



Course: Pediatric dentistry

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Department: Department of Pediatric dentistry

Study program: University Integrated Undergraduate and Graduate Study of Dental Medicine
(in English)

Study year: 5

Academic year: 2024./25.

SYLLABUS

Course description (a brief description of the course, general instructions, where and in what form the lessons are organized, necessary equipment, instructions for attendance and preparation for classes, student obligations, etc.):

Application of theoretical knowledge: access to the child and preparing the child for dental medical procedures, treatment of dental and oral diseases in children from infant to adolescents. Practical mastery of: Method for caries prevention, diagnostic procedures, treatment of deciduous and young permanent teeth, dental treatment in persons with developmental disabilities, methods of treating the most common types of dentofacial injuries and timely recognition of malocclusion.

Assigned reading:

1. Koch G., Poulsen S., Espelid I., Haubek D. Pediatric Dentistry: A Clinical Approach . Wiley-Blackwell, 2017.
2. Cameron A., Widmer RP. Handbook of pediatric dentistry. 4th Edition. Elsevier, 2013.
3. Andreasen JO., et all. Traumatic Dental Injuries, A Manual. 2nd Edition. Blackwell Munsgaard, 2003.
4. Texts from lectures

Optional/additional reading:

1. Harris N.O., Garcia-Godoy F., Nielsen Nathe C. Primary preventive dentistry. 8th Edition. Pearson, 2014.
2. Casamassimo P. et all. Pediatric Dentistry; Infancy through Adolescence. 5th Edition. Elsevier, 2012
3. Jurić H. Dječja dentalna medicina. Jastrebarsko: Naklada Slap; 2015.
4. Bakarčić D, Ivančić Jokić N. Osnove prevencije karijesa i parodontnih bolesti. Split: Redak; 2013. Str
5. Zukanović A, Gržić R. Stomatološko liječenje medicinski kompromitiranih pacijenata. Zagreb: Hrvatska komora dentalne medicine; 2012



COURSE TEACHING PLAN:

The list of lectures (with topics and descriptions):

P1. Dental Trauma - Etiology

Expected learning outcomes

Describe the etiology of dental trauma and adopt the classifications currently used

P2. Trauma of hard dental tissues

Expected learning outcomes

Describe the diagnosis of trauma, create a treatment plan, and initiate treatment of hard dental tissue trauma.

P3. Trauma to the supporting structures of the teeth

Expected learning outcomes

Describe the diagnosis of trauma, create a treatment plan, and initiate treatment of trauma to the supporting structures of the teeth

P4. Splint, Apexogenesis and Apexification

Expected learning outcomes

Define the type of trauma and the duration for which a splint is applied and acquire knowledge about the types and techniques of splint application. Describe the mechanisms of root growth and development, possible outcomes in case of trauma, and know how to apply the appropriate therapy.

P5. Emergency Conditions in Pediatric Dentistry

Expected learning outcomes

Define emergency conditions and know how to apply timely therapy, as well as patient monitoring protocols.

P6. Use and Dosage of Antibiotics

Expected learning outcomes

Identify and recognize conditions where antibiotic prophylaxis or treatment is applied, and diagnose these conditions.

P7. Oral Surgical Procedures in Children

Expected learning outcomes

Describe the indications and techniques for oral surgical procedures in pediatric dentistry.

P8. Interceptive Orthodontics

Expected learning outcomes

Describe and recognize conditions that require the application of interceptive orthodontics, and learn the techniques for performing and monitoring indicated procedures.

P9. Pediatric Prosthetics, Space Maintainers

Expected learning outcomes

Describe when and how to create prosthetic replacements in children, and learn the indications and techniques for their application.



P10. Oral Diseases and Periodontal Diseases in Children

Expected learning outcomes

Acquire knowledge about the most common oral diseases and periodontal conditions that occur in children, and know how to apply the appropriate therapy.

P11. Working with Children with Developmental Disabilities

Expected learning outcomes

List the possibilities and methods for working with children and individuals with developmental disabilities.

P12. Working with Children with Chronic Diseases

Expected learning outcomes

Define knowledge about the possibilities and methods for working with children with chronic diseases, and become familiar with the most common conditions that require special caution when working.

P13. Oral Hygiene and Dietary Counseling in Pediatric Dentistry

Expected learning outcomes

Define the level of oral hygiene in children and the ways in which diet affects oral health and the development of caries in childhood.

P14. Fluoridation

Expected learning outcomes

List fluoride preparations used in the prevention and treatment of caries in children, and master the materials and application techniques.

P15. Fissure Sealing and Sealant Fillings

Expected learning outcomes

Define and describe the conditions of the tooth fissure system, and learn the techniques and materials used for performing fissure sealing and sealant fillings.

The lectures are available on the e-learning system Merlin.

