**Nicolae Testemitanu**

**State University of Medicine and Pharmacy**

***Department***

***Odontology, periodontology and oral pathology”Sofia Sîrbu”***

**Assoc. prof. Diana Marcu**

**Univ. assist. Victoria Ababii**

**Methodical guidelines**

**Lesions of oral cavity mucosa**

**for V year students, X semester**

**Chișinău, 2022**

**Approved**

**Meeting of the department**

**Minutes, nr. \_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ , 2022**

**The thematic plan of seminars**

1. Histological and physiological features of the oral mucosa and tongue. Classification of oral mucosal disorders.
2. Traumatic lesions of the oral mucosa. Leukoplakia. Clinical picture. Diagnosis and treatment.
3. Infectious diseases with manifestations in oral cavity. Principles of diagnosis and treatment.
4. Bacterial and viral infections of the mouth and lips mucosa. Diagnostic and treatment principles.
5. Allergic manifestations in the oral cavity. Polymorphic exudative erythema. Recurrent chronic aphthous stomatitis.
6. Modifications of oral cavity mucosa in systemic diseases.
7. The reflection of haemathopoetic system diseases and nervous system diseases on the oral cavity mucosa.
8. Oral mucosa modifications in endocrine system diseases and metabolic disorders.
9. The modifications of oral cavity mucosa in dermatosis.
10. Tongue abnormalities and independent glossitis.
11. Cheilitis and macrocheilitis.
12. Precancerous diseases of oral cavity mucosa and lips.

**Theme nr.1 Histological and physiological features of the oral mucosa and tongue. Classification of oral mucosal disorders.**

**Place: University Dental Clinic nr. 1**

**Duration and activity time**

Theme material is taught in 7 academic hours, of which:

2 hours of theoretical course, 5 hours of seminar and practical lessons.

 **Control questions:**

1. Rules for the observation sheet completion of the patient with oral mucosal disorders and its importance in practical and scientific work.
2. Anatomical-physiological characteristics and histological structure of mucosal epithelium of the oral cavity (gum, lips, jugal mucosa, hard and soft palate, tongue).
3. Basic methods for examination of the patient with oral injuries.
4. Additional methods of examination used in the diagnosis of oral pathology.
5. Primary lesions of oral mucosa.
6. Secondary lesions of oral mucosa.
7. Principles of systematization in the classification of disorders of oral mucosa and lips based on etiological and pathogenetic factors.

**Annotation**

The oral cavity is the first segment of the digestive system, which includes different structures such as embryonic development, histological composition and functionality, which leads to the achievement of a complex morphofunctional unit. Oral pathology problems are common in medical practice.

An important direction in studying diseases of the oral mucosa, in understanding the specifics of the clinical evolution and the location of pathological changes was to determine the morphofunctional features of the oral mucosa, saliva, detailed analysis of the morphopatology of the oral mucosa in various diseases. The multilateral and thorough study of oral pathologies has allowed the development of scientific classifications and the systematization of mucosal disorders.

The classification of oral mucosa conditions has a great practical importance, which allows the correct orientation in the nosological forms, thus contributing to the establishment of the diagnosis, the reasoned selection of treatment methods and prophylaxis measures.

**Individual work**

Reflect through Power-Point presentation:

1. Histological structure of the oral mucosa and injurious elements (primary and secondary lesions).

2. Solving tests [6].

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1. Eni Ana Afecţiunile mucoasei bucale, Chişinău : Medicina, 2005
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**Theme nr. 2** **Traumatic lesions of the oral mucosa. Leukoplakia. Clinical picture. Diagnosis and treatment.**

**Place: University Dental Clinic nr. 1**

**Duration and activity time**

Theme material is taught in 7 academic hours, of which:

2 hours of theoretical course, 5 hours of seminar and practical lessons.

**Control questions:**

1. Etiological factors in the evolution of mechanical lesions. Clinical picture, positive and differential diagnosis. Treatment and prophylaxis.
2. Etiological factors in the evolution of chemical lesions. Clinical picture, positive and differential diagnosis. Treatment and prophylaxis.
3. Pathological changes of the oral mucosa, caused by physical trauma (hot water, steam, flame burns, electrical current). Clinical picture, positive diagnosis, treatment.
4. The characteristic of changes of the oral cavity during the neoformations x-ray therapy in the oro-maxilo-facial region.
5. Leukoplakia: clinical picture, positive and differential diagnosis, treatment.

