoS

About 100 CC/SCI papers in journals with Impact factor

- 6 chapters (author or co-author) in the scientific books: Nova Science books, New York

CITATIONS:

WoS = 852x; H index=16

Scopus = 907x, H index = 18

Researchgate = 1116x

MEMBERSHIP:

Croatian Medical Society, Croatian Prosthodontic Society, Croatian Anthropological Society; Croatian Society for Informatics in Medicine; International Association for Dental Research; European Prosthodontic Association, COREMA & CROMBES, International college of Prosthodontics, International College of Dentists, ITI study team

FOREIGN LANGUAGE: English

FAMILY: One child

SCIENTIFIC TOPIC OF INTEREST: Removable Prosthodontics, Biological Impact of Dental casting alloys, Questionnaires and their psychometric properties in assessment of prosthodontic therapy, OHRQoL, EMG, orofacial system: function; Bone density, Influence of different dentures on tissues of orofacial system, dental implants suprastructures, dentures on implants, bone atrophy under removable dentures supported by implants, by tissue, and/or tooth, TMD, mini dental implants, etc.

Projects

2002. Ministry of Science RH project: "Influence of prosthodontic rehabilitation on orofacial system"
2006. Ministry of Science RH project: "Influence of prosthodontic rehabilitation on orofacial system" and Health"
- 2004-2005 i 2006-2007 – bilateral project with Slovenia
2013. University support project -principal investigator
2014. University support project -principal investigator
2015. University support project -principal investigator
2015. Project funded by HRZZ 1218-2014-09 "Defining of Mini implant utilisation by means of in vitro and clinical prospective longitudinal studies", principal investigator

Publications

Over 100 CC/SCI publications, cited 860x (WoS), H index 16, 6 book chapters

Interests

Interests: Removable Prosthodontics, Biological Impact of Dental casting alloys, Questionnaires and their psychometric properties in assessment of prosthodontic therapy, OHRQoL, EMG, orofacial system: function; Bone density, Influence of different dentures on tissues of orofacial system, dental implants suprastructures, dentures on implants, bone atrophy under removable dentures supported by implants, by tissue, and/or tooth, TMD, mini dental implants, etc.

Membership: Croatian Medical Society, Croatian Prosthodontic Society, Croatian Anthropological Society; Croatian Society for Informatics in Medicine; International Association for Dental Research; European Prosthodontic Association, COREMA & CROMBES, International college of Prosthodontics, International College of Dentists, ITI study team

Hobby

travelling, swimming, literature and art

izv. prof. dr. sc. Robert Čelić



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E-mail: celic@sfzg.hr

Year of graduation: 1995

MSc thesis: 1999

PhD thesis: 2003

Courses

- [Stomatognathic bone tissue analysis; the impact of functional wear, aging, implant therapy and/or prosthetics](#)
- [Clinical and radiological examination of the success of implant-prosthetic treatment in completely edentulous patients](#)

Biography

Robert Čelić was born on October 15th, 1970 in Metković, Croatia. In 1995 he graduated from the School of Dentistry in Zagreb. From the same year, he worked as a research assistant at the Department of Prosthodontics at School of Dentistry, University of Zagreb. He enrolled the postgraduate study in 1995 and passed all the required exams. He received his master's degree with thesis "Correlation of Temporomandibular Disorders and Occlusion" in 1999. In 2003 he defended his Ph.D. thesis entitled "Investigation of Temporomandibular Disorders using RDC/TMD protocol". He passed specialist exam in prosthodontics in 2004. He received the academic title of assistant professor in 2007, and the title of associate professor in 2011 at the Department of Prosthodontics at School of Dentistry in Zagreb. In 2012 he was elected the Head of the Department of Removable Prosthodontics. Within the research activities prof. Robert Čelić PhD. shows a special interest in the field of dental prosthetics related to problems of fully and partially edentulous patients (use of modern CAD/CAM technologies), as well as in the diagnosis and treatment of patients with temporomandibular disorders. Furthermore, his interest focuses in the field of implantology and implant prosthetics in terms of organizing and conducting professional courses for fellow dentists and dental technicians. He is a member of numerous national and international professional associations.

Interests

He actively participates in the scientific and professional conferences in the country and abroad and in number of working and demonstration courses for continuing education of dentists. He is a member of the Croatian Dental Chamber, Croatian Medical Association, Croatian Society for Prosthodontics (Board of directors), International Association for Dental Research, International College of Prosthodontists, European Prosthodontics Association, International Consortium for RDC-TMD Research, Croatian Association of Dental Implantology (HDDI), International Team for Implantology, European Association for Osseointegration, European Association of Dental Implantologists, etc.

Doc. dr.sc. Alena Čizmić



Phone: +1 213 740 8641

E-mail: ma505ak@yahoo.com

Year of graduation: 1996

MSc thesis: 1999

PhD thesis: 2002

Courses

- [Experimental photopolymerization](#)

Biography

Alena Knežević Čizmić graduated in 1996 from the School of Dental Medicine, University of Zagreb. She started working as a Research Assistant at the Department of Endodontics and Restorative Dentistry, School of Dental Medicine University of Zagreb in 1997. She passed the Board exam in 1998 and got her dental license. With her thesis "Polymerization of composite materials with blue light-emitting diodes" in 1999, she got the title of Master of Biomedical Sciences in the field of dentistry. The same year she became a Teaching Assistant at the Department of Endodontics and Restorative Dentistry, School of Dental Medicine, University of Zagreb. In 2002 she got the academic degree of Doctor of Biomedical Sciences in the field of dentistry defending a doctoral thesis "Measurement of shrinkage of composite materials using digital holographic interferometry". In 2003, she acquired the title of Senior research assistant at the School of Dental Medicine, Department of Endodontics and Restorative Dentistry. In 2004 she successfully finished her residency program and got the title Specialist in Endodontics and Restorative Dentistry. In 2006 she acquired the scientific title of Scientific Adviser and Assistant Professor at the Department of Endodontics and Restorative Dentistry. In 2014 she left her position at the School of Dental Medicine in Zagreb, and continues to work as an Clinical Assistant Professor at the Herman Ostrow School of Dentistry of USC, Department of Restorative Sciences, University of Southern California in Los Angeles.

Dr. Knezevic actively participates in clinical and preclinical teaching in the field of restorative dentistry and CAD/CAM technology, and lectures within Advance Operative Dentistry program. She is a participant in Master and Doctoral program at the School of Dental Medicine, University in Zagreb with the course "Experimental photopolymerization". She is a collaborator on the project "Nanostructure of restorative materials and interactions with hard dental tissues" and „Assesment of new bioactive materials and procedures in restorative dental medicine". She is the author and co-author of over 120 scientific and clinical papers and has actively participated in numerous international congresses organized by the International Association for Dental Research, Biomedical Optics Society, European Optical Society and The International Society for Optical Engineering, the Association for Dental Education in Europe and the European Society of Endodontics and in many domestic congresses and professional courses. Her scientific and professional work mainly relates to the field of dental materials for the supply of hard dental tissues and light sources for their photopolymerization. She got several awards: In 1996 she was awarded by "LEK" Zagreb, for research in the field of dental materials for a thesis entitled " Polymerization of composite materials in blue light-emitting diodes"; In 2005 she was awarded by the Society of University professors and other scientists in Zagreb with Annual award of the young scientists and artists for work associated with the holographic measuring polymerization shrinkage "Measurement of linear polymerization contraction using digital laser interferometry"; In 2008 she got the first prize in the category of Post-doctoral research scientists at the symposium in Los Angeles, University of Southern California, School of Dentistry. She is a member of the Croatian Dental Society, Croatian Endodontic Society, International Association for Dental Research - Dental Materials Group, European Society of Endodontics. In 1998 Dr. Knezevic continued her scientific development via training at Vivadent, Schaan, Liechtenstein; 2005/2006 at the University of California, Los Angeles (UCLA), USA, and the Institute of Composite Materials, University of Southern California (USC), Los Angeles, USA. In 2006 and 2007 she attended the professional training at Ludwig Maximilian University in Munich, Germany. Since 2006 she regularly went to training at the Herman Ostrow School of Dentistry of USC, University of Southern California, Los Angeles, where she still works. She is teaching Croatian language at the St. Anthony Croatian Children's School in Los Angeles and is the author of several children's picture books. Dr. Knezevic is fluent in German and English language.

Projects

2012 – present - „Assesment of new bioactive materials and procedures in restorative dental medicine” - supported by the Croatian Science Foundation, Croatia (PI – Prof. Zrinka Tarle).

2007- present - "Nanostructure of restorative materials and interactions with hard dental tissue"- supported by the Ministry of Science and Technology of the Republic of Croatia, grant no. 065-0352851-0410 (PI – Prof. Zrinka Tarle). This grant is a part of the scientific program “New technologies in atomic, molecular, optical and plasma physics”, grant no. 0352851, supported by the Ministry of Science and Technology of the Republic of Croatia.

Publications

THESES

KNEZEVIC A. Polimerizacija kompozitnih smola plavim visokosjajnim svijetlećim diodama. Magistarski rad. Zagreb, 05. veljače 1999. Composite resin photopolymerization with blue superbright light emitting diodes. (Master thesis)

KNEZEVIC A. Mjerenje skupljanja kompozitnih materijala uporabom digitalne holografske interferometrije. Disertacija. Zagreb, 19. ožujka 2002. Polymerization shrinkage of composite materials measured using digital holographic interferometry. (PhD tesis).

ARTICLES PUBLISHED IN CURRENT CONTENTS JOURNALS

KNEŽEVIĆ A, TARLE Z, MENIGA A, ŠUTALO J, PICHLER G, RISTIĆ M. Degree of conversion and temperature rise during polymerization of composite resin samples with blue diodes. *J Oral Rehabil* 2001; 28:586-591. IF (2008) - 1.356

PANDURIĆ V, KNEŽEVIĆ A, TARLE Z, ŠUTALO J. The efficiency of dentin adhesives in treating non-caries cervical lesions. *J Oral Rehabil* 2001; 28:1168-1174. IF (2008) - 1.356

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TARLE Z, KNEZEVIC A, SKRTIC D, DEMOLI N, MENIGA A, PANDURIC V, PRSKALO K, NEGOVETIC MANDIC V. Degree of conversion and polymerization shrinkage of experimental amorphous calcium phosphate based composites. *Ital J Oper Dent* 2006. Abstr. D102., 240

KNEZEVIC A, MAGNE P. Simulated fatigue of porcelain/composite resin CAD/CAM overlays on endodontically-treated molars. *USC Research Day '08. Abstract book; 2008: 79.*

MATOSEVIC D, TARLE Z, KNEZEVIC A, SKRTIC D, RISTIC M, JANKOVIC B. Utjecaj organske matrice na polimerizaciju bioaktivnih kompozita s remineralizacijskim potencijalom. *Acta Stomatologica Croat* 2008: 397-398.

KNEZEVIC A, KIM TH, CASCIONE D, NOWZARI H. Immediately restored and loaded dental implants: a case report. *USC Research Day '09. Abstract book; 2009.*

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OH SH, KIM TH, KNEZEVIC A, ENCISO R. Evaluation of three different types of posterior palatal dam. *USC Research Day 2010.*

KIM TH, KNEZEVIC A, AHN K, ENCISO R. Evaluation of different separating materials on denture surface. *USC Research Day 2011.*

MATOSEVIC D, PANDURIC V, JANKOVIC B, KNEZEVIC A, KLARIC E, TARLE Z. Light intensity of curing units in dental offices in Zagreb, Croatia. *Stomatologija svakodnevna praksa. Zagreb, Croatia, 2011.*

KNEZEVIC A, KIM TH, JORGENSON M, REYES E. Immediately restored and loaded dental implants: One year study evaluation. *USC Research Day. Abstract book; 2012.*

KNEZEVIC A, ZELJEZIC D, KOPJAR N, TARLE Z, RONAGHI G, DUARTE Jr S. Cytotoxicity of Amine-Free Dual-cured Resin Cement Under CAD/CAM Restorations. *Abstract book, USC Research Day, Los Angeles 2014; p.51.*

KNEZEVIC A, ZELJEZIC D, KOPJAR N, TARLE Z, DUARTE Jr. S. Cytotoxicity of Pre-heated Resin Restorative Materials Polymerized through CAD/CAM Overlays. *Abstract book, USC Research Day, Los Angeles 2014; p.43.*

KIM TH, KNEZEVIC A, ZELJEZIC D. Biocompatibility of denture base resin evaluated in human lymphocyte cells. *Abstract book, USC Research Day, Los Angeles 2014; p.42.*

Chapter translation in books:

TORABINEJAD M, WALTON R E. *Endodoncija: načela i praksa.* Zagreb: Naklada Slap; 2009. (Endodontics: Principles and practice)

FEJERSKOV O, KIDD E. *Zubni karijes: bolest i klinički postupci.* Zagreb: Naklada Slap; 2011. (Dental caries: the disease and its clinical management)

Interests

2008-2012 American Association for the Advancement of Science (AAAS)

1997 - International Association for Dental Research (IADR)

1999 - Croatian Society of Endodontology

1999 - European Society of Endodontology (ESE)

1999 - Croatian Dental Society

Hobby

Croatian language teacher at the St. Anthony Croatian Children School, Los Angeles

Children books author

prof. dr. sc. Ivana Čuković Bagić



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Biography: Zavod za dječju i preventivnu stomatologiju

Year of graduation: 1990

MSc thesis: 1993

PhD thesis: 1999

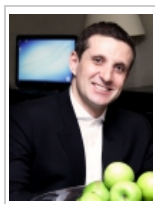
Courses

- [Epidemiology of dental erosion among adolescents](#)

Biography

For the past 22 years, Ivana Čuković-Bagić has been involved in research, teaching and specialist healthcare at the University of Zagreb, School of Dental Medicine and University Hospital Center Zagreb where she holds a position of Full professor and Specialist in Paediatric and Preventive Dentistry. She also holds, from Oct 2nd 2014, position of Vice-Rector for Students, Study Programmes and Quality Management at the University of Zagreb. She held also the position of Vice-Dean for Postgraduate Specialist Studies (three mandates, from 2007- 2014). She is Scientific Adviser, and Principal Investigator in grant of Republic of Croatia Ministry of Science, Education and Sport, titled "Epidemiology of carious and non-carious lesions in children of Republic of Croatia", and current collaborator in other three projects. Professor Cukovic-Bagic made her PhD on craniofacial anthropometry and participated in international collaborative project on craniofacial anthropometry titled "Validity of the neoclassical facial canons in different nations" led by Leslie G. Farkas, "father" of modern craniofacial anthropometry, Hospital for Sick Children University of Toronto. In 2012 she was invited guest lecturer for the 30th Annual/13th Memorial Feasby Lecture at Schulich School of Medicine&Dentistry, University of Western Ontario, London, Canada. She has published more than 50 peer reviewed in extenso articles and presented more than 65 oral/poster presentations on mainly international congresses/meetings. She is one of authors of university handbook on dental erosion, as well as co-author on two handbooks on paediatric dentistry. She has translated a handbook "Child Protection and the Dental Team - Safeguarding Children in Dental Practice" (Harris, Sidebotham and Welbury) into Croatian. She teaches Paediatric and Preventive Dentistry (UG), Oral Hygiene (UG), Medically compromised patients (PG), Dental erosion in adolescents (PG) and in 2007/08 she has introduced new course to Dental School curriculum: "Child abuse and dental neglect" (UG and PG). She is Vice President of the Croatian Society for Paediatric and Preventive Dentistry, member of Constitution Committee of European Academy of Paediatric Dentistry and Secretary Assistant of International Dental Ethics and Law Society. She serves as a Deputy Editor of the South European Journal of Orthodontics and Dentofacial Research, as well as a member of International Editorial Boards (Acta Stomatologica Croatica and Anthropology). She is permanent expert witness for dentistry and a member of many international and national societies (EAPD, IAPD, ISPCAN, IOFOS, APSAC, IDEALS, IAOM, HKDM, HAZU, etc.). She is married and mother of three children.

izv. prof. dr. sc. Walter Dukić



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Biography: Zavod za Dječju i preventivnu stomatologiju

Year of graduation: 2000

MSc thesis: 2004

PhD thesis: 2008

Courses

- [Evaluation of clinical and preventive methods of caries therapy](#)

Biography

Walter Dukic was born on 20 December 1976 in Zagreb. There ends elementary school and high school Science and Mathematics. Enter Faculty of Dentistry University of Zagreb in 1995, and graduated in 2000. Internship done in Within KBC Zagreb at the Department of Dentistry. During the study, through the four years he was a assistant at the Department of Anatomy. From May 2001 employed at the Department of Paediatric Dental Medicine in Zagreb as research fellow at the research project code-named 065 101 "Prevention of early caries in children". In February 2002, passed exam for doctors of Dentistry and received his approval of the Croatian Dental Chamber for independent work. That same year he began to specialize in pedodontics the Department of Paediatric Dentistry at Dental Clinic Hospital Centre Zagreb. The teaching assistant in the status of junior researcher elected on 1 January 2004. In February 2005, he defended his master's degree under the title "Analysis of materials and procedures for the prevention of dental caries by sealing fissures". In March 2006 he specialized in field of pedodontics. Since 2007, leading to a research project number 065-0653147- In 2056 under the title: Prevention of early caries in children: clinical evaluation of preventive procedures. He led the scientific research project MSES 065-0653147-2056 entitled: Prevention of early caries in children: clinical evaluation of preventive procedures from 2010 to 2014 year. He defended his dissertation 31.3.2008. under the name Ozone Therapy deep dentin infection. That same year he was elected Research associate. In 2009 he was elected assistant professor at the School of Dentistry Faculty in Zagreb. In 2010 years leading scientific research project code 065-0653147-2056 entitled: Prevention of early caries in children: evaluation clinical and preventive procedures. He became a senior research associate of the Committee for

Biomedicine and Health 24.3.2011. He became a scientific adviser 21/03/2013. year.

Publishes scientific papers in national and international journals and on international conferences. He is a member of the Croatian Society for Pediatric and Preventive Dentistry, European Association of pediatric dentists (EAPD), the International Association pediatric dentists (IAPD), the European Association for the study of dental caries (ORCA), European organization for Osseointegration (EAO), International Team for Implantology (ITI) and Croatian Dental Chamber (CWC). He actively participated in the translation of four chapters of the book, which is academic textbook G.Koch: "Pediatric Dentistry - Clinical Approach" which has been translated and published in the Croatian language in 2005. He translated J.Andreasen book "Traumatic Dental Injuries," which was published in 2008. He has participated in eight international congresses as well as several local. He was staying at the professional course KaVo Gentleray lasers in Vienna 2007. year. He has participated in eight international congresses. Under his supervision to now is made and defended 10 theses. Under his supervision student made scientific work in 2008 he received the Rector's Award. Head of the Item postgraduate specialist study entitled "Modern techniques diagnosis and treatment of dental caries in pediatric dentistry" and doctoral study "Evaluation clinical and preventive methods of treatment of dental caries. Mentor has two candidates in the postgraduate doctoral study (Ivica Dubravica, dr.dent. Med. And Stjepanka Lesic, dr.dent.med.) And a mentor is under construction postgraduate specialist work (Daniel Hatter, dr.dent.med). Reviewer In the following scientific CC journals: the Journal of Periodontology and Journal of Clinical pediatric dentistry. Head of the subjects of postgraduate specialist study entitled "Modern techniques of diagnosis and treatment of dental caries in pedodontics" and mentor one specialist postgraduate work. Mentor is also two candidates to postgraduate doctoral study.

On 6.3.2012. is mentored and completed specialist work Mateja Raguz dr.dent. called "State of oral health in children municipalities Pitomaca". On 07.12.2013. is mentored specialist work Nikica Pirović, dr.dent.med. entitled "Comparative chemical and physical characterization composite dental materials" under the supervision of Ph.D. W.Dukića.

Four working in collaboration with the students are published in scientific journals indexed in Current Contents database. He was a mentor to 16 graduate finishing works.

Publications

1. Lulić-Dukić, Olga; Jurić, Hrvoje; Dukić, Walter; Glavina, Domagoj.
 Čimbenici koji predisponiraju razvoju karijesa bočice u djece pretškolske dobi u

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2. Lulić Dukić, Olga; Radionov, Dubravka; Dukić, Walter; Keros, Jadranka. Psychophysiological Parameters and Children s Behavior During Dental Treatment. *Collegium Antropologicum*. 1998; 22 (Suppl); 267-71.
3. Dukić, Walter; Lulić-Dukić, Olga; Milardović, Slađana; Vindakijević, Željka. Clinical Comparison of Flowable Composite to Other Fissure Sealing Materials-a 12 Months Study. *Collegium Antropologicum*. 2007;31(4):315-9.
4. Šuman, M.; Špalj, Stjepan; Plančak, Darije; Dukić, Walter; Jurić, Hrvoje. The influence of war on the oral health of professional soldiers. *International Dental Journal*. 58 (2008), 2; 71-74.
5. Dukić, Walter; Lulić Dukić, Olga; Milardović, Slađana. The Influence of Healozone on Microleakage and Fissure Penetration of Different Sealing Materials. *Collegium Antropologicum*. 33 (2009) , 1; 157-162.
6. Dukić, Walter; Lulić Dukić, Olga; Milardović, Slađana; Delija, Barbara. Clinical Evaluation of Indirect Composite Restorations at Baseline and 36 Months After Placement. *Operative Dentistry*. 32 (2010) , 2; 156-164.
7. Dukić, Walter; Trivanović Dobrijević, Tanja; Katunarić, Marina; Milardović, Slađana; Šegović, Sanja. Erosive Lesions in Patients With Alcoholism. *Journal of the American Dental Association*. 141 (2010), 12; 1452-1458.
8. Dukić W, Delija B, Lulić Dukić O. Caries prevalence among schoolchildren in Zagreb, Croatia. *Croat Med J*. 2011 15;52(6):665-71.
9. Dukić W, Delija B, Derossi D, Dadić I. Radiopacity of composite dental materials using a digital X-ray system. *Dent Mater J*. 2012 3;31(1):47-53.
10. Dukic Walter, Bago Ivona, Aurer Andrej, Roguljic Marija. Clinical effectiveness of diode laser therapy as an adjunct to non-surgical periodontal treatment: A randomized clinical study. *J Periodontol* 2013 ;84(8):1111-7.
11. Dukić W, Jurić H, Tambić Andrašević A, Kovačević V, Lulić Dukić O, Delija B. The efficacy of gaseous ozone on some cariogenic bacteria. *Coll Antropol*. 2013;37(1):109-13.
- Dukic W, Delija B, Lesic S, Dubravica I, Derossi D. Radiopacity of flowable composite by a digital technique. *Operative Dentistry* 2012. 38(3):299-308.
13. Baraba A, Dukić W, Chieffi N, Ferrari M, Anić I, Miletić I. Influence of Different Pulse Durations of Er:YAG Laser Based on Variable Square Pulse Technology on Microtensile Bond Strength of a Self-Etch Adhesive to Dentin. *Photomed Laser Surg*. 2013 31(3):116-124.
14. Walter Dukić, Tanja Trivanović Dobrijević, Marina Katunarić, Stjepanka Lešić.

Caries prevalence in chronic alcoholics and the relationship to salivary flow rate and pH. *Cent Eur J Public Health* 2013; 21 (1): 239–243.

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2. Dukić, W., Glavina, D. Clinical evaluation of three different materials for fissure sealing after 12 months. *Acta Med Croatica*. 2006;60(3):209-14.

3. Dukić, W., Kuna, T., Lapter-Varga, M., Jurić, H, Lulić-Dukić, O. Combined surgical-orthodontic therapy for compound odontoma. *Acta Med Croatica*. 2007;61(4):405-9.

4. Dukić, W., Filipović-Zore, I., Bago, I. Kondenzirajući ostitis - prikaz slučaja. *Acta Stomatologica Croatica*. 2006;40(2):182-8.

5. Lulić-Dukić, Olga; Dukić, Walter; Vindakijević, Željka; Lulić Dukić, Olga; Milardović, Slađana. Influence of Different Prophylactic Pastes and Cleaning Methods on DIAGNOdent/DIAGNOdent Pen Readings. *Acta Stomatologica Croatica*. 2007;4: 315-25.

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7. Lulić-Dukić, Olga; Dukić, Walter; Jurić, Hrvoje. Promjene orofacijalnih struktura i idiopatske skolioze. *Paediatrica Croatica*. 1 (2003), 47; 11-14.

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9. Lulić Dukić, Olga; Jurić, Hrvoje; Dukić, Walter; Glavina, Domagoj. Factors predisposing to early childhood caries in pre-school children from two kindergartens in Zagreb, Croatia. *Paediatrica Croatica*. 45 (2001), 3; 129-132.

10. Baraba, Anja; Dukić, Walter; Chieffi, Nicoletta; Ferrari, Marco; Pezelj Ribarić, Sonja; Miletić, Ivana. [Influence of air abrasion and sonic technique on microtensile bond strength of one-step self-etch adhesive on human dentin](#). // *The scientific world journal*. (2015); 368745-1- 368745-6

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(2001) , 36; 112-113.

6. Dukić, Walter. Dijagnostika karijesa uz KaVo DIAGNOdent uređaje, 2007. // Hrvatski stomatološki vjesnik. 2 (2007); 42-46.

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Milardović, Slađana; Dukić, Walter. KaVo DIAGNOdent pen-moderan pristup otkrivanju aproksimalnog i okluzalnog karijesa, 2007. Sonda 15.

8. Dukić, Walter. Minimalno invazivna preparacija-temeljna načela, 2005. Sonda 13/14.

9. Dukić, Walter. Suvremeni antimikrobni postupci u terapiji karijesa-1 dio. Sonda 2009 (19).

10. Dukić, Walter. Suvremeni antimikrobni postupci u terapiji karijesa-2 dio. Sonda 2010 (20).

Interests

EAO- European Association for Osteointegration

ITI-International Team for Implantology

ORCA- Organisation for caries research

HKDM-Hrvatska komora dentalne medicine

Hobby

Sport, fitness, bicycle riding

doc. dr. sc. Jelena Dumančić



Phone: 4802-146
E-mail: dumancic@sfzg.hr
Biography: A-2-2
Year of graduation: 1995
MSc thesis: 2000
PhD thesis: 2005

Courses

- [Morphometry in Dental Anthropology](#)

Biography

Dr. Jelena Dumančić is assistant professor at the Department of Dental Anthropology, School of Dental Medicine, University of Zagreb, Croatia. She graduated in 1995, defended MSc thesis entitled “Gonadal Dysgenesis and Dental Traits” in 2000 and PhD thesis entitled “Characteristics of the Craniofacial Complex in Turner Syndrome” in 2005, all at School of Dental Medicine, University of Zagreb. In 1995 she was awarded by the Rector of the Zagreb University for the best student scientific work. She specialized family dentistry. Her main areas of research and teaching are dental anthropology, craniofacial genetics, oral health, forensic dentistry and history of dentistry. She is a leader of the Project for oral health promotion in visually impaired persons, supported by the Zagreb City Healthcare Bureau. She was awarded at several international conferences: in 2005 and 2014 for poster presentations at 16th and 12th International Symposium on Dental Morphology and in 2006 she won the CED Travel Stipend by International Association for Dental Research (IADR) for her scientific work. In 2014 she was an Erasmus+ programme scholar at Karolinska Institutet, Stockholm, Sweden. She is a member of the Zagreb University Committee for the Rector Awards. At School of Dental Medicine University of Zagreb she is a member of the Ethical Committee and Committee for Postgraduate Specialist Studies. She is a reviewer for the scientific journals *Acta Stomatologica Croatica* and *European Journal of Orthodontics*. She is a member of the Croatian Association of Forensic Stomatologists and IOFOS, European and Croatian Society of Endodontology, IADR, International Association for Paleodontology (IAPO), Croatian Medical Association and Croatian Dental Chamber.

Prof. dr.sc. Srećko Gajović



Phone: +38514566948

E-mail: srecko.gajovic@hiim.hr

Biography: Zavod za histologiju i embriologiju, Sveučilište u Zagrebu Medicinski fakultet

Biography: <http://neurogenetika.hiim.hr>

Year of graduation: 1988

MSc thesis: 1990

PhD thesis: 1993

Courses

- [Biomorphological Methods in Dentistry Research](#)

Biography

Prof. Srećko Gajović is Professor of Histology and Embryology at University of Zagreb School of Medicine, and Head of the same Department. He is coordinator of FP7 project GlowBrain dedicated to unlock the research potential of Croatian Institute for Brain Research through stem cell and biomaterial applications in mouse stroke model. He is Editor-in-Chief of Croatian Medical Journal, best general medical scientific journal in this part of Europe, and ex-Chair of European COST Domain Committee for Biomedicine and Molecular Biosciences. He was born in Zagreb, Croatia, where he completed his studies of medicine and got a PhD at University of Zagreb. His postdoctoral positions were at Max Planck Institute for Biophysical Chemistry in Göttingen, Germany, and at Institute for Genetic Engineering and Biotechnology in Trieste, Italy. In his current work he tries to understand the role of innate immunity in brain repair after stroke, in particular in relation to neurogenesis and stem cell therapy.

Projects

2012-2015 GlowBrain (FP7-REGPOT-2012-CT2012-316120)

Publications

1. Kosi N, Alić I, Kolačević M, Vrsaljko N, Milošević NJ, Sobol M, Philimonenko A, Hozák P, Gajović S, Pochet R, Mitrečić D. Nop2 is expressed during proliferation of neural stem cells and in adult mouse and human brain. *Brain Res.* 2014 doi: 10.1016/j.brainres.2014.11.040. [Epub ahead of print]
2. Džombeta T, Kapuralin K, Ulamec M, Tomas D, Gajović S, Krušlin B. Immunohistochemical expression of STAM2 in gastrointestinal stromal tumors. *Anticancer Res.* 2014, 34(5):2291-6.
3. Svalastog AL, Allgaier J, Martinelli L, Gajovic S. Distortion, confusion, and impasses: could a public dialogue within Knowledge Landscapes contribute to better communication and understanding of innovative knowledge? *Croat Med J.* 2014;55:54-60.
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9. Gajović S. Regeneracija mozga: od neuroznanstvene nade do bioetičkog problema (in Croatian; engl. Brain regeneration: from neuroscience hope to bioethical issue). *JAHN* 2012;3:267-277.
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11. Kapuralin K, Van Ginneken C, Curlin M, Timmermans JP, Gajović S. Neurons and a subset of interstitial cells of Cajal in the enteric nervous system highly express Stam2 gene. *Anat Rec.* 2012 Jan;295(1):113-20.

