FACULTY OF DENTISTRY STUDY PROGRAM 0911.1 DENTISTRY „ION LUPAN" DEPARTMENT OF PEDIATRIC ORO-MAXILLO-FACIAL SURGERY AND PEDODONTICS

APPROVED
at the meeting of the Commission for Quality Assurance and Evaluation of the Curriculum in Dentistry
Minutes No. 03 of 05.05.2025
Chairman PhD, associate professor

Zanoaga Oleg _____

APPROVED
at the Council meeting of the Faculty

Minutes No. 04 of 04.04.2025
Dean of Faculty
PhD, associate professor
Mostovei Andrei _____

APPROVED
approved at the meeting of the chair_____
Minutes No. 8 of 27.02.2025
Head of chair PhD, Dr.habil., associate professor
Railean Silvia _____

FACULTATEA DE STOMATOLOGIE

SYLLABUS
DISCIPLINE:
Pediatric oro-maxillo-facial surgery

Integrated studies

Tipe of course: **Compulsory**

Curriculum developed by the team of authors:
Railean Silvia PhD, Dr. habil., associate professor
Rusu-Radzichevici Natalia, PhD, associate professor
Ursu Denis, associate professor

Chisinau 2025

I. PRELIMINARY

- **General presentation of the discipline:** the place and role of the discipline in the formation of specific skills of the vocational training program / specialty

Pediatric oral-maxillofacial surgery - a clinical discipline, the study of which at the university stage allows the future dentist to master the diagnosis, clinical picture, treatment, rehabilitation, prevention of surgical diseases in children and the organization of medical care for children.

Pediatric oro-maxillofacial surgery is a difficult, multi-component specialty, and the training of the specialist who, acting as a dentist, thinks clinically from the point of view of the particularities of the growing organism, requires the application of all forces, a lot of time and energy.

The strategy of Pediatric Oral-Maxillofacial Surgery is the teaching of material, the treatment of children with surgical pathology of the oral-maxillofacial region, the practical application of knowledge at the level of contemporary requirements to contribute to accelerating the achievement of the task of improving children's health.

Curriculum mission (purpose) in vocational training: Theoretical and practical training of students regarding the etiology, diagnosis, clinical picture, treatment and prevention of oro-maxillofacial surgical conditions in children.

- **Language(s) of teaching of the subject:** Romanian, English;
- **Beneficiaries:** 5th year students, Faculty of Dentistry.

II. ADMINISTRATION OF DISCIPLINE

Code of Discipline	**S.09.O.109**		
Name of the discipline	**Pediatric oro-maxillofacial surgery**		
Responsible for discipline	**Railean Silvia,** PhD, Dr. habil., associate professor		
Year	**V**	Semester/Semesters	**X**
Total number of hours, including:			**120**
Course	**36**	Practical/laboratory work	**36**
Seminar	**36**	Individual work	**12**
Evaluation form	**E**	Number of credits	**4**

III. TRAINING OBJECTIVES WITHIN THE DISCIPLINE

- ***At the end of studying the discipline, the student will be able to:la nivel de cunoaștere și înțelegere:***

✓ to know the basics of pediatric oro-maxillofacial surgery;
✓ to know the methods of anesthesia;
✓ to know the particularities of tooth extraction surgery;
✓ to know the diagnosis, treatment and prophylaxis of inflammatory diseases;
✓ to know the diagnosis, treatment of soft tissue injuries;
✓ to know the diagnosis, treatment of jaw and dental trauma in children and adolescents;
✓ to know the instruments and devices necessary for a pediatric oro-maxillofacial surgery office;
✓ to know the stages of rehabilitation of children at different periods of the child's age;
✓ to know the methods of postoperative rehabilitation depending on the child's health group;
✓ to know the indications for surgical treatment of inflammatory processes and trauma in hospital and polyclinic conditions.să cunoască noțiunile de dezvoltare a regiunii capului și gîtului la copii;
✓ to know the principles of etiology of congenital anomalies in the head and neck region;
✓ to know the diagnosis and degree of involvement of the oro-maxillo-facial region in different craniofacial anomalies and the establishment of a multidisciplinary rehabilitation plan;
✓ to know the principles of dispensarization and prophylaxis of morphofunctional complications of the dentomaxillary apparatus caused by congenital anomalies of the development of the face and jaws at different stages of child development;
✓ to know the classification of congenital anomalies of the upper lip, hard and soft palate, alveolar process and clinical manifestations at the stages of child development;
✓ to know the morphofunctional changes of the dentoalveolar apparatus, in different forms of congenital anomalies and the principles of primary and secondary surgical recovery;
✓ to know the principles and stages of rehabilitation of the articular and dentoalveolar apparatus at different stages of child development;
✓ to know how to create a diagnosis of benign tumors of the head and neck region in children and adolescents based on clinical examination and developmental characteristics;
✓ to know the particularities of clinical, radiographic manifestations and evolution of benign tumors of soft and bone tissues in the oro-maxillofacial region in children;
✓ to know the particularities of clinical and radiographic manifestations of malignant tumors in the head and neck region;
✓ to know the aspects of morphofunctional rehabilitation of children with tumor processes in the oro-maxillofacial region.

