



Course: Clinical oral surgery

Course Coordinator: Prof. dr.sc. Tomislav Čabov, MD.Dent

Course Collaborators: Ana Barbalić ,MD.Dent, Kristijan Rist ,MD.Dent , Nenad Popov, MD.Dent , Dr.Sc.Ana Zulijani , MD.Dent

Department: Department of Oral Surgery

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

Study year: 4th year

Academic year: 2023./24.

SYLLABUS

The oral surgery course is a mandatory course in the fourth year (8th semester) of the Integrated undergraduate and graduate university study of dental medicine and consists of 15 hours of lectures, 30 hours of exercises, a total of 45 hours (2.5 ECTS). The course is held in the premises of the Clinic for Dental Medicine of the Rijeka Clinical Hospital Center.

The goal of the course is to demonstrate to students the correct medical history taking and the performance of the first dental clinical examination with an emphasis on oral surgery issues and differential diagnosis of pathological changes in the oral cavity. The goal of the course is to enable the student to acquire knowledge and skills about local anesthesia, tooth extraction and treatment of all complications during and after extraction. Also the goal is to enable the student to acquire knowledge to recognize all clinical pictures of odontogenic infection and skills for treatment, including intraoral incisions and prescribing antibiotic therapy depending on the clinical picture of odontogenic infection. During the practicals, enabling the student to analyze the appropriate radiological images needed in the diagnosis and treatment of oral surgical case and familiarize the student with individual indications for the most common oral surgical operations (alveolotomies and apicotomies), cystic processes and the basic principles of surgical treatment of jaw cysts and surrounding tissues, as well as certain traumatic dental injuries and alveolar ridge as well as appropriate methods of treatment. By teaching differential diagnostics and the clinical picture of benign and malignant changes, students will be introduced to the differences between benign and malignant lesions. Through clinical exercises, to acquaint



the student with specific indications for pre-prosthetic surgical procedures, and by assisting in dentoalveolar operations, enable the student to acquire the skill of assisting as well as preparing the patient for the procedure.

The course content of the 8th semester is as follows:

Radiological diagnostics in oral surgery, retained and impacted teeth, treatment of retained and impacted teeth, alveolotomy, dental trauma, tooth transplantation, jaw and mouth trauma, purulent inflammation of the jaw and surrounding soft tissues, clinical picture, diagnosis and treatment of odontogenic infection, antibiotics in treatment odontogenic infection, apicotomy.

Conducting classes:

Teaching is conducted in the form of lectures and practicals. During the practicals, the instructor demonstrates and supervises the active participation of the students in performing the practicals. Instructor discuss with students the specifics of performing individual practicals

Assigned reading:

- 1.Hupp JR, Ellis III E, Tucker MR. Contemporary Oral and Maxillofacial Surgery. Mosby-Elsevier. St.Louis; 2008.
- 2.Little JW, Falace DA, Miller CS, Rhodus NL. Dental Management of the Medically Compromised Patient. Mosby. St. Louis; 2008.
- 3.Malamed S. Handbook of Local Anesthesia. Mosby. St. Louis; 2004.

COURSE TEACHING PLAN:

The list of lectures (with topics and descriptions):

L1-L2 Radiological diagnostics in oral surgery

Learning outcomes:

Describe and analyze the radiological images needed in oral surgery diagnostics.
Recognize the most common pathological changes visible on radiographs.
Acquire knowledge about the correct indications for certain radiological diagnostics.

L3.-L4. Retinized and impacted teeth

Learning outcomes:

Explain the concept of retained and impacted teeth
Diagnose impacted and retained teeth
Acquire knowledge and clearly define the indication/contraindication for the treatment of retained and impacted teeth
Adopt the basic principles of pericoronitis treatment

L5. Treatment of retained and impacted teeth



Learning outcomes:

Acquire knowledge about treatment options for impacted and retained teeth

Clearly define the indication/contraindication for operative extraction of impacted and retained teeth

L6. Alveolotomy

Learning outcomes:

To adopt the basic principles of dentoalveolar surgery

Understand the most common indications for alveolotomy, and know how to recognize the most common indications for alveolotomy.

L7. –L8 Trauma teeth

Learning outcomes:

Diagnose traumatic injuries of the teeth, alveolar ridge and mucosa.

Explain procedures for treating traumatic injuries.

L9. Tooth transplantation

Learning outcomes:

Explain the most common indications for tooth transplantation

To adopt the basic principles of tooth transplantation

L10.-L11. Oral surgery in medically compromised patients

Learning outcomes: Explain the term medically compromised patient. Adopt the basic principles of approach to the medically compromised patient. Explain certain protocols of oral surgery in medically compromised patients.

L12.-L13. Clinical picture, diagnosis and treatment of odontogenic infection

Learning outcomes:

Explain the most common causes and symptoms of odontogenic infection.

Diagnose the cause of odontogenic infection.

Adopt the principles of treatment of odontogenic infection

Explain the treatment procedures for odontogenic infection

L14. Antibiotics in the treatment of odontogenic infection

Learning outcomes:

Adopt the most common microbiological causes of odontogenic infection.