12. Vrabec Branica B, Gajović S (2012) Lung Carcinoma Molecular Biomarkers. *Frontiers in Bioscience*, 4:865-75.
13. Mitrečić D, Nicaise C, Klimaschewski L, Gajović S, Bohl D, Pochet R. (2012) Genetically modified stem cells for the treatment of neurological diseases. *Frontiers in Bioscience*, 4:1170-81.
14. Mitrečić D, Nicaise C, Gajović S, Pochet R (2011) The Therapeutic Potential of Stem Cells in Amyotrophic Lateral Sclerosis. *Current Signal Transduction Therapy*, in press.
15. Mitrečić D, Nicaise C, Gajović S, Pochet R (2010) Distribution, differentiation and survival of intravenously administered neural stem cells in a rat model of amyotrophic lateral sclerosis. *Cell Transplantation*, 19, 537-548.
16. Žižić Mitrečić M, Mitrečić D, Pochet R, Kostović-Knežević L, Gajović S (2010) The mouse gene Noto is expressed in the tail bud and essential for its morphogenesis. *Cells Tissues Organs* 192, 85-92.
17. Vrabec Branica B, Smojver Ježek S, Juroš Z, Grgić S, Srpak N, Mitrečić D, Gajović S (2010) Detection of Human Papillomaviruses Type 16, 18 and 33 in Bronchial Aspirates of Lung Carcinoma Patients by Polymerase Chain Reaction: A Study of 84 Cases in Croatia. *Coll Anthropol*, 34, 159-162.
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Interests

CMJ (Croatian Medical Journal) 2011 to date Editor-in-Chief of Croatian Medical Journal (IF 2014 – 1.373)

CMS (Croatian Microscopy Society) 2005 - 2011 President of Croatian Microscopy Society; 2006 Chairman of the Organising Committee of 2nd Croatian Congress on Microscopy with International Participation, May 18-21, 2006, Topusko, Croatia

COST (European Cooperation in the field of Scientific and Technical Research) 2013 - 2014 Chair of COST Domain Committee “Biomedicine and Molecular Biosciences”; 2006-2013 Vice Chair of the same COST Domain

Hobby

Photography, recreative cycling and kayaking

prof. dr. sc. Nada Galić



Phone: 01/4802126

E-mail: ngalic@sfzg.hr

Biography: Zavod za endodonciju i restaurativnu stomatologiju

Year of graduation: 1988

MSc thesis: 1992

PhD thesis: 1997

Courses

- [Toxicity research on dental materials used for dental fillings and their influence on the human body and the environment](#)

Biography

Born in Požega (Croatia) on October 10, 1963. A professor and specialist in dental and oral pathology and periodontology, lectures on graduate and postgraduate courses in School of dental medicine University of Zagreb (head of 2 postgraduate courses). Mentors graduate and postgraduate thesis. An active participant on meetings of European Society of Endodontic as well as author and co-author of 50 scientific and clinical articles and congress abstracts.

Projects

“Experimental and clinical endodontics,” (065999).

Publications

Chapter in book:

PRPIĆ-MEHIČIĆ G, GALIĆ N. Dentalni amalgam. U: Jerolimov V, editor. Osnove stomatoloških materijala [monograph on the Internet]. Zagreb: Sveučilište u Zagrebu, Stomatološki fakultet; 2005 [cited 2006 Feb 1]. Available from: http://www.sfzg.hr/files/user/ipelivan/Osnove_stomatoloskih_materijala.pdf

CC and SCI articles:

1. GALIĆ N, PRPIĆ-MEHIČIĆ G, ANIĆ I, NAJŽAR-FLEGER D, BUNTAK-KOBLER D. The Influence of Electrical Potential within the Oral Cavity on the Incidence of Subjective Symptoms. Coll Antropol. 1996;20:83-6.
2. GALIĆ N, KATUNARIĆ M, CIGLAR I, STAUDT-ŠKALJAC G. The influence of dental amalgam on the blood count. Coll Antropol. 1998;22:57-62.
3. ŠEGOVIĆ S, BUNTAK-KOBLER D, GALIĆ N, KATUNARIĆ M. Trichomonas Tenax Proteolytic Activity. Coll Antropol. 1998;22:45-9.
4. ŠTEFANEC-PAPIĆ J, ALKADRI KZ, LEGOVIĆ M, GALIĆ N. Comparison of Dental Maturity Between Two Ethnic Groups. Coll Antropol. 1998;22:123-6.
5. GALIĆ N, PRPIĆ-MEHIČIĆ G, PRESTER LJ, BLANUŠA M, KRNIĆ Ž, FERENČIĆ Ž. Dental Amalgam Mercury Exposure in Rats. Biometals. 1999; 12(3):227-31.
6. CIGLAR-KNEŽEVIĆ I, KEROS-NAGLIĆ J, ŠTAUDT-ŠKALJAC G, JANKOVIĆ B, GALIĆ N. Alterations in Optic Canal Following Resection of Nerve in Rats. Coll Antropol. 1999;1:159-65.
7. GALIĆ N, PRPIĆ-MEHIČIĆ G, PRESTER LJ, KRNIĆ Ž, BLANUŠA M, ERCEG D. Elimination of mercury from amalgam in rats. J Trace Elem Med Biol. 2001;15:1-4.
8. ŠEGOVIĆ S, FERK S, ANIĆ I, JUKIĆ S, GALIĆ N, SISTIG S. Changes in dentin after insertion of self-threading titanium pins with 3 methods: A scanning electron microscope pilot study. J Prosth Dent. 2002;87:182-8.
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- HERMAN R. Evaluation of sporadic cases of odontogenic keratocysts in multicentric study. *Coll Antropol* 2002;26:177-82.
10. PRICA D, GALIĆ N, ŽELJEŽIĆ D, PRICA A. Genotoxicity evaluation of five different dentin bonding agents by chromosomal aberration analysis. *J Oral Rehabil*. 2006;33(6):462-71.
11. FILIPOVIĆ-ZORE I, DIVIĆ Z, DUSKI R, GNJATOVIĆ N, GALIĆ N, PREBEG D. [Impact of ozone on healing after alveolectomy of impacted lower third molars](#). *Saudi Med J*. 2011;32(6):642-4.
12. TADIN A, GALIC N, MLADINIC M, MAROVIC D, KOVACIC I, ZELJEZIC D. Genotoxicity in Gingival Cells of Patients Undergoing Tooth Restoration with Two Different Dental Composite Materials. *Clinical Oral Investigations*. 2013 Feb 5. [Epub ahead of print]
13. TADIN A, MAROVIC D, GALIC N, MILEVOJ A, MEDVEDEC MIKIC I, ZELJEZIC D. Genotoxic biomonitoring of flowable and non-flowable composite resins in peripheral blood leukocytes. *Acta Odontol Scand*. 2013;71(3-4):923-9.
14. ĆOSIĆ J, GALIĆ N, VODANOVIĆ M, NJEMIROVSKIJ V, ŠEGOVIĆ S, PAVELIĆ B, ANIĆ I. An *in vitro* Morphological Investigation of the Endodontic Spaces of Third Molars. *Coll Antropol*. 2013;37:437-42.
15. Marovic D, Tadin A, Mladinic M, Juric-Kacunic D, Galic N. In vitro detection of DNA damage in human leukocytes induced by combined effect of resin composites and adhesive systems. *Am J Dent*. 2014 Feb;27(1):35-41.
16. Prica D, Tadin A, Marović D, Katunarić M, Prica A, Galić N. Effects of dental adhesives on micronucleus frequency in peripheral blood lymphocytes *in vitro*. *Acta Clin Croat*. 2013 Sep;52(3):309-15.
17. Tadin A, Marovic D, Galic N, Kovacic I, Zeljezic D. Composite-induced toxicity in human gingival and pulp fibroblast cells. *Acta Odontol Scand*. 2014 May;72(4):304-11. doi: 10.3109/00016357.2013.824607.
18. BOGOVIĆ A, NIŽETIĆ J, GALIĆ N, ŽELJEŽIĆ D, MICEK V, MLADINIĆ M. [The Effects of Hyaluronic Acid, Calcium Hydroxide, and Dentin Adhesive on Rat Odontoblasts and Fibroblasts](#). *Arh Hig Rada Toksikol*. 2011;62(2):155-61.
19. TADIN A, GALIĆ N, ZELJEZIC D, MIKELIC VITASOVIC B, MAROVIC D, KOVACIC I. Ex vivo evaluation of genotoxic effects of four dental adhesives on human leukocytes. *Journal of Dental Sciences*. 2013;8:37-43.
20. Galić E, Tadin A, Galić N, Kašuba V, Mladinić M, Rozgaj R, Biočina-Lukenda D, Galić I, Želježić D. Micronucleus, alkaline, and human 8-oxoguanine glycosylase 1 modified comet assays evaluation of glass-ionomer cements – *in vitro*. *Arh Hig Rada Toksikol*. 2014;65:

Interests

Member of Croatia Dental Chamber, Croatian Endodontics Association, European Endodontics Association

Hobby

Reading

prof. dr. sc. Domagoj Glavina



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Biography: Zavod za dječju i preventivnu dentalnu medicinu

Year of graduation: 1989

MSc thesis: 1994

PhD thesis: 1999

Courses

- [Evaluation of dental materials in Pediatric Dentistry](#)

Biography

I. BIOGRAPHY

Prof. dr. sc. Domagoj Glavina was born on October 10th, 1964 in Zagreb, Croatia. Primary and high school he finished in Osijek, Croatia. In School of Dental Medicine, University of Zagreb he was enrolled in 1983. and graduated October 26, 1989. Starting of December 2, 1991. he works in the Department of Paediatric and Preventive Dentistry, School of Dental Medicine, University of Zagreb as Research fellow on the project No. 3-02-280 "Oral-facial anomalies and genetic disorders" leading by prof.dr.sc. Ilija Škrinjarić. In the frame of this project, he prepared Master thesis under title "Dental and dermatoglyphic findings in Ectodermal Dysplasia" and on October 14, 1994. gained academic degree of Master of Science.

Residency in Paediatric and Preventive Dentistry he finished on February 22, 1995. On February 13, he was elected Assistant research scientist in Department of Paediatric and Preventive Dentistry, School of Dental Medicine, University of Zagreb and Associate research scientist he became on April 16, 1999. From 1996. he works on research project No. 065-006 "Dental traumatism in children". He was active participant of numerous domestic and international scientific and professional conferences.

Under the main research project No. 065-006 "Dental traumatism in children" which was lead by Prof.dr.sc. Ilija Škrinjarić he run his own scientific project "Reconstruction of traumatized teeth with CEREC method". Both projects was funded by Ministry of science and technology of Republic of Croatia from 1998.

Academic degree of PhD of medical sciences he earned on February 4, 1999. defending the thesis "Analysis of marginal adaptation and surface of CEREC ceramic inlays and veneers".

For the academic year of 2001/2002 he obtained French Government postdoctoral fellowship and he spent this academic year working in Laboratory for dental materials of School of Dental medicine, Université Paris V Rene Descartes in Paris, France. During his stay in Paris his main research topic were restorative dental materials and sealants. After his return on November 28, 2002 he was elected Assistant Professor of Paediatric Dentistry in Department of Paediatric and Preventive Dentistry, School of Dental Medicine, University of Zagreb. Associate Professor of Paediatric Dentistry in Department of Paediatric and Preventive Dentistry, School of Dental Medicine, University of Zagreb he became on April 24, 2006. He was elected Full Professor of Paediatric Dentistry in Department of Paediatric and Preventive Dentistry, School of Dental Medicine, University of Zagreb on April 12, 2011. On May 19, 2016 he was appointed as Full Professor Tenure of Paediatric Dentistry in Department of Paediatric and Preventive Dentistry, School of Dental Medicine, University of Zagreb.

He is member of numerous domestic and international organizations: Croatian Medical association, member and secretary of Croatian Society of Paediatric Dentistry, Croatian Society for Dental Traumatology, International Association for Dental Research (IADR), European Academy of Paediatric Dentistry (EAPD) and Academy of Dental Materials (ADA). He speaks english and french language.

He is married and father of two children.

II. SCIENTIFIC ACTIVITY

Domagoj Glavina has published 45 scientific publications, two of them are for qualification (Master and PhD thesis) and 43 published in scientific journals. Fourteen publications of 43 are indexed in Current Contents and 28 in other indexed journals (Index to Dental Literature, Index Medicus i Excerpta Medica) and one was published in Book of Scientific Meeting. He was actively participated on numerous scientific meetings, 24 of them were international and 9 domestic.

In scientific journals and Books of Abstracts of scientific meetings he published 50 abstracts that were presented on international meetings, 30 in Current Contents indexed publications. He is also co-author of chapter "Dental materials in paediatric dentistry" published in the book of Prof. dr. sc. Vjekoslav Jerolimov and collaborators "Foundations of Dental Materials".

He served as reviewer for many international and domestic scientific journals: Journal of Dental Research, Caries Research, European Archives of Paediatric Dentistry, Archives of Oral Biology, Collegium

Antropologicum, Journal of Food and Nutritional Disorders, Microbial Ecology in Health and Disease, Oral Health and Dental Management and Acta Stomatologica Croatica.

In European Academy of Paediatric Dentistry (EAPD) he is currently member of Council of Academy and he also served in several committees: Scientific Committee, Nominations Committee.

III. TEACHING

Dr. Domagoj Glavina teach Paediatric Dentistry and Oral-Facial Genetics in School of Dental Medicine, University of Zagreb since 1995. Besides practical clinical work for the students he lectures Paediatric Dentistry, Oral-Facial Genetics, Dental Materials and Oral Hygiene. Under his mentorship two master thesis and two PhD thesis were prepared and defended. He also mentored 16 students graduate thesis. As a part of postgraduate education he teach several courses: Dental Materials in Paediatric Dentistry and in the PhD program Dental Materials in Paediatric Dentistry and Testing of Dental Materials in Paediatric Dentistry.

IV. PROFESSIONAL ACTIVITY

In frame of professional activity Domagoj Glavina shows particular interest for the genetic abnormalities of dental and orofacial structures as well as dental materials and dental traumatology in paediatric dentistry.

Projects

University of Zagreb Research Project BM1.54 "Dental trauma in children: etiology, treatment procedures and prevention"

Publications

Qualification publications:

Glavina D. Dental and dermatoglyphic findings in Ectodermal dysplasia. Master Thesis; Zagreb 1994.

Glavina D. Analysis of marginal adaptation and surface of CEREC ceramic inlays and veneers. PhD Thesis, Zagreb 1998.

Chapter in the book:

Glavina D, Škrinjarić I. Materials in paediatric dentistry. In: Jerolimov V.ed. Foundations of dental materials. Zagreb: Stomatološki fakultet; 2005. 220-246.

Krolo I, Glavina D. Anomalije zubi. U Krolo I, Zdravec D.ur. Dentalna radiologija. Zagreb: Medicinska naklada; 2016, 88-113.

Publications cited in Current Contents:

Glavina D, Majstorović M, Lulić-Dukić O, Jurić H. Hypohidrotic ectodermal dysplasia: Dental features and carriers detection. Coll Antropol 2001; 25: 303-310.

Lulić-Dukić O, Jurić H, Dukić W, Glavina D. Factors predisposing to early childhood caries (ECC) in children of pre-school age in the city of Zagreb, Croatia. Coll Antropol 25:297-302, 2001.

Majstorović M, Škrinjarić I, Glavina D, Szivoczka L. Factors predicting a child's dental fear. Coll Antropol 25: 493-500, 2001.

Škrinjarić I, Jukić J, Škrinjarić K, Glavina D, Legović M, Ulovec Z. Dental and minor physical anomalies in children with developmental disorders – a discriminant analysis. Coll Antropol 2003; 27(2): 769-778.

Škrinjarić I, Škrinjarić K, Negovetić-Vranić D, Majstorović M, Glavina D. Craniofacial anthropometric pattern profile in hypohidrotic ectodermal dysplasia. Coll Antropol 2003; 27(2): 753-759.

Škrinjarić T, Glavina D, Jukić J. Palatal and dental arch morphology in Down syndrome. Coll Antropol 2004; 28(2): 841-847.

Glavina D, Škrinjaric T. Labial talon cusp on maxillary central incisors: A rare developmental dental anomaly. *Coll. Antropol* 2005; 29 (1):227-231.

Glavina D, Negovetić Vranić D, Anić Milošević S, Bergman V, Majstorović M, Škrinjaric I. Soft – start polymerization of fissure sealant: retention after three years. *Coll. Antropol*. 2007; 31(4): 1089-1092.

Majstorović M, Škrinjaric T, Szivovicza L, Glavina D, Veerkamp JS. Dental anxiety in relation to emotional and behavioral problems in Croatian adolescents. *Coll Antropol* 2007; 31(2): 573-8.

Škrinjaric K, Negovetić Vranić D, Glavina D, Škrinjaric I. Heat-treated glass ionomer cement fissure sealants: retention after 1 year follow-up. *Int J Paediatr Dent* 2008; 18 (5): 368-373.

Mehulić K, Svetličić V, Šegota S, Vojvodić D, Kovačić I, Katanec D, Petričević N, Glavina D, Čelebić A. A study of the surface topography and roughness of glazed and unglazed feldspathic ceramics. *Coll Antropol* 2010; 34 (Suppl. 1): 235-238.

Glavina D, Goršeta K, Škrinjaric I, Negovetić Vranić D, Mehulić K, Kožul K. Effect of LGG yoghurt on *Streptococcus mutans* and *Lactobacillus* spp. salivary counts. *Coll. Antropol*. 2012; 36 (1): 129-132.

Goršeta K, Glavina D, Škrinjaric I. Influence of ultrasonic excitation and heat application on the microleakage of glass ionomer cements. *Aus Dent J* 2012; 57 (4): 453-457.

Goršeta K, Škrinjaric T, Glavina D. The Effect of Heating and Ultrasound on the Shear Bond Strength of Glass Ionomer Cement. *Coll Antropol* 2012;36 (49): 1307-1312.

Soldo M, Simeon P, Matijević J, Glavina D, Illeš D, Jukić Krmek S. Marginal leakage of class V cavities restored with silorane-based and methacrylate-based resin systems. *Dent Mat J* 2013; 32(5): 853-858

Zovko R, Glavina D, Mabić M, Cvitanović S, Šarac Z, Ivanković A. Prevalence of periodontal diseases in North Herzegovina. *Med Glas (Zenica)* 2014; 11(2): 385-90.

Vidović D, Goršeta K, Bursač D, Glavina D, Škrinjaric T. Taekwondo coaches knowledge about prevention and management of dental trauma. *Coll Antropol* 2014; 38(2): 681-684.

Gavić L, Goršeta K, Glavina D, Czarnecka B, Nicholson JW. Heat transfer properties and thermal cure of glass ionomer dental cements. *J Mater Sci: Mater Med* 2015; 26: 249. DOI 10.1007/s10856-015-5578-0

Gavić L, Goršeta K, Borzadi-Farahani A, Tadin A, Glavina D, Van Duinen RN, Lynch E. The effect of thermo-light-curing on the microhardness of glass ionomer cements. *Int J Periodontics Restorative Dent* 2015; doi:10.11607/prd.2405

Vidović D, Bursač D, Škrinjaric T, Glavina D, Goršeta K. Prevalence and prevention of dental injuries in young taekwondo athletes in Croatia. *Eur J Paediatr Dent* 2015; 16(2): 107-111.

Other Publications in extenso:

Škrinjaric I, Gašpar M, Bagić I, Glavina D. Morfološke varijacije trajnih molara u pacijenata s Downovim sindromom: analiza sraštanja korijena. *Acta Stomatol Croat* 1992;26:99-107.

Škrinjaric I, Bagić I, Glavina D, Gašpar M. Taurodontizam kod Downovog sindroma. *Acta Stomatol Croat* 1992; 26: 169-174.

Glavina D, Škrinjaric I. Rubna prilagodba Cerec 2 keramičkih ispuna nakon cementiranja. *Acta Stomatol Croat* 2000; 34(3): 259-266.

Glavina D, Škrinjaric I. Novi postupak za izradbu keramičkih ispuna: CAD/CIM sustav tehnologija 21. stoljeća. *Acta Stomat Croat* 2001; 35(1): 53-58.

Majstorović M, Glavina D, Škrinjaric I. Child's dental anxiety: the role of previous medical experience and social status. *Paediatr Croat* 2001; 45: 117-122

Lulić-Dukić O, Jurić H, Dukić W, Glavina D. Factors predisposing to early childhood caries in pre-school children from two kindergartens in Zagreb, Croatia. *Paediatr Croat* 2001; 45:129-132.

Glavina D, Škrinjaric I, Majstorović M, Lulić-Dukić O. Dermatoglifi u dijagnostici nositeljica gena za hipohidrotičnu ektodermalnu displaziju. *Paediatr Croat* 2001; 45: 133-136.

- Glavina D. Hitni postupci kod traume zubi. Zbornik radova liječenje, zdravstvena njega i rehabilitacija kirurških bolesnika, Zagreb 1997; 51-57.
- Glavina D, Majstorović M, Škrinjarić I, Negovetić-Vranić D. Taurodontizam kod ektodermalne displazije. *Paediatr Croat* 2002; 46: 7-10.
- Jurić H, Škrinjarić I, Glavina D. Vrijednosti Dentocult testova u djece nakon primjene raznih postupaka za kontrolu plaka. *Acta Stomatol Croat* 2002; 36:61-66.
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- Glavina D, Škrinjarić I, Negovetić-Vranić D. Suvremeni materijali i postupci za pečačenje fisura. *Medix* 2002; 8:121-122.
- Courson F, Glavina D, Aranda W, Degrange M. Quel matériau d'obturation pour le scellement des puits et fissures. *Expansion Scientifique Française, La Revue des Entretiens de Bichat* 2002;3(12): 7-12.
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Interests

He is member of numerous domestic and international organizations: Croatian Medical Association, member and secretary of Croatian Society of Paediatric Dentistry, Croatian Society for Dental Traumatology, International Association for Dental Research (IADR), European Academy of Paediatric Dentistry (EAPD), Academy of Dental Materials (ADA) and International Association for Dental Traumatology (IADT).

Hobby

Tennis, Skiing

izv. prof. dr. sc. Lovorka Grgurević



Courses

- [Molecular Biology of Mineralized Tissues](#)

izv. prof. dr. sc. Bernard Janković



Courses

- [Successful evaluation of preventive and minimally invasive procedures for the treatment of dental hard tissue](#)

doc. dr. sc. Andreja Jelinić Carek



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 Biography: A-3-12
 Year of graduation: 2002
 MSc thesis: 2005
 PhD thesis: 2009

Courses

- [Metals and alloys as biomaterials](#)

Biography

Andreja Carek enrolls School of Dental Medicine University of Zagreb. Academic year 1999/2000. she achieved Rector's Award for scientific work: "Alveolar ridge in toothed and toothless upper jaw".

She graduated 2002. at University of Zagreb School of dental medicine (Average grade: 4,7) and 2002/2003 she enrolls postgraduate study of Dentistry.

Since 2003. she is employed as young scientist at Department of Prosthodontics School of Dental Medicine were she 2004. begins specialization.

2005. she has her Master's degree on the subject:

"Analysis of base alloys solder joints made by different technologies " mentored by prof. dr. sc. Jasenke Živko-Babić. Average grade: 5.0.

2007. becomes specialist in prosthetics.

2009. she achieved PhD diploma and subject of her PhD dissertation was "Investigation of relationships between properties and structural irregularities of Co-Cr alloys joints" mentored by prof. dr. sc. Jasenka Živko-Babić and prof.dr. sc. Zdravko Schauperl. Average grade: 5.0.

She attended a postgraduate course I category "Medical education." The course was organized by the Croatian Society for Medical Education and Department of teaching technology Faculty of Medicine, University of Zagreb (2009).

In the year 2012 she achieved vocation of Assistant Professor at the Department of Prosthodontics.

2015- up to date: Main teacher in a courses: "Metals and alloys as biomaterials", "Fixed prosthetic planning therapy and diagnostic approach in the esthetic zone".

2004- up to date: Associate at course "Pre-clinical and Laboratory Fixed Prosthodontics"

2004- up to date: Associate at course Fixed Prosthodontics I and Fixed Prosthodontics II

2012- up to date: Lectures on courses: Dental Materials, Pre-clinical and Laboratory Fixed Prosthodontics, Fixed Prosthodontics I and Fixed Prosthodontics II, Dental Microscope.

2007- up to date: Associate at Professional Development courses for Doctors of Dental Medicine in organization of School of Dental Medicine University of Zagreb and Croatian Dental Chamber.

Andreja Carek is active collaborator in several projects and leader of one of them. Research assistant in grant of Republic of Croatia Ministry of Science, Education and Sport, titled „Investigation of therapeutic effect of prosthetics reconstructive materials"

(065-0650448-0439).

Investigator of project on University research support 2013.-2014. "Aesthetic analysis of hard and soft tissue of frontal teeth in Croatian adolescence".

Head of project on University research support 2014.-2015. "Aesthetic analysis of hard and soft tissue of frontal teeth in Croatian adolescence II part".

Head of project on University research support 2015.-2016. "Aesthetic analysis of intraoral and extraoral photos in Croatian adolescence".

Erasmus+ Staff mobility for training 2016. University of Ss.Cyiril and Methodius, Skopje, Macedonia.

She published scientific papers in domestic and international journals and participates in eminent dental sciences conferences.

Projects

Andreja Carek is active collaborator in several projects and leader of one of them. Research assistant in grant of Republic of Croatia Ministry of Science, Education and Sport, titled „Investigation of therapeutic effect of prosthetics reconstructive materials”

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32. Carek, Andreja; Živko-Babić, Jasenka; Schauperl, Zdravko; Komar, Dragutin; Jakovac, Marko.
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34. Živko-Babić, Jasenka; Tomljenović, Ana Marija; Komar, Dragutin; Jakovac, Marko; Carek, Andreja.
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Poznan : Zakład wydawniczo-Poligraficzny, 2005. 115.
38. Carek A, Babic I, Lovric Z, Ivancic JN, NegoveticVranic D. Finding of Third Lower Molar in Prosthetic Croatian Patients. Ann. Int. Med. Den. Res. 2016;2(1):71-7.
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40. Slokar, Ljerka; Pranjić, Josip; Jelinić Carek, Andreja.
Metallic Materials for Use in Dentistry. // The Holistic Approach to Environment. (2017)

Interests

1. European Prosthodontic Association (EPA)
2. Croatian Dental Chamber
3. Croatian Dental Association
4. International Association of Prosthodontic (ICP)
5. International Association of Dental Research (IADR)
6. Croatian Medical Chamber
7. Croatian Prosthodontic Association (HPD)
8. Croatian Association for dental implantologie (HDDI)
9. Croatian Society of Materials and Tribology

Aesthetics
Restorative Dentistry
Cosmetic Dentistry
Healthcare
Healthcare Management

Hobby

dance, golf, tennis, horse riding, cycling, movies, reading books, listening to music, traveling, new technology...

prof. dr. sc. Hrvoje Jurić



Courses

- [Clinical and experimental endodontics in primary and permanent teeth](#)

doc. dr. sc. Dalibor Karlović



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Year of graduation: 1998

MSc thesis: 2002

PhD thesis: 2004

Courses

- [Scientific research in psychostomatology](#)

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Phone: 4802201
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 Biography: 201
 Year of graduation: 1996
 MSc thesis: 2000
 PhD thesis: 2002

Courses

- [Endodontic surgery: contemporary approach, methods and materials](#)

Biography

Zoran Karlović was born in 1968 in Zadar, where he finished elementary and high school.

He enrolled School of Dental Medicine University of Zagreb in the school year 1988/89.

In 1991/92 he was an active participant of the Croatian War of Independence.

He graduated in 1996.

He post graduated in 2000.

He got his doctor's degree in 2002.

In 2004 he passed his specialist exam from Dental pathology and endodontology.

He has been employed as an Associate Professor at Department for endodontology and restorative Dentistry of the School of Dental Medicine in Zagreb and on the Clinic for face, jaw and mouth surgery of Clinical Hospital Dubrava.

He is an author of several scientific and specialized papers published in domestic and foreign magazines.

Since 2007-2009 he has been an assistant in the project No. [065-0650444-0418](#) "Clinical and experimental endodontology".

Since 2010 he has been as an assistant in the project No. [065-0000000-0424](#) "Healing of bone defect after immediate implantation".

He is a head of the course "Endodontic surgery. Contemporary approach, methods and materials" for the postgraduate doctor's studies.

Projects

Project no: [065-0000000-0424](#) Healing of bone defect after immediate implantation

Publications

Book chapters

1. Verzak, Željko; Modrić, Vesna-Erika; Karlović, Zoran.
Sportske dentalne ozljede: pojavnost i prevencija // Sportska traumatologija / Elabjer, Esmat (ur.).
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1. Pezelj-Ribarić, Sonja; Magašić, Karolina; Prpić, Jelena; Miletić, Ivana; Karlović, Zoran. Tumor Necrosis Factor-Alpha in Periapical Tissue Exudates of Teeth with Apical Periodontitis. // *Mediators of Inflammation*. 2007 (2007), 69416; 1-4. [priložen text rada]
2. Grgurević, Joško; Grgurević, Lovro; Miletić, Ivana; Karlović, Zoran; Krmek Jukić, Silvana; Anić, Ivica. In vitro study of the variable square pulse Er:YAG laser cutting efficacy for apicectomy. // *Lasers in surgery and medicine*. 36 (2005), 5; 347-350.
3. Karlović, Zoran; Pezelj-Ribarić, Sonja; Miletić, Ivana; Jukić, Silvana; Grgurević, Joško; Anić, Ivica. Erbium:YAG laser versus ultrasonic in preparation of root-end cavities. // *Journal of endodontics*. 31 (2005), 11; 821-823.
4. Miletić, Ivana; Devčić, Nevena; Anić, Ivica; Borčić, Josipa; Karlović, Zoran; Osmak, Maja. The cytotoxicity of RoekoSeal and AH Plus compared during different setting periods. // *Journal of endodontics*. 31 (2005), 4; 307-309.
5. Vidučić, Darija; Jukić, Silvana; Karlović, Zoran; Božić, Želimir; Miletić, Ivana; Anić, Ivica. Removal of the gutta-percha using a Nd:YAG laser. // *International Endodontic Journal*. 36 (2003), 10; 670-673. [URL link to work] [URL link to work]
6. Miletić, Ivana; Pezelj-Ribarić, Sonja; Karlović, Zoran; Jukić, Silvana; Bošnjak, Andrija; Anić, Ivica. Apical leakage of five root canal sealers after one year of storage. // *Journal of Endodontics*. 28 (2002), 6; 431-432.
7. Miletić, Ivana; Prpić-Mehičić, Goranka; Maršan, Teuta; Tambić Andrašević, Arjana; Pleško, Sanja; Karlović, Zoran; Anić, Ivica. Bacterial and fungal microleakage of AH26 and AH Plus root canal sealers. // *International Endodontic Journal*. 35 (2002), 5; 428-432.
8. Pezelj-Ribarić, Sonja; Brekalo, Ivana; Abram, Maja; Dorčić, Miljenko; Miletić, Ivana; Karlović, Zoran. Influence of calcium hydroxide root-canal sealer on microbial growth in vitro. // *Folia microbiologica*. 47 (2002), 4; 458-460. [URL link to work] [URL link to work]
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15. Miletić, Ivana; Anić, Ivica; Azinović, Zoran; Maršan Teuta; Karlović, Zoran.
Brtvljenje materijala za retrogradno punjenje korijenskih kanala. // Acta Stomatologica Croatica. 32 (1998) , 2; 295-299.