The list of practicals with descriptions:

Practicals are conducted at the Pediatric Dentistry Department of the KBC Rijeka Dental Clinic, which is located in office number 3 at Krešimirova 40. Students actively participate in the Department's clinical work under the supervision of pedodontics specialists and dental doctors. Given the level of acquired knowledge, they independently perform the treatment of pathological changes in the oral cavity in children

Students' obligations:

All forms of teaching are mandatory, and accordingly we will conduct checks of the presence of students in lectures, seminars, and practical work. Only justified absences due to illness or similar reason are accepted, in the framework of permissible regulations on the study. Student must actively participate in all forms of teaching, is obliged to prepare and present the seminar and pass a final exam.



Assessment (exams, description of written / oral / practical exam, the scoring criteria):

Students evaluation and assessment is provided during classes (clinical exercises) and at the final exam. According to the regulations on studies at the University of Rijeka, a student must achieve at least 50% of the grade during classes in order to be able to take the final exam. Other 50% student achieve during the final exam. The final grade represents the sum of grade points achieved during classes and at the final exam.

Exercises are held during the 8th, 9th, 10th and 11th semesters.

During the exercises, the student must independently perform the following activities that are rated 0 - 1- 2 points:

- 2 systematic examination of children (extraoral examination, intraoral examination, dental status)
- 2 treatment plan
- 2 Analysis of X-ray images in children (intraoral shots, orthopantomograph shots)
- 2 preventive measures for cleaning soft sediments
- 2 Restoration of teeth in a child (from 3 - 18 years of age)

A student in the exercises can get a maximum of 20 points.

There will be a continuous verification of knowledge through written colloquium that will be held at the end of the 8th, 9th and 10th semesters.

Each written colloquium consists of 20 questions, and points begin to be collected when 50% of the test is solved. Each correct answer (over 50% of the test answers) carries 1 (one) point.

A maximum of 10 points can be collected per colloquium (3 colloquium - max 30 points).

Final 50% of the grade the student acquires the final exam.

The final exam is consists of practical, written and oral part.

The practical part brings maximal 10 points, written part 10 points and oral part 30 points.

Practical implementation of the evaluation of the clinical dental examination by a medical form that consists of 25 items which are rated from 0 - 1 - 2 points.

Score threshold is:

37-407 points

41-448 points

45-479 points

48-5010 points

The written part consists of 10 questions, and the points start to be collected after solving 50% of the test. Each correct answer (above 50% of the test solution) carries 2 (two) points

The oral part of the exam - student must respond positively to questions covering all sections of dental medicine in childhood.

In order to be able to be judged the final grade, the student must successfully pass the final exam. If student does not pass the final examination, he/she will receive a total negative score. The student has the right to access the next test period.

Final grade:

- the points achieved in the colloquiums and exercises are added to the points from the exam
- final grade:

0-49.9 % insufficient 1 F



50-59.9% enough 2 D
60-74.9% good 3C
75-89.9% very good 4 B
90-100% excellent 5 A.

Other important information regarding to the course:

The introductory lecture will be held according to the scheduled schedule, while the other lectures will be posted on the e-learning system MERLIN as part of the e-college.

Any use of another's text or other form of author's work, as well as the use of ChatGPT or any of another tool whose functionality is based on artificial intelligence technology, without clear and unambiguous citation of sources, is considered a violation of someone else's copyright and the principle of academic integrity and represents serious violation of student obligations, which entails disciplinary responsibility and disciplinary measures accordingly Rulebook on disciplinary responsibility of students.

Consultation time: Thursday 14.00-15.00

COURSE SCHEDULE (for the academic year 2024/2025)

Date	Lectures (time and place)	Seminars (time and place)	Practicals (time and place)	Instructor
01.10.2024.	P1 e-kolegij 18:30-20:00			Prof.prim.dr.sc. Nataša Ivančić Jokić
2.10.2024.			V1 14.45-16.15 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent
8.10.2024.	P2 18.30-20.00 on line			Prof.prim.dr.sc. Nataša Ivančić Jokić
9.10.2024.			V2 14.45-16.15 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent.
15.10.2024.	P3 18.30-20.00 on line			Prof.prim.dr.sc. Nataša Ivančić Jokić
16.10.2024.			V3 14.45-16.15 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina,



				dr.med.dent.
22.10.2024.	P4 18.30-20.00 on line			Prof.prim.dr.sc. Nataša Ivančić Jokić
23.10.2024.			V4 14.45-16.15 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent.
29.10.2024.	P5 18.30-20.00 on line			Prof.prim.dr.sc. Nataša Ivančić Jokić
30.10.2024.			V5 14.45-16.15 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent.
5.11.2024	P6 18.30-20.00 on line			Prof.prim.dr.sc. Nataša Ivančić Jokić
6.11.2024			V6 14.45-16.15 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent.
12.11.2024	P7 18.30-20.00 on line			Prof.prim.dr.sc. Danko Bakarčić
13.11.2024			V7 14.45-16.15 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent.
20.11.2024			V8 14.45-16.15 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent
26.11.2024.	P9 18.30-20.00 on line			Prof.prim.dr.sc. Nataša Ivančić Jokić
27.11.2024.			V9 14.45-16.15 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent
3.12.2024.	P10 18.30-20.00 on line			Prof.prim.dr.sc. Danko Bakarčić
4.12.2024.			V10 14.45-16.15 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent



10.12.2024.	P11 18.30-20.00 on line			Prof.prim.dr.sc. Danko Bakarčić
11.12.2024.			V11 14.45-16.15 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent.
17.12.2024	P12 18.30-20.00 on line			Prof.prim.dr.sc. Nataša Ivančić Jokić
18.12.2024			V12 14.45-16.15 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent.
24.12.2024	P13 18.30-20.00 on line			Prof.prim.dr.sc. Danko Bakarčić
07.1.2024	P14 18.30-20.00 on line			Prof.prim.dr.sc. Danko Bakarčić
8.1.2025.			V13 14.45-16.15 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent.
14.1.2025	P15 18.30-20.00 on line			Prof.prim.dr.sc. Danko Bakarčić
15.1.2025			V14 14.45-16.15 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent.
22.1.2025			V15 14.45-16.15 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent.
26.2.2025			V1 15.30-17.00 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent.
27.2.2025		S1 12.30-13.15		Prof.prim.dr.sc. Nataša Ivančić Jokić
5.3.2025			V2 15.30-17.00 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent.



6.3.2025.		S2 12.30-13.15		Prof.prim.dr.sc. Danko Bakarčić
12.3.2025			V3 15.30-17.00 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent.
13.3.2025		S3 12.30-13.15		Prof.prim.dr.sc. Nataša Ivančić Jokić
19.3.2025			V4 15.30-17.00 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent.
20.3.2025		S4 12.30-13.15		Prof.prim.dr.sc. Danko Bakarčić
26.3.2025			V5 15.30-17.00 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent.
27.3.2025.		S5 12.30-13.15		Prof.prim.dr.sc. Nataša Ivančić Jokić
2.4.2025			V6 15.30-17.00 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent.
3.4.2024.		S6 12.30-13.15		Prof.prim.dr.sc. Danko Bakarčić
9.4.2025			V7 15.30-17.00 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent.
10.4.2025.		S7 12.30-13.15		Prof.prim.dr.sc. Nataša Ivančić Jokić
16.4.2025			V8 15.30-17.00 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent.
17.4.2024.		S8 12.30-13.15		Prof.prim.dr.sc. Danko Bakarčić
23.4.2025			V9 15.30-17.00 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent
24.4.2025.		S9 12.30-13.15		Prof.prim.dr.sc. Nataša Ivančić Jokić
30.4.2025			V10 15.30-17.00 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent
31.4.2025.		S10 12.30-13.15		Prof.prim.dr.sc. Danko Bakarčić
7.5.2025			V11 15.30-17.00 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina,



				dr.med.dent
8.5.2025		S11 12.30-13.15		Prof.prim.dr.sc. Nataša Ivančić Jokić
14.5.2025			V12 15.30-17.00 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent
15.5.2025.		S12 12.30-13.15		Prof.prim.dr.sc. Danko Bakarčić
21.5.2025			V13 15.30-17.00 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent
22.5.2025.		S13 12.30-13.15		Prof.prim.dr.sc. Nataša Ivančić Jokić
28.5.2025			V14 15.30-17.00 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent
29.5.2025.		S14 12.30-13.15		Prof.prim.dr.sc. Danko Bakarčić
4.6.2025			V15 15.30-17.00 D	Prof.prim.dr.sc. Danko Bakarčić Marija Šimunović-Erpušina, dr.med.dent
5.6.2025.		S15 12.30-13.15		Prof.prim.dr.sc. Nataša Ivančić Jokić

List of lectures, seminars and practicals:

	PRACTICALS	Teaching hours	Location/Lecture room
V1	Conservative Therapy of Hard Dental Tissues	2	Krešimirova 40 OFFICE No. 3
V2	Conservative Therapy of Hard Dental Tissues	2	Krešimirova 40 OFFICE No. 3
V3	Conservative Therapy of Hard Dental Tissues	2	Krešimirova 40 OFFICE No. 3
V4	Conservative Therapy of Hard Dental Tissues	2	Krešimirova 40 OFFICE No. 3
V5	Conservative Therapy of Hard Dental Tissues	2	Krešimirova 40 OFFICE No. 3
V6	Endodontic Therapy in Children	2	Krešimirova 40 OFFICE No. 3