Understand the correct indication for changing antibiotics

Choose the appropriate antibiotic in the correct dose for the treatment of odontogenic infection.

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L15. Apicotomy

Learning outcomes:

Set the correct indication for apicotomy.

Understand and explain certain surgical techniques of apicotomy



The list of practicals with descriptions:

Practicals in the Oral Surgery course are performed at the Clinic for Dental Medicine of the Rijeka Clinical Hospital Center. Before accessing the exercises, students are required to acquire theoretical knowledge that they will perform practically. Students will practically perform exercises with the active participation of the instructor on patients referred for specialist examinations and procedures in the oral surgery office of the Clinic for Dental Medicine.

Students' obligations:

Students are obliged to regularly attend and actively participate in all forms of classes.

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

The exam is taken at the end of the 11th semester.

Other important information regarding to the course:

Teaching contents and all information related to the course as well as exam dates are available on the website of the Department of Oral Surgery.

COURSE SCHEDULE (for the academic year 2023/2024)

Date	Lectures (time and place)	Seminars (time and place)	Practicals (time and place)	Instructor
27.02.2024.			15:30-17:00P1 C 17:00-18:30P1 D	Ana Barbalic, dr.med.dent. Kristijan Rist, dr.med.dent.



1.03.2024.	13:00-14:30 L1			Prof.dr.sc. T. Čabov dr.med.dent.
4.03.2024.			8:00-9:30 P2 A 9:30-11:00 P2 B	dr.sc.Ana Zulijani, dr.med.dent. Nenad Popov, dr.med.dent.
5.03.2024.			15:30-17:00P2 C 17:00-18:30P2 D	Ana Barbalic, dr.med.dent. Kristijan Rist, dr.med.dent.
8.03.2024.	13:00-14:30 L2			Prof.dr.sc. T. Čabov dr.med.dent.
11.03.2024.			8:00-9:30 P3 A 9:30-11:00P3 B	dr.sc.Ana Zulijani, dr.med.dent. Nenad Popov, dr.med.dent.
12.03.2024.			15:30-17:00P3 C 17:00-18:30P3 D	Ana Barbalic, dr.med.dent. Kristijan Rist, dr.med.dent.
15.03.2024.	13:00-14:30 L3			Prof.dr.sc. T. Čabov dr.med.dent.
18.03.2024.			8:00-9:30 P4 A 9:30-11:00P4 B	dr.sc.Ana Zulijani, dr.med.dent. Nenad Popov, dr.med.dent.
19.3.2024.			15:30-17:00P4 C 17:00-18:30P4 D	Ana Barbalic, dr.med.dent. Kristijan Rist, dr.med.dent.
22.3.2024.	13:00-14:30 L4			Prof.dr.sc. T. Čabov dr.med.dent.
25.03.2024.			8:00-9:30 P5A 9:30-11:00P5B	dr.sc.Ana Zulijani, dr.med.dent. Nenad Popov, dr.med.dent.
26.03.2024.			15:30-17:00P5 C 17:00-18:30P5 D	Ana Barbalic, dr.med.dent. Kristijan Rist, dr.med.dent.



29.03.2024.	13:00-14:30 L5			Prof.dr.sc. T. Čabov dr.med.dent.
1.04.2024.			8:00-9:30 P6A 9:30-11:00P6B	dr.sc.Ana Zulijani, dr.med.dent. Nenad Popov, dr.med.dent.
2.04.2024.			15:30-17:00P6 C 17:00-18:30P6 D	Ana Barbalic, dr.med.dent. Kristijan Rist, dr.med.dent.
5.04.2024.	13:00-14:30 L6			Prof.dr.sc. T. Čabov dr.med.dent.
8.04.2024.			8:00-9:30 P7 A 9:30-11:00P7B	dr.sc.Ana Zulijani, dr.med.dent. Nenad Popov, dr.med.dent.
9.04.2024.			15:30-17:00P7 C 17:00-18:30P7 D	Ana Barbalic, dr.med.dent. Kristijan Rist, dr.med.dent.
12.04.2024.	13:00-14:30 L7			Prof.dr.sc. T. Čabov dr.med.dent.
15.04.2024.			8:00-9:30 P8A 9:30-11:00P8 B	dr.sc.Ana Zulijani, dr.med.dent. Nenad Popov, dr.med.dent.
16.04.2024.			15:30-17:00P8 C 17:00-18:30P8 D	Ana Barbalic, dr.med.dent. Kristijan Rist, dr.med.dent.
19.04.2024.	13:00-14:30 L8			Prof.dr.sc. T. Čabov dr.med.dent.
22.04.2024.			8:00-9:30 P9 A 9:30-11:00P9 B	dr.sc.Ana Zulijani, dr.med.dent. Nenad Popov, dr.med.dent.
23.04.2024.			15:30-17:00P9 C 17:00-18:30P9 D	Ana Barbalic, dr.med.dent. Kristijan Rist, dr.med.dent.
26.04.2024.	13:00-14:30 L9			Prof.dr.sc. T. Čabov dr.med.dent.
29.04.2024.			8:00-9:30 P10 A 9:30-11:00P10B	dr.sc.Ana Zulijani, dr.med.dent. Nenad Popov, dr.med.dent.