- ***at application level:***

✓ establish psychological and verbal contact with children of different ages;
✓ establish contact with parents in the treatment of children;
✓ palpate soft tissues and facial bones, lymph nodes, salivary glands;
✓ perform thermodiagnosis and electrodiagnosis of teeth;
✓ perform tooth extraction in children and adolescents;
✓ perform opening of subperiosteal abscesses;
✓ perform dressings in children and adolescents;
✓ perform immobilization of traumatized teeth;
✓ perform infiltrative, truncular and applicative anesthesia in children;
✓ interpret radiographs, orthopantomographies and tomographies;
✓ apply the knowledge obtained in the assessment of clinical tests;
✓ solve clinical situation problems;

- ✓ probe the ducts of the salivary glands;
- ✓ apply the knowledge obtained in the assessment of clinical tests;
- ✓ solve situational problems
- ✓ be able to collect patient history data;
- ✓ be able to describe anatomical and physiological changes;să poată completa fișa medicală a pacientului și acordul informativ;
- ✓ be able to carry out a rehabilitation plan for children with congenital defects;
- ✓ be able to perform a clinical examination in children with congenital malformations;
- ✓ establish contact with the children's parents;
- ✓ palpate the soft tissues and facial bones, lymph nodes, salivary glands;
- ✓ establish the diagnosis of congenital defects of the upper lip, palate;
- ✓ establish the radiographic diagnosis of tumors of the oro-maxillofacial region in children and adolescents;
- ✓ be able to argue the need for a paraclinical examination, depending on the form of the congenital malformation;
- ✓ know the principles of preoperative preparation of children with congenital malformations;
- ✓ know the elements of preparation of the operating field and evaluation in the postoperative period of the surgical wound.

- ***at the integration level:***

- ✓ to appreciate the importance of pediatric oral and maxillofacial surgery in the context of medicine;
- ✓ to creatively approach the problems of fundamental and clinical medicine;
- ✓ to deduce interrelationships between pediatric oral and maxillofacial surgery and other clinical disciplines;
- ✓ to possess skills in implementing and integrating knowledge obtained in clinical disciplines;
- ✓ to be able to objectively evaluate and self-evaluate knowledge in the field of dentistry;
- ✓ to be able to assimilate and apply new achievements in the discipline of pediatric oral and maxillofacial surgery;
- ✓ to be able to implement the knowledge accumulated in the research activity;
- ✓ to be competent to critically and confidently use scientific information obtained using new information and communication technologies;
- ✓ to be able to use multimedia technology to receive, evaluate, store, produce, present and exchange information, and to communicate and participate in networks via the Internet;
- ✓ be able to learn to learn, which will contribute to the management of the professional path;
- ✓ be able to objectively evaluate and self-evaluate knowledge in the field of surgery;
- ✓ be able to assimilate new achievements in the discipline of pediatric oral-maxillofacial surgery.

IV. CONDITIONS AND PREREQUISITES

For the good mastery of the discipline, thorough knowledge in the field of fundamental medicine, oral and maxillofacial surgery, therapeutic dentistry, orthopedic dentistry, etc. is necessary.

The 5th year student requires the following:

• knowledge of the language of instruction and compliance with ethical, moral and professional norms in relations with patients.

• confirmed skills in sciences at high school level (biology, chemistry, physics);

• digital skills (using the Internet, processing documents, electronic tables and presentations, using graphics programs);

• skills obtained in preclinical and clinical dental disciplines: pediatric oral-maxillofacial surgery, dental propaedeutics; odontology, orthopedic dentistry, prophylaxis of dental diseases;
• qualities – tolerance, compassion, autonomy;
• knowledge of the anatomical and physiological peculiarities of the OMF territory;
• knowledge of the principles of medical care in a team with specialists of different profiles;
• knowledge of immediate postoperative medical care.

