

The advanced state examination – periodontics and oral medicine

1 - Macroscopic and microscopic anatomy of periodontal tissues (gingiva, periodontal ligament, root cementum, alveolar bone, blood supply, lymphatic system, and nerves of periodontium).

2 - Epidemiology of periodontal diseases. Dental plaque, gingival and periodontal indices. Prevalence of periodontal diseases. Periodontal disease in adults, in adolescence, and in children. Risk factors for periodontitis. Periodontal infection as a risk for systemic disease.

3 - Microbial dental plaque: development, structure and distribution. Dental calculus: clinical appearance and diagnosis, distribution, attachment to tooth surfaces, mineralization, structure, and clinical implications.

4 - Periodontal infection. Non-specific and specific plaque hypothesis. Periodontal pathogens. Mechanisms of pathogenicity. Gingival inflammation, histopathological features of gingivitis and periodontitis. Host defence processes. Components of the immune system.

5 - Periodontal disease – external and internal modifying factors.

6 - Occlusal periodontal trauma and plaque-associated periodontal disease. Occlusal adjustment. Influence of orthodontic anomalies on periodontal disease. Effect of orthodontic treatment on the periodontium. Orthodontic loading and alveolar bone. Splinting and stabilization.

7 - Plaque-induced and non-induced gingival diseases. Classification criteria. Clinical features, treatment.

8 – Periodontitis: diagnosis, clinical forms and prevalence. Risk factors, clinical features, progression, principles of therapeutic intervention.

9 - Periodontal abscess: risk factors, clinical features, treatment. Differential diagnosis and classification of abscesses in oral cavity. Gingival recessions – etiology, classification.

10 - Necrotizing periodontal disease: risk factors, clinical features, differential diagnosis, treatment.

11 - Examination of patients with periodontal diseases. History (Anamnestic information) of periodontal patients. General intraoral examination, indices CPITN, PBI, oral hygiene status, examination of oral mucosa, supplementary dental examination.

12 - Radiographic examination. Radiographic methods, clinical vs. radiological examination, radiological criteria for gingivitis and periodontitis, types of bone resorption.

13 - Treatment planning of patients with periodontal diseases. Sequence of treatment. Initial treatment, periodontal surgery, maintenance treatment.

14 - Periodontal surgery. Flap procedures. Mucogingival surgery.

15 - Classification of periodontal diseases (ADA 1999).

1 - Morphology of the oral mucosa. Histopathological changes of the oral mucosa. Diagnostic process - history and principles of examination of patient with oral mucosa disease. Objective findings, additional laboratory tests.

2 - Common anatomical abnormalities. General external and internal causes of oral mucosa diseases. Manifestation of systemic diseases in oral cavity - classification.

3 - Viral diseases in the oral cavity. Primary herpetic gingivostomatitis, recurrent herpes - clinical features, differential diagnosis, treatment. Herpes zoster - clinical features, differential diagnosis, treatment. Other viral diseases.

4 - Oral candidiasis - local and systemic predisposing factors, clinical forms, clinical features, differential diagnosis, treatment. Angular cheilitis.

5 - Recurrent aphthous ulcers. Clinical forms. Clinical features, differential diagnosis, treatment.

6 - Oral lichen planus. Etiology. Clinical forms. Clinical features, differential diagnosis, treatment.

7 - Erythema multiforme. Predisposing factors. Clinical features, differential diagnosis, treatment.

8 - Oral manifestations of autoimmune diseases. Blistering lesions. Pemphigus vulgaris, cicatricial pemphigoid. Clinical features and histopathological changes, differential diagnosis, treatment.

9 - Diseases of toxic-allergic origin, oral lesions due to drugs (allergic stomatitis, contact allergy). Clinical features, differential diagnosis, treatment.

10 - Stomatitis caused by mechanical, thermal and chemical factors. Traumatic ulcer, morsicatio buccarum, mucosal burns, nicotinic stomatitis, actinic cheilitis, electrogalvanic stomatitis. Clinical features, differential diagnosis, treatment.
Pigmented lesions – differential diagnosis.

11 - Precancerous lesions. Precancerous conditions. Epithelial dysplasia.
Leukoplakia - etiology, clinical forms, clinical features, differential diagnosis, treatment.
Erythroplakia.

12 - Manifestation of systemic diseases in oral cavity - haematologic diseases. Haemorrhagic diatheses, haemoblastosis, anaemias. Clinical features, differential diagnosis, therapeutic implications.

13 - Manifestation of systemic diseases in oral cavity - endocrine diseases, diseases of GIT. Clinical features, differential diagnosis.

14 - Manifestation of systemic diseases in oral cavity – tuberculosis, syphilis, HIV infection. Clinical features, additional laboratory tests, differential diagnosis.

15 - Disorders of saliva secretion, xerostomia, Sjögren's syndrome. Stomatodynia and glossodynia (burning mouth syndrome).