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1. Škaričić, Josip; Matijević, Jurica; Karlović, Zoran; Medvedec, Ivana.
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1. Borčić, Josipa; Anić, Ivica; Smojver, Ivica; Miletić, Ivana; Muhvić Urek Miranda; Karlović, Zoran.
Influence of occlusal contacts on stress distribution in two-rooted teeth restored with aesthetic endodontic posts // Research abstracts / Dummer, P.M.H (ur.).
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1. Baltić, Nenad; Simeon, Paris Matijević, Jurica; Repić, Dario; Karlović, Zoran; Jukić Krmek, Silvana.
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8. Karlović, Zoran; Miletić, Ivana; Maršan, Teuta; Anić, Ivica.
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Zagreb : Hrvatsko endodontsko društvo, 1999. 27.
9. Maršan, Teuta; Prpić-Mehičić, Goranka; Šoštarić, Branimir; Miletić, Ivana; Karlović, Zoran; Mutić, V.
Pulpal response to direct pulp capping with bioresorbable collagen membrane // Book of abstracts of the biennial congress of the European Society of Endodontics / Anić, Ivica (ur.).
Zagreb : Hrvatsko endodontsko društvo, 1999. 12-12.
10. Miletić, Ivana; Pezelj Ribarić, Sonja; Maršan, Teuta; Anić, Ivica; Karlović, Zoran; Prpić-Mehičić, Goranka.
Sealing ability of five commercial root canal sealers // The book of abstracts of 9th biennial congress of ESE in Zagreb / Anić, Ivica (ur.).
Zagreb : Hrvatsko endodontsko društvo, 1999. 15-16.
11. Karlović, Zoran; Anić, Ivica; Miletić, Ivana; Maršan, Teuta; Jukić, Silvana.
Endodontsko liječenje 46 s četiri korijenska kanala: prikaz slučaja // Acta Stomatologica Croatica / Knežević, Goran (ur.).
Zagreb : Hrvatsko stomatološko društvo ; Stomatološki fakultet Sveučilišta, 1998.
12. Miletić, Ivana; Anić, Ivica; Pezelj Ribarić, Sonja; Karlović, Zoran; Maršan, Teuta; Jukić, Silvana.
Kakvoća brtvljenja komercijalnih pripravaka za punjenje korijenskih kanala // Acta Stomatologica Croatica / Knežević, Goran (ur.).
Zagreb : Hrvatsko stomatološko društvo ; Stomatološki fakultet Sveučilišta, 1998.
13. Karlović, Zoran; Anić, Ivica; Maršan, Teuta; Miletić, Ivana.
Revizija endodontskog punjenja kloroformom i eukaliptiolom // Acta Stomatologica Croatica (Suppl) / Knežević, Goran (ur.).
Stomatološki fakultet ; Hrvatsko stomatološko društvo ; Stomatološ, 1997. 325-325.
14. Miletić, Ivana; Anić, Ivica; Maršan, Teuta; Karlović, Zoran.
Kakvoća brtvljenja građe za retrogradno punjenje korijenskih kanala // Acta Stomatologica Croatica / Knežević, Goran (ur.).
Zagreb : Stomatološki fakultet ; Hrvatsko stomatološko društvo ; Stomatološ, 1997. 332-332.

Disertation

1. Karlović, Zoran.
Usporedba Er:YAG lasera s ultrazvukom pri izradbi retrogradnih kaviteta / doktorska disertacija.
Zagreb : Stomatološki fakultet, 02.04 2002, 144 str. Voditelj: Anić, Ivica.

Master thesis

1. Karlović, Zoran.
Usporedba učinkovitosti otapala gutaperke pri reviziji endodontskog punjenja / magistarski rad.
Zagreb : Stomatološki fakultet, 19.06. 2000, 74 str. Voditelj: Anić, Ivica.

Interests

He is a member of:

Croatian Medical Assembly

Croatian Endodontic Society

Croatian Society for Dental Implantology

Croatian Society for maxiofacial, plastic and reconstructive head and neck surgery

Croatian Chamber of Dental Medicine

European Endodontic Society

prof. dr. sc. Davor Katanec



Courses

- [Recent techniques in dental implantology](#)

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Phone: 4802-126, 4802-158

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Biography: Stomatološki fakultet, Gundulićeva 5, 2.kat

Year of graduation: 1978

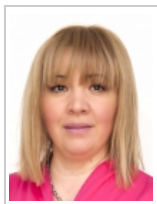
MSc thesis: 1983

PhD thesis: 1988

Courses

- [Release ions mineral from hard tissue teeth influence egzogenic and endogenic factors](#)

prof. dr. sc. Dubravka Knezović-Zlatarić



Phone: 4802125
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 Biography: Zavod za mobilnu protetiku
 Year of graduation: 1995
 MSc thesis: 2000
 PhD thesis: 2001

Courses

- [Importance of dental color assessment in various dental treatments](#)

Biography

Dr Dubravka Knezović Zlatarić is currently professor in School of Dental Medicine, University of Zagreb (Croatia), Department of Removable Prosthodontics. As a student she was rewarded twice for her student's scientific papers, received University and CEEPUS scholarships. She received degree in dentistry in 1995, obtained M.S.D. in 2000, Ph.D. in 2001 and specialized in prosthodontics in 2004, she gained "Dentsply Shield Award" for the best presented scientific study and "Rowland Fereday Award" for the young investigators in the fields of prosthodontics as well as best poster presentation award at the European Prosthodontic Association Conferences. In 2004, she was the winner of the Croatian scientific award for the young investigators in the fields of biomedicine. In 2007, she was the winner of the second place for outstanding poster presentation at the meeting of the International College of Prosthodontists in Fukuoka, Japan.

In 2010, she became course lead of newly developed course "Basics of esthetic dentistry" and published university book for that purpose. In 2011 and 2014, she became the principle investigator of scientific projects financed by Ministry of science and University of Zagreb and in 2015 of scientific projects financed by University of Zagreb. Dr Dubravka Knezović Zlatarić is currently professor in School of Dental Medicine, University of Zagreb (Croatia), Department of Removable Prosthodontics. As a student she was rewarded twice for her student's scientific papers, received University and CEEPUS scholarships. She received degree in dentistry in 1995, obtained M.S.D. in 2000, Ph.D. in 2001 and specialized in prosthodontics in 2004, she gained "Dentsply Shield Award" for the best presented scientific study and "Rowland Fereday Award" for the young investigators in the fields of prosthodontics as well as best poster presentation award at the European Prosthodontic Association Conferences. In 2004, she was the winner of the Croatian scientific award for the young investigators in the fields of biomedicine. In 2007, she was the winner of the second place for outstanding poster presentation at the meeting of the International College of Prosthodontists in Fukuoka, Japan.

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In 2010, she became course lead of newly developed course "Basics of esthetic dentistry" and published university book for that purpose. In 2011 and 2014, she became the principle investigator of scientific projects financed by Ministry of science and University of Zagreb and in 2015 of scientific projects financed by University of Zagreb. Dr Dubravka Knezović Zlatarić is currently professor in School of Dental Medicine, University of Zagreb (Croatia), Department of Removable Prosthodontics. As a student she was rewarded twice for her student's scientific papers, received University and CEEPUS scholarships. She received degree in dentistry in 1995, obtained M.S.D. in 2000, Ph.D. in 2001 and specialized in prosthodontics in 2004, she gained "Dentsply Shield Award" for the best presented scientific study and "Rowland Fereday Award" for the young investigators in the fields of prosthodontics as well as best poster presentation award at the European Prosthodontic Association Conferences. In 2004, she was the winner of the Croatian scientific

award for the young investigators in the fields of biomedicine. In 2007, she was the winner of the second place for outstanding poster presentation at the meeting of the International College of Prosthodontists in Fukuoka, Japan.

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Projects

Colour assessment of natural teeth following different bleaching procedures in patients with and without discromatopsy.

izv. prof. dr. sc. Sonja Kraljević-Šimunković



Phone: 014802125

E-mail: kraljevic@sfzg.hr

Biography: Zavod za mobilnu protetiku

Year of graduation: 1994

MSc thesis: 1998

PhD thesis: 2002

Courses

- [Clinical and instrumental analysis of stomatognathic system](#)

prof. dr. sc. Silvana Krmek



Phone: 4802158
 E-mail: jukic@sfzg.hr
 Biography: 158
 Year of graduation: 1994
 MSc thesis: 1997
 PhD thesis: 2001

Courses

- [Immunohistochemical and molecular analysis of inflammation of the pulp and the periapical tissue](#)

Biography

Silvana Jukic Krmek Full Professor at the Department of Endodontics and Restorative Dental Medicine, University of Zagreb. She is the author and co-author of 56 scientific papers, review papers and articles in extenso, of which 29 cited in Current Contents and other internationally recognized indices. She actively participated in numerous international and national conferences.

The scientific work of Prof. Silvana Jukic Krmek generally relates to the field of endodontics and application of lasers in dentistry. She has participated in research immunohistochemical characteristics of healthy and of the inflamed pulp, the material properties of root canal filling, the effectiveness of solvents and lasers to remove the root canal fillings, research on the application of laser and ultrasound to produce the retrograde cavity, temperature rise during operation of the laser and epidemiological studies, the incidence and quality endodontic treatment and prevalence of periapical processes in the urban population Croatian. She is senior researcher of the scientific project Ministry of Science "Epidemiological aspects of endodontics in the Republic of Croatia".

Projects

207-2014 Senior researcher of

Publications

Baraba A, Miletic I, Jukic Krmek S, Perhavec T, Bozic Z, Anic I. Ablative potential of the erbium-doped yttrium aluminium garnet laser and conventional handpieces: a comparative study. *Photomed Las Surg* 2009; 27: 921-7. Q2

Krmek Jukic S, Bogdan I, Simeon P, Prpic Mehicic G, Katanec D, Anic I. A Three-Dimensional Evaluation of Microleakage of the Class V Cavities Prepared by the Very Short Pulse Mode of the Er:YAG Laser. *Lasers in Med Sci* 2010; 25:823-8. Q2

Malcic Ivanišević A, Vodanovic M, Matijevic J, Mihelic D, Prpic Mehicic S, Jukic Krmek S. Caries prevalence and periodontal status in 18th century population of Požega-Croatia. *Arch Oral Biol* 2011; 56(12): 1592-603. Q2

Matijevic J, Cizmekovic Dadić T, Prpic Mehicic G, Anic I, Šljaj M, Jukic Krmek S. Prevalence of apical periodontitis and quality of root canal fillings in population of Zagreb, Croatia, a cross sectional study. *Croat Med J* 2011; 52(6): 679-87. Q2

Soldo M, Matijevic J, Simeon P, Glavina D, Illes D, Jukic Krmek S. Marginal leakage of class V cavities restored with silorane-based and methacrylate-based resin systems. *Dent Mat J*. 2013; 32(5): 1-6. Q4

Malcic Ivanišević A, L Breen, Djuro Josic, Jukic Krmek S, Tihana Džombeta, Jurica Matijevic, Lovro Grgurevic, Krešimir Pavelic, Božo Krušlin, Sandra Kraljevic Pavelic. Proteomics profiling of keratocystic odontogenic tumours reveals AIDA as novel biomarker candidate. *J Oral Path Med* 2014;

Interests

Croatian endodontic society

European endodontic society – certified member
Croatian Dental Chamber
IaDR

Hobby

Gardening

prof. dr. sc. Marina Lapter Varga



Phone: 014802164
 E-mail: lapter@sfzg.hr
 Year of graduation: 1992
 PhD thesis: 1996

Courses

- [Conventional and digital cephalometry in orthodontics](#)

Biography

Marina Lapter Varga was born on 9 February 1969th in Zagreb, where she attended elementary and high school. She started School of Dental Medicine in 1987 and graduated in 1992. Internship at the dental clinic in Zagreb. She passed professional examination for doctor of dental medicine in 1994. From 01.06. 1994. she worked at the Department of Orthodontics, School of Dental Medicine as a research assistant, a senior assistant became 1996th year. In the academic title of assistant professor in 1999, associate professor 2003rd year, while Professor becomes 2009th year. Specialist exam in orthodontics passed the 1999th year. Participates in the implementation of the curriculum: Orthodontics - Integrated undergraduate and graduate university study; Dental photography: Chair. Functional aspects of orthodontic treatment - Graduate Degree in Dental Medicine. Conventional and digital roentgencephalometry in orthodontics - Postgraduate studies in dental medicine. Under her mentorship defended eighteen graduate theses, eight master's theses, dissertation, three, and one postgraduate specialist work. She is the author and co-author of over 60 scientific articles, reviews and papers of which 20 are quoted in CC. She has actively participated in several national and international scientific meetings. She is a member of European Orthodontic Society, World Federation of Orthodontists, and the Croatian Orthodontic Society. Currently participating in the project no. 065-0650444-0436: "New diagnostic methods in orthodontics and biocompatibility of orthodontic appliances", funded by the Ministry of Science. She was the leader of the project: "Investigation of new technologies in orthodontics-periodontal, microbiological and qualitative assessment" funded by Adris Foundation. She participate in the program specialization in orthodontics, as mentor residents.

Publications

Anić Milošević S, Varga S, Meštrović S, **Lapter Varga M**, Šljaj M. Dental and occlusal features in patients with palatally displaced maxillary canines. *Eur J Orthod.* 2009; 31(4):367-373.

Mady Maričić B, Legović M, Šljaj M, **Lapter Varga M**, Žuvić Butorac M, Kapović M. Presence of third molar germs in orthodontic patients with class II/2 malocclusions. *Coll Anthropol.* 2009; 33(4):1171-1175.

Anić Milošević S, Meštrović S, **Lapter Varga M**, Dumančić J, Šljaj M. Analysis of the soft tissue profile in Croatians with normal occlusions and well balanced faces. *Eur J Orthod.* 2010; 33(3):305-310.

Čala L, Špalj S, Šljaj M, **Lapter Varga M**, Šljaj M. Facial profile preferences: Differences in the perception of children with and without orthodontic history. *Am J Orthod Dentofac Orthop.* 2010; 138 (4): 442-450.

Dumančić J, Kaić Z, **Lapter Varga M**, Lauc T, Dumić M, Anić Milošević S, Brkić H. Characteristics of the craniofacial complex in Turner syndrome. *Arch Oral Biol.* 2010; 55(1): 81-88.

Legović M, Sasso A, Legović I, Brumini G, Čabov T, Šljaj M, Vančura I, **Lapter Varga M**. The reliability of chronological age determination by means of mandibular third molar development in subjects in Croatia. *J Forensic Sci.* 2010; (55)1:14-18.

Varga S, Špalj S, **Lapter Varga M**, Anić Milošević S, Meštrović S, Šljaj M. Maximum voluntary bite force in subjects with normal occlusion. *Eur J Orthod.* 2011; 33(4):427-433.

Legović A, Mady Maričić B, Škrinjarić A, Žuvić Butorac M, Meštrović S, **Lapter Varga M**. Importance of interincisal index for predicting mesiodistal crown diameters of canines and premolars. Coll Antropol. 2012; 36(4):1287-1291.

Pejda S, **Lapter Varga M**, Anic Milosevic S, Mestrovic S, Slaj M, Repic D, Bosnjak A. Clinical and microbiological parameters in patients with self-ligating and conventional brackets during early phase of orthodontic treatment. Angle Orthod. 2013;1:133-139.

Interests

She is the member of Croatian Orthodontic Society, European Orthodontic Society, and World federation of orthodontists

prof. dr. sc. Neven Ljubičić



Phone: 00385-1-3768286
E-mail: neven.ljubicic@kbcsm.hr
Year of graduation: 1987.
PhD thesis: 1993.

Courses

- [Correlations and connections between the diseases of mouth and teeth and cardiovascular and gastrointestinal diseases](#)

Projects

TREATMENT OF OBESITY WITH INTRAGASTRIC BALLOON

prof. dr. sc. Jasna Lovrić



Phone: 01 4566 941
E-mail: jlovric@mef.hr
Year of graduation: 1982.
MSc thesis: 1987.
PhD thesis: 1995.

Courses

- [Oxidative stress](#)

prof. dr. sc. Martina Majstorović



Courses

- [Evaluation of the application of inhalation sedation in dentistry](#)

prof. dr. sc. Tonči Matulić



Courses

- [Ethics in Biomedical Research](#)

prof. dr. sc. Ketij Mehulić



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 Biography: soba 112
 Biography: <http://www.sfzg.unizg.hr/kmo16>
 Year of graduation: 1988
 MSc thesis: 1992
 PhD thesis: 1996

Courses

- [Ceramics in Prosthodontics](#)

Biography

Prof. Ketij Mehulic was born in 1963 in Split. She graduated from the School of Dental Medicine, University of Zagreb in 1988. She was awarded the Rector's Award. She has been working in the Department of Prosthodontics, School of Dentistry, University of Zagreb first as a research assistant (1989), then assistant (1993), assistant professor (1999), associate professor (2004), and today she is professor (2010). She received her Master's degree in 1992, and her PhD in 1996. She finished her specialization in prosthodontics in 1997. She became Senior Physician specialist in prosthodontics in 2007.

She was project leader of the research grant approved by the Ministry of Science, Education and Sport (2007- 2013), leader of the international project approved by the Ministry of Science, Education and Sports (2010 -2012), and leader of the university grant approved by the University of Zagreb in 2014.

She participates in undergraduate teaching and lecturing at several courses. She leads courses in undergraduate and postgraduate studies at the school of Dental Medicine, University of Zagreb. She participates in continuous education of dentists. She mentored several graduate, master's and doctoral theses. She is the author of the text book "Ceramic materials in prosthodontics", co-author of the textbook "Materials in dentistry" (online) and co-author of several scientific and professional papers.

She is married and the mother of two children.

Projects

From 2004 to 2006, associate in project „Investigation of restorative materials and biological substructures of fixed prostheses“ (no. 065015), approved by the Croatian Ministry of Science, Education and Sports, under the leadership of Professor Adnan Catovic.

Leader of scientific project "Investigation of ceramic materials and allergies in prosthodontics" (No. 065-0650446-0435), approved by the Croatian Ministry of Science, Education and Sports 2007 - 2014. The project was part of the program "Oral health and pathological conditions: a multidisciplinary and multiregional approach", leader Prof. Asja Čelebić.

Leader of the international project "Evaluating the effectiveness of therapies and ceramic materials in prosthodontic patients" approved by the Croatian Ministry of Science, Education and Sports 2010 - 2012.

Leader of the University support "Testing of new ceramic materials and manufacturing technologies in prosthetic dentistry" in 2014, approved by the University of Zagreb.

Associate of the University support "Research of modern dental prosthetic procedures, materials and quality of life associated with oral health and a variety of prosthetic rehabilitation", under the leadership of Prof. Asja Čelebić in 2014.

Publications

BOOKS

1. Mehulić Ketij. Keramički materijali u stomatološkoj protetici. Zagreb: Školska knjiga d.d, 2010.
2. Mehulić Ketij. Keramički sustavi u fiksnoj protetici. U Jerolimov V. Osnove stomatoloških materijala [monograph on the Internet]. Zagreb: Sveučilište u Zagrebu, Stomatološki fakultet;2005;102-12. [cited 2005 Jun 20]. Available from: [http://bib.sfzg.hr/files/user/ipelivan/Osnove stomatoloskih materijala.pdf](http://bib.sfzg.hr/files/user/ipelivan/Osnove_stomatoloskih_materijala.pdf).

3. Mehulić Ketij. Inlay mostovi. U Čatović Adnan. Klinička fiksna protetika ispitno štivo. Zagreb: Somatološki fakultet Sveučilišta u Zagrebu, 1999. p.276-7.
4. Mehulić Ketij. Privjesni mostovi. U Čatović A. Klinička fiksna protetika ispitno štivo. Zagreb: Somatološki fakultet Sveučilišta u Zagrebu, 1999. p.278-9.

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1. Bergman Gašparić L, Schauerl Z, Mehulić K. Shear bond strength in Zirconia veneered ceramics using two different surface treatments prior veneering. *Coll Antropol.* 2013;37(1):121-5.
2. Kranjčić J, Žabarović D, Čelebić A, Mehulić K, Komar D, Vojvodić D. Prosthetic Modalities Used to Treat Cleft Palate Patients in a University Clinic: A 10-Year Review. *Coll Antropol.* 2013;37(2):423-9.
3. Milardović Ortolan S, Peršić S, Čelebić A, Mehulić K. Comparison of time consumption and color matching results of different dental occupational groups. *Internat J Prosthodont.* 2013;26(5):478-86.
4. Renner-Sitar K, Čelebić A, Mehulić K, Petričević N. Factors Related to Oral Health Related Quality of Life in TMD Patients. *Coll Antropol.* 2013;37(2):407-13.
5. Glavina D, Goršeta K, Škrinjaric I, Negovetić-Vranić D, Mehulić K, Kožul K. Effect of LGG yoghurt on Streptococcus mutans and Lactobacillus spp. salivary counts in children. *Coll Antropol.* 2012;36(1):129-32.
6. Kranjčić J, Vojvodić D, Žabarović D, Vodanović M, Komar D, Mehulić K. Differences in articular-eminence inclination between medieval and contemporary human populations. *Arch oral biology.* 2012;57(8):1147-52.
7. Milardović S, Viskić J, Štefančić S, Renner Sitar K, Vojvodić D, Mehulić K. Oral Hygiene and Gingival Health in Patients with Fixed Prosthodontic Appliances – A 12-Month Follow-up. *Coll Antropol.* 2012;36(1):213-2
8. Vojvodić D, Čelebić A, Mehulić K, Žabarović D. Prosthetic Rehabilitation of a Patient with Mandibular Resection Prosthesis Using Mini Dental Implants (MDIs) : Case Report. *Coll Antropol.* 2012;36(1):307-11.
9. Viskić J, Milardović S, Katanec D, Vojvodić D, Mehulić K. Immediate implantation in infected tooth sockets. *Coll Antropol.* 2011;35(1):217-21
10. Mehulić M, Mehulić K, Maloča Vuljanko I, Kukulj S, Popović Grle S, Dugac Vukić A, Barišić B, Plavec D. Changing Pattern of Sensitization in Croatia to Aeroallergens in Adult Population Referring to Allergy Clinic during a Period of 15 Years. *Coll Antropol.* 2011;35(2):529-36.
11. Peršić S, Milardović S, Mehulić K, Čelebić A. Psychometric Properties of the Croatian Version of the Orofacial Esthetic Scale and Suggestions for Modification. *Internat J Prosthodont.* 2011;24(6):523-33.
12. Kovačić I, Čelebić A, Knezović Zlatarić D, Petričević N, Buković D, Bitanga P, Mikelić B, Tadin A, Mehulić K. Decreasing of Residual Alveolar Ridge Height in Complete Denture Wearers. A Five Year Follow up Study. *Coll Antropol.* 2010;34(3):1051-6.
13. Mehulić K, Svetličić V, Šegota S, Vojvodić D, Kovačić I, Katanec D, Petričević N, Glavina D, Čelebić A. A study of the surface topography and roughness of glazed and unglazed feldspathic ceramics. *Coll Antropol.* 2010;34(S1):235-8.
14. Mehulić K, Kevilj Gospić R, Dundjer A, Škrinjaric T, Štefančić S, Vojvodić D, Perinić M. Optoelectronic Pantography Diagnostics of Temporomandibular Disorders in Patients with Bruxism. *Coll Antropol.* 2009;(33)3:849-56.
15. Čelebić A, Valentić-Peruzović M, Alajbeg Žilić I, Mehulić K, Knezović-Zlatarić D. Jaw elevator silent periods in complete denture wearers and dentate individuals. *J Electromyog Kinesiol.* 2008;18:947-54.
16. Vojvodić D, Matejiček F, Schauerl Z, Mehulić K, Bačić-Čuković I, Šegović S. Flexural Strength of E - glass Fiber Reinforced Dental Polymer and Dental High Impact Strength Resin. *Strojarstvo.* 2008;(59)4:221-30.
17. Vojvodić D, Matejiček F, Lončar A, Žabarović D, Komar D, Mehulić K. Comparison of Flexural Strength between Fiber-Reinforced Polymer and High-Impact Strength Resin. *Milit Med.* 2008;173:1023-30.
18. Mehulić K, Schauerl Z, Lauš-Šošić M. Effect of Metal Surface Treatment on Bond Strength of Metal-ceramic Prosthodontic Appliances. *Strojarstvo.* 2007;(48):157-61.
19. Petričević N, Katunarić M, Mehulić K, Simeon P, Renner-Sitar K, Čelebić A. Selection of Appropriate Artificial Frontal Teeth Size Using Dimensions of Hard Palate. *Coll Antropol.* 2006;(30)3:315-9.
20. Baučić M, Čelebić A, Stipetić J, Mehulić K, Božić D. In Vitro Release of Metal Ions from a Gold Platinum Alloy in Saliva Simulated Conditions. *Coll Antropol.* 2003;27:91-8.

21. Baučić I, Baučić M, Stipetić J, Komar D, Mehulić K, Božić D, Klaić B. Screening of fixed prosthodontic patients after five years of use in relation to material and construction. *Coll Antropol.* 2002;26:673-9.
22. Katunarić M, Jurić S, Staudt-Škaljac G, Mehulić K, Komar D. Some Periodontological Parameters in Patients with Oesophagogastric Passage Insufficiency. *Coll Antropol.* 1998;22:199-203.
23. Musić S, Živko-Babić J, Mehulić K, Ristić M, Popović S, Furić K. Microstructural properties of leucite-type glass ceramics for dental use. *Croat Chem Acta.* 1997;70:1-6.
24. Musić S, Živko-Babić J, Mehulić K, Ristić M, Popović S, Furić K. Microstructure of leucite glass-ceramics for dental use. *Materials Letters.* 1996;27:195-9.

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1. Kranjčić J, Kostelić-Stunić M, Čelebić A, Komar D, Mehulić K, Vojvodić D. Denture relining as an indicator of residual ridge resorption. *Med Glas.* 2013;10(1):126-32
2. Kranjčić J, Kostelić-Stunić M, Vojvodić D, Čelebić A, Komar D, Mehulić K. Patient's satisfaction with removable dentures after relining. *Med Glas.* 2012;9(2):376-82.
3. Vojvodić D, Kozak D, Sertić J, Mehulić K, Čelebić A, Komar D. Influence of Depth Alignment of E-Glass Fiber Reinforcements on Dental Base Polymer Flexural Strength. *Mater Test.* 2011;53(9):528-35.
4. Mehulić K, Svetličić V, Vojvodić D, Šegota S, Schauerl Z, Runje B. Surface structural changes of feldspathic ceramics before and after immersion in corrosive medium using Atomic Force Microscopy. *Mater Test.* 2010;52(4):234-40.
5. Mehulić K, Lauš-Šošić M, Schauerl Z, Vojvodić D, Štefančić S. Influence of cast surface finishing process on metal-ceramic bond strength. *Med Glas.* 2009;6(2):235-42.
6. Petričević N, Guberina M, Čelić R, Mehulić K, Krajnović M, Antonić R, Borčić J, Čelebić A. Use of digital photography in the reconstruction of the occlusal plane orientation. *Med Glas.* 2009;6(2):243-8.
7. Vojvodić D, Komar D, Schauerl Z, Čelebić A, Mehulić K, Žabarović D. Influence of different glass fiber reinforcements on denture base polymer strength (Fiber reinforcements of dental polymer). *Med Glas.* 2009;6(2):227-34.