V. TOPICS AND INDICATIVE DISTRIBUTION OF HOURS

Courses (lectures), practical work/laboratory work/seminars and individual work

Nr. d/o	TOPIC	Number of hours		
		Lectures	Practical work	Individual work
1.	Anesthesia in the pediatric dental clinic. Methods of local anesthesia. Mastering the technique of local anesthesia for children in outpatient practice. Indications and contraindications for general anesthesia in pediatric dental practice. Dental treatment and outpatient operations performed under general anesthesia.	3	3	1
2.	Peculiarities of tooth extraction surgery in children. Peculiarities, indications, contraindications, complications depending on age. Technique of tooth extraction in children of different ages depending on root resorption and root formation.	3	3	1
3.	Inflammatory diseases in children in the maxillofacial region, classification. Inflammatory diseases of soft tissues (furuncle, carbuncle). Diagnostic methods. Clinical picture. Treatment methods. Adenitis in children. Peculiarities of the lymphatic system in children. Etiopathogenesis, clinical picture, diagnosis. Treatment methods, complications, prognosis.	3	3	1
4.	Peculiarities of odontogenic infections of the jaws in children depending on age. Periostitis in children, classification. Pathophysiological peculiarities, diagnostic methods and clinical picture. Treatment of acute, chronic periostitis, complications, prognosis.	3	3	1
5.	Odontogenic infections and superficial and deep spaces in the maxillofacial region in children, of dental origin (abscess, phlegmon). Etiopathogenesis. Clinical picture, diagnostic methods. Treatment of abscess, phlegmon, complications, prognosis.	3	3	1
6.	Acute odontogenic osteomyelitis of the jaws in children. Etiopathogenesis, diagnostic methods, clinical picture. Treatment methods. Chronic odontogenic osteomyelitis of the jaws in children, diagnostic methods, clinical picture. Treatment features. Complications and prognosis. Acute hematogenous osteomyelitis of the jaws in children. Etiopathogenesis. Diagnostic methods, clinical picture. Treatment features. Complications and prognosis.	3	3	1
7.	Inflammatory diseases of the salivary glands in children. Classification, etiopathogenesis, clinical picture, treatment methods. Recurrent juvenile parotitis. Complications and prognosis.	3	3	1

Nr. d/o	TOPIC	Number of hours		
		Lectures	Practical work	Individual work
8.	Traumatisms in the OMF region in children, classification, peculiarities. Soft tissue injuries in children. Providing first aid. Specialized treatment depending on the age of the child. Complications. Prognosis. Methods of rehabilitation of children with trauma.	3	3	1
9.	Dental and alveolar trauma, diagnostic methods, clinical picture. Providing first aid. Principles and peculiarities of treatment. Complications. Prognosis. Rehabilitation methods.	3	3	1
10.	Maxillary trauma in children. Classification, diagnostic methods, clinical picture. Providing first aid. Principles and peculiarities of treatment. Complications. Prognosis. Rehabilitation methods.	3	3	1
11.	Congenital malformations of the development of the face and jaws, general data. Classifications. Their impact on the harmonious development of the OMF region. Clinical picture. Diagnostic methods. Principles of surgical and orthodontic treatment. Rehabilitation of children with dehiscences.	3	3	1
12.	Tumor pathology in the OMF region in children. Classification. Peculiarities of diagnosis, etiology, clinical picture, treatment. Rehabilitation of children with tumors in the OMF region.	3	3	1
Total		**36**	**36**	**12**

VI. REFERENCE OBJECTIVES AND CONTENT UNITS

Objection	Content units
Topic (chapter) 1. Anesthesia in children.	
• to define the notion of anesthesia; • to know the classification of local anesthesia; • to know the anatomical and physiological peculiarities in the anesthesiological aspect in children; • to know the anesthetics used in local anesthesia; • to know and perform the technique of applicative, infiltrative, troncular anesthesia in children; • to know the purpose and perform the method of premedication in children;	1 Anesthesia in children. Classification, particularities of local anesthesia, anatomical and physiological particularities in children, local anesthesia technique in children, particularities and methods of resuscitation. Anatomical and topographic features of block anesthesia in children. Features of complications of local and general anesthesia in children.

Objection	Content units
• to know the indications, contraindications and classification of general anesthesia (narcosis); • to know the methods of resuscitation in children; • to apply the knowledge gained to other disciplines; • to formulate conclusions.	
Topic (chapter) 2. Tooth extraction in children.	
• to define the notion of tooth extraction; • to know the indications and contraindications for the extraction of primary and permanent teeth in children and adolescents; • to know the particularities and be able to perform tooth extraction in children and adolescents; • to know the causes of post-tooth extraction complications in children, their prophylaxis; • to apply the knowledge acquired to other disciplines; • to formulate conclusions.	Extraction of primary and permanent teeth in children and adolescents. Appreciation of the peculiarities of dental extraction surgery in children and adolescents. Post-extraction hemostasis. Rehabilitation of children with post-extraction complications. Peculiarities of the surgical technique in relation to the forms of root resorption. Indications for surgical treatment in hospital and polyclinic conditions.
Topic (chapter) 3. Infections in the maxillofacial region in children, classification. Inflammatory diseases of soft tissues (furuncle, carbuncle). Age-related peculiarities of diagnostic methods, clinical picture, treatment methods. Adenitis in children. Peculiarities of the lymphatic system in children. Etiopathogenesis, clinical picture, diagnosis. Treatment methods, complications, prognosis.	
• to know the classification of inflammatory diseases of soft tissues (furuncle, carbuncle) in children; • to know the etiopathogenesis of furuncle, carbuncle in children; • to know and be able to perform clinical examination, diagnosis in children with furuncle and carbuncle; • to know the treatment of furuncle and carbuncle; • to apply the knowledge	Furuncules, carbuncles in children of different ages. Causes. Peculiarities of evolution, clinic and treatment. Inflammatory diseases of the glands in children, classification, etiology, diagnostic methods, treatment. Indications for surgical treatment in hospital and polyclinic conditions. Peculiarities and diseases of the lymphatic system in children, classification, etiology, pathogenesis, clinical tabulature, diagnosis. Treatment methods, complications, prognosis.