30.04.2024.			15:30-17:00P10 C 17:00-18:30P10 D	Ana Barbalic, dr.med.dent. Kristijan Rist, dr.med.dent.
3.05.2024.	13:00-14:30 L10			Prof.dr.sc. T. Čabov dr.med.dent.
6.05.2024.			8:00-9:30 P11 A 9:30-11:00P11 B	dr.sc.Ana Zulijani, dr.med.dent. Nenad Popov, dr.med.dent.
7.05.2024.			15:30-17:00P11 C 17:00-18:30P11 D	Ana Barbalic, dr.med.dent. Kristijan Rist, dr.med.dent.
10.05.2024.	13:00-14:30 L11			Prof.dr.sc. T. Čabov dr.med.dent.
13.05.2024.			8:00-9:30 P12 A 9:30-11:00P12 B	dr.sc.Ana Zulijani, dr.med.dent. Nenad Popov, dr.med.dent.
14.05.2024.			15:30-17:00P12 C 17:00-18:30P12 D	Ana Barbalic, dr.med.dent. Kristijan Rist, dr.med.dent.
17.05.2024.	13:00-14:30 L12			Prof.dr.sc. T. Čabov dr.med.dent.
20.05.2024.			8:00-9:30 P13 A 9:30-11:00P13 B	dr.sc.Ana Zulijani, dr.med.dent. Nenad Popov, dr.med.dent.
21.05.2024.			15:30-17:00P13 C 17:00-18:30P13 D	Ana Barbalic, dr.med.dent. Kristijan Rist, dr.med.dent.
24.05.2024.	13:00-14:30 L13			Prof.dr.sc. T. Čabov dr.med.dent.
27.05.2024.			8:00-9:30 P14A 9:30-11:00P14 B	dr.sc.Ana Zulijani, dr.med.dent. Nenad Popov, dr.med.dent.
28.05.2024.			15:30-17:00P14 C 17:00-18:30P14 D	Ana Barbalic, dr.med.dent. Kristijan Rist, dr.med.dent.



31.05.2024.	13:00-14:30 L14			Prof.dr.sc. T. Čabov dr.med.dent.
3.06.2024.			8:00-9:30 P15 A 9:30-11:00P15 B	dr.sc.Ana Zulijani, dr.med.dent. Nenad Popov, dr.med.dent.
4.06.2024.			15:30-17:00P15 C 17:00-18:30P15 D	Ana Barbalic, dr.med.dent. Kristijan Rist, dr.med.dent.
7.06.2024.	13:00-14:30 L15			Prof.dr.sc. T. Čabov dr.med.dent.

List of lectures and practicals:

	LECTURES (Topics)	Teaching hours	Location/Lecture room
L1-L2	Radiological diagnostics in oral surgery	2	Krešimirova 40
L3-L4	Retained and impaceted teeth	2	Krešimirova 40
L5	Treatment impacted teeth	1	Krešimirova 40
L6	Alveolotomy	1	Krešimirova 40
L7-L8	Dental trauma	2	Krešimirova 40
L9	Tooth transplantation	1	Krešimirova 40
L10-L11	Oral surgery in medically compromised patients	2	Krešimirova 40



L12-L13	Clinical picture, diagnosis and treatment of odontogenic infection	2	Krešimirova 40
L14	Antibiotics in the treatment of odontogenic infection	1	Krešimirova 40
L15	Apicotomy	1	Krešimirova 40
TOTAL TEACHING HOURS		15	

	PRACTICALS (Topics)	Teaching hours	Location/Lecture room
P1	Introduction to exercises, rules of conduct in the operation room	2	Krešimirova 40 Oral surgery clinic
P2	Local anesthesia	2	Krešimirova 40 Oral surgery clinic
P3	Terminal anesthesia, surface anesthesia	2	Krešimirova 40 Oral surgery clinic
P4	Conductive local anesthesia	2	Krešimirova 40 Oral surgery clinic
P5	Inferior alveolar nerve block	2	Krešimirova 40 Oral surgery clinic
P6	Complications of local anesthesia	2	Krešimirova 40 Oral surgery clinic
P7	Instruments for tooth extraction	2	Krešimirova 40 Oral surgery clinic
P8	Indication for tooth extraction	2	Krešimirova 40 Oral surgery clinic
P9	Contraindications for tooth extraction	2	Krešimirova 40 Oral surgery clinic
P10	Tooth extraction techniques	2	Krešimirova 40 Oral surgery clinic
P11	Tooth extraction in high-risk patients	2	Krešimirova 40 Oral surgery clinic



P12	Complications of tooth extraction during the procedure	2	Krešimirova 40 Oral surgery clinic
P13	Root fracture	2	Krešimirova 40 Oral surgery clinic
P14	Oroantral communication	2	Krešimirova 40 Oral surgery clinic
P15	Bleeding after extraction	2	Krešimirova 40 Oral surgery clinic
TOTAL TEACHING HOURS		30	

	Lectures	Seminars	Practicals	Total
Total number	15		30	45
On-line				
Percentage				