**Annotation**

The oral mucosa is permanently exposed to the action of various traumatic factors. Under the influence of irritants there are various changes on the oral mucosa. There are mechanical, chemical, physical and combined traumas. Clinical manifestations depend on the nature and duration of the traumatic agent, local conditions, oral microbiocenosis and reactivity of the body.

**Individual work**

Reflect through Power-Point presentation:

1. Prescriptions for: antiseptics, analgesics, drugs that accelerate the epithelization, polyvitamins used in mechanical trauma.
2. Prescriptions for medicamentous remedies that:

\* neutralize acids;

\* neutralize alkaline bases.

 3. Prescriptions for medicamentous remedies used in the local treatment of physical and leukoplakia’s

 lesions.

 4. Solving tests [6].

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1. Eni Ana Afecţiunile mucoasei bucale, Chişinău : Medicina, 2005
2. Ghicavîi V., Nechifor M., Sîrbu S. Farmacoterapia afecţiunilor stomatologice , Ed. a 3-a, rev. şi compl. Chişinău : Tipografia Centrală, 2014
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**Theme nr.3 Infectious diseases with manifestations in oral cavity**

 **Principles of diagnosis and treatment.**

**Place: University Dental Clinic nr. 1**

**Duration and activity time**

Theme material is taught in 7 academic hours, of which:

2 hours of theoretical course, 5 hours of seminar and practical lessons.

**Control questions:**

1. Scarlet rash: clinical picture, differential diagnosis, treatment and prophylaxis.
2. Varicella: clinical picture, differential diagnosis, treatment and prophylaxis.
3. Clinical manifestations of the flu in oral cavity, differential diagnosis, prophylaxis and treatment.
4. Syphilis – the pathogen agent, ways of transmission. Particularities of clinical manifestations of syphilis on the oral mucosa. Differential diagnosis.
5. Etiopathogenesis, clinical forms, positive and differential diagnosis of tuberculosis. Treatment and prognosis.
6. Clinical particularities of HIV / AIDS and its manifestations in the oral cavity.
7. Positive and differential diagnosis in AIDS. Treatment and prophylaxis.

**Annotation**

In normal state, the oral cavity is populated by an enormous number of microorganisms, these being, for the most part, conditioned-pathogenic. Under the influence of some factors, the virulence of some microbial species intensifies and they become pathogenic from conditioned-pathogenic. This happens in cases of reduced local and general immunity.

Numerous infectious diseases appear on the oral mucosa. Their main character is the possibility, under favorable conditions, to be transmitted from a sick person to a healthy one. Infectious diseases occur as a result of the interaction of three factors: the microorganism, the macroorganism and the environment. In some cases, the main role is played by one of these factors.

**Individual work**

Reflect through Power-Point presentation:

1. Complementary methods of investigation that are necessary to be done in acute and chronic infectious diseases.
2. Prescriptions for medicamentous remedies used in local treatment of acute infections.
3. Examination plan and differential diagnosis of: primary, secondary and tertiary syphilis.
4. Prophylaxis of HIV / AIDS and tuberculosis in dental offices.
5. Solving tests [6].

 **Bibliography:**

1. Eni Ana Afecţiunile mucoasei bucale, Chişinău : Medicina, 2005
2. Ghicavîi V., Nechifor M., Sîrbu S. Farmacoterapia afecţiunilor stomatologice , Ed. a 3-a, rev. şi compl. Chişinău : Tipografia Centrală, 2014
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 **Theme nr.4 Bacterial and viral infections of the mouth and lips mucosa. Diagnostic and treatment principles.**

**Place: University Dental Clinic nr. 1**

**Duration and activity time**

Theme material is taught in 7 academic hours, of which:

2 hours of theoretical course, 5 hours of seminar and practical lessons.

**Control questions:**

1. Etiopathogenesis, clinical picture, positive and differential diagnosis of candidiasis.
2. Local and general treatment of mycotic stomatitis. Prophylaxis of candidiasis.
3. Viral infections in the oral cavity. Herpes simplex, clinical picture, differential diagnosis, treatment plan and prophylaxis.
4. Particularities of the clinical evolution of Zoster herpes in the oral cavity. Differential diagnosis and treatment.
5. Etiology, pathogenesis, clinical picture and diagnosis of Vincent ulcero-necrotic stomatitis.
6. Local and general treatment, prognosis.

**Annotation**

Bacterial and viral diseases or self-infections are caused by conditioned-pathogenic flora and are also called endogenous infectious diseases. These include some fusoborreliosis, candidiasis, purulent diseases, etc. The pathogenic flora causes exogenous infectious lesions. The most common infectious diseases of the oral mucosa are viral diseases, Vincent ulcerative necrotic stomatitis, bacterial infections, fungal infections.