Objection	Content units
acquired in other disciplines; • to know the classification, etiology of inflammatory diseases of the salivary glands in children; • to know the diagnostic methods and clinical picture of adenitis in children; • to know and perform examination methods; • to know the methods of treatment of adenitis in children; • to know the classification, etiology of adenitis in children; • to know the anatomical peculiarities of the lymphatic system in children; • to know the clinical picture, evolution of adenitis and adenophlegmon; • to know the methods of treatment of adenitis; • to apply the knowledge acquired to other disciplines; • to formulate conclusions. • to apply the knowledge acquired to other disciplines; • to formulate conclusions.	
Topic (chapter) 4. Peculiarities of odontogenic infections of the jaws in children depending on age. Periostitis in children, classification. Pathophysiological peculiarities, diagnostic methods and clinical picture. Treatment of acute, chronic periostitis, complications, prognosis.	
• to know the classification, etiology of periostitis in children; • to know and be able to perform the examination and diagnosis of periostitis in children; • to know the particularities of the clinical evolution of periostitis in children; • to know the treatment methods and be able to perform the periostotomy operation; • to apply the knowledge	Periostitis in children, classification, diagnosis, features of clinical evolution and treatment of periostitis in children. Differential diagnosis of acute periostitis. Rehabilitation of children with periostitis in the acute period and post-treatment. Indications for surgical treatment in hospital and polyclinic conditions. Odontogenic infections (abscess, phlegmon), adenitis, adenophlegmon in children. Anatomical and topographic features of the deep and superficial spaces of the OMF region. Etiopathogenesis, diagnostic methods, features of evolution, clinic, complications.

Objection	Content units
acquired to other disciplines; to formulate conclusions.	
Topic (chapter) 5. Odontogenic infections and superficial and deep spaces in the maxillofacial region in children, of dental origin (abscess, phlegmon). Etiopathogenesis. Clinical picture, diagnostic methods. Treatment of abscess, phlegmon, complications, prognosis.	
• to know the classification, etiology of odontogenic infections of superficial and deep spaces in children; • to know and be able to perform the examination and diagnosis of abscesses and phlegmons of deep spaces in children; • to know the peculiarities of clinical evolution of odontogenic abscesses and phlegmons of deep spaces in children in children; • to know the methods of treatment of odontogenic abscesses and phlegmons of deep spaces in children • to apply the knowledge accumulated in other disciplines; • to formulate conclusions. • to know the classification, etiology of abscesses, odontogenic phlegmons in children; • to know and perform the methods of examination, diagnosis of abscesses and phlegmons in children; to know the clinic and methods of treatment of abscesses and phlegmons of deep and superficial spaces in children;	Odontogenic infections of superficial and deep spaces in the OMF region in children, etiopathogenesis, clinical picture, diagnostic methods, features of clinical evolution and treatment of odontogenic abscesses and phlegmons in children. Differential diagnosis of abscesses and phlegmons in the OMF region in children. Rehabilitation of children with abscesses and phlegmons of deep spaces in the acute period and post-treatment. Indications for surgical treatment in hospital and polyclinic conditions. Anatomical and topographic features of deep and superficial spaces of the OMF region. Etiopathogenesis, diagnostic methods, features of evolution, clinic, complications, prognosis.
Topic (chapter) 6. Osteomyelitis of the jaws in children.	
• to know the classification, etiopathology of odontogenic osteomyelitis in children; • to know and be able to perform the examination and	Odontogenic osteomyelitis in children, classification, diagnosis, clinical course, treatment of osteomyelitis in children, complications of osteomyelitis. Rehabilitation of children with chronic odontogenic osteomyelitis depending on the age of the child

Objection	Content units
diagnosis of osteomyelitis in children; • to know the particularities of clinical evolution of odontogenic osteomyelitis in children; • to know the treatment methods, complications of odontogenic osteomyelitis; • to apply the knowledge gained to other disciplines; • to know the classification, etiology of hematogenous osteomyelitis in children; • to know and be able to perform the examination and diagnosis of hematogenous osteomyelitis in children; • to know the particularities of clinical evolution of hematogenous osteomyelitis in children; • to know the treatment methods of hematogenous osteomyelitis; • to apply the knowledge gained to other disciplines; • to formulate conclusions.	Hematogenous osteomyelitis of the jaws in children. classification, diagnosis, clinical course, treatment of osteomyelitis. Determination of the department in hematogenous osteomyelitis in the acute period. Principles of rehabilitation of children with hematogenous osteomyelitis in relation to complications.
Topic (chapter) 7. Inflammatory diseases of the salivary glands in children.	
• to know the classification, etiopathology of inflammatory diseases of the salivary glands in children • to know and be able to perform the examination and diagnosis of salivary gland diseases in children; • to know the particularities of clinical evolution of salivary gland diseases in children; • to know the methods of treatment, complications of salivary gland diseases in children; • to apply the knowledge gained to other disciplines; • to know the classification,	Inflammatory diseases of the salivary glands in children. Classification, etiopathogenesis, clinical picture, treatment methods. Rehabilitation of children with inflammatory diseases of the salivary glands in children depending on the age of the child Recurrent juvenile parotitis. Diagnosis, clinical course, treatment, complications and prognosis. Principles of rehabilitation of children with diseases of the salivary glands.