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1. Ledić K, Majnarić I, Milardović Ortolan S, Špalj S, Štefančić S, Mehulić K. Analysis of translucency of glass-ceramics fabricated by different techniques. *Acta Stomatol Croat. Poslan uredništvu, recenziran.*
2. Viskić J, Schauerl Z, Čatić A, Balog M, Krizik P, Gržeta B, Popović J, Milardović Ortolan S, Mehulić K. Utjecaj obrade erozimatom na mikrostrukturu površine titana dobivenog metalurgijom praha. *Acta Stomatol Croat.* 2014; 48 (4):285-91.
3. Štefančić S, Čurković L, Baršić G, Majić Renjo M, Mehulić K. Investigation of Glazed Y-TZP Dental Ceramics Corrosion by Surface Roughness Measurement. *Acta Stomatol Croat.* 2013;47(2):163-8.
4. Mehulić K, Lauš-Šošić M. Metal-ceramic bond: how to improve?. *Minerva Stomatol.* 2009;58(7-8):367-73.
5. Mehulić K. Failures in fabrication and therapy with ceramic crowns. *Minerva Stomatol.* 2008;(57):47-51.
6. Kevilj R, Mehulić K, Dundjer A. Temporomandibular disorders and bruxism. Part I. *Minerva Stomatol.* 2007;(56):393-9.
7. Kevilj R, Mehulić K, Dundjer A. Diagnostic methods for detection of signs and symptoms of temporomandibular disorders. Part II. *Minerva Stomatol.* 2007;(56):399-405.
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- [Molecular diagnostics of oral diseases](#)

Biography

Professor Marinka Mravak-Stipetić is a full professor with tenure at the Faculty of Dentistry, University of Zagreb and Head of the Clinical Department of Oral Medicine, Dental Clinic, KBC Zagreb. She was born in Karlovac. Elementary school and 5th Gymnasium she finished in Zagreb. She graduated at the School of dental medicine (SFZG), University of Zagreb in 1981 and achieved MSc in 1983. From 1984 she is employed at the Department of Oral Medicine, Faculty of Dentistry and the Dental Clinic UHC Zagreb. Since 1991 she work as a specialist in Oral and dental pathology with Periodontology. She was awarded by CEEPUS grant (1996, clinical work at LKH Graz, Austria) and DAAD grant (1998, education at Eppendorf UHC, Hamburg, Germany). She received PhD in 1993, and in 1996 was elected for assistant professor at the same University. In 2000 she was promoted to the academic title of associate professor, in 2004 to full professor, and in 2009 to full professor with tenure. Her scope of clinical and scientific work encompass: oral medicine, diagnosis and treatment of oral diseases, the association of oral and systemic health, salivary gland diseases and disorders of secretion, molecular diagnosis of oral infections and oral precancerous lesions. Since 2013 she is a member of the multidisciplinary team and an associate researcher at the international project of Croatian Ministry of Science and UKF: "Clinical and biological factors determining the severity and activity of chronic graft versus host disease after allogeneic hematopoietic stem cell transplantation" lead by professor SZ.Pavletic from the National Institute of Health (NIH / NCI), USA and professor D.Nemet from Clinic of hematology UHC Zagreb. In the framework of the project she was invited to expert visit to the National Institute of Health in 2015, where she held lectures in the field of the project. She is author of adequate number of peer reviewed articles in the field of oral medicine, author of 10 chapters in professional and scientific books, co-translator and editor of the 1st Croatian edition of the American university textbook "Burket's oral medicine, diagnosis and treatment" 10th ed., edited by Greenberg MS, M. Glick and editor of the 1st Croatian edition of the university book "Atlas of Oral Medicine" written by G Laskaris which are used as university books in regular classes of oral medicine at the SFZG in Zagreb. Professor Mravak-Stipetić actively participated at the numerous national and international foreign conferences. She serves as a reviewer in several national and international journals and was guest editor of the scientific journal Oral Diseases in 2006. She is member of the review panel and reviewer of scientific projects of the Croatian Ministry of Science, Education and Sports (MZOS) and international projects. She was the leader and / or investigator of several completed research projects (MZOS, UKF, FP7), and is currently involved as a researcher in three projects approved by University of Zagreb and Croatian Science Foundation. During continuous academic work she organizes and conducts graduate courses in oral medicine for students of the 5th and 6th year of graduate dental study. She is head of the two postgraduate courses at, doctoral and CE studies. She was mentor of 44 graduate student theses, 3 student research works awarded with Rector of University award, 8 master's theses and seven doctoral dissertations. She is lecturer in the continuing education courses organized by School of Dental Medicine and the Croatian Chamber of Dental Medicine. Professor Mravak is chief mentor to the residents specializing Oral medicine. Her accomplishments are commended with Diploma of the Croatian Medical Association for recognition of the contribution to the art of science and the welfare of the nation's health. She is a member of numerous working bodies of the Faculty, the Croatian Chamber of Dental Medicine and the Ministry of Health. She is a member of several professional domestic and foreign societies. She is married to Daniel Stipetić, DMD, PhD, and mother of two children, son Andro, DMD and daughter Maja mag.oec.

Projects

1. Researcher in the project of the Croatian Science Foundation (HRZZ) "epigenetic changes in cancer squamous cell head and neck"; principal investigator Dr. M. Grce, (period 2013th-2018th), Code: 4758, acronym: EPIC HNSCC.

2.Head of the University project approved 2,016 years

Publications

Znanstveni radovi u recenziranim časopisima/ Scientific papers in peer review journals

Sabol, I., Smahelova, J., Klozar, J., **Mravak-Stipetic, M.**, Gheit, T., Tommasino, M., Grce, M., Tachezy, R. Beta-HPV types in patients with head and neck pathology and in healthy subjects(2016) Journal of Clinical Virology, 82, pp. 159-165.

DOCUMENT TYPE: Article

SOURCE: Scopus

Bilic, E., Delimar, V., Desnica, L., Pulanic, D., Bilic, E., Bakovic, M., Curtis, L.M., Seiwerth, R.S., **Stipetic, M.M.**, Ceovic, R., Pulanic, T.K., Aleric, I., Milos, O., Vrhovac, R., Nemet, D., Pavletic, S.Z. High prevalence of small- and large-fiber neuropathy in a prospective cohort of patients with moderate to severe chronic GvHD(2016) Bone Marrow Transplantation, . Article in Press.

DOCUMENT TYPE: Article in Press

SOURCE: Scopus

Čeović, R., Desnica, L., Pulanić, D., Seiwerth, R.S., Ilić, I., Grce, M., **Stipetić, M.M.**, Pulanić, T.K., Bilić, E., Bilić, E., Milošević, M., Vrhovac, R., Nemet, D., Pavletic, S.Z. High frequency of cutaneous manifestations including vitiligo and alopecia areata in a prospective cohort of patients with chronic graft-vs-host disease(2016) Croatian Medical Journal, 57 (3), pp. 229-238.

DOCUMENT TYPE: Article

SOURCE: Scopus

Petrušić, N., Posavac, M., Sabol, I., **Mravak-Stipetić, M.** The effect of tobacco smoking on salivation [Učinak pušenja duhana na salivaciju](2015) Acta Stomatologica Croatica, 49 (4), pp. 309-315.

DOCUMENT TYPE: Article

SOURCE: Scopus

Gašpar, M., Glavina, A., Grubišić, K., Sabol, I., Bušić, M., **Mravak-Stipetić, M.** The oral cavity state in renal transplant recipients [Stanje usne šupljine kod osoba s transplantiranim bubregom](2015) Acta Stomatologica Croatica, 49 (3), pp. 204-213.

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Vucicevic Boras, V., Marinovic, B., Seiwerth, S., **Mravak Stipetic, M.**, Andabak Rogulj, A., Vidovic Juras, D. Oral and skin lichen planus pemphigoides(2015) Research Journal of Pharmaceutical, Biological and Chemical Sciences, 6 (3), pp. 1784-1789.

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DOCUMENT TYPE: Note

SOURCE: Scopus

Mravak-Stipetić, M, Lončar-Brzak, B, Bakale-Hodak, I, Sabol, I, Seiwert, S, Majstorović, M, Grce M. Clinicopathologic Correlation of Oral Lichen Planus and Oral Lichenoid Lesions: A Preliminary Study. The SciWJ, 2014, Article ID 746874, doi:10.1155/2014/746874

Risović D, Maver-Bišćanin M, **Mravak-Stipetić M**, Bukovski S, Bišćanin A. Quantitative investigation of efficiency of ultraviolet and visible light in eradication of *Candida albicans* in vitro. Photomed Laser Surg. 2014 Apr;32(4):232-9. doi: 10.1089/pho.2013.3691

Mravak-Stipetić M, Sabol I, Kranjčić J, Knežević M, Grce M. Human papillomavirus in the lesions of the oral mucosa according to topography. PLoS One. 2013 Jul 29;8(7):e69736. doi: 10.1371/journal.pone.0069736.

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[Baričević M](#), [Mravak Stipetić M](#), [Situm M](#), [Marinović B](#), [Seiwert S](#), [Baričević D](#), [Lončar B](#). Oral bullous eruption after taking lisinopril-case report and literature review. [Wien Klin Wochenschr](#). 2013;125(13):408-11.

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Lončar B, **Mravak-Stipetić M**, Baričević M, Risović D. The effect of low-level lasertherapy (LLL) on salivary glands in patients with xerostomia. Photomedicine and Laser Surgery 2011;29(3):171-5.

Baričević M, Ratkaj I, Mladinić M, Želježić D, Kraljević Pavelić S, Lončar B, **Mravak-Stipetić M**. In vivo assessment of DNA damage induced in oral mucosa cell by fixed and removable metal prosthodontic appliances. Clinical Oral Investigation 2012;16(1):325-31.

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Baričević M, Pavelić SK, **Stipetić MM**, Lončar B, Ratkaj I. Comment on a letter written by Ribeiro DA "Risk assessment of oral cancer in patients with pre-cancerous states of the oral cavity using micronucleus test and challenge assay" [Saran R, Tiwari RK, Reddy PP, Ahuja YR. Oral Oncol 2008;44:354-60]. Oral Oncol 2011, 47(8): 777-8.

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Canjuga, I; **Mravak-Stipetić, M**; Lončar, B; Kern, J. The prevalence of systemic diseases and medications in patients with oral lichen planus. Acta stomat Croat 2010;44(2):96-100.

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Štefić, L., Mravak-Stipetić, M., Borić, V. Collocations in the language of dental medicine: Examples in oral medicine [Kolokacije u jeziku stomatologije: primjeri iz oralne medicine] (2010) Acta Stomatologica Croatica, 44 (3), pp. 176-187. Cited 2 times.

DOCUMENT TYPE: Article

SOURCE: Scopus

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SOURCE: Scopus

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Maver-Biscanin, M., Mravak-Stipetic, M., Jerolimov, V., Biscanin, A.

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Vučičević-Boras, V., Alajbeg, I., Brozović, S., Mravak-Stipetic, M.

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SOURCE: Scopus

Lukač, J., Mravak-Stipetić, M., Knežević, M., Vrček, J., Sistig, S., Ledinsky, M., Kusić, Z. Phagocytic functions of salivary neutrophils in oral mucous membrane diseases (2003) Journal of Oral Pathology and Medicine, 32 (5), pp. 271-274. Cited 17 times.

DOCUMENT TYPE: Article

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Mravak-Stipetić, M., Gruden Pokupec, S.-J. Bacterial sialadenitis [Bakterijski sialoadenitisi] (2002) Infektoloski Glasnik, 22 (3), pp. 109-112.

DOCUMENT TYPE: Review

SOURCE: Scopus

Brozovic, S., Vucicevic-Boras, V., Mravak-Stipetic, M., Jukic, S., Kleinheinz, J., Lukac, J. Salivary levels of vascular endothelial growth factor (VEGF) in recurrent aphthous ulceration (2002) Journal of Oral Pathology and Medicine, 31 (2), pp. 106-108. Cited 25 times.

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SOURCE: Scopus

Gall-Trošelj, K., Mravak-Stipetic, M., Jurak, I., Ragland, W.L., Pavelić, J. Helicobacter pylori colonization of tongue mucosa - increased incidence in atrophic glossitis and burning mouth syndrome (BMS) (2001) Journal of Oral Pathology and Medicine, 30 (9), pp. 560-563. Cited 36 times.

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Dumić, M., Mravak-Stipetić, M., Kaić, Z., Ille, J., Plavšić, V., Batinica, S., Cvitanović, M. Xerostomia in patients with triple A syndrome - A newly recognised finding (2000) European Journal of Pediatrics, 159 (12), pp. 885-888. Cited 8 times.

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SOURCE: Scopus

Pavelic, J., Gall-Troselj, K., Jurak, I., Mravak-Stipetic, M., Birek, C., Bowden, G., Ficarra, G., Singer, D., Grandhi, K.

Helicobacter pylori in oral aphthous ulcers [1] (multiple letters)

(2000) *Journal of Oral Pathology and Medicine*, 29 (10), pp. 523-525. Cited 5 times.

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SOURCE: Scopus

Vidas, I., Delajlija, M., Temmer-Vuksan, B., Stipetić-Mravak, M., Cindrić, N., Maričić, D.

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SOURCE: Scopus

Mravak-Stipetić, M., Pirkić, A., Vidas, I.

Reduction of epithelial dendritic cells in keratotic lesion of oral lichen planus

(1998) *Collegium Antropologicum*, 22 (SUPPL.), pp. 103-109. Cited 1 time.

SOURCE: Scopus

Pavelic, J., Gall-Troselj, K., Mravak-Stipetic, M., Pavelic, K.

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DOCUMENT TYPE: Article

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Mravak-Stipetić, M., Gall-Trošelj, K., Lukač, J., Kusić, Z., Pavelić, K., Pavelić, J.

Detection of *Helicobacter pylori* in various oral lesions by nested polymerase chain reaction (PCR)

(1998) *Journal of Oral Pathology and Medicine*, 27 (1), pp. 1-3. Cited 57 times.

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SOURCE: Scopus

Cekić-Arambasin, A., Durdević-Matić, A., Mravak-Stipetić, M., Bilić, A.

Use of soft laser in the treatment of oral symptoms [Efikasnost mekog lasera u liječenju oralnih simptoma.]

(1990) *Acta stomatologica Croatica*, 24 (4), pp. 281-288. Cited 10 times.

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Clinical oral test for the assessment of oral symptoms of glossodynia and glossopyrosis

(1990) Journal of Oral Rehabilitation, 17 (5), pp. 495-502. Cited 6 times.

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Kongresni sažetci /Congres abstracts:

Mrvak-Stipetić M, Desnica L, Pulanic D, Serventi-Seiwerth R, Vrhovac R, Sabol I, Prenc E, Grce M, Nemet D, Pavletic SZ. Human herpesviruses in oral chronic Graft-versus-Host disease, EBMT Congress, Valencia, Spain, 2016, Book of abstracts, AB36, p. S579.(publication only)

Pulanić D, Desnica L, Serventi-Seiwerth R, **Mrvak-Stipetić M**, Bilić E, Čević R et al. Chronic graft versus host disease in UHC Zagreb - professional and scientific research challenges. Bilten KROHEMA, 2016, 8 (1):30-33.

Dusek D, **Mrvak Stipetić M**, Grce M, Pulanic D, Grkovic L, Serventi Seiwerth R, Klepac Pulanic T, Ceovic R et al. Oral Candida species colonization in chronic Graft-versus-Host Disease. EBMT Congress, Istanbul 2015, Abstract book, no.P102, p.S168.

Grkovic L, Pulanic D, Serventi-Seiwerth R, Matic N, **Mrvak-Stipetić M**, Bilic E, Ceovic R et al. Implementation and dissemination of chronic graft-versus-host disease nih criteria and recommendations - formation of a multidisciplinary team and program at the University hospital center Zagreb, Croatia. EBMT Congress, Milan, Italy, 2014; Book of abstracts, PH-P419, p.S301-2.

Mrvak-Stipetić M, Grkovic L, Pulanic D, Sabol I, Grce M, Nemet D, Pavletic SZ. Comprehensive evaluation of oral chronic graft versus host disease (cGVHD) in a cohort of Croatian patients. EBMT Congress Milan 2014, Book of abstracts, PH-AB242, p.S541-2.(publication only)

Pulanić, Dražen; **Mrvak-Stipetić, Marinka**; Grković, Lana; Serventi-Seiwerth, Ranka; Vrhovac, Radovan; Nemet, Damir; Sabol, Ivan; Grce, Magdalena; Pavletic, Steven Živko. Procjena promjena u usnoj šupljini u bolesnika s kroničnom reakcijom transplantata protiv primatelja (cGVHD) 6.hrvatski kongres hematologa i transfuziologa s međunarodnim sudjelovanjem, Rovinj, Hrvatska, 20.-23.3.2014 Liječnički Vjesnik, Zagreb.

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Biocina-Lukenda, D, **Mrvak-Stipetić, M**, Cigic, L, Vilovic, K, Immunohistochemical expression of PCNA and Ki-67 in oral lichen planus. ORAL DISEASES, 2010;16 (6): 525-5

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Lončar-Brzak, B; **Mrvak-Stipetić, M**. Klasifikacije mukozitisa. Medix 2014;109/110; 243-246.

Poglavlja u knjigama/chapters in books

1. Lipozenčić, Jasna; Mrvak-Stipetić, Marinka; Pašić, Aida; Ručević, Ivana.

Dermatološki problemi u terminalnih bolesnika // Paliјativna medicina : temeljna načela i organizacija, klinički pristup terminalnom bolesniku, medicinska etika / Brkljačić, Morana ; Šamija, Mirko ; Belev, Borislav ; Strnad, Marija ; Čengić, Tomislav (ur.).

Donja Lomnica ; Zagreb ; Rijeka : Markulin : Zaklada Onkologija : Sveučilište u Rijeci, 2013. Str. 171-207.

2. Mrvak Stipetić, Marinka.

Injectable and Mucosal Routes of Drug Administration // Update in dermatologic drug therapy / Jasna Lipozenčić and coauthors (ur.).

Zagreb : Academy of Medical Sciences of Croatia, 2012. Str. 269-278.

3. Mrvak-Stipetić, Marinka.

Diferencijalna dijagnoza erozija u usnoj šupljini // Smjernice u dijagnostici i liječenju najčešćih dermatoza i tumora kože / prof.dr.sc.Mirna Šitum (ur.).

Jastrebarsko : NAKLADA SLAP, 2012. Str. 203-216.

4. Mrvak-Stipetić, Marinka.

Maculopapular drug eruptions and vasculitis allergica // Update in dermatologic drug therapy / Lipozenčić, Jasna and coauthors (ur.).

Zagreb : Akademija medicinskih znanosti Hrvatske, 2012., Str. 381-390.

5. Mrvak-Stipetić, Marinka.

Xerostomia - diagnosis and treatment // RAD Hrvatske akademije znanosti i umjetnosti / Akademik Pećina, Marko, prof.dr.sc.Brkić, Hrvoje (gost urednik) (ur.).

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6. Mrvak-Stipetić, Marinka.

Alergijski stomatitis // Alergijske i imunosne bolesti / Lipozenčić, Jasna (ur.).

Zagreb : Medicinska naklada, 2011. Str. 151-161.

7. Mrvak Stipetić, Marinka.

Differential diagnosis of painful conditions of oral mucosa // Temporomandibular disorders and orofacial pain- multidisciplinary approach / Akademik Marko Pećina, prof.dr. Jerolimov, Vjekoslav (ur.).

Zagreb : Hrvatska akademija znanosti i umjetnosti, 2010. Str. 54-63.

8. Mrvak-Stipetić, Marinka.

Oralna medicina u osoba starije dobi // Gerontostomatologija / Čatović, Adnan (ur.).

Zagreb : Medicinska naklada, 2010. Str. 107-127.

Interests

Professional interests:

Oral medicine; Molecular diagnosis of oral diseases; oral chronic GVHD; The link between systematic and oral health - the impact of systemic disease on the mouth; Disruption secretion of saliva and treatment: therapeutic laser in oral medicine; HPV in the oral mucosa; Oral precancerous lesions; Diagnosis of oral diseases

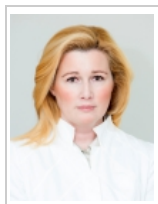
Memberships:

Croatian Chamber of Dental Medicine (HKDM)

European Association of Oral Medicine (EAOM)

The European Association for oral care in patients with oral cancer (EOCC)

doc. dr. sc. Dubravka Negovetić-Vranić



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 Biography: 221
 Year of graduation: 1997
 MSc thesis: 2004
 PhD thesis: 2005

Courses

- [Experimental methods of determining the effectiveness of the resources for the maintenance of oral hygiene](#)

Biography

Dubravka Negovetić Vranic was born on 05/29/1971. in Zagreb where she completed the first two years of high school. The final two years of high school she completed in Hawaii Preparatory Academy in the United States where she gets a full scholarship. In the school year of 1991st she entered the University of Illinois at Chicago where she attended for one year. In the same year she enrolled in Faculty of Dentistry, University of Zagreb and graduated 06.09.1997. She finished her internship in 1998th and on December 8th 1999th passed the state exam for dentists, and gained approval for the independent work at the Croatian Dental Chamber. In academic year 1999 / 2000. she enrolled in postgraduate studies at the Faculty of Dentistry, University of Zagreb. From the December 1st 1999. She is working at the Department of Paediatric Dentistry, Faculty of Zagreb, as a research assistant at the research project No. 065006 entitled "Dental trauma in children". Master's thesis entitled "Comparative analysis of dental filling materials in children," she defended on 1th February 2004. Specialist examination in Paediatric dentistry she passed on 10.06.2005. PhD thesis titled "Analysis of the marginal seal and the quality of self-etching adhesive systems" she defended 24.04.2008.

She was elected to the position of scientific research associate on 09.09.2008. as a part of the scientific field of biomedicine and health-field of dentistry. She entered into a contract of employment in the academic title of Assistant professor from Faculty of Dentistry at the University of Zagreb 26.02.2009. She is a member of the Croatian Medical Association, Croatian Dental Chamber and Croatian Society of Dental Traumatology, Croatian pedodontic Society, European Academy of Pediatric Dentistry (EAPD) and the International Association of Dental Research (IADR).

She speaks Italian and English and is married with three children.

Projects

1. Research assistant at the scientific project number br. 3-02-323
 „Etiology and prevention of dental traumatology“ (head researcher: Prof. dr. sc. Ilija Škrinjarić)
2. Research assistant at the scientific project number 065-006 “Dental Traumatology in children ” (head researcher: Prof. Dr. sc. Ilija Škrinjarić)
3. Collaborator at the scientific project: "Evaluation of efficacy of innovative oral-hygiene resources in planning preventive therapy in dentistry" (2013/2014) (Head Prof. Dr.sc. Martina Majstorović)
4. Collaborator in scientific project “Evaluation of efficacy of innovative oral-hygiene resources in planning preventive therapy in dentistry” (2014/2015) (Head Prof. Dr.sc. Martina Majstorović)
4. Head of project financed by budget from Grada Zagreba “E-dječja dentalna medicina” (2015) (approved by Grad Zagreb)
5. Collaborator at the project „Hrvatsko stomatološko nazivlje – HRSTON“ Croatian Science Foundation (Head Doc.dr.sc. Marin Vodanović)
6. Collaborator on the Project for benefit of oral health for blind and vision impaired people (Head Doc.dr.sc. Jelena Dumančić)
7. Head from Croatian team on EU project „White teeth“ from Ankara, Turkey (2014 g.)

Publications

1. Škrinjarić I, Škrinjarić K, Negovetić Vranić D, Majstorović M, Glavina D. Craniofacial Anthropometric Pattern Profile in Hypohidrotic Ectodermal Dysplasia – Application in Detection of Gene Carriers. *Coll Antropol* 2003; 27 (2): 753-759.
2. Glavina D, Negovetić Vranić D, Anić Milošević S, Bergman V, Majstorović M, Škrinjarić I. Pečaćenje fisura primjenom soft-start polimerizacije: retencija nakon 3 godine. *Coll Antropol* 2007; 31 (4):1089-1092.
3. Škrinjarić K, Negovetić Vranić D, Glavina D, Škrinjarić I. Heat treated GIC fissure sealants: retention after one year follow up. *Int J Paediatr Dent* 2008; DOI:10.1111/j.1365-263x.2007.00896.x.
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5. Martina Majstorovic, Dubravka Negovetic Vranic, Lajos Szivoczka. Recent Achievements in Preventive Dentistry by Introducing a New Probiotic Toothpaste. *Collegium antropol.* 37(2013). 4: 1307-1312.
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7. Dubravka Negovetić Vranić, Nataša Ivančić Jokić, Danko Bakarčić, Andreja Carek, Željko Rotim and Željko Verzak. Dental fear in children with repeated tooth injuries. *Acta Clin Croat* 2016; 259-264. DOI: 10.20471/acc.2016.55.02.12
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10. Ivancic Jokic N, Bakarcic D, Nastic V, Majstorovic M, Negovetic Vranic D. Mouth breathing as a cause of orofacial anomalies. *Pediatria Croatica* 2014; 58:114-18.
11. Carek A. Babic I. Lovric Z. Ivancic JN. Negovetic Vranic D. Finding of Third Lower Molar in Prosthetic Croatian Patients. *Ann. Int. Med. Den. Res.* 2016; 2 (1):71-7.
12. Dubravka Negovetić Vranić, Josipa Jurković, Jesenka Jeličić, Antonija Balenović, Gordana Stipančić, Ivana Čuković-Bagić. Medical Emergencies in Pediatric Dentistry. *Acta Stomatol Croat* 2016;50(1):72-80.
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E) Abstracts from congresses

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2. Jelena Dumancic, Ivana Cukovic Bagic, Bozana Loncar Brzak, Dubravka Negovetic Vranic. Caries prevalence in Blind and Visually Impaired Individuals in Croatia. *International Dental Journal* 2015; 65 (Suppl.2): 162-185.
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8. Glavina, Domagoj; Goršeta, Kristina; Negovetić Vranić, Dubravka; Škrinjarić, Ilija. [Retention of Glasscarbomer Sealant after 6 Months of Clinical Trial](#) // *J Dent Res, Issue 89(Spec Iss B)*:2010. 4534 (poster, međunarodna recenzija, sažetak, znanstveni).
9. Goršeta, Kristina; Glavina, Domagoj; Negovetić Vranić, Dubravka; Škrinjarić, Ilija. [Microhardness of the New Developed GlassCarbomer Cement](#) // *J Dent Res, Issue 89(Spec Iss B)*:2010. 2273 (poster, međunarodna recenzija, sažetak, znanstveni).
10. Majstorović, Martina; Škrinjarić, Ana; Škrinjarić, Tomislav; Goršeta, Kristina; Negovetić-Vranić, Dubravka. [Validity of facial image scale in assessing dental anxiety in children](#) // *9th Congress of the European Academy of Paediatric Dentistry, Dubrovnik, Croatia. Program*
11. Negovetić Vranić D, Škrinjarić K, Glavina D, Škrinjarić T. [Preventive effect of two glass-ionomer cements vs. two compomer materials](#) *Journal of Dental Research* 86(Spec Iss B):0291, 2007. (www.dentalresearch.org). 42nd Annual Meeting of IADR-Continental European and Israeli Divisions, Thessaloniki, Greece, 2007. (sažetak, znanstveni rad).
12. Škrinjarić K, Negovetić Vranić D, Glavina D, Škrinjarić T. [Flexural Strength of Glass Ionomer Treated with Different Curing Methods](#). *Journal of Dental Research* 86(Spec Iss B):0292, 2007. (www.dentalresearch.org). 42nd Annual Meeting of IADR-Continental European and Israeli Divisions, Thessaloniki, Greece, 2007. (sažetak, znanstveni rad).
13. Glavina D, Škrinjarić K, Negovetić Vranić D, Škrinjarić I. [Heat treated GIC fissure sealants: retention after 1 year follow up](#) 8th Congress of the European Academy of Paediatric Dentistry, Amsterdam, The Netherlands, 2006. (sažetak, znanstveni rad).
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[glass-ionomer cements on hard dental tissues](#) Journal of Dental Research 84(Spec Iss B):0227, 2005. (www.dentalresearch.org)// Abstract Book of IADR/CED meeting Amsterdam 2005 / Local organizing committee, ACTA, Amsterdam, the Netherlands (ur.). Amsterdam : IADR, 2005. 74 (sažetak, znanstveni rad).

19. Škrinjarić K, Negovetić Vranić D, Glavina D, Škrinjarić I. [Some Risk Factors for Trauma of Permanent Dentition in Children](#) Journal of Dental Research 84(Spec Iss B):0318, 2005. (www.dentalresearch.org). Abstract Book of IADR/CED meeting Amsterdam 2005 / Local organizing committee, ACTA, Amsterdam, the Netherlands (ur.). IADR, 2005. 102 (sažetak, znanstveni rad).

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22. Škrinjarić I, Škrinjarić K, Negovetić Vranić D, Craniofacial Anthropometric Pattern Profile in Hypohidrotic Ectodermal Dysplasia – Application in Detection of Gene Carriers. 13th Congress of the European Anthropological Association: Abstracts, Collegium Antropologicum (vol. 26 Suppl.) Zagreb: Hrvatsko antropološko društvo, 2002. 191 (sažetak, znanstveni rad).

23. Glavina, Domagoj; Negovetić Vranić, Dubravka; Goršeta, Kristina; Škrinjarić, Ilija. [Effect of LGG Yoghurt on S. mutans and Lactobacillus spp. salivary counts](#). 9th Congress of the European Academy of Paediatric Dentistry, Dubrovnik, Croatia, 2008. 64 (predavanje, međunarodna recenzija, sažetak, znanstveni).

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25. Goršeta, Kristina; Negovetić Vranić, Dubravka; Glavina, Domagoj; Škrinjarić, Ilija. [Heating of GIC improve shear bond strength to enamel](#). The Pan European Federation of the International Association for Dental Research, London, Great Britain 2008. (poster, međunarodna recenzija, sažetak, znanstveni).

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30. Majstorovic M, Negovetic Vranic D. Efficacy of a new probiotic toothpaste on the bacterial flora in the mouth. Abs. Book of 5th Quintessence Conference, Zagreb 4-5. Nov 2011., Zagreb, Croatia.

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Croatia.

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33. Dubravka Negovetic Vranic, Martina Majstorovic, Tomislav Katanec, Marija Ivic Kardum, Luc A. Marks. A new toothpaste in the treatment of dentine hypersensitivity. Abstract Book of IADR/PER Congress IADR Congress, September,10-13, 2014, Dubrovnik,Croatia, Europe.Abs.425.

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Interests

- 1.European Academy of Pediatric Dentistry (EAPD)
- 2.. Croatian Dental Chamber
3. Croatian Dental Association
4. International Association of Paediatric Dentistry (IAPD)
- 5.International Association of Dental Research (IADR)
6. Croatian Medical Chamber
- 7.Croatian Association for pediatric and preventive dentistry HLZ-a (HDDPS)

Hobby

My hobbies and other interests are: speed walking, watching movies, reading books, listening to music, traveling and meeting new people. I am also interested in new technologies.

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Biography: Zavod za endodonciju i restaurativnu stomatologiju

Year of graduation: 1987

MSc thesis: 1991

PhD thesis: 1999

Courses

- [Histopathological analysis of periapical diseases](#)

Biography

Date and place of birth: 08.05.1963., Zagreb

1987. DDS, Dentist

1991. Master degree. School of Dental Medicine, University of Zagreb, postgraduate study

1995. Specialist in Endodontology and Restorative Dentistry with Periodontology and Oral Pathology

1999. Ph.D degree, School of Dental Medicine, University of Zagreb

2000. Assistant Professor, School of Dental Medicine, University of Zagreb

2004. Associate Professor, School of Dental Medicine, University of Zagreb

2014. Full Professor, School of Dental Medicine, University of Zagreb

Projects

Clinical and experimental endodontology (065-0650444-0418)

Publications

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 6. Valter K, Pavelić B, Katanec D, Sokler K, Galić N, Šegović S, Donath K, Herman R. Evaluation of sporadic cases of odontogenic keratocysts in multicentric study. *Coll Antropol* 2002; 26:177-82.
 7. Katanec D, Pavelić B, Ivasović Z. Efficiency of Polylactide/ Polyglycolide Bone Replacements in Bone Defects Healing Measured by Densitometry. *Coll Antropol* 28 (2004) 1: 331-6.
 8. Špalj S, Plančak D, Jurić H, Pavelić B, Bošnjak A. Reasons for Extraction of Permanent Teeth in Urban Populations of Croatia. *Coll Antropol* 2004; 28: 833-9.
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1. Levanat S, Kappler R, Döring P, Musani V, Komar A, Orešković S, Pavelić B, Hahn H. Analysis of PTCH signaling pathway in ovarian dermoids. *Int J Cancer* 2004; 14: 793-9.
 2. [Malčić A](#), [Jukić S](#), [Anić I](#), [Pavelić B](#), [Kapitanović S](#), [Kruslin B](#), [Pavelić K](#). Alterations of FHIT and P53 genes in keratocystic odontogenic tumor, dentigerous and radicular cyst. [J Oral Pathol Med.](#) 2008; 37(5):294-301.
 3. Pavelić B, Katunarić M, Šegović S, KaradoleCimaš M, Katanec D, Šaban A, Puhar I. The Incidence of

Satellite Cysts in Keratocystic Odontogenic Tumors. Coll. Antropol. 2014;38 (1): 269–73.