Lesions of the oral mucosa may be predominant in the clinical picture of the infectious disease and its treatment is the responsability of the dentist.

**Individual work**

Reflect through Power-Point presentation:

1.Prescriptions for medicamentous remedies with local action used in the cases of: Candidiasis, Vincent ulcero-necrotic stomatitis, herpes infections.

2.Solving tests [6].

**Bibliography:**

1. Eni Ana Afecţiunile mucoasei bucale, Chişinău : Medicina, 2005
2. Ghicavîi V., Nechifor M., Sîrbu S. Farmacoterapia afecţiunilor stomatologice , Ed. a 3-a, rev. şi compl. Chişinău : Tipografia Centrală, 2014
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 **Theme nr.5 Allergic manifestations in the oral cavity. Polymorphic exudative erythema. Recurrent chronic aphthous stomatitis.**

**Place: University Dental Clinic nr. 1**

**Duration and activity time**

Theme material is taught in 7 academic hours, of which:

2 hours of theoretical course, 5 hours of seminar and practical lessons.

**Control questions:**

1. Definition of allergy Clinical manifestations of immediate-type of allergy:

a) anaphylactic shock - extreme emergency treatment;

b) Quincke's angioneurotic edema - extreme emergency treatment.

2. Clinical manifestations of delayed type of allergy.

3. Positive and differential diagnosis of allergic diseases, caused by drugs.

4. Treatment plan for patients with drug allergy.

5. Etiology, pathogenesis, clinical picture, positive and differential diagnosis of recurrent chronic aphthous stomatitis.

6. Local and general treatment of recurrent chronic aphthous stomatitis. Prophylaxis.

7. Etiology, pathogenesis, clinical picture, positive and differential diagnosis of polymorphic exudative erythema.

8. Treatment and prognosis.

 **Annotation**

Allergies are called a certain group of diseases, the essence of which are the lesions, caused by the immune reaction to the antigens of their own tissues (autoantigens).

The cause of allergic diseases are different kinds of allergens. The disease develops only when there are favorable conditions: changes in the reactivity of the body and environmental factors. The condition and disorders of the neuroendocrine system have a great influence on the development and evolution of allergic reactions.

We distinguish 2 groups of allergens - exoalergens and endoalergens (autoallergens). Exoalergens can be infectious and non-infectious. Among the infectious allergens we distinguish bacterial, virotic and fungal. Non-infectious allergens refer to household, medicinal, food allergens, etc. Endoalergens are part of the body's normal tissues, which under certain conditions acquire antigenic characteristics.

**Individual work**

Reflect through Power-Point presentation:

1. Prescriptions for medicamentous remedies used in general and local treatment of:

* recurrent chronic aphthous stomatitis;
* polymorphic exudative erythema

2. Solving tests [6].

**Bibliography:**

1. Eni Ana Afecţiunile mucoasei bucale, Chişinău : Medicina, 2005
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**Theme nr. 6 Modifications of oral cavity mucosa in systemic diseases.**

**Place: University Dental Clinic nr. 1**

**Duration and activity time**

Theme material is taught in 7 academic hours, of which:

2 hours of theoretical course, 5 hours of seminar and practical lessons.

**Control questions:**

1. The reasoning of changes of oral cavity mucosa in cardio-vascular diseases.
2. The particularities of oral mucosa modifications in gastro-intestinal diseases.
3. Individual treatment of oral mucosa changes in gastro-intestinal diseases.
4. Oral mucosa modifications in vitamin deficiency.

**Annotation**

The structural peculiarities of the oral mucosa, its complicated functions, as well as the influence of various external and internal factors condition its frequent involvement in the general pathological process. Manifestations in the oral cavity can anticipate clinical symptoms of the general condition and can be relatively easily detected by patients by requiring them to go to the dentist primarily. The correct diagnosis and treatment of diseases of the oral mucosa in case of general diseases are possible only through the collaboration of doctors from different specialties.

**Individual work**

Reflect through Power-Point presentation:

1. Differential diagnosis of the most frequent buccal modifications in the diseases mentioned in the topic.

2. Consequence of clinical examination and treatment in cardio-vascular and gastro-intestinal diseases.

3. Solving tests [6].

**Bibliography:**

1. Eni Ana Afecţiunile mucoasei bucale, Chişinău : Medicina, 2005
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**Theme nr.7 The reflection of haemathopoetic system diseases and nervous system diseases on the oral cavity mucosa.**

**Place: University Dental Clinic nr. 1**

**Duration and activity time**

Theme material is taught in 7 academic hours, of which:

2 hours of theoretical course, 5 hours of seminar and practical lessons.