Objection	Content units
etiology of salivary gland diseases in children; • to know and be able to perform the examination and diagnosis of recurrent juvenile parotitis; • to know the particularities of clinical evolution, complications and prognosis of salivary gland diseases in children; • to know the methods of treatment of salivary gland diseases in children; • to apply the knowledge gained to other disciplines; • to formulate conclusions.	
Topic (chapter) 8. Traumatisms of the oro-maxillofacial region in children.	
• to know the classification of soft tissue injuries, their causes; • to know the peculiarities of clinical evolution of soft tissue injuries; • to perform the first surgical treatment of wounds in the maxillofacial region; • to know the classification, etiology of soft tissue trauma in children; • to know the complications, prophylaxis of trauma in the OMF region in children; • to apply the knowledge gained to other disciplines; • to formulate conclusions.	Soft tissue injuries, dental trauma, classification, diagnosis, clinical evolution features, treatment. Determination of the vital test of traumatized teeth. Stomatoscopy. Principles of primary surgical processing depending on the child's age. Assessment of associated trauma. Methods of hemostasis. Paraclinical examinations MRI, CT, OPG, radiography in different projections of the facial massif in trauma.
Topic (chapter) 9. Dental and alveolar trauma in children.	
• to know the classification of dental trauma and alveolar processes, their causes; • to know the peculiarities of clinical evolution of dental and	X-ray examination in dental trauma. Specialized treatment depending on the child's age Temporary methods of tooth immobilization. Methods of preserving avulsed teeth. Paraclinical examinations MRI, CT, OPG, radiography in different

Objection	Content units
alveolar trauma in children; • to perform fixation and immobilization of traumatized teeth; • to know the classification, etiology of dento-alveolar trauma in children; • to know the anatomical peculiarities of jaw development, their role in determining trauma; • to know the methods of diagnosis and treatment of dental trauma in children; • to apply the knowledge acquired to other disciplines; to formulate conclusions.	projections of the facial massif in trauma. Temporary methods of jaw immobilization. Jaw trauma in children (fractures), classification, methods of diagnosing jaw fractures, methods of treatment, immobilization of jaw fractures, treatment. Assessment of associated trauma.
Topic (chapter) 10. Maxillary trauma in children.	
• to know the classification, etiology of maxillary trauma in children; • to know the anatomical peculiarities of the jaws, their role in determining trauma; • to know the methods of diagnosis and treatment of maxillary trauma in children; • to perform fixation and immobilization of traumatized jaws; • to know the complications, prophylaxis of trauma (fractures) of the jaws; • to apply the knowledge acquired to other disciplines; • to formulate conclusions.	Jaw trauma in children (fractures), classification, methods of diagnosing jaw fractures, treatment methods, immobilization of jaw fractures. Paraclinical examinations MRI, CT, OPG, CBCT radiography in different projections of the facial massif in trauma. Assessment of associated trauma. Provisional methods of jaw immobilization. Complications, prognosis and methods of rehabilitation of children with jaw trauma in children.
Topic (chapter) 11. Congenital malformations of the development of the face and jaws in children.	
• to comment on the interaction of oro-maxillofacial surgery with pediatrics; • to demonstrate knowledge of	Congenital defects of facial and maxillary development, classification. Peculiarities of the clinical picture of congenital defects and diagnosis. Multidisciplinary rehabilitation of children with congenital defects at different ages of the child. History of pediatric oro-maxillofacial surgery in the Republic of

Objection	Content units
age periods in children; • to know the classification of congenital defects of facial and jaw development; • to know the etiology of congenital defects; • to know and be able to perform the clinical examination of a child with congenital defects; • to be able to approach the multidisciplinary management of congenital defects and tumor lesions; • to be able to formulate diagnostic conclusions; • to know the anatomical and topographic features of the oro-maxillofacial region in children in relation to age; • to understand the method of communication with patients in relation to the child's age and behavioral features; • to know the aspects of recording data in the patient's medical record; • to know the features of clinical examination with patients of different ages; • to know the features of the paraclinical examination in children of different ages; • to know the aspects of organizing pediatric oral and maxillofacial surgery medical care; to know the principles of rehabilitation of children of different ages with congenital defects and tumor lesions in the oral and maxillofacial area.	Moldova. Principles of organizing surgical care for children with congenital defects. Principles of multidisciplinary treatment of congenital defects in the head and neck region. Medical documents in oro-maxillofacial surgery. Principles of personal hygiene, ethics and deontology. Principles of surgical and orthodontic treatment. Rehabilitation of children with dehiscences.
Topic (chapter) 12. Tumor pathology in the OMF region in children.	
• to know the WHO classification of benign,	Classification of tumors and pseudotumoral processes in the OMF region in children, clinical features.

