



MEDICAL UNIVERSITY

“PROF. DR. PARASKEV STOYANOV” - VARNA

FACULTY OF DENTAL MEDICINE

Approved by Faculty Council protocol



Approved:

DEAN:

/Assoc. Prof. Georgi Papanchev, DMD, PhD/

EDUCATIONAL PROGRAMME

OF

“Propedeutics of Oral and Maxillofacial Surgery. Local Anesthesia in Dental Medicine“

Specialty “DENTAL MEDICINE”

Educational-qualification degree “MASTER”

Professional qualification “PHYSICIAN IN DENTAL MEDICINE”

	Semester	Horarium weekly	Total horarium
Lectures	V, VI	2/2	60
Exercises	V, VI	2/2	60
Total			120
Monitoring and evaluation forms	Current control		Exam – VI semester
Credits (ECTS)		3/3	8 (5+3)

Lecturers: Prof. Tihomir Georgiev, DMD, PhD, DSc; Assoc. Prof. Georgi Papanchev, DMD, PhD

Varna

2026

ANNOTATION:

The course in OMFS provides an opportunity to acquire knowledge and skills on methods of research, diagnosis and treatment of surgical diseases of the teeth, oral cavity and maxillofacial region required for full organization of dental care in accordance with European standards and EDI vocational direction "dentistry".

Purpose of the curriculum. Learning objectives, learning of methods of investigation, diagnosis and treatment of surgical diseases of the teeth, oral cavity and maxillofacial region, in organizing dental care in accordance with European standards of healthcare.

Forms of teaching, control and grading:

- Students education corresponds to the contemporary methods of teaching and grading.
- Forms of grading: current control, participation in seminars, tests, theoretical exam, colloquiums.
- Forms and methods of teaching: lectures, seminars, discussions, solving cases, practical classes, presentations.

Grading criteria:

Grading process: complex

- Assessing student participation in practical classes
- Colloquiums
- Exam results during session

Aspects of grading: complex

- Test grades: fair (50% - 60% of correct answers); good (60% - 80% of correct answers); very good (80% - 95% of correct answers), excellent (above 95% of correct answers).
- Grades of practical work with patients and/or dental phantoms.

- Exam results during session incorporate tests, practical exams with patients/dental phantoms, theoretical exam – one oral and one written topic.
- Practical examination – conducted at the end of the sixth semester.

Attendance at the theoretical examination is permitted only after successful completion of the practical examination.

After completing the course students should have the following knowledge, skills and competence:

- **Knowledge** of frequency, etiology and pathogenesis, clinical and para-clinical examination, diagnostics and differential diagnostics of different diseases in the realm of oral and maxillo-facial surgery; referring patients to the specialized clinics with the necessary documents and examinations; applying prophylactic measurements and avoiding complications.
- **Skills:** administering local anesthesia (terminal and nerve-blocks) and performing teeth extractions on dental phantoms.
- **Competence:** Examination and formation of preliminary diagnosis of patients with inflammatory diseases, trauma, tumors, congenital and acquired defects in the maxillo-facial region.

PLAN OF LECTURES AND PRACTICAL CLASSES TOPICS

Lectures III course, V semester		
	Topic	Hours
1	Anatomy of the MFR – bones.	2
2	Anatomy of the MFR – muscles and fascias.	2
3	Anatomy of the MFR – blood supply.	2
4	Anatomy of the MFR – innervation.	2
5	Examination of a patient. Medical history of the patient. Present status of the patient. Clinical examination of a patient.	2
6	Asepsis and antisepsis principles.	2
7	Basic surgical procedures. Basic and specific surgical instruments.	2
8	Local anesthetics. Vasoconstrictors. Drug interactions. Contact and infiltration anesthesia. Nerve blocks of the upper jaw.	2
9	Nerve blocks of the lower jaw.	2
10	Complications during and after local anesthesia. General complications.	2
11	Complications during and after local anesthesia. Local complications.	2
12	Treatment of patients with general diseases. Preparation of the patient for local anesthesia and surgical treatment.	2
13	Extraction of teeth. Features of the extraction of the different teeth groups.	2
14	Complications during and after extraction.	2
15	Healing process of the wounds – normal and compromised.	2
Total:		30
Lectures III course, VI semester		
	Topic	Hours
1	Dental eruption disorders - epidemiology, etiology, pathogenesis, classification.	2
2	Surgical treatment of impacted teeth.	2
3	Acute and chronic periodontitis.	2
4	Cysts of the jaws. Odontogenic cysts.	2
5	Cysts of the jaws. Non-odontogenic cysts.	2
6	Cysts of the soft tissues.	2