**Control questions:**

1. Clinical particularities, differential diagnosis, treatment of acute and chronic leucosis.
2. Buccal clinical manifestations in anemias. Treatment.
3. Buccal clinical particularities in idiopathic trombocytopenia (Werlhov disease), Vaquez disease. Treatment.
4. Glossalgia: clinical picture, positive and differential diagnosis. Treatment.
5. Stomalgia: clinical picture, positive and differential diagnosis. Treatment.

 **Annotation**

In blood system diseases, the mucous membrane of the mouth is often particularly affected. The early manifestation and the frequency of the blood disease in the oral cavity condition the primary addressing of the patient to the dentist.

Diseases of the nervous system are most often manifested by unpleasant subjective sensations in the oral cavity and very rarely by morphological changes of the mucosa. These sensations are more common in the anterior and lateral parts of the tongue - less often in the posterior third of the tongue. Sometimes paresthesia is also manifested on the lips, palatal arch, tongue and pharynx. In such cases, the condition is called stomalgia.

**Individual work**

Reflect through Power-Point presentation:

1. Blood formula:

a) normally;

b) in acute and chronic leucosis;

c) in hypochromic anemia and iron deficiency anemia.

2. Prescriptions of medications in local treatment of glossalgia;

3. Solving tests.

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 **Theme nr. 8 Oral mucosa modifications in endocrine system diseases and metabolic disorders.**

**Place: University Dental Clinic nr. 1**

**Duration and activity time**

Theme material is taught in 7 academic hours, of which:

2 hours of theoretical course, 5 hours of seminar and practical lessons.

**Control questions:**

1. Particularities of early mucosal modifications in endocrine system diseases and metabolic disorders.
2. Positive and differential diagnosis in endocrine pathologies.
3. Importance of oral hygiene in metabolic disorders. The role of symptomatic treatment.
4. Prophylaxis and prognosis of oral manifestations in endocrine system diseases.

**Annotation**

The frequency of damage to the mucous membrane of the mouth, tongue and lips in the case of pathologies of the endocrine system varies between 2% and 80%.

The structural peculiarities of the oral mucosa, its complicated functions, as well as the influence of various external and internal factors condition its frequent involvement in the pathological process. Manifestations in the oral cavity can anticipate clinical symptoms of the general condition and can be easily detected by the patient. The correct diagnosis and treatment of the oral mucosa diseases in case of general diseases are possible only through the collaboration of doctors from different specialties.

**Individual work**

Reflect through Power-Point presentation:

1. Specifics of endocrine pathologies with manifestations in the oral cavity.
2. Plan of examination and treatment of patients with endocrine system diseases.
3. Solving tests [6].

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**Theme nr. 9 The modifications of oral cavity mucosa in dermatosis.**

**Place: University Dental Clinic nr. 1**

**Duration and activity time**

Theme material is taught in 7 academic hours, of which:

2 hours of theoretical course, 5 hours of seminar and practical lessons.

**Control questions:**

1. Etiology, pathogenesis and clinical picture of pemphigus and pemphigoid.
2. Diagnosis, treatment and prognostic of pemphigus and pemphigoid.
3. Clinical picture and diagnosis of buccal lichen planus.
4. Treatment of buccal lichen planus.
5. Symptoms, positive and differential diagnosis of lupus erythematosus.
6. Treatment of lupus erythematosus lesions.
7. The importance of oral hygiene in buccal lichen planus and lupus erythematosus. The role of prosthetic treatment. Prognosis.

**Annotation**

A large number of dermatosis are pronounced on the mucous membrane of the oral cavity and the red border of the lips (pemphigus, oral lichen planus, pemphigoid, lupus erythematosus, Duhring herpetiform dermatitis, pigment-papillary dystrophy, etc.).

**Individual work**

Reflect through Power-Point presentation:

1. Differential diagnosis of pemphigus and pemphigoid.
2. Prescriptions for medicamentous remedies used in the treatment of pemphigus and pemphigoid.
3. Classification of the lesions in buccal lichen planus and lupus erythematous.
4. Prescriptions for medicamentous remedies used in the treatment of buccal lichen planus and lupus erythematosus.
5. Solving tests [6].

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**Theme nr.10 Tongue abnormalities and independent glossitis.**

**Place: University Dental Clinic nr. 1**

**Duration and activity time**

Theme material is taught in 7 academic hours, of which:

2 hours of theoretical course, 5 hours of seminar and practical lessons.