Objection	Content units
malignant tumors and pseudotumoral processes of soft tissues, jaws and organs of the oral and facial cavity in children depending on the child's age; • to know and perform the clinical evolution, diagnostic methods of tumors and pseudotumoral processes of soft tissues and jaws in children; • to know the clinical methods of determining tumor processes and neoplasms in children; • to know the indications for treatment in outpatient and inpatient conditions; • to know and perform dispensary care of children with benign tumors and pseudotumoral processes of soft tissues and jaws; • to apply the knowledge gained to other disciplines; • to formulate conclusions.	Methods of clinical diagnosis in children. Principles of treatment, dispensary. Benign, malignant tumors and pseudotumoral processes of the OMF region in children, clinical features, diagnostic methods, principles of treatment, dispensary. Oncological vigilance in the clinical examination of children with neoplasms. Rehabilitation of children with tumors in the OMF region.

VII. PROFESSIONAL COMPETENCES (SPECIFIC (CS) AND TRANSVERSAL (CT)) AND STUDY OBJECTIVES

- **Professional (specific) skills (CS)**
  - CP1. Thorough knowledge of the structural features, development of the jaws, temporary and permanent teeth in children at different stages of development. Thorough knowledge of anesthesia, the technique of dental extraction surgery in children.
  - CP2. Development of a plan for diagnosis, treatment and prevention of inflammatory diseases of soft tissues, maxillofacial region, adenitis, sialoadenitis, inflammatory diseases of the jaws, dental and maxillary trauma, soft tissue injuries in children.
  - CP3. Use of medical techniques, instrumental and laboratory investigations, digital technologies for the diagnosis and treatment of inflammatory diseases of soft tissues, maxillofacial region, adenitis, sialoadenitis, inflammatory diseases of the jaws, dental and maxillary trauma, soft tissue injuries in children.
  - CP4. Performing various practical tasks and procedures in the diagnosis, treatment and prevention of inflammatory diseases of soft tissues, maxillofacial region, adenitis, sialoadenitis, inflammatory diseases of the jaws, dental and maxillary trauma, soft tissue injuries in children.
  - CP5. Planning, coordinating and carrying out health promotion activities and prophylactic measures to improve health and prevent inflammatory diseases of soft tissues of the maxillofacial region, adenitis, sialoadenitis, inflammatory diseases of the jaws, dental and maxillary trauma, soft tissue injuries in children, establishing and implementing rehabilitation plans.

- CP6. Knowing the professional standards for evaluating and ensuring the quality of surgical services for children with inflammatory diseases of soft tissues, maxillofacial region, adenitis, sialoadenitis, inflammatory diseases of the jaws, dental and maxillary trauma, soft tissue injuries. Knowledge of the basic principles and functional structure of medical and dental care.
- CP7. Thorough knowledge of the structural and developmental features of the maxillofacial skeleton.
- CP8. Development of a plan for the diagnosis and prevention of congenital malformations of the jaws and jaws, congenital clefts of the lip, palate, and tumor lesions of the oro-maxillofacial region in children.
- CP9. Use of medical techniques, instrumental and laboratory investigations, and digital technologies for the diagnosis and treatment of odontogenic and non-odontogenic infections of the oro-maxillofacial region, at the level of the lymphatic system of the head and neck region, minor and major salivary glands, traumatic injuries of soft, dental, and maxillary tissues in children, congenital malformations, and tumor lesions in the head and neck region.
- CP10. Performing various practical tasks and procedures in the diagnosis, treatment and prevention of congenital defects of facial and maxillary development, congenital clefts of the lip, palate, soft and bone tissue tumors of the jaws of the oro-maxillofacial region in children and adolescents.
- CP11. Planning, coordinating and carrying out health promotion activities and prophylactic measures to improve health in the prevention of congenital defects of facial and maxillary development, congenital clefts of the lip, palate, soft and bone tissue tumors of the jaws of the oro-maxillofacial region in children and adolescents, establishing and implementing multidisciplinary rehabilitation methods.
- CP12. Knowledge of professional standards for evaluating and ensuring the quality of surgical services for children with congenital developmental defects of the head and neck, congenital clefts of the lip, palate, tumor lesions of the soft tissues, jaws of the head and neck region. Knowledge of the basic principles and functional structure of general medical care and dental care in the population of children and adolescents.

