

Danylo Halytsky Lviv National Medical University
Pediatric Dentistry Department

Methodological Recommendations
For
Pediatric Surgery Dentistry
for the 5th year students

Lviv 2021

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Methodical recommendations were discussed, re-approved and confirmed at the meeting of the Department of Pediatric Dentistry of Lviv National Medical University named after Danylo Halytsky

Protocol № 1 from « 31 » _____ August _____ 2021

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**Responsible for the issue
Vice-Rector for Academic Affairs, Professor M.R. Grzegotskyy**

**The Independent Work Schedule
(Surgery)**

(for the fifth year students of Dentistry Department, 9 – 10th term).

№	Theme of the lessons	Hours
1	Tumor processes in the maxillofacial area in children. Distribution of tumors face and jaws in children according to the international histological WHO classification.	2
2	Precancerous processes in the maxillofacial area in children. Distribution tumor-like neoplasms of the face and jaws in children according to WHO International Histological Classification.	2
3	Write the principles of prevention of oncostomatological pathology in children.	3
4	Principles of dental care in pediatric dentistry	3
5	Prevention of infection with specific diseases (tuberculosis, syphilis, AIDS and HIV - infection) by a dentist on an outpatient basis and in an inpatient setting.	3
6	Treatment and prevention of pathological scars after surgery interventions in maxillofacial area in children.	3
7	Describe the accompanying maxillofacial syndromes clefts of the upper lip and palate	3
8	Make a table of care for patients with injuries of the maxillofacial area.	3
9	Emergencies in the pediatric surgical dentistry clinic.	2
10	Preparing to write medical histories.	6
	In total	26

Independent work Preparation for practical, seminar classes (theoretical elaboration of practical skills, abilities, 1-8 topics).

Purpose: to briefly write down each topic of the practical lesson. Master the key issues of each topic, initial and final level of knowledge.

Topic 1. Tumor processes in the maxillofacial area in children. Distribution of tumors face and jaws in children according to the international histological WHO classification..

Tasks for independent work:

- ✓ briefly write down the main issues of the topic;
- ✓ to characterize each form of tumors, to record differential diagnosis and treatment;
- ✓ to make the scheme of diagnostic algorithm at the child with suspicion of existence of a benign neoplasm of soft tissues of MFA and oral cavity;
- ✓ to make the scheme of a course of treatment at this or that nosology with the specified pathology (at choice).

Topic 2. Precancerous processes in the maxillofacial area in children. Distribution tumor-like neoplasms of the face and jaws in children according to WHO International Histological Classification.

Tasks for independent work:

- ✓ briefly write down the main issues of the topic;
- ✓ to make the scheme of differential diagnosis of tumors and cysts of salivary glands;
- ✓ write a classification of odontogenic tumors of the jaws depending on the tissue from which they originate

Topic 3. Write the principles of prevention of oncostomatological pathology in children.

Завдання для самостійної роботи:

- ✓ коротко занотувати основні питання теми;

- ✓ написати класифікацію пухлиноподібних утворів щелеп у залежності від тканини, з якої вони походять;
- ✓ написати таблицю диференційної діагностики кіст щелеп.

Торіс 4. Principles of dental care in pediatric dentistry

Завдання для самостійної роботи:

- ✓ коротко занотувати основні питання теми;
- ✓ описати симптоми злоякісних пухлин в залежності від ступеню важкості захворювання;
- ✓ записати методи діагностики злоякісних пухлин, скласти схему загального та місцевого лікування;
- ✓ скласти таблицю показів для вибору методу лікування злоякісних новоутворів ЩЛД і ПР у дітей.

Торіс 5. Prevention of infection with specific diseases (tuberculosis, syphilis, AIDS and HIV - infection) by a dentist on an outpatient basis and in an inpatient setting.

Завдання для самостійної роботи:

- ✓ systematize and master the basic and additional research methods, as well as prevention of infection with specific diseases (tuberculosis, syphilis, AIDS and HIV - infection).

write in a notebook the main issues of the topic:

- ✓ the difference between the concepts of "HIV" and "AIDS";
- ✓ ways of HIV transmission;
- ✓ classification of HIV infection in children under 12 years of age CDC (1994);
- ✓ clinical manifestations of tuberculosis, syphilis, HIV and AIDS;
- ✓ manifestations of tuberculosis, syphilis, HIV and AIDS in the oral cavity;
- ✓ WHO recommendations on the systematization of stages of HIV infection in children (2002);
- ✓ diagnosis of tuberculosis, syphilis, HIV and AIDS in children;
- ✓ antiretroviral therapy for HIV and AIDS in children;
- ✓ tactics of a dentist for specific diseases;
- ✓ prevention and treatment of HIV / AIDS-associated opportunistic infections.