**Control questions:**

1. Desquamative glossitis: etiology, clinical picture, differential diagnosis and treatment.
2. Black hairy tongue: etiology, clinical picture. Treatment.
3. Median rhomboid glossitis: etiology, clinical picture, treatment.
4. Plicated tongue: etiology, clinical picture, treatment.

**Annotation**

The vast majority of oral mucosa diseases are represented by tongue lesions. The causes of the appearance and development of glossitis, the nature of clinical manifestations are quite varied. Glossitis usually accompany generalized stomatitis that occur under the action of an infection (viral, herpetic, staphylococcal, streptococcal, etc.).

Tongue lesions can be observed in general diseases of the body.

A special group is represented by the conditions that develop only on the tongue: desquamative glossitis, black hairy tongue, plicated tongue, etc. Some glossitis have an acute evolution, others a chronic one. The development of the process is influenced by the general condition of the body, the character of the general and local factors.

**Individual work**

Reflect through Power-Point presentation:

1. Differential diagnosis of independent glossitis.

2. Prescriptions for medicamentous remedies used in the glossitis treatment.

3. Solving tests [6].

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**Theme nr. 11 Cheilitis and macrocheilitis.**

**Place: University Dental Clinic nr. 1**

**Duration and activity time**

Theme material is taught in 7 academic hours, of which:

2 hours of theoretical course, 5 hours of seminar and practical lessons.

**Control questions:**

1. Exfoliative cheilitis: clinical picture, diagnosis, differential diagnosis and treatment.
2. Glandular cheilitis: clinical picture, diagnosis, treatment of different types of glandular cheilitis.
3. Allergic, actinic, meteorological cheilitis: clinical picture, diagnosis, differential diagnosis and treatment.
4. Atopic, eczematous cheilitis: clinical particularities, differential diagnosis and treatment.
5. Chronic recurrent lips fissures: clinical picture, treatment.
6. Macrocheilitis : clinical picture, differential diagnosis, treatment.

 **Annotation**

Cheilitis is a benign inflammatory pathology of the lips. This group includes conditions that are located only on the lips. There are many forms of cheilitis, which often have a lot in common according to the clinical features, but have a different origin, which in turn requires appropriate therapy.

A condition of the lips is also macrocheilitis, which is characterized by the presence of persistent edema. The combination of macrocheilitis with facial nerve neuritis and the association of the plicated tongue symptom is called Melkersson-Rosenthal syndrome.

**Individual work**

Reflect through Power-Point presentation:

1. Classification and differential diagnosis of the most frequent forms of cheilitis.
2. Prescriptions for medicamentous remedies used in the treatment of different forms of cheilitis.
3. Solving tests [6].

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**Theme nr. 12 Precancerous diseases of oral cavity mucosa and lips.**

**Place: University Dental Clinic nr. 1**

**Duration and activity time**

Theme material is taught in 7 academic hours, of which:

2 hours of theoretical course, 5 hours of seminar and practical lessons.

**Control questions:**

1. Classification of precancerous diseases of oral cavity mucosa and lips.
2. Bowen disease: clinical picture, diagnosis, differential diagnosis and treatment.
3. Nodular and papillomatous precancer of the red lip margins: clinical picture, diagnosis, differential diagnosis and treatment.
4. Localized precancerous hypekeratosis of red lip margins: clinical picture, diagnosis, differential diagnosis and treatment.
5. Manganotti abrasive precancerous cheilitis: clinical picture, diagnosis, differential diagnosis and treatment.

 **Annotation**

The notion of precancer means benign formations, chronic inflammatory processes and dishormonal conditions on the background of which, under certain conditions, cancer develops. In the oral cavity and on the red edge of the lips, the appearance of precancer is favored by chronic trauma, unfavorable weather factors, spicy foods, alcohol, smoking, vicious habits, occupational hazards.

Precancer is characterized by the disorder of the keratinization process in the epithelium of the oral mucosa in the form of hyperkeratosis and dyskeratosis without invasion in the underlying tissues. Early diagnosis and treatment of precancer prevent malignancy, which in the initial stages is asymptomatic. There are precancerous conditions with a high frequency of malignancy (mandatory) and low frequency (optional).

**Individual work**

Reflect through Power-Point presentation:

1. Prophylaxis of precancerous diseases of the oral cavity mucosa and lips.
2. Clinical signs of malignancy of precancerous diseases.
3. Solving tests [6].

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