V7	Endodontic Therapy in Children	2	Krešimirova 40 OFFICE No. 3
V8	Endodontic Therapy in Children	2	Krešimirova 40 OFFICE No. 3
V9	Endodontic Therapy in Children	2	Krešimirova 40 OFFICE No. 3
V10	Endodontic Therapy in Children	2	Krešimirova 40 OFFICE No. 3
V11	Application of Interceptive Orthodontics and Pediatric Prosthetic Appliances	2	Krešimirova 40 OFFICE No. 3
V12	Application of Interceptive Orthodontics and Pediatric Prosthetic Appliances	2	Krešimirova 40 OFFICE No. 3
V13	Conservative Therapy of Hard Dental Tissues	2	Krešimirova 40 OFFICE No. 3
V14	Conservative Therapy of Hard Dental Tissues	2	Krešimirova 40 OFFICE No. 3
V15	Conservative Therapy of Hard Dental Tissues	2	Krešimirova 40 OFFICE No. 3
TOTAL TEACHING HOURS 30		30	
V1	Cleaning of Soft and Hard Deposits on Teeth	2	Krešimirova 40 OFFICE No. 3
V2	Cleaning of Soft and Hard Deposits on Teeth	2	Krešimirova 40 OFFICE No. 3
V3	Cleaning of Soft and Hard Deposits on Teeth	2	Krešimirova 40 OFFICE No. 3
V4	Sealant application	2	Krešimirova 40 OFFICE No. 3
V5	Endodontic therapy in childhood	2	Krešimirova 40 OFFICE No. 3
V6	Endodontic therapy in childhood	2	Krešimirova 40 OFFICE No. 3
V7	Endodontic therapy in childhood	2	Krešimirova 40 OFFICE No. 3
V8	Endodontic therapy in childhood	2	Krešimirova 40 OFFICE No. 3
V9	Endodontic therapy in childhood	2	Krešimirova 40 OFFICE No. 3
V10	Conservative treatment of hard dental tissues	2	Krešimirova 40 OFFICE No. 3
V11	Conservative treatment of hard dental tissues	2	Krešimirova 40 OFFICE No. 3
V12	Conservative treatment of hard dental tissues	2	Krešimirova 40



			OFFICE No. 3
V13	Conservative treatment of hard dental tissues	2	Krešimirova 40 OFFICE No. 3
V14	Conservative treatment of hard dental tissues	2	Krešimirova 40 OFFICE No. 3
V15	Conservative treatment of hard dental tissues- Midterm exam	2	Krešimirova 40 OFFICE No. 3
	TOTAL TEACHING HOURS	30	

	SEMINARS (seminar topic)	Teaching hours	Location/Lecture room
S1	Case presentation	1	Krešimirova 40
S2	Case presentation	1	Krešimirova 40
S3	Case presentation	1	Krešimirova 40
S4	Case presentation	1	Krešimirova 40
S5	Case presentation	1	Krešimirova 40
S6	Case presentation	1	Krešimirova 40
S7	Case presentation	1	Krešimirova 40
S8	Case presentation	1	Krešimirova 40
S9	Case presentation	1	Krešimirova 40
S10	Case presentation	1	Krešimirova 40
S11	Case presentation	1	Krešimirova 40
S12	Case presentation	1	Krešimirova 40
S13	Case presentation	1	Krešimirova 40
S14	Case presentation	1	Krešimirova 40
S15	Case presentation	1	Krešimirova 40
	Total number	15	

	LECTURES (lecture topic)	Teaching hours	Location/Lecture room
P1	Dental Trauma - Etiology	2	Krešimirova 40
P2	Dental Trauma - Classification	2	Krešimirova 40
P3	Trauma of Hard Dental Tissues	2	Krešimirova 40
P4	Trauma of the Dental Supporting Apparatus	2	Krešimirova 40
P5	Splint	2	Krešimirova 40



P6	Apexogenesis and Apexification	2	Krešimirova 40
P7	Emergency Conditions in Pediatric Dentistry	2	Krešimirova 40
P8	Use and Dosage of Antibiotics	2	Krešimirova 40
P9	Oral Surgical Procedures in Children	2	Krešimirova 40
P10	Interceptive Orthodontics	2	Krešimirova 40
P11	Space Maintainers	2	Krešimirova 40
P12	Oral Diseases and Periodontal Diseases in Children	2	Krešimirova 40
P13	Working with Children with Developmental Disabilities	2	Krešimirova 40
P14	Working with Children with Chronic Diseases	2	Krešimirova 40
P15	Oral Hygiene and Dietary Counseling in Pediatric Dentistry	2	Krešimirova 40
TOTAL TEACHING HOURS		30	

FINAL EXAM DATES	
1.	
2.	
3.	

	Lectures	Seminars	Practicals	Total
Total number	30	0	28	58
On-line	28	0	0	0
Percentage	93%	0		48%