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 2. Šegović S, Pavelić B, Jukić S, Anić I. Prvi gornji trokorijeni pretkutnjaci: pet kliničkih slučajeva. Acta Stomatol Croat 2004; 38: 375-8. (članak, prikaz slučaja)
 3. Filipović J, Jukić S, Miletić I, Pavelić B, Malčić A, Anić I. Stajalište pacijenata prema uporabi koferdama. Acta Stomatol Croat. 2004; 38: 313-7. (članak, znanstveni rad).
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1. Plančak D, Bošnjak A, Pavelić B. Severe periodontal condition as a result of diabetes mellitus type I: a case report. Diabetol Croat 2002; 31(4): 231-5. (članak, prikaz slučaja).
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Interests

An organizer of numerous international and domestic symposiums and working courses.

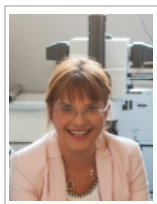
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A member of European Society of Endodontology

Hobby

Dancing and singing

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Year of graduation: 1990

MSc thesis: 1992

PhD thesis: 1998

Courses

- [Genome of tumor cells](#)

Biography

Nives Pecina-Slaus is full professor at the department of biology and Head of the Laboratory of Neuro-oncology Croatian Institute for Brain Research Medical School University of Zagreb. She has received her B.S. in 1990. her M.S. in 1992. from the University of Zagreb, Faculty of Math and Sciences, and her Ph. D. in the field of molecular oncology in 1998. from Medical School University of Zagreb. She was trained at Cold Spring Harbor Laboratory, New York, and at Georgetown University, Washington DC, USA. She was granted as principal investigator 5 scientific projects. She is a collaborator on the international project FP7-REGPOT GlowBrain. Her research has led to publication of more than 100 publications – 49 scientific papers, a book, abstracts, 7 book chapters and professional papers. She was cited 380 times in Web of Science and 413 in Scopus. Her main fields of research are cancer genetics, Wnt signaling pathway, brain tumorigenesis, tumor suppressor genes, oncogenes, genetic profiles of brain tumors. She acts as a reviewer for many scientific peer-reviewed journals and is a member on editorial boards of *Frontiers in Bioscience*, *Acta Clinica Croatica*, *Cancer Cell International*, *Croatian Medical Journal*. She teaches Medical biology and was mentor on numerous theses (12 theses) and mentor on four papers rewarded by Rector's award. She was awarded four scientific awards, by Croatian Medical Association, by Academy of Medical Sciences and in 2011. she received National Science Award for 2010. for the outstanding scientific research by Ministry of Science, Education and Sports and award for publication activity from Medical School University of Zagreb. She is married and mother of two children.

Projects

She was granted and was/is leading as principal investigator five scientific projects and is a collaborator on FP7-REGPOT project GlowBrain. 1997-2002. project “The role of tumor suppressor gene APC in tumorigenesis and embryogenesis”, (108 509); 2002-2005 project “The role of wnt signaling pathway in human tumors” (0108 215); 2007.-2013. projekt “The role of wnt signaling pathway in brain tumorigenesis and embryogenesis (108-1081870-1905)” MZOŠ; 2013.-2014. University of Zagreb Fund „Wnt signaling pathway from membrane to nucleus of the brain tumor cells“ (1.2.1.19). 2014.- project of the Croatian science foundation „The role of Wnt signaling in epithelial to mesenchymal transition“ (HRZZ 6625).

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2. Knjige

1. Autor

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1. Koautor

2. **Pećina-Šlaus N**, Bulić-Jakuš F. *Molekularna genetika tumora*, U: *Metode molekularne biologije u medicini*/ Šerman, D, Sertić J, Stavljenić-Rukavina, A, Bulić-Jakuš, F. (ur.) Medicinska naklada Zagreb, 2003., 2005.
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3. Radovi u zbornicima

a) na međunarodnim skupovima

1. Frković-Grazio S, Grazio S, Čabrijan T, Zjačić-Rotkvić V, Goldoni V, **Pecina N**, Pavelić K. Preserved nuclear localization of p62^{c-myc} oncoprotein in freshly frozen paraffin embedded breast carcinoma tissues. XIII European Congress of Pathology and 4th Meeting of the European Association for Haematopathology, 1991.
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6. **Pecina-Šlaus N**, Gall-Trošelj K, Kapitanović S, Radić K, Pavelić K, Pavelić J. Genetic instabilities of the E-cadherin and APC genes in renal cell carcinoma. 3rd International Conference on Signal Transduction, Dubrovnik (Cavtat), Croatia, May 17-23, 2002.
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 27. **Pecina-Šlaus N**, Nikuševa Martić T, Zeljko M, Deak AJ, Tomas D. [Genetic and protein changes of E-cadherin in meningiomas](#) The EMBO meeting advancing the life sciences. Amsterdam, 2009, 80-81.
 28. **Pecina-Šlaus, N**. New insights in the genetics of pheochromocytoma. 21st Ljudevit Jurak International Symposium on comparative Pathology. Main topic Endocrine Pathology. Zagreb, June 4-5, 2010.
 29. **Pecina-Šlaus N**, Zeljko M, Nikuševa Martić T, Kušec V, Majić Z, Beroš V, Tomas T. Molecular alterations of E-cadherin and beta-catenin in brain tumor metastases. Beatson International Cancer Conference. The Multiple Tiers of Gene Regulation in Cancer. Glasgow, Scotland, July 4-7, 2010.
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 31. Nives Pecina-Šlaus, Tamara Nikuševa Martić, Anja Kafka, Sandra Bulat, Maja Pušić. Involvement of key components of Wnt signaling in human astrocytic brain tumors. **SiNAPSA Neuroscience Conference 2011, Central European FENS Featured Regional Meeting. Ljubljana,**

22-25. rujna 2011.

32. Nives Pecina-Slaus, Tamara Nikuseva-Martić, Vesna Kušec, Anja Kafka . Image Analysis of the expression and relationship of beta-catenin and axin 1 proteins in human neuroepithelial brain tumours. Biochemical Society Focused Meeting. Regulation of Protein Trafficking and Function by Palmitoylation. St Anne's College, Oxford, U.K. 23-25. 08. 2012.
33. **Pecina-Šlaus N**, Kafka A, Tomas D (2013) Elevated levels of expression of TCF-1 and LEF-1 transcription factors in astrocytic brain tumors. FENS Featured regional meeting, Prague, 11-14, 09. 2013.
34. Kafka A, Tomas D, Beroš V, Pećina HI, Zeljko M, Pećina-Šlaus N (2014) The expression pattern of key molecules of wnt signaling pathway in brain metastases from lung cancer. FENS, Milano, Italy, July 5-9, 2014.
35. Pećina-Šlaus N, Kafka A, Tomas D, Krušlin B (2014) Upregulation of key wnt signaling molecules in human astrocytic brain tumors. The European Human Genetics Conference, Milano, Italy, May 31-June 3, European Journal of Human Genetics 22 Suppl 1, 265, 2014.
36. Kafka A, Tomas D, Marković L, Okštajner PK, Sukser V (2014) Wnt transcription factor LEF1 as a potential diagnostic marker of higher grade gliomas. GlowBrain Workshop, Zagreb, Croatia, March 27-29, 2014.

b) na domaćim skupovima

1. **Pecina-Šlaus N**. Automatizirana sinteza oligonukleotida i njihovo pročišćavanje. Simpozij HAZU "Novi aspekti molekularne medicine", 1992, Zagreb, Croatia.
2. **Pecina-Šlaus N**. Uloga snRNPova u izrezivanju mRNA eukariota i njihova rekonstitucija in vitro. Simpozij u počast Zdravka Lorkovića, 1995, Zagreb, Croatia.
3. Milavec-Puretić V, Lipozenčić J, Šustić J, **Pecina-Šlaus N**. Sepsa- rijedak događaj Darijerove bolesti (Sepsis an unusual event of Darier s disease). Drugi kongres hrvatskih dermatovenerologa s međunarodnim sudjelovanjem 16-19 svibnja, 2002, Opatija, Croatia. Treća nagrada za poster
4. Reno H, **Pecina-Šlaus N**, Ozretić L, Bulić-Jakuš F, Franekić-Čolić J. Genetic profiling of neuroendocrine tumours: insulinomas and pheochromocytomas. Second Congress of Croatian Geneticists. Supetar, Brac, Croatia, September 24-27, 2005.
5. **Pecina-Šlaus N**, Nikuševa Martić T, Beroš V, Zeljko M, Kokotović T. Genes of the Wnt signalling pathway are altered in human brain tumors. Neurol. Croat. 56 (Suppl. 2), 13136-137, 2007. The second Croatian Congress of Neuroscience, Zagreb, May 18-19, 2007.
6. Zeljko M, Nikuševa Martić T, Beroš V, Kokotović T, **Pecina-Šlaus N**. Genetic alterations of the E-cadherin gene found in brain metastases. Neurol. Croat. 56 (Suppl. 2), 137, 2007. The second Croatian Congress of Neuroscience, Zagreb, May 18-19, 2007.
7. Beroš V, **Pecina-Šlaus N**, Houra K, Nikuševa-Martić T. Genomic instability of the APC gene found in glioblastoma. 5th congress of the Croatian Neurosurgical Society and the Joint Meeting with the Congress of Neurological Surgeons. Dubrovnik, Hrvatska, 2 - 5.09. 2008. Neurologica Croatica
8. **Pecina-Šlaus N**, Nikuševa-Martić T. [Put prijenosa signala Wnt u tumorima mozga](#). 50 godina molekularne biologije u Hrvatskoj / Zahradka, Ksenija; Plohl, Miroslav; Ambrović-Ristov Andreja (ed.) Zagreb : Institut Ruđer Bošković, 2008. 102-102, Zagreb, Hrvatska, 20-21.11.2008
9. **Pecina-Šlaus N**, Nikuševa Martić T, Kokotović T, Kušec V, Tomas D, Hrašćan R. [AXIN-1 Protein Expression and Localization in Glioblastoma](#). The third croatian congress of neuroscience, Zadar, 24-26. 09. 2009/ Goran Šimić (ur.) Zagreb : Hrvatsko društvo za neuroznanost, 2009, 58.
10. **Pecina-Šlaus N**, Majić Ž, Musani V, Zeljko M, Čupić H. Report on mutation in exon 15 of the APC gene in a case of brain metastasis. The third croatian congress of neuroscience, Zadar, 24-26. 09. 2009 / Goran Šimić (ur.). Zagreb: Hrvatsko društvo za neuroznanost, 2009, 57.
11. **Pecina-Šlaus**, N, Nikuseva Martić T, Zeljko M., Deak, AJ, Hrašćan R, Tomas D, Musani V. E-cadherin in the central nervous system tumors meningiomas. Od bazičnih istraživanja do klinike, Hrvatsko društvo za istraživanje raka (HDIR), Zagreb, Hrvatska, 11. studeni, 2010.
12. Vladušić T., Hrascan R, Bičanić A, Perica K, **Pecina-Slaus N**, Vrhovac I, Gamulin M, Franekic J, Krušlin B. Loss of heterozygosity of CDKN2A (p16INK4alpha) and RB1 tumor suppressor genes and possible microsatellite instability in mismatch repair mechanism found in testicular germ cell tumors Od bazičnih istraživanja do klinike, Hrvatsko društvo za istraživanje raka (HDIR), Zagreb, Hrvatska, 11. studeni, 2010.
13. Nikuseva Martić T, **Pecina-Šlaus N**, Zeljko M, Tomas D. Change of NF2 gene in neurinomas. The 7th ISABS conference in forensic, anthropologic and medical genetics and Mayo clinic Lectures in Translational Medicine, First Croatian Human Genetics Conference, Bol, 20-24 lipanj 2011.
14. Kafka Anja, Sukser Viktorija, Čonda Martina, Tomas Davor, Nikuševa Martić Tamara, Marković Leon, Okštajner Petar Krešimir, **Pecina-Šlaus Nives**. Transcription factors TCF-1 and LEF-1 involved in Wnt signaling are strongly expressed in glioblastoma. Period Biol, Vol 114, Suppl 1, 2012.
15. **Pecina-Šlaus N**, Zeljko M, Kafka A, Tomas D (2013) Brain metastases from lung cancer show

- frequent changes of E-cadherin, APC and beta-catenin genes. 4th Croatian neuroscience congress, Zagreb, Croatia, September 20-21, 2013.
16. Kafka A, Pećina-Šlaus N. (2014) Changes in gene structure and protein expression of DVL1, DVL2, DVL3 and transcription factors TCF1 and LEF1 in astrocytic brain tumors. PhD Day, Zagreb, Croatia, May 24, 2014.

4. Pozvana predavanja

a) na međunarodnim skupovima

1. **Pećina-Šlaus, Nives**; [Genetic Instabilities of the E-cadherin gene \(CDH1\) in renal cell carcinoma](#). The 12th Ljudevit Jurak International Symposium on Comparative Pathology. Zagreb, 2001.
2. **Pećina-Šlaus, Nives**. Wnt signaling in human brain tumors. 13th World Congress on Advances in Oncology and 11th International Symposium on Molecular Medicine 9-11 October, 2008, Hersonissos, Crete, Greece.
3. **Pećina-Šlaus, N**. New insights in the genetics of pheochromocytoma. 21st Ljudevit Jurak International Symposium on comparative Pathology. Main topic Endocrine Pathology. Zagreb, June 4-5, 2010.
4. **Nives Pećina-Šlaus**, Molecular components of the WNT signaling are changed in meningioma. Target Meeting, Genetics & Genomics Online Conference held on May 17-19, 2012
5. **Pećina-Šlaus N**. Molecular changes of Wnt signaling play important roles in astrocytic tumor etiology. TM's 3rd World Genetics & Genomics Online Conference, May 20-22, 2014.

b) na domaćim skupovima

1. **Pećina-Šlaus N**. Automatizirana sinteza oligonukleotida i njihovo pročišćavanje. Simpozij HAZU "Novi aspekti molekularne medicine", 1992, Zagreb, Croatia.
2. **Pećina-Šlaus, Nives**: Genetsko molekularni aspekti apoptoze- zajedničkog obilježja svih živih organizama. Akademija Medicinskih znanosti Hrvatske, kolegij Temeljnih medicinskih znanosti AMZH, Odbor za apoptozu, Apoptoza – programirana smrt stanice jedan od temeljnih životnih procesa. 5. ožujak, 2009, Zagreb, HLZ
3. **Pećina-Šlaus, N**. Signalni put Wnt i apoptoza. Akademija Medicinskih znanosti Hrvatske, Zagreb, 23.03. 2010, Medicinski fakultet, Zagreb.

5. Stručni radovi

1. **Pećina-Šlaus, N**. Gender testing of athletes by recombinant DNA methods. Croat Sports Med J, 10: 35-39, 1995.
2. Radić, K., **Pećina-Šlaus, N**. Cistična fibroza: molekularna biologija i mogućnosti liječenja, Medicinar 42:49-53, 2000.
3. **Pećina-Šlaus, N**, Nikuševa-Martić, T. RNA smetanje: grimizne petunije otkrivaju novi lijek protiv raka. Medicinar 44:38-39, 2002.
4. **Pećina-Šlaus, N**., Nikuševa-Martić, T., Radić, K., Bulić-Jakuš, F. Operon – regulacija genske ekspresije u prokariota. Medicinar 44: 38-39, 2003.
5. **Pećina-Šlaus N**, Bulić-Jakuš F, Radić K. [Tumor supresorski geni](#). Medicinar. 46, 2; 44-47, 2005.
6. Pećina-Šlaus, N. [Laboratory of Neurooncology](#). mef.hr (Zagreb University School of Medicine Official Journal). 24, 1; 31, 2005.
7. Kokotović T, **Pećina-Šlaus, N**. GFP protein koji svijetli zeleno. Priroda: časopis za popularizaciju prirodnih znanosti.,srpanj/kolovoz 2006.
8. Sabalić M, **Pećina-Šlaus N**. [Moćna antitijela nove medicine](#). Priroda: časopis za popularizaciju prirodnih znanosti. 12, 963; 34-37, 2007.

[\[Korisniki\]](#)

Interests

She is a member of Croatian Society of Human Genetics, Croatian Medical Association, Croatian Biological Society, European Society for Human Genetics, European Association for Cancer Research, Croatian Society for Neuroscience. She acts as a reviewer for Ministry of Science, Education and Sports Croatia, for Slovenian Research Agency (ARRS) for National council for university education, many scientific peer-reviewed journals. She is a member on editorial boards of scientific journals Frontiers in Bioscience, Acta Clinica

Croatica, Cancer Cell International, Croatian Medical Journal and Journal of Cancer Science and Therapy.

Hobby

Nature

izv. prof. dr. sc. Berislav Perić



Courses

- [Sinus lifting-evaluation of different operating technics](#)

doc. dr. sc. Kristina Peroš



Phone: +38514566957
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 Biography: Šalata 11
 Year of graduation: 2000
 MSc thesis: 2005
 PhD thesis: 2008

Courses

- [Determination of fluoride in human enamel after treatment with topical fluoride agents](#)

Projects

"Croatian Pharmacological terminology - FARMANA", Struna-2016-05-03, Croatian Science Foundation

"The mineral composition of saliva and subgingival microbial flora in young smokers,"
 University Support

Publications

1. Vuletic L, **Peros K**, Spalj S, Rogic D, Alajbeg I. Time-related changes in pH value, buffering capacity, and phosphate and urea concentration of stimulated saliva. *Oral Health & Preventive Dentistry*. 2014;12(1):45-53.
2. Šutej I, **Peroš K**, Benutić A, Capak K, Bašić K, Rošin-Grget K. [Salivary calcium concentration and periodontal health of young adults in relation to tobacco smoking](#). *Oral Health & Preventive Dentistry*. 2012;10(4):397-403.
3. [Vodanović M, Peroš K, Zukanović A, Knežević M, Novak M, Šlaus M, Brkić H](#). Periodontal diseases at the transition from the late antique to the early mediaeval period in Croatia. *Archives of oral biology*. 2012;57(10):1362-76.
4. Vodanović M, Galić I, Strujić M, **Peroš K**, Šlaus M, Brkić H. [Orthodontic anomalies and malocclusions in Late Antique and Early Mediaeval period in Croatia](#). *Archives of oral biology*. 2012;57(4):401-12.
5. **Peroš K**, Meštrović S, Anić-Milošević S, Šlaj M. [Salivary microbial and non-microbial parameters in children with fixed orthodontic appliances](#). *Angle orthodontist*. 2011; 81:901-6.
6. **Peroš K**, Vodanović M, Meštrović S, Rošin-Grget K, Valić M. [Physical Fitness Course in the Dental Curriculum and Prevention of Low Back Pain](#). *Journal of dental education*. 2011;75(6):761-7.
7. Valić M, Pecotić R, Pavlinac I, Valić Z, **Peroš K**, Đogaš Z. [Microinjection of methysergide into the raphe nucleus attenuated phrenic long term facilitation in rats](#). *Experimental Brain research*. 2010;202(3):583-9.
8. Valic M, Pecotic R, Lusic L, **Peros K**, Pribudic Z, Dogas Z. The relationship between sleep habits and academic performance in dental students in Croatia. *European Journal of Dental Education*. 2014;18:187-194.
9. Valic M, Giacomi J, Bozic J, Breskovic T, **Peros K**, Ticinovic Kurir T, Valic Z. Teaching physiology: blood pressure and heart rate changes in simulated diving. *Periodicum biologorum*. 2014;116(2):185-190.
10. **Peros K**, Mestrovic S, Anic-Milosevic S, Rosin-Grget K, Slaj M. [Antimicrobial effect of different brushing frequencies with fluoride toothpaste on Streptococcus mutans and Lactobacillus species in children with fixed orthodontic appliances](#). *The Korean Journal of Orthodontics*. 2012;42(05):263-9.

Interests

The area of scientific interest is the physiology and pharmacology of saliva in clinical and preclinical research of the mechanism of caries and pharmacological possibilities of preventing caries. Current research interests, as demonstrated by scientific papers and congress reports, are based on the research of the role of saliva and its chemical and biochemical properties in the emergence of diseases and preservation of health of the hard dental tissues and tissue supporting apparatus of teeth.

2008.EPHAR, IUPHAR

Mladen Petrovečki



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Biography: KB Dubrava, Avenija G. Šuška 6, Zgb. (glavna bolnička zgrada, prizemlje, Klinički zavod za laboratorijsku dijagnostiku, hodnik D2, soba 14)

Biography: <https://portal.uniri.hr/portfelj/mladen.petrovecki@uniri.hr>

Year of graduation: 1985

MSc thesis: 1991

PhD thesis: 1994

Courses

- [Biostatistics](#)

Biography

Professor Mladen Petrovečki, physician, born in 1960 in Zagreb, graduated from the Faculty of Medicine, University of Zagreb. He is a Full Professor of Medical Informatics at the University of Rijeka in tenure, chairman of the Department of Medical Informatics of the same Faculty, Head of Immunology of the Clinical Institute of Laboratory Medicine, University Hospital Dubrava, Zagreb and Head of the College of Statistics at the graduate and doctoral studies at the University of Pharmacy and Biochemistry in Zagreb. From March 2005 to September 2006 he served as Assistant Minister for Science at the Ministry of Science, Education and Sports. He was head of the Working Group for preparation of negotiations accession to the European Union for Chapter 25, "Science and Research". He deals with the laboratory immunology and in vitro cultures of hematopoietic stem cells. In teaching and research he is engaged in Medical Informatics, Biostatistics, Theory of Scientific Research and Scientific Integrity. He is statistical editor of the Croatian Medical Journal, statistical consultant and reviewer of the Lancet, Acta Stomatologica Croatica and Biochemia Medica journals, and advisor for medical informatics editorial board of the Medix journal. He is author and co-author of numerous scientific and technical reports, of which more than sixty scientific papers are published in journals cited in the Current Contents database.

Projects

- "Attitude towards scientific plagiarism, its prevalence and characteristics", project leader, from February 2014, University of Rijeka;
- "Acceptance and understanding of the principles of scientific ethics staff of the University of Rijeka", act. participant, October 1, 2012 to June 30, 2013, University of Rijeka;
- "Genetics and function of hematopoietic microenvironment and Ph-myeloproliferative diseases," act. participation, No. 108-1980955-3094, Ministry of Science, Education and Sports (since 2008);
- "Prevalence and attitudes towards plagiarism in biomedical publishing", act. participation, International Association for Ethics publication - COPE (The Committee on Publication Ethics) (2010);
- "The frequency and attitudes about unauthorized downloading of copyright ownership", project leader, No. 062-0000000-3552, Ministry of Science, Education and Sports (2008-2011);
- "Prevalence, characteristics and attitudes toward plagiarism in medicine", head, No. 0062044, Ministry of Science, Education and Sport (2002- 2006).

Publications

- Polašek O, Mavrinac M, Jović A, Džono Boban A, Biočina-Lukenda D, Glivetić T, Vasilj I, Petrovečki M. Undergraduate grade point average is a poor predictor of scientific productivity later in career. Coll Antropol 2010;34(Suppl 1):1-5.

- Boras J, Ljubić S, Car N, Metelko N, Petrovečki M, Lovrenčić MV, Reiner Z. Lipoprotein(a) predicts progression of carotid artery intima-media thickening in patients with type 2 diab up. *Wien Klin Wochenschr* 2010;122:159-64.
- Romic Z, Derek L, Burek V, Unic A, Serdar T, Marijančević D, Morovic-Vergles J, Mitrovic J, Petrovecki M. Anti-cyclic citrullinated peptide and rheumatoid factor in HIV positive patients. *Rheumatol Int* 2010 May 27. [Epub ahead of print. DOI 10.1007/s00296-010-1539-6].
- Mavrinac M, Brumini G, Bilić-Zulle L, Petrovečki M. Construction and validation of Attitudes Toward Plagiarism Questionnaire. *Croat Med J* 2010;51:195-201.
- Buljanović V, Patajac H, Petrovečki M. Clinical laboratory as an economic model for business performance analysis. *Croat Med J* 2011;52:513-19.
- Brkić H, Vodanović M, Dumančić J, Lovrić Ž, Žuković-Bagić I, Petrovečki M. The chronology of third molar eruption in the Croatian population. *Coll Antropol* 2011;35:353-7.
- Baždarić K, Bilić-Zulle L, Brumini G, Petrovečki M. Prevalence of plagiarism in recent submissions to the Croatian Medical Journal. DOI 10.1007/s11948-011-9347-2.
- Kardum D, Fabijanić D, Lukić A, Romić Ž, Petrovečki M, Bogdanović Z, Jurić K, Urek-Crnčević M, Banić M. Correlation of endothelin-1 concentration and angiotensin-converting enzyme activity with the staging of liver fibrosis. *Coll Antropol* 2012;36:413-8.
- Serdar T, Derek L, Unic A, Marijančević D, Marković Đ, Primorac A, Petrovečki M. Evaluation of Occupational Exposures in Healthcare Workers in University Hospital Dubrava: 10-year Follow-up Study. *Central Eur J Public Health* 2013;21(3):150-4.
- Baždarić K, Mavrinac M, Pupovac V, Bilić-Zulle L, Brumini G, Petrovečki M. Measuring prevalence and characteristics of scientific plagiarism: Design of the study. 21. International Symposium on Biostatistics "BioStat 2014".

Interests

- 2013, Croatian Allergology and Clinical Immunology Society
- 2012, Croatian Society for Mucous Membrane Immunology
- 1995, Croatian Biometric Society
- 1992, Croatian Immunology Society
- 1991, Croatian Society for Medical Informatics
- 1985, Croatian Medical Association

Hobby

- short stories and novels

prof. dr. sc. Darije Plančak



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 Biography: Zavod za parodontologiju
 Year of graduation: 1981
 MSc thesis: 1986
 PhD thesis: 1993

Courses

- [Epidemiological and systemic aspects in the epidemiology of periodontal diseases](#)

Biography

Professor Darije Plančak, PhD is a master of medical sciences in the field of dental medicine, doctor of medical sciences in the field of dental medicine, specialist in dental and oral pathology with periodontology, full professor at the School of Dental Medicine, University of Zagreb. He graduated in 1981 at the School of Dental Medicine in Zagreb, where he also completed his postgraduate studies in periodontology. Since 1984, after completion of the internship, he has been working at the Department of Periodontology, School of Dental Medicine. He received his MSc in 1986 and his PhD in 1994. He completed an exam in Dental and Oral Pathology with Periodontology in 1991. He especially deals with the epidemiology of periodontal diseases and treatment of furcation involvement. He has published over 100 scientific papers and articles. He has participated in several international professional and scientific conferences. He is the President of the Croatian Society for Periodontology (Croatian Medical Association), and is a member of the Croatian Medical Association, Dental society of Croatian Medical Association, International Association for Dental Research, International Academy of Periodontology, and Croatian Endodontic Society. From 1999 to 2003 he was the vice president of the Croatian Chamber of Dental Medicine. At the School of Dental Medicine he was a member of many committees. He is a member of the international editorial board of the journal *Acta Stomatologica Croatica*, from 1990 to 1995 and from 2006 to the present. He holds the position of the Head of Department of Periodontology, School of Dental Medicine since 2007, and the position of the Head of the Clinical Department of Periodontology, Dental Clinic of Clinical Hospital Center Zagreb since 1998.

Projects

- associate on the Project 57 SIZ V (1981-86): "The collection of epidemiological data on the incidence of periodontal and other diseases in SR Croatia"
- associate on the project of the city of Zagreb (1984-86): "The incidence of oral disease and treatment needs in the population of the municipality of Zagreb"
- associate on the project of the Ministry of Science and Technology R Croatia No.3-02-280 (1991-93): "Orofacial anomalies and general genetic disorders."
- head of the scientific research project "The incidence of periodontal disease and caries in Croatia (0065102). (2002-2005), Ministry of Science, Education and Sport of the Republic of Croatia.
- head of the project "The prevalence of periodontal disease and caries in the City of Zagreb" for 2003, funded by the City of Zagreb, City Office for Health, Labor and Social Welfare.
- head of the project "Promoting periodontal health" for 2011, funded by the City of Zagreb, City Office for Health, Labor and Social Welfare.
- head of the scientific research project "Systemic aspects in the ethiology of periodontal diseases" (No.: 065-0650444-0415) (2007 to 2013), Ministry of Science, Education and Sport of the Republic of Croatia

Publications

LIST OF PUBLISHED SCIENTIFIC AND PROFESSIONAL PAPERS

I Master thesis:

Plančak D. Epidemiološka ispitivanja prevalencije parodontnih bolesti na teritoriju gradske zajednice općina Zagreb. *Sveučilište u Zagrebu, 1986. Master thesis.*

II PhD thesis:

Plančak D. Endokrinološki status kod uznapredovale parodontne bolesti. *Zagreb, Sveučilište u Zagrebu 1993. PhD thesis.*

III Monograph:

Book chapters:

Plančak D. Učestalost oralnih bolesti i Potrebe stomatološke zaštite u populacije zajednica općina Zagreb. U: Aurer Koželj J, Vouk M i sur. Oralne bolesti u SR Hrvatskoj - učestalost i mjere sprečavanja, Znanstvena monografija, Zagreb, JUMENA 1989 : 227-236.

Plančak D. Quo vadis parodontologia. In: Jubilarni simpozij Osamdeset godina života i šezdeset godina predanosti stomatologiji akademika Berislava Topića, Sarajevo; Akademija nauka i umjetnosti Bosne i Hercegovine, 2011:19-25.

Plančak D. Gingivalna recesija, poglavlje u Sveučilišnom udžbeniku: Brkić H, Čuković-Bagić I, Plančak D, Rustemović N, Tarle Z. Dentalna Erozija, Školska knjiga, Zagreb 2011 :39-53.

IV Educational texts:

Chapters in the script:

Plančak D. Stomatološka propedeutika i dijagnostika. Parodontologija. U: Kobler P i sur. Stomatološka dijagnostika i propedeutika. Ispitno štivo, Zagreb 1996 : 97-102.