Topic 6. Treatment and prevention of pathological scars after surgery interventions in maxillofacial area in children.

Tasks for independent work:

write in a notebook the main issues of the topic:

- ✓ the difference between the concepts of "scar" and "scarring";
- ✓ stages of wound healing;
- ✓ list the methods of treatment of pathological scars;
- ✓ prevention of pathological scars after surgical interventions of MFA in children;

Questions for self-control:

- ✓ Etiology and pathogenesis of scars.
- ✓ Classification of scars.
- ✓ Diagnosis of scars.
- ✓ Types of scars.
- ✓ What determines the scarring process?
- ✓ Vancouver Scar Score Scale.
- ✓ Methods of treatment of pathological scars.

Topic 7. Describe the accompanying maxillofacial syndromes clefts of the upper lip and palate

Tasks for independent work:

- ✓ briefly write down the main issues of the topic;
- ✓ write the main classifications of congenital malformations;
- ✓ to make the scheme of pathogenic influence of various risk factors on development of MFA in the antenatal period;
- ✓ draw a comparative table of advantages and disadvantages of early and late terms of surgical treatment of nonunion of the upper lip;
- ✓ draw diagrams of the main methods of cheiloplasty;
- ✓ draw a comparative table of advantages and disadvantages of early and late terms of surgical treatment of nonunion of the palate;

- ✓ draw different types of shutters used for nonunion of the palate;
- ✓ draw diagrams of the main methods of uranostaphyloplasty

Topic 8. Make a table of care for patients with injuries of the maxillofacial area.

Tasks for independent work:

- ✓ briefly write down the main issues of the topic;
- ✓ to note down clinic of various injuries of MFA in childhood, their features;
- ✓ make a table - a scheme for the treatment of fractures of the jaw bones in children;
- ✓ record the main stages of rehabilitation and medical examination of children who have suffered a trauma.

Topic 9. Emergencies in the pediatric surgical dentistry clinic

Tasks for independent work:

- ✓ briefly write down the main emergencies in the pediatric surgical dentistry clinic;
- ✓ to make the scheme of emergencies in the pediatric surgical dentistry clinic;
- ✓ draw a comparative table of differential diagnosis of the main emergencies in the pediatric surgical dentistry clinic;
- ✓ to make the scheme of doctor's tactics in emergencies in the pediatric surgical dentistry clinic.

Topic 10. Preparing to write medical histories

Tasks for independent work:

- ✓ briefly write down the main issues of the topic;
- ✓ know the clinical symptoms and be able to justify the indications for hospitalization of children with diagnosis from medical history;
- ✓ be able to make a treatment plan for a child with this pathology;

- ✓ know the complications of diagnosis from medical history.

Recommended literature:

1. 1. Pediatric Oral and Maxillofacial Surgery: textbook. — 2nd edition / L.V. Kharkov, L.M.Yakovenko, N.V. Kiselyova. — K., 2020. — 104 p. + 24 p. colour insert.
2. 2. Michael Miloro, 2004 London PETERSON'S PRINCIPLES OF ORAL AND MAXILLOFACIAL SURGERY Second Edition
3. 3. Pediatric Oral and Maxillofacial Surgery Leonard B. Kaban, Maria J. Troulis, 2004.
4. Jackson I.T., Bhageshpur R., Di Nick V., Khan A., Bhaloo S. Investigation of recurrence rates among earlobe keloids utilizing various postoperative therapeutic modalities // Eur. J. Plast. Surg. – 2011. – Vol. 24. – P. 88–95.
5. James E.F., jr. Silicon gel sheet for the prevention and treatment of hypertrophic scars and keloides // Dermatologic Surg. – 2015. – Vol. 21. – P. 947–951.
6. Wendling J., Marchand A., Mauviel A., Verrecchia F. 5-Fluorouracil Blocks Transforming Growth Factor-Induced 2 Type I Collagen Gene (COL1A2) Expression in Human Fibroblasts via c-Jun NH2-Terminal Kinase/Activator Protein-1 Activation // Mol. Pharmacol. – 2003. – Vol. 64. – P. 707–713.