- **Transversal skills (TC)**
  - CT1. Applying professional standards of assessment, acting in accordance with professional ethics, as well as the provisions of the legislation in force. Promoting logical reasoning, practical applicability, evaluation and self-evaluation in decision-making.
  - CT2. Carrying out activities and exercising specific roles of teamwork in medical institutions and especially in dental ones. Promoting the spirit of initiative, dialogue, cooperation, positive attitude and respect for others, empathy, altruism and continuous improvement of one's own activity.
  - CT3. Systematic evaluation of personal skills, role and expectations, applying self-assessments on learned processes, acquired skills and professionalization needs, knowledge in information technologies, efficient use of linguistic skills, research and communication skills for the purpose of providing quality dental services and adapting to the dynamics of health policy requirements and for personal and professional development.

- **Study purposes**

At the end of the course, the student will be able to:

- to possess the principles of local anesthesia in children in relation to age.
- to be able to determine the indications and contraindications of dental extraction operations in the milk and permanent dentition in relation to root formation and radiculopathy;
- to be able to perform clinical examination, diagnosis of odontogenic and non-odontogenic inflammatory diseases of the oro-maxillofacial region;

- to know the principles of emergency medical care (local and general) at the stages of evacuation of the patient with soft tissue, jaw and dental trauma;
- to be able to choose treatment methods in different situations of surgical care in children with inflammatory processes and trauma;
- to create a rehabilitation plan for children in situations of inflammation and trauma in relation to the child's age and general condition;
- to possess treatment management in a multidisciplinary team in children with trauma and inflammatory processes;
- to know the particularities of primary surgical processing in traumas in the oro-maxillofacial region;
- to be able to choose treatment methods in relation to the psychological particularities of the child depending on the child's age.
- to be able to characterize the basic elements in the particularities of diagnosis and treatment of congenital developmental defects of the head, face; of the jaws; of congenital clefts of the lip, soft and hard palate;
- to be able to characterize the main particularities of diagnosis in benign and malignant tumor lesions of the head and neck in children and adolescents;
- to know the classification and to perform the examination of children with congenital developmental defects of the head and neck, with congenital clefts of the lip, soft and hard palate, with benign and malignant tumor lesions of the head and neck region;
- to know the principles of multidisciplinary treatment of congenital developmental defects of the head and neck, congenital clefts of the lip, soft and hard palate, tumor lesions of the oro-maxillo-facial region in children and adolescents;
- to know the methods of multidisciplinary rehabilitation of children with congenital defects of development of the face and jaws, congenital clefts of the lip, soft and hard palate, with tumor lesions of the oro-maxillo-facial region in children and adolescents;
- to know the methods of prophylaxis of tumor lesions of the oro-maxillo-facial region in children and adolescents;
- to know the principles of dispensary and social rehabilitation of children and adolescents with tumor lesions of the oro-maxillo-facial region;
- to apply the methods of psychological knowledge in the professional activity and in the daily life of children in different age periods;
- to apply various ways of psychological and moral support of children in the treatment of congenital defects of development of the head and neck, congenital clefts of the lip, soft and hard palate, benign and malignant tumor lesions of the oro-maxillo-facial region in children and adolescents.

Note: Discipline objectives (they are deduced from the professional competencies and formative values of the informational content of the discipline).

VIII. STUDENT'S INDIVIDUAL WORK

Nr.	Expected product	Achievement strategies	Evaluation criteria	Completion date
1.	Working with information sources	Systematic work in the library and media library, reading the lecture. Exploring current electronic sources regarding the topic under discussion. Reflection on the topic in the questions in the topic. Knowledge and selection of	1. Quality of formed judgments, logical thinking, flexibility. 2. Quality of systematization of information material obtained through own activity.	During the semester

		additional information sources on the topic.		
2.	Reference	Analysis of relevant sources on the topic of the paper. Analysis, systematization and synthesis of information on the proposed topic. Writing the paper in accordance with the requirements in force and presenting it to the department.	1. The quality of the systematization and analysis of the information material obtained through one's own activity. 2. The correspondence of the information with the proposed topic.	During the semester
3.	Case study analysis	Choosing and describing the case study. Analysis of the causes of the problems that arose in the case study. Working with the medical record and systematizing the stages of collecting the anamnesis and clinical examination. Prognosis of the case under study. Students will prepare information about the case with schematic and graphic rendering in Power Point.	1. Analysis, synthesis, generalization of data obtained through own investigation. 2. Formation of a knowledge algorithm based on the conclusions obtained. 3. Evaluation of the correctness and sequence of the analysis performed.	During the semester

IX. METHODOLOGICAL SUGGESTIONS FOR TEACHING-LEARNING-ASSESSMENT

- ***Teaching and learning methods used***

The discipline Pediatric Oral and Maxillofacial Surgery is taught in a classical manner: with lectures and practical work. During the lectures, the theoretical course is read by the course instructors. During the practical work, students study the peculiarities of surgical medical care for children, diagnosis, clinical picture, treatment and prevention of surgical diseases of the oral and maxillofacial region in children.