V Journal papers:

Journal papers in Current Contents

1. Bačić M, **Plančak D**, Granić M. CPITN Assessment of Periodontal Disease in Diabetic Patients. *J Periodontol* 1988; 59 : 816-822.
2. Bačić M, Ciglar I, Granić M, **Plančak D**, Štalo J. Dental status in a group of adult diabetic patients. *Community Dent Oral Epidemiol* 1989; 17 : 313-316.
3. Pavelić B, **Plančak D**, Perić B. Histological different in epithelial linings between follicular and radicular cysts. *Coll Antropol* 1998; 22(Suppl): 167-72.
4. **Plančak D**, Vizner B, Jorgić-Srdjak K, Šljaj M. Endocrinological status of patients with periodontal disease. *Coll Antropol* 1998; 22(Suppl): 51-6.
5. Jorgić-Srdjak K, **Plančak D**, Bošnjak A, Azinović Z. Incidence and distribution of dehiscences and fenestration in human skulls. *Coll Antropol* 1998; 22(Suppl): 111-6.
6. Jorgić-Srdjak K, **Plančak D**, Bošnjak A, Maričević T. 10-years evaluation of conservative and surgical treatment of gingival recession. *Coll Antropol* 2000; 24:2
7. Bošnjak A, Curilović Z, Vučićević-Boras V, **Plančak D**, Jorgić-Srdjak K, Relja T, Božić D, Varnica H.

- Prevalence of gingivitis in 6-to 11 year old children. Eur J Med Res 2003;313-7.
8. Špalj S, **Plančak D**. The Distribution of periodontal Disease and Loss of Attachment in Jaw Sextants in Different Age Groups-Cross-Sectional Study. Coll Antropol 2003 (suppl.1) ;27: 183-190.
 9. **Plančak D**, Špalj S, Jurić H, Bošnjak A. Degree of correlation between two periodontal indices in rural Croatian population. Int Dent Jour 2004;54:261-268.
 10. Cindrić G, Aurer A, **Plančak D**, Jindra Lj, Girotto M. Lymphocyte Subpopulation and the Expression of Intercellular Adhesion Molecules in Chronic Periodontitis. Coll. Antropol. 2004;28:825-832.
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- implantologiju), *Acta Stomatol Croat* 2005;39: 268-269.
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 29. Šutej, I; Rošin-Grget, K; Plančak, D; Linčir, I. Nicotine and periodontal health of adolescents. *Periodicum biologorum*, sažetak s 5th Croatian Congress of Pharmacology and 2nd Congress of Croatian Physiological Society. Osijek, Hrvatska, 19-22.9.2007. : 98.
 30. Plančak, Darije; Kapudija, Amalija; Puhar, Ivan; Bošnjak, Andrija; Kašaj, Adrian. [Ispitivanje učinkovitosti elektro-neuromuskularne stimulacije u liječenju kroničnog parodontitisa – kliničko randomizirano ispitivanje](#) (sažetak usmenog priopćenja sa 4. međunarodnog kongresa Hrvatskog stomatološkog društva HLZ-a, Zagreb 13-15.11.2008)// *Acta Stomatologica Croatica*. 2008;42(4):382
 31. Puhar, Ivan; Plančak, Darije; Mikulić, Valentina; Spajić, Renata; Božić, Darko. [Radiološka evaluacija donjih molara sa zahvaćenim furkacijama](#) (sažetak usmenog priopćenja sa 4. međunarodnog kongresa Hrvatskog stomatološkog društva HLZ-a, Zagreb 13-15.11.2008)// *Acta Stomatologica Croatica*. 2008;42(4):381.
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 33. Božić, Darko; Grgurević, Lovorka; Plančak, Darije; Erjavec, Igor; Brkljačić, Jelena; Orlić, Iva; Razdorov, Genadij; Vukičević, Slobodan. [BMP7 EFFECTS ON EARLY PROTEOME AND GENE EXPRESSION PROFILE OF CEMENTOBLASTIC CELL LINE IN VITRO](#) // *Abstract Book of the 8th International Conference on Bone Morphogenetic Proteins*. Leuven, 2010. 117-117 (poster, međunarodna recenzija, sažetak, znanstveni)
 34. Bozic D, Plančak D, Badovinac A, Vražić D, Jelusic D, Puhar I. Treatment of Deep Cervical Abrasions in Multiple Recession Defects with Connective Tissue Graft. Book of abstracts, Future Trends in Implantology, International Dental Conference. Florence 2010 :103.
 35. Božić D, Vražić D, Badovinac A, Puhar I, Plančak D. Terapija intrakoštanog defekta s humanim trombocitnim faktorom rasta i beta trikalcijevim fosfatom. Sažetak s kongresa „Hrvatski parodontološki dani 2011“, Zagreb 6-7 Svibanj 2011- *Acta Stomatol Croat* 2011;45: 147.
 36. Roguljić M, Varnica Z, Plančak D, Šljaj M. Frenektomija gornjih središnjih sjekutiča kod ortodontskog pacijenta. Sažetak s kongresa „Hrvatski parodontološki dani 2011“, Zagreb 6-7 Svibanj 2011- *Acta Stomatol Croat* 2011;45: 148.
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 38. Pavelić B, Plančak D. Primjena biooksidacijske terapije u liječenju periimplantitisa. Sažetak s 4. Međunarodnog kongresa za dentalnu implantologiju, Opatija 6-8. listopada 2011.
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 40. Plančak D. Komplikacije na parodontu nakon implantoprotetske rehabilitacije., 17. Slovenski parodontološki dnevni, Bled 13-14. 4. 2012 :8. Sažetak pozivnog predavanja
 41. Plančak D. Conservative vs. Surgical periodontal therapy. 6th Congress of Macedonian Dental Society with international participation.. Ohrid 24.-27. May 2012 : 48-49. (Sažetak plenarnog predavanja)
 42. Puhar I, Vražić D, Badovinac A, Božić, Plančak D, Huzjan Lovrenčić A. povezanost parodontitisa i aterosklerotskih promjena karotidnih arterija. Sažetak s kongresa „Hrvatski parodontološki dani 2013“, Zagreb 26-27 Travanj 2013- *Acta Stomatol Croat* 2013;47(2): 182. (Oralna prezentacija)
 43. Vražić D, Puhar I, Badovinac A, Božić D, Plančak D. Posljedice izostanka suradnje kod pacijenta oboljelog od parodontitisa kao manifestacije sustavne bolesti (diabetes tip 1). Sažetak s kongresa „Hrvatski parodontološki dani 2013“, Zagreb 26-27 Travanj 2013- *Acta Stomatol Croat* 2013;47(2): 183. (oralna prezentacija)
 44. Đurkan K, Puhar I, Plančak D, Piskač M. Autologni antagonist receptora interleukina 1 (ORTTHOKIN) i ortodontski pomak u terapiji agresivnog parodontitisa. Sažetak s kongresa „Hrvatski parodontološki dani 2013“, Zagreb 26-27 Travanj 2013- *Acta Stomatol Croat* 2013;47(2): 184. (poster prezentacija)
 45. Jakšić J, Plančak D. proširenje pojasa pričvrzne gingive bezubog grebena prije protetske terapije implantatima – prikaz slučaja. Sažetak s kongresa „Hrvatski parodontološki dani 2013“, Zagreb 26-27 Travanj 2013- *Acta Stomatol Croat* 2013;47(2): 185. (poster prezentacija)
 46. Kostelić Stunić M, Plančak D. Upotreba derivata caklinskog matrikasa u kombinaciji sa aloplastičnim

- koštanim nadomjestkom u liječenju parodontitisa – prikaz slučaja. Sažetak s kongresa „Hrvatski parodontološki dani 2013“, Zagreb 26-27 Travanj 2013- Acta Stomatol Croat 2013;47(2): 186.(poster prezentacija)
47. Prpić J, Pandurić V, Plančak D. terapija parodontnog apscesa donjeg središnjeg inciziva-prikaz slučaja. Sažetak s kongresa „Hrvatski parodontološki dani 2013“, Zagreb 26-27 Travanj 2013- Acta Stomatol Croat 2013;47(2): 188.(poster prezentacija)
48. Roguljić M, Božić D, Plančak D, Čurić A. kirurška terapija višestrukih recesija gingive. Sažetak s kongresa „Hrvatski parodontološki dani 2013“, Zagreb 26-27 Travanj 2013- Acta Stomatol Croat 2013;47(2): 188.(poster prezentacija)

Interests

- Member of Croatian Medical Association, Croatian Dental Society, International Association for Dental Research, International Academy of Periodontology, Croatian Endodontic Society and chairman of Croatian Society of Periodontology.
- Member of Croatian Dental Society, vice-chairman of Croatian Dental Society from 1999 till 2003
- Was a member of numerous committees at School of Dental Medicine, now member of the Board for lecturers' election, Board for science, Board for granting Rector's award and Board for postgraduate specialized studies
- Member of International editorial board of the journal Acta Stomatologica Croatica from 1990 till 1995 and since 2006 till today
- Participated actively in Croatian War of Independence, testimonial holder of Croatian War of Independence 1990-1992 and was granted Medal "of Oluja" action in 1995

Hobby

- Head of department /Clinic of Periodontology, School of Dental Medicine in Zagreb
- Principal of Periodontology Clinic, Dental Clinic, Clinical Hospital Centre
- Head of specialization in periodontology
- chairman of Croatian Society of Periodontology
- Vice-chairman of Croatian Society of Dental Implantology
- Organizer/head and participant in courses of permanent education of dentists at School of Dental Medicine
- Was a chairman of Governing council of School of Dental Polyclinic Zagreb and member of governing councils of Medical Institution Centar, Public Health Institute Dr Andrija Štampar

izv. prof. dr. sc. Katica Prskalo



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 Biography: 213, 126, 136
 Year of graduation: 1986
 MSc thesis: 1991
 PhD thesis: 1996

Courses

- [Experimental evaluation of glass ionomer cements](#)

Biography

Associate Professor Katica Prskalo was born on December 9th 1962. in Stari Slatnik (Slavonski Brod).

Education:

1981. Graduated from Middle School as a major in Health and Medicine/Nursing

1981-1986. attended School of Dental Medicine, University of Zagreb.

November 20th 1986 graduated from School of Dental Medicine University of Zagreb with average grade 4,3

April 28th 1988, passed expert government exam and got license for practicing dentistry as a Dentist.

1987-1989. enrolls in postgraduate study at Dental School University of Zagreb and got a scholarship of Ministry of Science

July 10.th 1991. got Masters Degree named "Value of Bennett movement in regard to occlusion".

1992-1995. Residency in Dental, Oral Pathology and Parodontology.

April 15.th passed residency exam in Dental, Oral Pathology and Parodontology at the Clinical Medical Center Zagreb.

November 29.th passed thesis named Influence of Polyethylene fibers to the characteristics of composite materials.

November 15.th 1999. had inaugural lecture Parodontitis apicalis acute at Clinical Hospital Dubrava.

Employment:

During the study she demonstrated at the clinical study exercises at the Department of Physiology and Department of Removable Prosthodontics.

March 1.st 1987. till February 28.th 1988 internship at Dental Clinic Zagreb.

October 13.th 1989. Department of Dental Pathology (now Department of endodontic and restorative dentistry) School of Dental Medicine University of Zagreb.

November 2.nd 1996. Department for Dental Pathology, Dental Clinic Zagreb.

Projects

2012-2015. "Evaluation of new bioactive materials and procedures in restorative dental medicine" - Croatia Science foundation.

International project

2014. (pending) CED-IADR Regional Development Project "Bulk versus incremental layering of composite:

a practice-based, randomized, controlled, prospective clinical study". ("CED-IADR PBRN project").

Publications

1. ŠANTIĆ A, ČALOGOVIĆ M, PAVIĆ L, GLADIĆ J, VUČIĆ Z, LOVRIĆ D, **PRSKALO K**, JANKOVIĆ B, TARLE Z, MOGUŠ-MILANKOVIĆ A. New Insights into the Setting Processes of Glass Ionomer Cements from Analysis of Dielectric Properties. *J Am Ceram Soc.* 2015;98 [12] 3869–76.
2. MOGUŠ-MILANKOVIĆ A, SKLEPIĆ K, ČALOGOVIĆ M, MARCIJUŠ M, **PRSKALO K**, JANKOVIĆ B, TARLE Z. [Impedance as a measure of setting reaction in glass ionomer cements](#). *J of non-crystalline solids.* 2014;389:93–103.
3. HALBAUER K, **PRSKALO K**, JANKOVIĆ B, TARLE Z, PANDURIĆ V, KALENIĆ S. Efficacy of Ozone on Microorganisms in the Tooth Root Canal. *Coll Antropol.* 2013;(37):101–7.
4. MAROVIĆ D, PANDURIĆ V, TARLE Z, RISTIĆ M, SARIRI K, DEMOLI N, KLARIĆ E, JANKOVIĆ B, **PRSKALO K**. Degree of conversion and microhardness of dental composite resin materials. *J Mol Struc.* 2013;1044:299–302.
5. TARLE Z, KNEŽEVIĆ A, MATOŠEVIĆ D, ŠKRTIĆ D, RISTIĆ M, **PRSKALO K**, MUSIC S. Degree of vinyl conversion in experimental amorphous calcium phosphate composites. *J Mol Structure.* 2009; 924-926: 161–5.
6. PANDURIĆ V, MRAKUŽIĆ M, TARLE Z, **PRSKALO K**, KATANEC D, JANKOVIĆ B, GABRIĆ-PANDURIĆ D. The prevalence of proximal fractures of dental crowns with amalgam fillings. *Coll Antropol.* 2009;33(2):449–53.
7. PANDURIĆ V, TARLE Z, HAMERŠAK Z, STIPETIĆ I, MATOŠEVIĆ D, NEGOVETIĆ-MANDIĆ V, **PRSKALO K**. Detection of HEMA in self-etching adhesive system using high performance liquid chromatography. *J Mol Structure.* 2009; 924-926: 358–60.
8. **PRSKALO K**, ZJAČA K, ŠKARIĆ-JURIĆ T, NIKOLIĆ I, ANIĆ- MILOŠEVIĆ S, LAUC T. The Prevalence of Lateral Incisor Hypodontia and Canine Impaction in Croatian Population. *Coll Antropol.* 2008;32(4):1105–9.
9. ŠUTALO J, SIMEON P, TARLE Z, **PRSKALO K**, PEVALEK J, UDOVIČIĆ M. “C”- shaped Canal Configuration of Mandibular Second Permanent Molar. *Coll Antropol.* 1998;1(22):179–186.
10. ANIĆ I, ŠEGOVIĆ S, KATANEC D, **PRSKALO K**, NAJŽAR-FLEGER D, MATSUMOTO K. Scanning electron microscopic study of dentin lased with argon, CO₂ and Nd:YAG laser. *J Endodont.* 1998;24(2):77–81.
11. KLARIĆ E, MARCIJUŠ M, RISTIĆ M, SEVER I, **PRSKALO K**, TARLE Z. Surface changes of enamel and dentine after two different bleaching procedures. *Acta Clin Croat.* 2013; Dec52(4):419–29

Interests

Scientific and Clinical work is mostly related to research of materials for restoration of hard dental tissue, toxicity of dental amalgam, etiology and appearance of black stain of hard dental tissue, laser diagnostic of caries lesion, Ozone applying in dentistry and tooth bleaching procedures.

Member of Croatian Dental Chamber, Croatian medical board, Croatian endodontic society, European endodontic society, International Association for Dental Research, Croatian catholic medical society.

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Biography: KBC Sestre milosrdnice, Klinika za onkologiju i nuklearnu medicinu, laboratorij, soba 62, Vinogradska cesta 29

Year of graduation: 2000

PhD thesis: 2006

Courses

- [Laboratory methods in imunology: polymerase chain reaction and flow cytometry](#)

Biography

Ivan Šamija was born in Zagreb, Croatia in 1976. He studied molecular biology at the University of Zagreb, Faculty of Science and graduated in 2000 obtaining a degree of graduate engineer in biology, field of molecular biology. In 2006 he finished a postgraduate study of biology, field of study immunobiology and physiology at the same University and obtained a Ph.D. degree in the scientific area of natural sciences. Since 2011 he is senior research associate in the scientific area of biomedicine and health, field of basic medical sciences. Since 2000 he has been employed at the Clinical Hospital Centre Sestre milosrdnice, Department of Oncology and Nuclear Medicine, Zagreb, Croatia, first as junior researcher, and since 2008 as staff scientist, molecular biologist. From 2008 till 2009 (12 months) he performed postdoctoral research at National Institutes of Health, National Cancer Institute, Bethesda, USA. He participated as a researcher in several scientific projects. He was awarded Rector's Award of the University of Zagreb in 1997 and Postdoc stipend from the Croatian Science Foundation in 2008. He has participated at teaching several courses on undergraduate, graduate and postgraduate level at the University of Zagreb School of Medicine, School of Dental Medicine and Faculty of Science. He is a mentor of two defended doctoral dissertations. Since 2015 he is employed as Assistant Professor and Head of Chair of Immunology at University of Zagreb School of Dental Medicine. He is an author on 74 scientific papers including abstracts in conference books of abstracts, of which 13 full scientific papers published in Current Contents and Science Citation Index listed journals. He is a collaborator or chapter author in 12 scientific books of which 6 university textbooks. His main scientific interests are application of molecular biology and immunology in cancer diagnostics, monoclonal antibodies as drugs for cancer and cancer immunology.

Publications

ORIGINAL SCIENTIFIC PAPERS IN CURRENT CONTENTS MAGAZINES:

Kust D, Šamija I, Kirac I, Radić J, Kovačević D, Kusić Z. Cytokeratin 20 positive cells in blood of colorectal cancer patients as an unfavorable prognostic marker. *Acta Clin Belg* 2016;71(4):235-43.

Radić J, Krušlin B, Šamija M, Ulamec M, Milošević M, Jazvić M, Šamija I, Grah JJ, Bolanča A, Kusić Z. Connexin 43 expression in primary colorectal carcinomas in patients with stage III and IV disease. *Anticancer Res* 2016;36(5):2189-96.

Šamija I, Lukač J, Končar Mubrin M, Kirac I, Kovačević D, Kusić Z. Detection of cytokeratin-20-positive cells in preoperative and postoperative blood samples from colorectal cancer patients by real-time RT-PCR. *Int J Biol Markers* 2013; 28(2):174-181.

Murčić J, Soldić Ž, Vrljić D, Šamija I, Kirac I, Bolanča A, Kusić Z. Quality of Life of Croatian Breast Cancer Patients Receiving Adjuvant Treatment – Comparison to Long-Term Breast Cancer Survivors. *Coll Antropol* 2012;36(4):1335-1341.

Šamija I, Mateša N, Lukac J, Kusic Z. Galectin-3 and CD44v6 as Markers for Preoperative Diagnosis of Thyroid Cancer by RT-PCR. *Diagn Mol Pathol* 2011; 20(4):233-241.

Šamija I, Lukač J, Marić-Brozić J, Buljan M, Alajbeg I, Kovačević D, Šitum M, Kusić Z. Prognostic value of

microphthalmia-associated transcription factor and tyrosinase as markers for circulating tumor cells detection in patients with melanoma. *Melanoma Res* 2010; 20(4):293-302.

Mateša N, Šamija I, Kusić Z. Accuracy of Fine Needle Aspiration Biopsy with and without the Use of Tumor Markers in Cytologically Indeterminate Thyroid Lesions. *Coll Antropol* 2010;34(1):53-57.

Baskar S, Suschak JM, Samija I, Srinivasan R, Childs RW, Pavletic SZ, Bishop MR, Rader C. A human monoclonal antibody drug and target discovery platform for B-cell chronic lymphocytic leukemia based on allogeneic hematopoietic stem cell transplantation and phage display. *Blood* 2009; 114(20):4494-4502.

Šamija I, Mateša N, Lukač J, Kusić Z. Thyroid fine-needle aspiration samples inadequate for reverse transcriptase-polymerase chain reaction analysis. *Cancer Cytopathology* 2008; 114(3):187-195.

Šamija I, Lukač J, Kusić Z, Šitum M, Šamija M. Detection of Disseminated Melanoma Cells by Reverse-Transcription – Polymerase Chain Reaction. *Coll Antropol* 2007;31(4):1187-1194.

Mateša N, Šamija I, Kusić Z. Galectin-3 and CD44v6 positivity by RT-PCR method in fine-needle aspirates of benign thyroid lesions. *Cytopathology* 2007;18(2):112-116.

Šamija I, Lukač J, Marić-Brozić J, Kusić Z. Microphthalmia transcription factor and tyrosinase as markers for detection of melanoma cells in the blood of melanoma patients by reverse transcription – polymerase chain reaction. *Croat Med J* 2004;45(2): 142-148.

Šamija M, Juretić A, Solarić M, Šamija I, Bingulac-Popović J, Grahovac B, Stanec M, Orešić V. RT-PCR detection of tyrosinase, gp100, MART1/Melan-A, and TRP-2 gene transcripts in peripheral blood of melanoma patients. *Croat Med J* 2001;42:477-482.

PAPERS IN OTHER MAGAZINES:

Šamija I. Molecular Markers for Personalized Approach to Patients with Melanoma. *Rad 520, Medical Sciences* 2014; 40:61-68.

Ivan Šamija, Josip Lukač, Zvonko Kusić. Microphthalmia-associated transcription factor (MITF) – from Waardenburg syndrome genetics to melanoma therapy. *Acta Medica Academica* 2010;39:175-193.

Ivan Šamija, Mirko Šamija, Zvonko Kusić. Detection of disseminated prostate cancer cells. *Medix – specialized medical magazine*, issue 60/61, November 2005.

ABSTRACTS IN CC MAGAZINES:

Šamija I, Mateša N, Kusić Z. Real-time RT-PCR analysis of galectin-3 expression in fine-needle aspirates of thyroid papillary carcinoma and thyroid non-neoplastic lesions. *Eur J Cancer* 2014; 50 (suppl. 5): S151. (23rd Biennial Congress of the European Association for Cancer Research, Munich, 5-8. July 2014.) (poster)

Mateša N, Šamija I, Lukač J, Kusić Z. qRT-PCR analysis of HMGA2 expression in FNA samples of thyroid papillary carcinoma and non-neoplastic thyroid lesions. *Acta Cytologica* 2013; 57 (suppl. 1): 32. (18th International Congress of Cytology, Paris, 26-30. May 2013.) (lecture)

Rendić-Miočević Z, Šamija I, Galetić V, Huljenić D, Jajac Brčić L, Solarić M, Belev B, Strnad M, Šamija M. Preventive diagnostics of breast cancer. *Annals of Oncology* 2013; 24 (suppl. 3): 14. (IMPAKT Breast Cancer Conference, Brussels, 2-4 May 2013.) (poster)

Mateša N, Šamija I, Lukač J, Kusić Z. HMGA2 expression in non-neoplastic thyroid lesions and thyroid papillary carcinoma by quantitative real-time RT-PCR. *Cytopathology* 2012; 23 (suppl. 1): 74. (37th European Congress of Cytopathology, Dubrovnik-Cavtat, 30. September – 3. October 2012.) (lecture)

Samija I, Lukac J, Koncar-Mubrin M, Kirac I, Kovacevic D, Kusic Z. Cytokeratin-20 as a marker for detection of circulating tumor cells in preoperative and postoperative blood samples from colorectal cancer patients. *Eur J Cancer* 2012; 48 (suppl. 5): S178. (22nd Biennial Congress of the European Association for Cancer Research, Barcelona, 7-10 July 2012) (poster)

Mateša N, Šamija I, Kusić Z. Do tumor markers help? Results with and without the use of tumor markers in cytologically indeterminate thyroid lesions. *J Cytopathol* 2009; 20 (suppl. 1):112. (35th European Congress of Cytology, Lisbon, 27. – 30 September 2009) (poster)

Mateša N, Šamija I, Kusić Z. Causes and solutions in inadequate thyroid fine needle aspiration samples for reverse transcriptase polymer chain reaction analysis. *Acta Cytologica* 2007;51(2):347-347 (Suppl. S) (16th International Congress of Cytology, Vancouver, 13-17 May 2007) (poster)

Mateša N, Šamija I, Tabain I, Hrašćan R, Kusić Z. Cytomorphological changes and Galectin-3 and CD44v6 positivity by RT-PCR method in benign thyroid lesions. *J Cytopathol* 2005 16(Suppl.2):3. (31st European Congress of Cytology, Paris, 2-5 October 2005) (poster, oral presentation)

ABSTRACTS IN OTHER MAGAZINES:

Šamija I, Kust D, Kirac I, Kovačević D, Kusić Z. Prognostic value of cytokeratin-20 positive cells detected by real-time RT-PCR in preoperative blood samples from colorectal cancer patients. *Period Biol* 2014; 116 (Suppl 1):61-61. (HDIR-3, Third Meeting of the Croatian Association for Cancer Research, Zagreb, November 6-7, 2014.) (abstract, poster)

Šamija I. Molecular Markers for Personalized Approach to Patients with Melanoma. *Rad 520, Medical Sciences* 2014; 40:61-68. (The First Croatian Symposium on Personalized Oncology, Zagreb, 25. listopada 2013.) (full paper, invited lecture)

Šamija I, Lukač J, Marić-Brozić J, Šitum M, Kusić Z. Microphthalmia-associated transcription factor as marker for detection of circulating melanoma cells in patients with stage I-III melanoma. *Period Biol* 2012; 114 (Suppl 1):36-36. (Second Meeting of the Croatian Association for Cancer Research, Zagreb, November 8-9, 2012.) (abstract, short talk)

Šamija I, Lukač J, Kusić Z. Molecular diagnostics of thyroid cancer. *Acta Clin Croat* 2007;46(Suppl.2):47-49 (1st Congress of Croatian Thyroid Society with international participation, Split, October 26-28. 2007.) (full paper, invited lecture)

Šamija I, Mateša N, Lukač J, Kusić Z. Galectin-3 expression in fine needle aspirates of cytologically indeterminate lesions of the thyroid. *Acta Clin Croat* 2007;46(Suppl.2):142 (1st Congress of Croatian Thyroid Society with international participation, Split, October 26-28. 2007.) (abstract, poster)

Šamija I, Mateša N, Lukač J, Kusić Z. CD44v6 as a marker for preoperative diagnosis of cytologically indeterminate lesions of the thyroid. *Acta Clin Croat* 2007;46(Suppl.2):143 (1st Congress of Croatian Thyroid Society with international participation, Split, October 26-28. 2007.) (abstract, poster)

ABSTRACTS IN BOOKS OF ABSTRACTS:

Kožaj S, Šamija I. Tekuća biopsija u probiru, stratifikaciji i praćenju bolesnica s rakom dojke. [Liquid biopsy in screening, stratification and follow-up of patients with breast cancer.] XXVI znanstveni sastanak Bolesti dojke, Zagreb, 15. September 2016. (invited lecture)

Šamija I. Novi biljezi za rak prostate. [New markers for prostate cancer.] 3. znanstveni sastanak Tumori prostate, Zagreb, 27. November 2015. (invited lecture)

Solak Mekic M, Skenderovic A, Szrnetic K, Bulimbašić S, Rako D, Bedalov G, Šamija I, Cindrić M, Šamija M. Proteomika – pregled spoznaja i vlastiti rezultati. [Proteomics – literature review and own results.] 3. znanstveni sastanak Tumori prostate, Zagreb, 27. November 2015. (invited lecture)

Šamija I. Basic molecular mechanisms behind state-of-the-art breast cancer precision medicine. *Book of abstracts with final program. SIS European Congress on Breast Diseases / Zagreb: Croatian Senological Society, 2015. (SIS European Congress on Breast Diseases, Opatija, Croatia, October 22-25, 2015.)* (invited lecture)

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Skenderović A, Solak Mekić M, Srzentić K, Rako D, Bulimbašić S, Sović T, Bedalov G, Šamija I, Cindrić M, Šamija M. Applications of proteomics analysis in identification of prostate carcinoma biomarkers. 1st Regional Congress Education and Research in Oncology, Zagreb, 20-23. November 2013. (poster)

Rendić-Miočević Z, Šamija I, Galetić V, Huljenić D, Bahtijari S, Dešić S, Solarić M, Bručić Jajac L, Belev B, Strnad M, Šamija M. Preventive diagnostics of breast cancer. 1st Regional Congress Education and Research in Oncology, Zagreb, 20-23. November 2013. (poster)

Šamija I. Molekulski biljezi za personalizirani pristup bolesnicima s melanomom. [Molecular markers for personalized approach to patients with melanoma] Prvi znanstveni simpozij „Personalizirana onkologija“, Zagreb, 25. October 2013. (invited lecture, unpublished)

Šamija I, Marić-Brozić J, Lukač J, Kusić Z. Prognostic value of immune status parameters in patients with melanoma. 2nd Meeting of Middle-European Societies for Immunology and Allergology, Opatija, October 10th-13th 2013. (poster)

Šamija I, Lukač J, Kovačević D, Kusić Z. Detection of circulating cancer cells in peripheral blood samples obtained before and during surgery for colorectal cancer using cytokeratin-20 as a marker. Annual Meeting of the Croatian Immunological Society. Marija Bistrica, 5-6. October 2012. (poster, oral presentation)

Šamija I, Lukač J, Kusić Z. Novosti u istraživanju i primjeni monoklonskih protutijela u liječenju raka. [Novelties in the research and application of monoclonal antibodies for cancer treatment]. 6th Congress of Croatian Oncological Society. Dubrovnik, 28. March – 1. April 2012. (plenary lecture)

Šamija I, Lukač J, Kovačević D, Kusić Z. Detection of cancer cells in peripheral and mesenteric blood of colorectal cancer patients using cytokeratin 20 as a marker. Annual Meeting of the Croatian Immunological Society. Rabac, 7-9. October 2011. (poster, oral presentation)

Butorac A, Dodig I, Solak Mekić M, Rako D, Cindrić M, Bedalov G, Bulimbašić S, Balenović A, Šamija I, Šamija M. Quest for prostate tumor biomarkers by proteomic analysis in healthy and tumor tissue. 7th Central European Oncology Congress, A Best of ASCO Meeting. Opatija, 12-15. June 2011. (poster)

Šamija I, Lukač J, Kusić Z. Značenje genske analize u liječenju kolorektalnog raka. [Significance of genetic analysis in the treatment of colorectal cancer] 1st Symposium of Croatian Oncological Society with international participation – Tumors of Digestive System. Zagreb, 11-12. March 2011. (invited lecture)

Šamija I, Lukač J, Kusić Z. Cytokeratin 20 as a marker for detection of tumor cells in peripheral blood of colorectal cancer patients by reverse transcription polymerase-chain reaction. Annual Meeting of the Croatian Immunological Society. Mali Lošinj, 23-26. September 2010. (poster, oral presentation)

Šamija I, Lukač J, Kusić Z. Monoklonska protutijela u liječenju raka: najnovija dostignuća i inovacije [Monoclonal antibodies for cancer treatment: latest developments and innovations]. 5th Congress of Croatian Oncological Society. Cavtat, 23-28. March 2010. (plenary lecture)

Šamija I, Lukač J, Kusić Z. Molekularna dijagnostika melanoma [Molecular diagnostics of melanoma]. 5th Congress of Croatian Oncological Society. Cavtat, 23-28. March 2010. (invited lecture)

Šamija I, Lukač J, Marić-Brozić J, Šitum M, Kusić Z. Prognostic value of microphthalmia-associated transcription factor as a marker for the detection of circulating melanoma cells in patients with melanoma. Annual Meeting of the Croatian Immunological Society. Starigrad Paklenica, 1-4. October 2009. (poster, oral presentation)

Šamija I, Lukač J, Končar-Mubrin M, Marić-Brozić J, Šitum M, Kusić Z. Prognostic value of the detection of circulating melanoma cells by tyrosinase-specific RT-PCR in patients with melanoma. 6th Central European Oncology Congress. Opatija, 24-27 June 2009. (poster)

Baskar S, Levy JM, Samija I, Pavletic SZ, Bishop MR, Rader C. A human monoclonal antibody and antigen discovery platform based on allogeneic hematopoietic stem cell transplantation and phage display. Cancer Immunology and Immunotherapy: Realizing the Promise. National Institutes of Health, Bethesda, Maryland, USA, 11-12 September 2008. (poster)

Lukač J, Šamija I, Končar Mubrin M, Marić Brozić J, Šitum M, Kusić Z. Molekulska dijagnostika melanoma [Molecular diagnostics of melanoma]. 1st Scientific Symposium „Melanoma“, Croatian Academy of Sciences and Arts, Zagreb, 6. March 2008. (invited lecture)

Šamija I, Lukač J, Marić-Brozić J, Šitum M, Kusić Z. Microphthalmia-associated transcription factor as marker for detection of melanoma cells in peripheral blood of patients with melanoma: association with clinical stage and prognostic factors. Annual Meeting of the Croatian Immunological Society. Rovinj (Crveni otok), 19-21 October 2007. (poster)

Šamija I, Lukač J, Marić-Brozić J, Šitum M, Kusić Z. Tyrosinase as marker for detection of melanoma cells in peripheral blood of patients with melanoma: association with clinical stage and prognostic factors. 5th Central European Oncology Congress. Opatija, 20-23 June 2007. (poster, oral presentation)

Šamija I, Lukač J, Marić-Brozić J, Šitum M, Kusić Z. Correlation between proportions of different

lymphocyte subsets and presence of melanoma cells in blood of patients with melanoma. 16th European Congress of Immunology. Paris, 6-9 September 2006. (poster)

Šamija I, Lukač J, Kusić Z. Experimental melanoma drugs. 3rd Congress of Croatian Oncological Society. Zagreb, 15–18 March 2006. (invited lecture)

Marić-Brozić J, Šamija I, Lukač J, Bolanča A, Ikić D, Kusić Z. Interferon alpha in adjuvant melanoma therapy. 3rd Congress of Croatian Oncological Society. Zagreb, 15–18 March 2006. (invited lecture)

Šamija I, Lukač J, Marić-Brozić J, Šitum M, Končar Mubrin M, Kusić Z. Microphthalmia-associated transcription factor and tyrosinase as markers of melanoma cells in blood of patients with melanoma. Annual Meeting of the Croatian Immunological Society, Božava – Dugi otok, 29. September– 2. October 2005. (poster, oral presentation)

Mateša N, Šamija I, Tabain I, Kusić Z. Cytomorphological changes and Galectin-3 positivity by RT-PCR method in benign thyroid lesions. 3rd Croatian Clinical Cytology Congress, Opatija, 8-11 May 2005.