7	Inflammatory diseases (abscesses and phlegmons) – overview.	2
8	Lymphadenitis.	2
9	Periostitis of the jaws.	2
10	Odontogenic, hematogenic and traumatic osteomyelitis of the jaws.	2
11	Odontogenic sinusitis.	2
12	Traumatology in the MFR – overview.	2
13	Fractures in the MFR – overview.	2
14	Preneoplastic lesions in the MFR – overview.	2
15	Tumors in the MFR – overview.	2
Total:		30

Week	Practical classes, III course, V semester	Hours
1	Bones of the facial part of the skull. Muscles and fascia in the maxillo-facial region and the neck.	2
2	Blood supply of the maxillo-facial region and the neck.	2
3	Innervation of the maxillo-facial region and the neck.	2
4	Colloquium: “Anatomy of the maxillo-facial region.”	2
5	Examination of a patient. Medical history of the patient. Present status of the patient. Clinical examination of a patient.	2
6	Asepsis and antisepsis principles. Preparation of the surgeon for an operation. Preparation of the operating field.	2
7	Basic surgical instruments. Specific surgical instrument used in the MFS.	2
8	Local anesthetics. Vasoconstrictors. Drug interactions.	2
9	Anesthesia in the oral cavity and maxillofacial region. Infiltration anesthesia and nerve blocks of the upper jaw. Demonstration.	2
10	Anesthesia in the oral cavity and maxillofacial region. Infiltration anesthesia and nerve blocks of the lower jaw. Demonstration.	2
11	Pain management in inflammatory conditions of the maxillofacial region.	2
12	Local anesthesia in children and patients with general diseases. Patient preparation for local anesthesia and surgical treatment.	2
13	Complications before and during local anesthesia.	2
14	Complications after local anesthesia.	2
15	Colloquium: “Local anesthesia and complications during and after extraction. Asepsis and antisepsis. Instruments.”	2
Total:		30

Practical classes, III course, VI semester		
1	Extraction of teeth and roots on the upper jaw. Demonstration.	2
2	Extraction of teeth and roots on the lower jaw. Demonstration.	2
3	Extraction of impacted teeth. Demonstration.	2
4	Complications during and after extraction of teeth.	2
5	Colloquium: "Extraction of teeth and complications during and after extraction."	2
6	Basic surgical procedures. Different types of flaps. Suturing techniques. Demonstration.	2
7	Examination, diagnostics and treatment of acute periodontitis.	2
8	Examination, diagnostics and treatment of chronic periodontitis.	2
9	Examination, diagnostics and treatment of odontogenic cysts of the jaws.	2
10	Examination, diagnostics and treatment of non-odontogenic cysts of the jaws.	2
11	Surgical treatment of odontogenic and non-odontogenic cysts.	2
12	Endodontic surgery. Complications during and after treatment of periodontitis and cysts.	2
13	Colloquium: "Periodontitis and cysts in the MFR."	2
14	Practical exam	2
15	Practical exam	2
Total:		30

REFERENCES:

- 1. ORAL AND MAXILLO-FACIAL SURGERY. LARS ANDERSSON, KARL-ERIK KAHNBERG, M. ANTHONY POGREL, AUGUST 2010, WILEY-BLACKWELL**
- 2. ORAL SURGERY, FRAGISKOS D. FRAGISKOS, 2010**
- 3. MAXILLO-FACIAL AND ORAL SURGERY (2006), EDITED BY PROF. R. UGRINOV, DMSC - INTENDED FOR DENTAL STUDENTS, GRADUATE STUDENTS IN OLCHH, SPECIALISTS OLCHH**
- 4. MAXILLO-FACIAL AND ORAL SURGERY (2011), EDITED BY PROF. ATANASOV, DMSC, PLOVDIV**

SYLLABUS

1. Asepsis and antisepsis in oral and maxillo-facial surgery. Preparation of the operator's hands and the surgical field.
2. Armamentarium for basic surgical procedures. Specific instruments used in oral and maxillo-facial surgery.
3. Basic surgical procedures: incisions, wound suturing, suture materials and types of sutures, curettage, drainage, tamponade, puncture.
4. Topographic anatomy of the maxillo-facial region: innervation, blood supply and lymphatic drainage.
5. Types of anesthesia in oral and maxillo-facial surgery (OMFS). General information. Premedication.
6. Local anesthesia in the maxillo-facial region. Definition. Indications. Types. Instruments for its realization.
7. Types of local anesthetics. Mechanism of action of local anesthetics. Vasoconstrictors. Interactions between local anesthetics and other medications taken by the patient.
8. Anesthesia in skin surgery.
9. Injection anesthesia in the oral cavity. Terminal anesthesia. Types. Indications and contraindications. Techniques.
10. Mandibular nerve block anesthesia – anatomical data, intraoral techniques, indications.
11. Extraoral methods of regional nerve block anesthesia of the lower jaw. Indications. Techniques.
12. Maxillary nerve block anesthesia - anatomical data. Intraoral methods. Indications. Techniques.
13. Extraoral methods of regional nerve block anesthesia of the upper jaw. Indications. Techniques.
14. Distinctive aspects of local anesthesia in children and inflammatory diseases in the maxillo-facial region.
15. Preparation of high-risk patients (diabetes, hypertension, patients on anticoagulant therapy, etc.) for anesthesia, tooth extraction and other surgical procedures in the maxillo-facial region.
16. Complications during and after local anesthesia. Types of prevention. Basic principles of treatment.
17. Tooth extraction. Indications and contraindications. Anatomic-topographic basis for extraction.

18. Principles of simple extraction. Position of the patient and the operator. Extraction of different tooth groups – characteristics.
19. Extraction of fractured teeth and roots.
20. Surgical treatment of impacted teeth. Indications. Techniques. Complications.
21. Postoperative care of the surgical wound. Healing process of the extraction wound.
22. Complications during and after tooth extraction. Types. Prevention. Principles of treatment.
23. Periodontitis. Anatomic-topographic and functional characteristics of the periodontium. Classification of periodontitis.
24. Acute periodontitis. Classification. Etiology. Clinical examination. Basic principles of treatment.
25. Chronic periodontitis. Classification. Etiology. Clinical examination. Basic principles of treatment.
26. Cysts of the jaws. Classification. General information. Etiology. Clinical examination. Basic principles of treatment.
27. Dental eruption disorders. Obstruction of the normal path of eruption. Classification. Etiology. Clinical examination. Basic principles of treatment.
28. Periodontal disease – periodontal anatomy, classification, epidemiology, etiology, pathogenesis. Basic principles of treatment.
29. Odontogenic sinusitis – topographic anatomy, classification, etiology, pathogenesis, methods of examination. Basic principles of treatment.
30. Abscesses and phlegmons in the maxillo-facial region – general data, etiology, pathogenesis, routes of spreading the infection. Basic principles of treatment.
31. Preneoplastic lesions and tumors of the oral cavity in the maxillo-facial region. Epidemiology, classification, etiology.

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Faculty's council protocol №

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