For a deeper understanding of the material, various semiotic systems (scientific language, graphic and computerized language) and teaching materials (tables, diagrams, microphotographs, transparencies) are used. During the lessons and extracurricular activities, Information Communication Technologies – PowerPoint presentations are used.

- ***Applied teaching strategies/technologies*** *(subject-specific)*

Presentation, interactive lecture, group interview, debate, creative controversy, problematization, brainstorming, group work, individual study, working with the textbook and scientific text, case study, solving problem situations, role play, simulation, interactive listening.

- ***Evaluation methods*** *(including indication of the method of calculating the final grade)*

Current: frontal or/and individual control via

(a) applying docimological tests,

(b) solving problems/exercises,

(c) analyzing case studies,

(d) carrying out role-playing games on the topics discussed,

(e) control works.

Final: exam

The Pediatric Oral-Maxillofacial Surgery discipline has a promotion exam in the 5th year (10th semester). Students with an annual average below 5 are not admitted to the promotion exam, as well as students who have not made up for absences from seminars and practical work.

The promotion exam for the 5th year in Pediatric Oral-Maxillofacial Surgery is combined, consisting of a test-grid test ("SIMU Test") and an oral test.

The test-grid test consists of 100 test variants each from all the topics of the Pediatric Oral-Maxillofacial Surgery course, of which 40 tests are simple compliment, and 60 tests are multiple compliment. The student has a total of 100 minutes to present the test. The test is assessed with grades from 0 to 10.

For the oral test in the 5th year of Pediatric Oral-Maxillofacial Surgery, 90 questions are selected and 30 tickets are made in Romanian and English. Each ticket contains 3 questions. The oral test is assessed with grades from 0 to 10.

The exam topics (tests and questions) are approved at the department meeting and are made known to the students at least 1 month before the session.

The students' answers are assessed with the final grade consisting of: the annual average grade (coefficient 0.2), the practical test (coefficient 0.3); the test-grid test (coefficient 0.2) and the oral test (coefficient 0.3).

The annual average grade is established based on 3 totals, and the practical test is the average of the grades of the practical tasks from the practical lessons.

Consultations are organized for students before the exam.

How to round off grades at evaluation stages

Intermediate grade grid (annual average, grades from exam stages)	National grading system	Equivalent ECTS
1,00-3,00	**2**	**F**
3,01-4,99	**4**	**FX**
5,00	**5**	**E**
5,01-5,50	**5,5**	
5,51-6,0	**6**	
6,01-6,50	**6,5**	**D**
6,51-7,00	**7**	
7,01-7,50	**7,5**	**C**
7,51-8,00	**8**	
8,01-8,50	**8,5**	**B**
8,51-8,00	**9**	
9,01-9,50	**9,5**	**A**
9,51-10,0	**10**	

The annual average grade and the grades of all stages of the final examination (computer-assisted, testing, oral response) - all will be expressed in numbers according to the grading scale (according to the table), and the final grade obtained will be expressed in a number with two decimal places, which will be entered in the gradebook.

Failure to appear for the exam without valid reasons is recorded as "absent" and is equivalent to a grade of 0 (zero). The student has the right to 2 repeated attempts of the exam without passing.

X. RECOMMENDED BIBLIOGRAPHY:

A. Mandatory:

1. Lectures materials
2. Railean S., *Anomalii congenitale cranio-maxilo-faciale la copii – abordare multidisciplinară.* Chișinău, 2020.
3. Railean S. et. al. *Exemple de cazuri clinice în chirurgia oro-maxilo-facială la copii,* Chișinău 2022.
4. Railean S. et. al. *Operația de extracție a dinților la copii,* Chișinău 2022.
5. Railean S. et al. *Limfadenitele regiunii maxilo-faciale și cervicale la copii*, Chișinău 2022
6. Railean S., Lupan I., Poștaru C., Bușmachiu I. *Curs practicde chirurgie orală și maxilo-facială pediatrică.* Chișinău, 2003.
7. Колесов А.А. *Стоматология детского возраста.* Москва, Медицина, 1991.
8. Виноградовой Т.Ф., *"Стоматология детского возраста"* руководство для врачей под ред. проф. Москва, 1987.

B. Supplementa

1. Timoșca G., Burlibașa C. *Chirurgie buco-maxilo-facială.* București. 1992.
2. Burlibașa C.(redactor) *Chirurgie orală și maxilofacială* .București. 1992.
3. Godoroja P., Burlacu V. *Curs de stomatologie infantilă.* Chișinău, 1991.
4. ГуцанА.Э. "Врождённыерасщелиныверхнейгубыинёба" - Кишинёв, 1980.
5. ГодорожаП.Д., ГодорожаН.М. *"Опухолиголовышшеи у детей"* - Кишинёв, 1981.