Šamija I, Mateša N, Lukač J, Hrašćan R, Tabain I, Kusić Z. Galectin-3 and CD44v6 as markers for preoperative diagnosis of thyroid lesions. Annual Meeting of the Croatian Immunological Society, Opatija, 8-10. October 2004. (poster, oral presentation)

Šamija I, Lukač J. Circulating melanoma cells detection. 2nd Congress of Croatian Oncological Society, Opatija, 20-23 June 2004. (invited lecture)

Mateša N, Šamija I, Tabain I, Hrašćan R, Lukač J, Kusić Z. RT-PCR analysis of Galectin-3 and CD44v6 expression in fine-needle aspirates of thyroid lesions. XV International Congress of Cytology, Santiago de Chile, 11-15 April 2004.

Šamija I, Lukač J, Marić-Brozić J, Kusić Z. Microphthalmia transcription factor and tyrosinase as markers for detection of melanoma cells in the blood of melanoma patients by RT-PCR. Annual Meeting of the Croatian Immunological Society, Brijuni, 17-19 October 2003. (poster)

Šamija I, Mateša N, Hrašćan R, Tabain I, Lukač J, Kusić Z. Galectin-3 and CD44v6 expression in fine-needle aspirates of thyroid lesions. 8th Croatian Biological Congress with International Participation, Zagreb, 27. September – 2. October 2003. (poster)

Šamija I, Hrašćan R, Jazvić M, Kusić Z, Lukač J, Marić-Brozić J. Detection of melanoma cells in peripheral blood by reverse-transcription-polymerase chain reaction. 1st Croatian Congress on Molecular Life Sciences, Opatija, 9-13 June 2002. (poster)

Šamija I, Hrašćan R, Jazvić M, Kusić Z, Lukač J, Marić-Brozić J. Detection of circulating melanoma cells in peripheral blood by RT-PCR. 1st Congress of Croatian Oncological Society, Zagreb, 28-30. November 2001. (poster, oral presentation)

Lukač J, Šamija I, Hrašćan R, Jazvić M, Bolanča A, Brozić J, Kusić Z. Molecular markers of malignant melanoma. 1st Congress of Croatian Oncological Society, Zagreb, 28-30. November 2001. (invited lecture)

BOOKS

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Šamija Ivan. Karcinom dojke. [Breast cancer] In: Vida Čulić, Jasminka Pavelić, Maja Radman, editors. Genetičko informiranje u praksi. [Genetic counseling in practice] Zagreb: Medicinska naklada; 2016. p. 242-247.

Šamija Ivan. Profesionalne imunološke bolesti kod stomatologa. [Professional immunological diseases among dentists] In: Marin Vodanović, editor. Profesionalne bolesti i bolesti vezane uz rad stomatologa. [Professional and occupational diseases among dentists] Zagreb: Naklada Slap, 2015. p. 273-290.

Šamija Ivan, Kusić Zvonko. PET i molekularne slikovne metode u eksperimentalnoj onkologiji [PET and molecular imaging methods in experimental oncology]. In: Antonija Balenović, Mirko Šamija, Renata Dobrila-Dintinjana, Svjetlana Grbac-Ivanković, editors. PET/CT – klinička primjena. [PET/CT – clinical application]. Zagreb: Hrvatska akademija znanosti i umjetnosti, Sveučilište u Rijeci, Zaklada Onkologija and Markulin d.o.o.; 2014. p. 440-446.

Eduard Vrdoljak, Mirko Šamija, Zvonko Kusić, Marija Petković, Damir Gugić, Zdenko Krajina, editors. Klinička onkologija [Clinical oncology]. Medicinska naklada, Zagreb, 2013. (collaborator)

Zvonko Kusić, Ante Bolanča, Ana Fröbe, urednici. Onkologija za studente dentalne medicine [Oncology for students of dental medicine]. Medicinska naklada, Zagreb, 2013. (collaborator)

Josip Lukac, Dujo Kovacevic, Ivan Samija, Iva Kirac, Zvonko Kusic. Cytokeratin 20 by Reverse Transcriptase-Polymerase Chain Reaction as a Marker of Tumor Cells in Peripheral Venous and Mesenteric Blood of Colorectal Cancer Patients. In: Helen C. Kristoff, editor. Cancer Biomarkers. Hauppauge NY: Nova Science Publishers; 2011. p. 189-202.

Ivan Šamija, Josip Lukač, Zvonko Kusić. Molekularna dijagnostika raka štitnjače [Molecular diagnostics of Thyroid Cancer]. In: Željka Bukovec-Megla, Ljubica Posavec, editors. Bolesti štitnjače - racionalna dijagnostika [Thyroid Diseases – Rational diagnostics]. Zagreb: Medicinska naklada and Hrvatska komora medicinskih biokemičara; 2010. p. 55-64.

Ivan Šamija, Mirko Šamija, Zvonko Kusić. Određivanje stanica raka prostate u krvotoku [Detection of Prostate Cancer Cells in Circulation]. In: Mirko Šamija, editor. Rak prostate – najvarijabilniji zloćudni tumor [Prostate Cancer – the Most Variable Malignant Tumor]. Zagreb: Medicinska naklada and Hrvatsko onkološko društvo – HLZ; 2010. p. 113-118.

Juretić A, Šarić N, Šamija I. Bioterapija raka dojke [Biotherapy of Breast Cancer]. In: Šamija M, Juzbašić S, Šeparović V, Vrdoljak VD, editors. Tumori dojke [Breast Cancer]. Zagreb: Medicinska naklada and Hrvatsko onkološko društvo – HLZ; 2007. p. 405-426.

Mirko Šamija, Eduard Vrdoljak, Zdenko Krajina. Klinička onkologija [Clinical oncology]. Medicinska naklada, Zagreb, 2006. (collaborator)

Interests

- Croatian Immunological Society, member since 2003; representative for the University Hospital “Sestre milosrdnice”, Zagreb since 2006.
- Croatian Medical Association, member since 2006.
- Croatian Association for Cancer Research, member since 2009.
- European Association for Cancer Research, member since 2009.

- Croatian Society of Biologists in Health Care, member since 2013.
- Croatian Society of Medical Biochemistry and Laboratory Medicine, member since 2016.

prof. dr. sc. Sanja Šegović



Phone: 014802126

E-mail: segovic@sfzg.hr

Biography: Zavod za endodonciju i restaurativnu stomatologiju

Year of graduation: 1986

MSc thesis: 1992

PhD thesis: 1997

Courses

- [Evaluation of the quality of the postendodontic systems](#)

Biography

CURRICULUM VITAE

NAME: Sanja Šegović

PERSONAL DATA: Associate Professor

DATE OF BIRTH: 23rd December 1963.

PLACE OF BIRTH: Zagreb

ADDRESS: Department of Endodontology and Restorative Dentistry,
School of Dental Medicine, University of Zagreb
Gundulićeva 5, HR-10000 Zagreb

SCIENTIFIC AND PROFESSIONAL CAREER:

1981. enters School of Dental Medicine, University of Zagreb

1986. graduated from School of Dental Medicine, University of Zagreb

1989. Research Fellow at Department of Dental Pathology

1992. Master Thesis at School of Dental Medicine, University of Zagreb

1995. Specialist of Dental and Oral Pathology and Periodontology at Dental University Clinic of Zagreb

1997. PhD at School of Dental Medicine University of Zagreb

1999. head of postgraduate study «Microbiology and endodontology»

2003. head of postgraduate study „ Evaluation of the quality of the postendodontic systems“

SCIENTIFIC AND TEACHING OCCUPATION:

- 1989. Research Fellow
- 1997. Assistant Professor
- 2005. Associate Professor
- 2013. Senior Research Scientist

a) Participation in scientific projects :

- 1989. "Microbiological, citochemical, histopathological, imunological and clinical study of caries, pulpal and periapical pathoses in risical and healthy population" No. 0065 1.08.09.0011
- 1990. "Pulpul diseases and caries; experimental and clinical study" No.0065 3.02.277 - supported by the Ministry of Science and Technology of the Republic of Croatia
- 1996. " Experimental and clinical endodontology " No. 0065005 - supported by the Ministry of Science and Technology of the Republic of Croatia
- 2002. " Experimental and clinical endodontology " br. 0065999 - supported by the Ministry of Science and Technology of the Republic of Croatia
- 2006 . „Experimental and clinical endodontology“ No. 065-065444-0418

Projects

Experimental and clinical endodontology (065-0650444-0418)

Interests

Member of Croation Dental Chamber, Croatian Endodontics Association, European Endodontics Association

izv. prof. dr. sc. Ljiljana Šerman



Courses

- [Epigenetics](#)

izv. prof. dr. sc. Paris Simeon



Courses

- [Management in dental medicine](#)

prof. dr. sc. Mirna Šitum



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Biography: Klinika za kožne i spolne bolesti KBC-a

Year of graduation: 1985

MSc thesis: 1996

PhD thesis: 1998

Courses

- [New findings about melanoma with special emphasis on melanomas of the head and neck](#)

izv. prof. dr. sc. Martina Šlaj



Phone: 4802173

E-mail: mslaj@sfzg.hr

Biography: 3. kat, Zavod za ortodonciju

Year of graduation: 1998

MSc thesis: 2002

PhD thesis: 2008

Courses

- [Digital gnathometrics and CAD CAM assisted treatment in orthodontics](#)

prof. dr. sc. Mladen Šlaj



Courses

- [Morphometric 3D analysis of craniofacial system](#)

Doc. dr.sc. Stjepan Špalj



Courses

- [Oral epidemiology](#)
- [Assessment of orthodontic treatment need](#)

prof. dr. sc. Jasmina Stipetić-Ovčariček



Phone: 01 4802 109
E-mail: stipetic@sfzg.hr
Biography: Dekanat, soba 109
Year of graduation: 1981
MSc thesis: 1985
PhD thesis: 1998

Courses

- [Localized alveolar crest defects, influence on esthetics and the anchors of fixed prosthodontics](#)

prof. dr. sc. Zrinka Tarle



Phone: 01 48021 126
 E-mail: tarle@sfzg.hr
 Biography: ZERS
 Year of graduation: 1992
 PhD thesis: 1995

Courses

- [Experimental methods for determining effectiveness of adhesive systems](#)

Biography

Zrinka Tarle is full professor, permanent position in the field of endodontics and restorative dentistry at School of dental medicine, University of Zagreb. She obtained PhD degree in 1995 with the doctoral dissertation “The evaluation of polymerization effect of pulsed laser light source in the composite resin sample”.

She is a distinguished and well recognized scientist in the field of dental materials and photopolymerization. In Croatia, she is a leader of the top graded project funded by the Ministry of Science, Education and Sports in the field of dentistry: “Nanostructure of restorative materials and interactions with hard dental tissues”, and the principal investigator of the programme of Croatian Science Foundation: “Evaluation of new bioactive materials and procedure in restorative dental medicine”. She got many awards for her scientific work but the most important is National Award for Science

As a Vicedean of Science on the School of Dental Medicine since 2007, her organizational skills have been useful for establishment and implementation of the Postgraduate Doctoral Study Dental Medicine. She is a Head of three postgraduate collegiums in postgraduate specialist study and two collegiums in postgraduate doctoral study – Dental medicine.

She was a mentor on 25 graduate thesis, 2 master and 5 doctoral dissertations

She is author of 162 publications. 77 abstracts were presented at international conferences. Her citation index is 376. She is one of the leading innovators in the field of new light sources used in dentistry.

Her field of expertise is based on the investigation of properties and possible improvements of materials and procedures in restorative dental medicine. The foundations of her research are the analyses of methacrylate based composite resins, new composite materials with amorphous calcium phosphate, silorane based composite resins, glass-ionomer cements and giomer and photopolymerization light sources. In order to obtain good clinical results it is necessary to have a material which is a subject to maximal conversion and minimal polymerization stress. Her numerous experiments are based on testing of the degree of conversion by using Fourier Transform Infrared Spectroscopy (FTIR) and polymerization shrinkage by using laser interferometry method.

Her recent investigation includes new composites based on amorphous calcium phosphate (ACP) aimed for the remineralization of caries affected tooth structure, aiming to improve their performances. Among numerous dental materials, this one stands out due to its unique structure and the similarity to hard dental tissues.

She is a member of many scientific organizations. Her expertise is also renowned by the most respectful scientific dental organization. She has been invited and elected to be a board member of the Central European Division of the International Association for Dental Research.

Projects

2012 – Principal investigator of project: Evaluation of new bioactive materials and procedures in restorative dental medicine, financed by Croatian Science Foundation

2007 – Head of project: 065-0352851-0410 „Nanostructure of restorative materials and interactions with hard dental tissue“, financed by Ministry of science, education and sports

Publications

RADOVI OBJAVLJENI U ČASOPISIMA INDEKSIRANIM U CURRENT CONTENTS-u i SCI i SCIE-expanded

1. **TARLE Z**, MENIGA A, RISTIĆ M, ŠUTALO J, PICHLER G. Polymerization of composites using pulsed laser. Eur J Oral Sci. 1995;103:394-98. IF:1.956 Q2

2. MENIGA A, **TARLE Z**, RISTIĆ M, ŠUTALO J, PICHLER G. Pulsed blue laser curing of hybrid composite resins. *Biomaterials*. 1997;18:1349-54. IF: 7.365 Q1
3. **TARLE Z**, MENIGA A, RISTIĆ M, ŠUTALO J, PICHLER G, DAVIDSON C L. The effect of photopolymerization method on the quality of composite resin photopolymerization. *J Oral Rehabil*. 1998;25:436-42. IF: 1.483 Q2
4. ŠUTALO J, SIMEON P, **TARLE Z**, PRSKALO K, PEVALEK J, STANIČIĆ T, UDOVIČIĆ M. C-shaped canal configuration of mandibular second permanent molar. *Coll Antropol*. 1998;22:179-86. IF: 0.503 Q3
5. **TARLE Z**, MENIGA A, RISTIĆ M, ŠUTALO J, PICHLER G. Possible improvements of clinical properties of dental composite materials with pulsed blue laser curing. *Croat Chem Acta*. 1998;71(3):777-87. IF: 0.805 Q3
6. MUFTIĆ O, KEROS J, CIGLAR I, **TARLE Z**. Anthropodynamic and harmonic analysis of the human head and neck. *Period Biol*. 2000;102:399-403. IF: 0.229 Q4
7. KNEŽEVIĆ A, **TARLE Z**, MENIGA A, ŠUTALO J, PICHLER G, RISTIĆ M. Degree of conversion and temperature rise during polymerization of composite resin sample with blue diodes. *J Oral Rehabil*. 2001;28:586-91. IF: 1.483 Q2
8. PANDURIĆ V, KNEŽEVIĆ A, **TARLE Z**, ŠUTALO J. The efficiency of dentin adhesives in treating non-carious cervical lesions. *J Oral Rehabil*. 2001;28:1168-74. IF: 1.483 Q2
9. **TARLE Z**, MENIGA A, KNEŽEVIĆ A, ŠUTALO J, RISTIĆ M, PICHLER G. Composite conversion and temperature rise using a conventional, plasma arc and an experimental blue LED curing unit. *J Oral Rehabil*. 2002;29(7):662-7. IF: 1.483 Q2
10. KNEŽEVIĆ A, **TARLE Z**, MENIGA A, ŠUTALO J, PICHLER G, RISTIĆ M. Photopolymerization of composite resin with plasma light. *J Oral Rehabil*. 2002;29:782-6. IF=1.483 Q2
11. KNEŽEVIĆ A, TRAVAN S, **TARLE Z**, ŠUTALO J, JANKOVIĆ B, CIGLAR I. Double tooth. *Coll Antropol*. 2002;26: 667-72. IF: 0.503 Q3
12. DEMOLI N, KNEŽEVIĆ A, **TARLE Z**, MENIGA A, ŠUTALO J, PICHLER G. Digital holographic interferometry for measuring of the resin composite thickness variation during blue light polymerization. *Optics Communications*. 2004;231:45-51. IF: 1.316 Q2
13. KNEŽEVIĆ A, DEMOLI N, **TARLE Z**, MENIGA A, ŠUTALO J, PICHLER G. Measurement of linear polymerization contraction using digital laser interferometry. *Oper Dent*. 2005;30(3):346-52. IF: 1.683 Q2
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15. **TARLE Z**, KNEŽEVIĆ A, DEMOLI N, MENIGA A, ŠUTALO J, UNTERBRINK G, RISTIĆ M, PICHLER G. Comparison of composite curing parameters: effects of light source and curing mode on conversion, temperature rise and polymerization shrinkage. *Oper Dent*. 2006;31-2:219-26. IF: 1.683 Q2
16. KNEŽEVIĆ A, **TARLE Z**, PANDURIĆ V. Esthetic reconstruction of teeth with dentinogenesis imperfecta – a case report. *Coll Antropol*. 2006;30(1):231-4. IF: 0.503 Q3
17. PANDURIĆ V, DEMOLI N, **TARLE Z**, ŠARIRI K, NEGOVETIĆ MANDIĆ V, ŠUTALO J. Visualization of marginal integrity of resin-enamel interface by holographic interferometry. *Oper Dent*. 2007;32-3:266-72. IF: 1.683 Q2
18. KNEŽEVIĆ A, RISTIĆ M, DEMOLI N, **TARLE Z**, MUSIĆ S, NEGOVETIĆ MANDIĆ V. Composite photopolymerization with diode laser. *Oper Dent*. 2007;32-3:279-84. IF: 1.683 Q2
19. KNEZEVIC A, ZELJEZIC D, KOPJAR N, **TARLE Z**. Cytotoxicity of composite materials polymerized with LED curing units. *Oper Dent*. 2008;33-1:19-26. IF: 1.683 Q2
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22. **TARLE Z**, KNEŽEVIĆ A, MATOŠEVIĆ D, ŠKRTIĆ D, RISTIĆ M, PRSKALO K, MUSIĆ S. Degree

- of vinyl conversion in experimental amorphous calcium phosphate composites. *J Mol Struct.* 2009;924-26(Special issue SI):161-5. IF: 1.551 Q3
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24. PANDURIĆ V, MRAKUŽIĆ M, **TARLE Z**, KATANEC D, PRSKALO K, JANKOVIĆ B, GABRIĆ PANDURIĆ D. [The prevalence of proximal fractures of dental crowns with amalgam fillings](#). *Coll Antropol.* 2009;33(2):449-53. IF:0.503 Q3
25. KNEŽEVIĆ A, ŠARIRI K, SOVIĆ I, DEMOLI N, **TARLE Z**. Shrinkage evaluation of composite polymerized with led units using laser interferometry. *Quintessence Int.* 2010; 41:417-25. IF: 0.635 Q4
26. ALAJBEG Z I, ZUVELA A, **TARLE Z**. Risk factors for bruxism among Croatian navy employees *J Oral Rehabil.* 2012;39(9):668-676., doi: 10.1111/j.1365-2842.2012.02313x IF: 2.344 Q1
27. MAROVIC D, PANDURIC V, **TARLE Z** , RISTIC M, SARIRI K, DEMOLI N, KLARIC E, JANKOVIC B, PRSKALO K. Degree of conversion and microhardness of dental composite resin materials. *J Mol Struct.* 2012. [http:// dx.doi.org/10.1016/j.molstruc.2012.10.062](http://dx.doi.org/10.1016/j.molstruc.2012.10.062) IF: 1.404 Q3
28. WANG TM, LEE MS, KNEZEVIC A, **TARLE Z**, CHIANG YC, KUNZELMANN KH. Evaluation of the slumping property of dental composites during modeling. *Journal of Dental Sciences* 2012. <http://dx.doi.org/10.1016/j.jds.2012.04.002>. IF: 0.347 Q4
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31. KLARIC E, MARCIUS M, RISTIC M, SEVER I, PRSKALO K, **TARLE Z**. Surface changes of enamel and dentine after two different bleaching procedures. // *Acta Clinica Croatica.* 2013 Dec;52(4):419-29. IF: 0.421 Q4
32. HALLBAUER K, PRSKALO K, JANKOVIC B, **TARLE Z**, PANDURIĆ V, KALENIĆ S. Efficacy of Ozone on Microorganisms in the Tooth Root Canal. *Collegium Antropologicum.* 2013; 37(1):101-107. IF:0.503 Q3
33. KLARIC E, MARCIUS M, RISTIC M, SEVER I, **TARLE Z**. Optical Effects of Experimental Light-Activated Bleaching Procedures. *Photomedicine and Laser Surgery.* 2014 Mar;32(3):160-7. IF: 1.580 Q2
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36. A. MOGUŠ-MILANKOVIĆ , K. SKLEPIĆ, M. ČALOGOVIĆ, M.MARCIUŠ, K. PRSKALO, B. JANKOVIĆ , **Z. TARLE**. Impedance as a measure of setting reaction in glass ionomer cements. *Journal of Non-Crystalline Solids* 389 (2014) 93–103. IF: 1.716 Q1
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40. KLARIC E, RAKIC M, SEVER I, **TARLE Z**. Temperature rise during experimental light-activated bleaching. *Lasers Med Sci.* 2015;30(2):567-76. IF: 2.419 Q1

41. PAR M, GAMULIN O, MAROVIC D, KLARIC E, **TARLE Z**. Raman spectroscopic assessment of degree of conversion of bulk-fill resin composites - changes after 24 h post-cure. Oper Dent. 2015;40-1. 000-000, DOU: 10.2341/14-091-L. IF: 1.266 Q3

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ŠUTALO Z, MENIGA A. Kompenzacija polimerizacijske kontrakcije kompozitnih ispuna. Acta Stomatol Croat. 1994;28:41-6.

TARLE Z, MENIGA A, ŠUTALO J. Correlation between the degree of conversion and light transmission through resin composite sample. Acta Stomatol Croat. 1995;29:9-14.

TARLE Z, MENIGA A, KNEŽEVIĆ A, ŠUTALO J, PICHLER G, RISTIĆ M. Svojstva kompozitnih materijala polimeriziranih pulsni laserom. Acta Stomatol Croat. 1999;33:11-8.

DEMOLI N, PICHLER G, KNEŽEVIĆ A, **TARLE Z**, MENIGA A, ŠUTALO J. Measurements of the composite resin thickness variations using digital interferometry. Proceedings of SPIE 2003;5144:343-9.

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KNEŽEVIĆ A, NYAMA I, **TARLE Z**, KUNZELMANN KH. In-vitro assessment of dentin wear results from the use of oral hygiene devices. J Calif Dent Assoc. 2010;38:109-13.

MATOŠEVIĆ D, **TARLE Z**, MILJANIĆ S, MEIĆ Z, PICHLER L, PICHLER G. [Laser induced fluorescence of carious lesion porphyrins](#). Acta Stomatol Croat. 2010;44(2):82-9.

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MATOŠEVIĆ D, PANDURIĆ V, JANKOVIĆ B, KNEŽEVIĆ A, KLARIĆ E, **TARLE Z**. Light intensity of curing units in dental offices in Zagreb, Croatia. Acta Stomatol Croat. 2011;45(1):31-40.

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ŽUVELA A, ALAJBEG Ž I, ILLEŠ D, **TARLE Z**. tooth wear related signs in the Croatian navy employees. Acta Stomatol Croat. 2011;45(3):166-76.

KLARIĆ, EVA; PAR, MATEJ; PROFETA, IVONA; MATOŠEVIĆ, DANIJELA; **TARLE, ZRINKA**. Postoperativna preosjetljivost nakon uporabe dvaju sredstava za profesionalno izbjeljivanje zuba. Acta stomatologica Croatica. 45 (2011),2:100-109.

TARLE Z, MAROVIĆ D, PANDURIĆ V. Contemporary concepts on composite materials. Rad Hrvatske akademije znanosti i umjetnosti. Medicinske znanosti. 2012;38:23-38

Interests

Central European Division of the International Association for Dental Research
 International Association for Dental Research – Dental Materials Group
 European Society of Endodontics
 Croatian endodontic society
 Croatian physician chamber
 Croatian chamber of dental medicine
 Board Member CED IADR (Central European Division of International Association for Dental Research)
 Member of Committee for Orofacial diseases of Croatian Academy of Sciences and Arts
 Member of Editorial Board of Acta Stomatologica Croatica,
 Member of Reviewers Board of International Dentistry South Africa

University Boards and Committees Head of Board for Science (2007.-) Head of Board for postgraduate study – doctoral study (2007.-) President of the Committee for graduate thesis (2003.-2007.)

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Member of Board for electing teachers (2003.-2006.)

University of Zagreb Member of Board for Biomedical Area (2007.-) Reviewer of University development projects (2010.-) Member of Croatian centre for advanced materials and nanotechnology C2AMN Member of Coordination board for the development of biomedical engineering

Ministry of science, education and sports

Reviewer for proposals for scientific projects

International Association for Dental Research

Board Member Central European Division International Association for Dental Research

Head of Regional Development Program

prof. dr. sc. Zlatko Trkanjec



Courses

- [Experimental methods for determining the quality of composite materials](#)
- [Neurological causes of chewing and swallowing \(mastication and deglutition\) disorders](#)

prof. dr. sc. Vedran Uglešić



Courses

- [Orthodontic and surgical treatment of skeletal face deformations](#)

izv. prof. dr. sc. Zlatko Ulovec



Phone: 4802111

E-mail: zlatko.ulovec@sfzg.hr

Biography: ŠNZ; Katedra za socijalnu medicinu i epidemiologiju Rockefellerova 4, HR-10000 Zagreb, Hrvatska

Year of graduation: 1978

MSc thesis: 1984

PhD thesis: 1998

Courses

- [Epidemiological methods in research](#)

Biography

Educational background

Zlatko Ulovec, MD, PhD was born on May 20th, 1954 in Zagreb, where he completed primary and high school.

In January 1978 he graduated from the School of Medicine University of Zagreb. Throughout the course of his studies, he had acted in the capacity of a student assistant affiliated with the Pathophysiology Chairs of both the School of Medicine and the School of Dental Medicine University of Zagreb. In January 1987 he passed the residency exam in General (Family) Medicine. As a part of his residency curriculum, from 1983-1984 he attended postgraduate studies in General Medicine and successfully passed all the exams.

In 1978 he entered the postgraduate studies in Natural Sciences (field Biology-Biomedicine) run by the University of Zagreb. Upon a successful defence of the Master's Thesis entitled "The impact of hypoglycaemia on the structure of rat brain polyribosomes" that took place in May 1984, he earned the degree of a Master of Medical Sciences and was subsequently promoted into the science position of an Assistant affiliated with the Institute of Medical Research and Occupational Health Zagreb.

In May 1987 he graduated from the School of Dental Medicine University of Zagreb.

A PhD degree in Medical Sciences was awarded to him on December 30th, 1998, upon a successful defence of the PhD Thesis entitled "Prevalence and significance of minor anomalies in developmentally disturbed children".

In 1999 he was promoted into the position of a Senior Assistant, while in 2003 the first promotion into the science-lecturer position of an Assistant Professor took place, followed by the re-positioning in 2008. The promotion into the science position of a Senior Research Assistant went through in 2013 and was followed by the promotion into the science-lecturer position of an Associate Professor in 2014.

Employment history

1978-1995: GM practitioner (from 1987 onward practicing as FM specialist)

From 1988 on affiliated with the Hygiene, Social Medicine and Epidemiology (nowadays Social Medicine and Epidemiology) Chair of the School of Dental Medicine University of Zagreb, where he acts in the capacity of the Chair Head.

Promotion history

- Assistant Professor – initial positioning – January 23rd, 2003;

- Re-positioning – May 19th, 2008;

- Associate Professor – initial positioning – February 17th, 2014

Research projects

Takes active part in research projects financed by the Ministry of Science, Education and Sports of the Republic of Croatia

Review assignments

Long-standing reviewer of contributions submitted to the peer-reviewed journal of international merit "Acta Stomatologica Croatica";

Occasional review assignments designated by the peer-reviewed journals of international merit "Psychiatry Investigation" and "Journal of Nursing & Care".

Mentorship

Mentor of students enrolled into undergraduate and graduate university studies and of students attending postgraduate PhD studies; such an engagement has insofar resulted in a number of publications published in co-authorship with the mentees.

Projects

2007. - ... Researcher: "DENTAL TRAUMA IN CHILDREN: PREVENTION AND TREATMENT" Ministry of Science, Education and Sports; Project ID: 065-0653147-1197

2002. - 2006. Researcher: "Etiology and pathogenesis of children's dental trauma" Ministry of Science, Education and Sports; Project ID: 0065006

Publications

Negovetić V ranić D, Ivančić Jokić N, Bakarčić D, Karović Z, Ulovec Z, Verzak Ž. Psychosocial and economic status of the parents with children with and without tooth trauma. *Psychiatria Danubina*. Forthcoming 2016

Poplašen D, Brumen V, **Ulovec Z**, Kratohvil M. Work ability index and morbidity profile of professional fire-fighting squad members. *Sigurnost*. 2015;57:97-111.

Poplašen D, Marčinko D, **Ulovec Z**, Brumen V, Verzak Ž, Kratohvil M. The use of assessment tools in a sample of Croatian professional fire-fighters. *Psychiatr Danub*. 2013;25(3):255-60.
Q4, Impact factor 0,653

Ulovec Z, Škrinjarić T, Jukić J, Skoko-Poljak D, Roksandić V ranić Z. Minor Physical Anomalies in Children with Hearing Impairment and Normal Controls. *Coll Antropol*. 2012;36:1257-64.
Q2, Impact factor 0,614

Šošić Z, **Ulovec Z**, Božikov J. Obesity and elevated blood pressure among students of the Zagreb University's School of Dentistry. *Eur J Public Health* 2007;17 Suppl 2: 154.
Q1, Impact factor 2,313

Ulovec Z, Šošić Z, Škrinjarić I, Čatović A, Čivljak M, Szirovicza L. Prevalence and significance of minor anomalies in children with impaired development. *Acta Paediatr*. 2004;93:836-40.
Q2, Impact factor 1,768

Ulovec Z, Narancsik P, Gamulin S. Effects of hypoglycemia on rat brain polyribosome sedimentation pattern. *J Neurochem* 1985;45:352-4.
Q1, Impact factor 3,999

Interests

Member: Croatian Medical Association, Croatian Medical Chamber, Croatian dental Chamber, Croatian Public Health Association, Croatian Children and Dental Trauma Association, Croatian Society of Human Genetics

Hobby

dancing, fishing, climbing

izv. prof. dr. sc. Željko Verzak



Phone: 4802100

E-mail: verzak@sfzg.hr

Biography: Zavod za dječju i preventivnu stomatologiju

Year of graduation: 1993

MSc thesis: 1997

PhD thesis: 1999

Courses

- [Epidemiology of caries activity in adolescents](#)

Biography

Associate Professor Željko Verzak, PhD, DDS, MS was born in Vinkovci on April 17th 1967. In 1992 he achieved DDS degree at School of Dental Medicine, University of Zagreb, Croatia. In 2001 PhD title at School of Dental Medicine, University of Zagreb. Since 1992 he works at Dental Clinic, School of dental Medicine, University of Zagreb. In 2007 he becomes an Associate Professor at the Department of Pedodontics, School of Dental Medicine, University of Zagreb. He is married and a father of two daughters.

Projects

"Epidemiology of carious and non-carious lesions in Croatian children", Head Prof. Ph. D.. Ivana Čuković-Bagić

Publications

Book chapters

1. Vučićević Boras, Vanja; Vidović Juras, Danica; Andabak Rogulj, Ana; Gabrić Pandurić, Dragana; Verzak, Željko; Brailo, Vlaho.

Applications of low level laser therapy // A textbook of advanced oral and maxillofacial surgery / Motamedi, Mohammad Hosein Kalantar (ur.).

Rijeka : InTech, 2013. Str. 327-339. [priložen text rada] [URL link to work]

2. Verzak, Željko; Modrić, Vesna-Erika; Karlović, Zoran.

Sportske dentalne ozljede: pojavnost i prevencija // Sportska traumatologija / Elabjer, Esmat (ur.).

Zagreb : Medicinska naklada, 2012. Str. 161-166.

[Vrh]

Original scientific and review articles in CC journals

1. Bagić, Ivana; Verzak, Željko.

Craniofacial Anthropometric Analysis in Down's Syndrome Patients. // Collegium Antropologicum. 27 (2003) , Suppl. 2; 23-30 (članak, znanstveni).

2. Bagić, Ivana; Verzak, Željko; Čuković-Čavka, Silvija; Brkić, Hrvoje; Sušić, Mato.

Periodontal Conditions in Individuals with Down's Syndrome. // Collegium Antropologicum. 27 (2003) , Suppl. 2; 75-82 (članak, znanstveni).

3. Bagić, Ivana; Verzak, Željko; Čuković-Čavka, Silvija; Brkić, Hrvoje; Sušić, Mato.

Periodontal Conditions in Individuals with Down's Syndrome. // Collegium Antropologicum. 27 (2003) , Supplement 2; 75-82 (članak, znanstveni).

4. Keros-Naglić, Jadranka; Bagić, Ivana; Verzak, Željko; Buković, Dino Jr; Lulić-Dukić, Olga.

A biochemical analysis of deformation and strain on lower jaw model. // Collegium Antropologicum. 22 (1998) , 1; 195-201 (članak, znanstveni).

5. Radionov, Dubravka; Lulić-Dukić, Olga; Jurić, Hrvoje; Verzak, Željko; Buković, Dino.

Dental Caries in Children with Insulin – Dependent Diabetes Mellitus – An Epidemiological Study. // Collegium Antropologicum. 20 (1996.) , 2; 397-402 (članak, znanstveni).

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Other articles in CC journals

1. Knezović Zlatarić, Dubravka; Meštrović, Senka; Verzak Željko; Baučić, Ivo; Petričević, Nikola; Čelebić, Asja.
Variations of linear radiomorphometric indices dependent on age and occlusion. // Journal of Dental Research. 85 (2006), Special Issue B; 1323 (kongresno priopćenje, znanstveni).
[Vrh]

Scientific papers in other journals

1. Karlović, Zoran; Grgurević, Lovro; Verzak, Željko; Modrić, Vesna-Erika; Sorić, Pjetra; Grgurević, Joško.
Effectiveness of Er:YAG laser in cavity preparation for retrograde filling--in vitro study.. // Acta clinica Croatica. 53 (2014), 2; 184-189 (članak, znanstveni).
2. Matijević, Jurica; Ljubičić, Anita; Švegar, Domagoj; Verzak, Željko; Jukić Krmek, Silvana; Karlović, Zoran; Paris, Simeon.
In vitro assessment of the accuracy of three electronic apex locators. // Paediatrica Croatica. 58 (2014), 2; 107-113 (članak, znanstveni). [URL link to work] [URL link to work]
3. Poplašen, Dijana; Marčinko, Darko; Ulovec Zlatko; Brumen, Vlatka; Verzak, Željko; Kratochvil, Mladen.
THE USE OF ASSESSMENT TOOLS IN A SAMPLE OF CROATIAN PROFESSIONAL FIRE-FIGHTERS. // PSYCHIATRIA DANUBINA. 25 (2013), 3; 255-260 (članak, znanstveni).
4. Škrinjarić, Tomislav; Čuković-Bagić, Ivana; Goršeta, Kristina; Verzak, Željko; Škrinjarić, Ilija.
Socioeconomic Status and Dental Injury Repetition in Children. // Acta stomatologica Croatica. 47 (2013), 2; 154-162 (članak, znanstveni). [URL link to work]
5. Valter, Kruna; Vučićević Boras, Vanja; Buljan, Danijel; Vidović Juras, Danica; Sušić, Mato; Gabrić Pandurić, Dragana; Verzak, Željko.
The influence of psychological state on oral lichen planus. // Acta clinica Croatica. 52 (2013), 2; 145-149 (članak, znanstveni). [priložen text rada] [URL link to work]
6. Vrček, Danijela; Prpić-Mehičić, Goranka; Verzak, Željko; Vrček, Jurica; Matijević, Jurica; Rosin Grget, Kata.
Fluoride Release from Hard Dental Tissue Restorative Materials. // Acta stomatologica Croatica. 47 (2013), 2; 111-119 (članak, znanstveni).
7. Vučićević Boras, Vanja; Andabak Rogulj, Ana; Alajbeg, Ivan; Škrinjar, Ivana; Lončar Brzak, Božana; Brailo, Vlaho; Vidović Juras, Danica; Verzak, Željko.
Učestalost oralnih lezija u djece u Hrvatskoj. // Paediatrica Croatica. 57 (2013); 235-238 (članak, znanstveni).
8. Verzak, Željko; Čelap, Branka; Modrić, Vesna Erika; Sorić, Pjetra; Karlović, Zoran.
The prevalence of idiopathic osteosclerosis and condensing osteitis in Zagreb population.. // Acta clinica Croatica. 51 (2012), 4; 573-577 (članak, znanstveni).
9. Škrinjarić, Ilija; Čuković-Bagić, Ivana; Goršeta, Kristina; Verzak, Željko.
Oralno zdravlje u djece : uloga pedodonta i pedijatra u ranoj prevenciji oralnih bolesti. // Paediatrica Croatica. 54 (2010), 51; 131-138 (pregledni rad, znanstveni).
10. Čuković-Bagić, Ivana; Domitrović, Hrvoje; Verzak, Željko.
Razina buke u pedodontskoj stomatološkoj ordinaciji. // Acta Stomatologica Croatica. 40 (2006), 3; 278-86 (članak, znanstveni). [URL link to work]
11. Bagić, Ivana; Verzak, Željko; Mehulić, Ketij.
Prosudba kraniofacijalnih obilježja u osoba s Downovim sindromom.. // Acta stomatologica Croatica. 37 (2003); 415-420 (članak, znanstveni).
12. Sušić, Mato; Kobler, Pavel; Macan, Darko; Filipović-Zore, Irina; Verzak, Željko; Katanec, Davor.
Kliničko i radiološko ispitivanje koštanih defekata nakon uporabe kolagenog matriksa.. // Acta Stomatologica Croatica. 34 (2000), 3; 273-280 (članak, znanstveni).
13. Azinović, Zoran; Lazić, Biserka; Mahović, Sanjin; Keros, Jadranka; Verzak, Željko.
Ispitivanje površinske hrapavosti amalgamskih ispuna mehaničkom elektroničkom napravom. // Acta stomatologica Croatica. 32 (1998), 1; 71-80 (članak, znanstveni).
14. Lulić Dukić, Olga; Radionov, Dubravka; Buković, Dino; Verzak, Željko; Bagić, Ivana.
Traume mličnih zubi i njihove najčešće posljedice. // Paediatrica Croatica. 42 (1998.); 153-7 (članak, znanstveni).
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Other papers in other journals

1. Modrić, Vesna-Erika; Verzak Željko.
Oralne manifestacije u prijevremeno rođene djece. // Medix : specijalizirani medicinski dvomjesečnik. 17 (2011), 97; 246-249 (pregledni rad, stručni).
2. Modrić Vesna-Erika; Verzak Željko; Ivana Čuković-Bagić.
Uloga specifičnih caklinskih defekata u dijagnozi celijakije. // Medix : specijalizirani medicinski

- dvojesećnik. 17 (2011), 92-93; 257-260 (pregledni rad, ostalo).
3. Čuković-Bagić, Ivana; Verzak, Željko; Škrinjarić, Tomislav.
Dentalni nalaz i zanemarivanje djece. // Paediatrica Croatica. 54 (2010), Suppl 1; 139-146 (članak, ostalo).
4. Škrinjarić, Ilija; Čuković-Bagić, Ivana; Goršeta, Kristina; Verzak, Željko.
Oralno zdravlje u djece - uloga pedodonta i pedijatra u ranoj prevenciji bolesti. // Paediatrica Croatica. Supplement. 54 (2010); 131-138 (članak, stručni).
5. Škrinjarić, Ilija; Škrinjarić, Tomislav; Goršeta, Kristina; Čuković-Bagić, Ivana; Verzak, Željko.
Hitni i preventivni postupci kod trauma zuba u djece. // Paediatrica Croatica. 54 (2010), S1; 154-162 (članak, stručni).
6. Verzak, Željko; Čuković-Bagić, Ivana; Škrinjarić, Tomislav.
Suvremena antikarijesna sredstva i postupci. // Paediatrica Croatica. 54 (2010), S1; 163-168 (pregledni rad, stručni).
7. Čuković-Bagić, Ivana; Mulabdić, Tanja; Verzak, Željko.
Trudnoća i oralno zdravlje. // Medix : specijalizirani medicinski dvomjese k. XIII (2007), 68/69; 187-189 (članak, ostalo).
8. Verzak, Željko; Burazin, Andrea; Černi, Ines; Čuković-Bagić, Ivana.
Fluoridi i karijes. // Medix : specijalizirani medicinski dvomjese k. XIII (2007), 71; 155-156 (članak, ostalo).
9. Verzak, Željko; Čuković-Čavka, Silvija; Čuković-Bagić, Ivana.
Prikaz slučaja bulimijom inducirane dentalne erozije kod adolescentice. // Acta Stomatologica Croatica. 41 (2007), 3; 260-267 (članak, ostalo).
10. Čuković-Bagić, Ivana; Domitrović, Hrvoje; Verzak, Željko.
Razina buke u pedodontskoj stomatološkoj ordinaciji. // Acta stomatologica Croatica. 40 (2006), 3; 278-286 (članak, ostalo).
11. Čuković-Bagić, Ivana; Verzak, Željko; Car, Nikola; Car, Ana.
Tooth loss among diabetic patients. // Diabetologia Croatica. 33 (2004), 1; 23-27 (članak, ostalo).
12. Bagić, Ivana; Verzak, Željko.
Dentalna erozija. // Medix. Supplement. 48 (2003); 135-136 (članak, ostalo).
13. Bagić, Ivana; Verzak, Željko.
Prosudba kraniofacijalnih obilježja u osoba s Downovim sindromom. // Acta stomatologica Croatica. 37 (2003), 4; 415-420 (članak, ostalo).
14. Čuković-Bagić, Ivana; Verzak, Željko; Radionov, Dubravka.
Učestalost rizičnih čimbenika za nastanak dentalne erozije u studenata. // Medica Jadertina. 33 (2003), 1; 5-11 (članak, ostalo).
15. Lulić-Dukić, Olga; Radionov, Dubravka; Buković, Dino; Verzak, Željko; Bagić, Ivana.
Trauma of decidual teeth and the most common consequences. // Paediatrica Croatica. 42 (1998); 153-157 (članak, stručni).
- [Vrh]

Conference notes (abstracts) in CC journals

1. Medvedec, Ivana; Prpić-Mehičić, Goranka; Tambić Andrašević, Arijana; Jukić Krmek, Silvana; Matijević, Jurica; Verzak, Željko.
Title of Abstract: The efficiency of poly(hexamethylene biguanide) hydrochloride (PHMD) as a root canal irrigant // Abstracts of the 15th Biennial Congress of Endodontology (ESE 2011) "Not Only Roots" / Dummer, Paul H.M. (ur.).
Rim : European Society of Endodontology, 2011. 12-12 (poster, međunarodna recenzija, sažetak, znanstveni).
2. Škrinjarić, Tomislav; Čuković-Bagić, Ivana; Škrinjarić, Ilija; Verzak, Željko.
Host factors and traumatic dental injuries in children : the role of aggressive behaviour // Abstracts of the 23rd Congress of the International Association of Paediatric Dentistry ; u: International Journal of Paediatric Dentistry 21 (2011) (S1); Poster sessions 67-261.
Blackwell Publishing Ltd, 2011. 233-233 (poster, međunarodna recenzija, sažetak, znanstveni). [URL link to work]
[Vrh]

Abstracts in book of abstracts

1. Škrinjarić, Tomislav; Goršeta, Kristina; Škrinjarić, Ilija; Verzak, Željko; Glavina, Domagoj.
CHILDHOOD AGGRESSION AS A RISK FACTOR FOR INJURY REPETITION // .
(predavanje, međunarodna recenzija, sažetak, znanstveni).
2. Škrinjarić, Tomislav; Čuković-Bagić, Ivana; Verzak, Željko; Škrinjarić, Ilija.
Aggressive Behaviour as a Risk Factor for Dental Injuries // CED-IADR Florence, Italy. 2013..
(poster, međunarodna recenzija, sažetak, znanstveni).

3. Škrinjarić, Tomislav; Čuković-Bagić, Ivana; Škrinjarić, Ilija; Verzak, Željko.
INJURY REPETITION IN CHILDREN WITH DENTAL TRAUMA: THE ROLE OF HOST FACTORS // 11th Congress of the European Academy of Paediatric Dentistry, Strasbourg, France. Programme and Abstracts.. 2012. (poster, međunarodna recenzija, sažetak, znanstveni).
4. Škrinjarić, Ilija; Čuković-Bagić, Ivana; Škrinjarić, Tomislav; Verzak, Željko.
Autotransplantation of premolars to replace maxillary central incisors: evaluation after long- term follow-up // 16th World Congress Dental Traumatology, Verona, Italy, 2010. (poster, međunarodna recenzija, sažetak, stručni).
5. Škrinjarić, Tomislav; Čuković-Bagić, Ivana; Škrinjarić, Ilija; Verzak, Željko.
The face version of MCDAS study with Croatian child dental patients. // IADR General Session, Barcelona, Spain, 2010.. (poster, međunarodna recenzija, sažetak, znanstveni).
6. Čuković-Bagić, Ivana; Nuzzolese, Emilio; Verzak, Željko; De Rosa, Sara.
Oral health awareness in Croatian and Italian adolescents // . (poster, međunarodna recenzija, sažetak, znanstveni).
7. Čuković-Bagić, Ivana; Prebeg, Ana; Ivanković, Davor; Verzak, Željko.
Dental erosion among adolescents in Zagreb: a pilot study // . (poster, međunarodna recenzija, sažetak, znanstveni).
8. Rajić, Zdravko; Klaić, Boris; Verzak, Željko; Barbir, Ante.
Annual Caries Increase as Indicator of Selective Caries Prevention // 13th Congress of the European Anthropological Association: Abstracts, Collegium Antropologicum (vol. 26 Suppl.) / Maver, Hubert ; Rudan, Pavao (ur.).
Zagreb : Hrvatsko antropološko društvo, 2002. 164 (poster, međunarodna recenzija, sažetak, znanstveni).
9. Rajić, Zdravko; Meštrović, Senka; Bagić, Ivana; Verzak, Željko.
Caries Symmetry of First Permanent Molar // 13th Congress of the European Anthropological Association: Abstracts, Collegium Antropologicum (vol. 26 Suppl.) / Maver, Hubert ; Rudan, Pavao (ur.).
Zagreb : Hrvatsko antropološko društvo, 2002. 164 (poster, međunarodna recenzija, sažetak, znanstveni).
10. Bagić, Ivana; Verzak, Željko; Jurić, Hrvoje.
Treatment of crown fracture by bonding of original fragment // 4th Congress of European Academy of Paediatric Dentistry.
Sassari : Italian Journal of Paediatric Dentistry, 1998. 63 (poster, međunarodna recenzija, sažetak, stručni).
11. Verzak, Željko; Lulić-Dukić, Olga; Jurić, Hrvoje.
Multidisciplinarni pristup multiplim kompliciranim frakturama zuba // Abstract Book of the 3rd Congress of EAPD.
Bruges, 1996. 80-80 (pozvano predavanje, sažetak, znanstveni).
12. Verzak, Željko; Škrinjarić, Ilija; Bagić, Ivana.
Dnevne varijacije u frekvenciji dentalnih trauma // Abstract Book of 3rd Congress of EAPD / n.a. (ur.).
Bruges : n.a., 1996. 128 (poster, sažetak, znanstveni).

[Vrh]

Hobby

Comercial pilot

Hunting

Scuba diving

Sailing

Skiing

doc. dr. sc. Marin Vodanović



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 E-mail: vodanovic@sfzg.hr
 Biography: Gundulićeva 5
 Biography: <http://www.marinvodanovic.com/>
 Year of graduation: 1999
 MSc thesis: 2005
 PhD thesis: 2008

Courses

- [Odontobiography - the basics of stomatognathic system meta-analysis](#)

Biography

Marin Vodanovic - Assistant professor and Head of the Department of dental anthropology, School of Dental Medicine, University of Zagreb

Marin Vodanovic, born 1975 in Germany, studied dental medicine at the School of Dental Medicine, University of Zagreb, Croatia and received his dental degree in 1999 as one of the best students in generation. In 2005 he obtained his Master of Science degree and 2008 his PhD degree. He specialized in endodontics and dental pathology and completed his studies at University Hospital Centre Zagreb, Croatia in 2010. In 2012 he was appointed as assistant professor and in 2013 as senior research scientist. In 2014 he became a head of the Department of dental anthropology, School of Dental Medicine, University of Zagreb.

His main areas of professional work and research expertise are in endodontics, dental pathology, oral physiology, forensic dentistry, dental anthropology, dental education, dental terminology, occupational diseases in dentistry and paleodontology.

He served as project leader and researcher at several projects. He attended numerous conferences and meetings worldwide as invited speaker or participant. In 2012 he was at the Smithsonian Institution, Washington DC, USA performing an investigation of tooth wear. He is author or coauthor of more than 200 publications including two books and the dictionary: Vodanović, Marin. English-German-Croatian Dictionary of Dentistry. Zagreb: Školska knjiga, 2005.

He is editor in chief of the Bulletin of the International Association for Paleodontology and member of editorial board of Acta Stomatologica Croatica – online, Stomatološki vjesnik Bosne i Hercegovine, Croatian Dental Herald (2006 - 2008).

He is a founder and president of the International Association for Paleodontology, secretary of the Croatian Association of Forensic Stomatologists and member of the International Association for Dental Research, European Society of Endodontology, International Organisation for Forensic-Odontostomatology, Croatian Endodontic Association, Croatian Dental Society, Croatian Medical Association, Croatian Catholic Medical Society and Croatian Dental Chamber.

He served as reviewer for many journals including: American Journal of Physical Anthropology, Archives of Oral Biology, Journal of Archaeological Science, International Journal of Osteoarchaeology, Journal of Clinical Pathology and Forensic Medicine, Journal of Dental Education, Journal of Forensic Dental Sciences, Acta stomatologica Croatica, Clinical Oral Investigations and Indian Journal of Dental Research.

In 2006 he was awarded with Republic of Croatia National Science Award and in 2013 with the University of Zagreb, School of Dental Medicine Best Teacher Award.

More information at: <http://www.marinvodanovic.com>

Projects

Project leader and main researcher

- 2013 - 2014 / Dental and forensic aspects of stomatognathic system [University of Zagreb, Project

leader and main researcher: Marin Vodanovic]

- 2012 - 2013 / Croatian Anatomical and Physiological Terminology – HRANAFINA [Croatian Science Foundation, Project leader and main researcher: Marin Vodanovic]
- 2009 - 2010 / Croatian Dental Terminology – HRSTON [Croatian Science Foundation, Project leader and main researcher: Marin Vodanovic]

Projects - collaborator

- 2014 - 2016 / The effects of endemic warfare on the health of historic period populations from Croatia [Croatian Science Foundation, Project leader and main researcher: Mario Slaus]
- 2007 - 2013 / Human teeth in forensic and archaeological investigations [Republic of Croatia, Ministry of science, education and sports, Grant No. 065-0650445-0423, Main researcher: Hrvoje Brkic]
- 2005 - 2006 / Dental analysis in identification of exhumated war victims in Croatia [Republic of Croatia, Ministry of science, education and sports, Grant No. 0065004, Main researcher: Hrvoje Brkic]
- 2001 - 2005 / Mechanism of appearance and etiological treatment of insulin resistance [Republic of Croatia, Ministry of science, education and sports, Grant No. 0065002, Main researcher: Jagoda Rosa]

Publications

The most recent list of publications of Marin Vodanovic and co-authors is available at: <http://bib.irb.hr/lista-radova?autor=267883&lang=EN>

Highlights

- BOOK: Vodanović, Marin (editor). [Essentials of dental medicine]. Zagreb: Naklada Slap; 2015.
- BOOK: Vodanović, Marin (editor). [Occupational diseases and diseases related to work in dental medicine]. Zagreb: Naklada Slap; 2015.
- DICTIONARY: Vodanović, Marin (editor). [Croatian-English-Latin Dictionary of Anatomy]. Zagreb: Naklada Slap; 2015.
- DICTIONARY: Vodanović, Marin (editor). [Croatian-English Dictionary of Physiology]. Zagreb: Naklada Slap; 2015.
- BOOK: Vodanović, Marin; Štambuk, Drago; Ostroški Anić, Ana. [Dental terminology]. Zagreb: Stomatološki fakultet Sveučilišta u Zagrebu; 2010.
- BOOK: Brkić H, Dumančić J, Savić Pavičin I, Vodanović M. 50 years of the Department of Dental Anthropology School of Dental Medicine University of Zagreb (1966 – 2016). School of Dental Medicine University of Zagreb, Zagreb, 2016.
- BOOK: Šlaus M, Novak M, Vyroubal V, Bedić Ž, Brkić H, Vodanović M. Photographic Atlas of Bioarchaeology from the Osteological Collection of the Croatian Academy of Sciences and Arts. School of Dental Medicine University of Zagreb and Croatian Academy of Sciences and Arts; Zagreb: 2013.
- BOOK: Keros J - editor, Vodanovic M - co-editor. [50 Years of School of Dental Medicine University of Zagreb and 65 Years of of Dental Medicine Education in Croatia]. School of Dental Medicine University of Zagreb; 2013.
- DICTIONARY: Vodanović, Marin. English-German-Croatian Dictionary of Dentistry. Zagreb: Školska knjiga, 2005.

Interests

President of the International Association for Paleodontology (2007 -)
 Secretary of the Croatian Association of Forensic Stomatologists (2003 -)
 Member of the European Society of Endodontology - ESE (2008 -)
 Member of Croatian Endodontic Association (2008 -)
 Member of Croatian Catholic Medical Society (2007 -)
 Member of International Association for Dental Research (2006 -)
 Member of Croatian Dental Society - Croatian Medical Association (2006 -)
 Member of Croatian Medical Association (2006 -)
 Member of the International Organisation for Forensic-Odontostomatology - IOFOS (2005 -)
 Member of Croatian Dental Chamber (2001 -)

Member of Croatian Society of Physiologists (2004 - 2006)

Hobby

- web design
- photography
- video editing
- travelling
- LEGO
- creative hand-work

prof. dr. sc. Denis Vojvodić



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Biography: KB "Dubrava" prizemlje P9 - Klinički zavod za stom. protetiku

Year of graduation: 1989

MSc thesis: 1992

PhD thesis: 1996

Courses

- [Fiber reinforced polymer materials in prosthetic dentistry](#)

Biography

Prof. Denis Vojvodic was born on 2 December 1963 in Zagreb, where he attended primary school. In 1982 he finished School for dental technicians in Zagreb, and in 1989 graduated from the Faculty of Dentistry, University of Zagreb. That same year he enrolled postgraduate study and started working at the Department of Prosthodontics, School of Dental Medicine as a junior research assistant. 1992 began to specialize in prosthodontics and defended his master's thesis. Specialist exam in dental prosthetics passed in 1995, and devised a cumulative employment at the Department of Prosthodontics Clinical Hospital "Dubrava", where he still works as a dental prosthetics specialist. 1996 visited the company "Kulzer" Wehrheim, Germany on professional training in the field of dental materials. That same year, receiving a scholarship from the Dutch government resides in scientific and professional training at the School of Dentistry, University of Nijmegen. He defended his dissertation on July 18, 1996, after which he achieved the status of senior assistant. Since 1997 an assistant professor at the Faculty of Dentistry, University of Zagreb until 2002, when he became associate professor. Since 1999 sworn court expert in the field of dentistry. Since 2006 Full Professor, Faculty of Dentistry, and the same year staying at the three-week study visit to the Dental Clinic of the University Hospital in Zurich as postdoctoral fellows in the field of implantology and "defect-prosthetics." Professor with tenure from 2011.

Since 2006 member of the international editorial board of the scientific journal "Acta Stomatologica Croatica", and he is also a reviewer. As a reviewer works for the magazine "Military Medicine", which is cited in Current Contents.

He has taught undergraduate and postgraduate courses at the Faculty of Dentistry, University of Zagreb. In undergraduate courses in the academic year 2007-08 conceived and initiated the course "Laboratory fixed prosthodontics" and participates in teaching the course Fixed Prosthodontics and Dental Materials in the Department of Fixed Prosthodontics, and participated in teaching interdisciplinary courses Dental propeudeuts. Participated in teaching for students of the College for dental technicians at the Dental School as a leader of exercises and lecturer. In postgraduate specialist study is a two course leader: "Modern impression methods and materials" and "Possibilities of fiber reinforced polymers in prosthodontics." In postgraduate doctoral study leader of the course "Fiber reinforced composites in dentistry."

He actively participated in several national and international scientific conferences, to some as an invited lecturer, and has held several lectures and courses under the auspices of the School of Dental Medicine, Croatian Dental Society and the Croatian Dental Chamber.

He was the principal investigator and project leader for two projects approved and funded by the Ministry of Science, Education and Sports under the headings "Improving materials and procedures in prosthodontics" (2004-07) and "Investiagtion of materials and clinical procedures in prosthodontics" (2007-14).

Projects

He was the principal investigator and head of two projects approved and funded by the Ministry of Science, Education and Sports under the headings "Improvement of the materials and procedures in prosthetic dentistry" (2004-07) and "Investiagation of materials and clinical procedures in prosthetic dentistry" (2007-14). Now participate in the projects "Support" from the University.

Interests

Member of the Croatian Medical Association, Croatian Dental Chamber, Croatian Society for Prosthodontics, Croatian Society for Medical Expert, European Prosthetic Association, the International Association for Dental Research, New York Academy of Sciences, etc.

Hobby

Skiing, motorbike riding