Syllabus for state examination - periodontology

1. Periodontal tissues. Gingiva – macroscopic and microscopic structure. Blood supply.
2. Gingivodental connection. Gingival crevicular fluid – origin, composition, physiologic activity.
3. Periodontal structures. Alveolar bone – structural and functional characteristics. Blood supply. Periodontal ligament and cementum – structure and functions as part of the periodontium.
4. Etiology of periodontal diseases – dental plaque (structural and topographic characteristics, phase changes during maturation). Dental plaque as biofilm.
5. Natural plaque-retentive factors – their significance for the etiology of periodontal diseases.
6. Iatrogenic plaque-retentive factors – types, their significance for the etiology of periodontal diseases.
7. Bacterial flora – types, virulence, possibilities for host tissues' damage. Periodontopathic microorganisms. Bacterial flora at different types of periodontal diseases.
8. Dental calculus – origin, topographic characteristics, clinical significance.
9. Periodontal pathogenesis. Pathogenic potential of the biofilm. Inflammatory and immune responses in periodontal pathogenesis.
10. Co-factors in etiology of periodontal diseases – local and systemic.
11. Epidemiology of periodontal diseases – the significance of age, sex, oral hygiene, caries, orthodontic deformities, systemic diseases, genetic disorders, socio-economic conditions.
12. Methods of clinical examination – anamnesis, local and overall status.
13. Methods of clinical examination. Diagnosis of dental plaque – quantative, cultural and microscopic methods. Diagnostics of dental calculus.
14. Methods of clinical examination. Examination of free and attached gingiva.
15. Gingival crevicular fluid – methods of examination, diagnostic value.
16. Methods of clinical examination. Examination of sulcus gingivalis and periodontal pocket. Checking the activity of the pocket.
17. Methods of clinical examination. Indices of furcation involvement and tooth mobility.
18. Indices for oral hygiene status – criteria, numerical values, application.
19. Indices for gingival and periodontal condition - criteria, numerical values, application.
20. Advanced diagnostics of periodontal diseases.
21. Initial periodontal therapy. Aim, rationale, instruments, sequence of procedures.
22. Plaque control – personal oral hygiene. Basic methods and techniques – indications, application, efficacy.
23. Plaque control – personal oral hygiene. Additional methods and techniques – indications, application, efficacy.
24. Chemical plaque control – rationale, indications, contraindications.
25. Chemical plaque control – devices, methods, indications, efficacy, side effects.
26. Gingivitis catarrhalis – etiology, histopathology, clinical features.
27. Gingivitis catarrhalis – diagnostics, treatment, prognosis.
28. Gingivitis, modified by sex hormones – types, clinical features, treatment, prognosis, prophylaxis.
29. Drug-induced gingival enlargement. Types of drugs. Clinical features, diagnosis, differential diagnosis, treatment, prophylaxis.
30. Gingival lesions (desquamative gingivitis) in patients with autoimmune diseases (pemphigus vulgaris, pemphigoid, lichen planus) - clinical features, diagnosis, differential diagnosis, treatment.

31. Necrotizing ulcerative gingivitis - etiology, histopathology, clinical features.
32. Necrotizing ulcerative gingivitis – diagnosis, treatment, prognosis.
33. Chronic periodontitis – etiology, pathogenesis, histopathology.
34. Chronic periodontitis – clinical features, diagnosis, progression, prognosis.
35. Chronic periodontitis. Treatment plan; sequence of procedures.
36. Aggressive periodontitis. Etiology, clinical features, diagnosis, progression.
37. Aggressive periodontitis. Treatment plan. Prognosis.
38. Periodontitis, influenced by systemic diseases and conditions (blood and endocrine disorders, immunosuppressive and metabolic disorders, nutritional influences). Specificity in the clinical course, diagnosis and treatment.
39. Aging of the periodontium (atrophy) – types, clinical features, treatment.
40. Gingival recession. Types of recessions, clinical features, diagnosis, complications.
41. Periimplantitis. Periimplant mucositis. Complications and periimplant treatment. Clinical symptoms. Specific diagnostic methods.
42. Trauma from occlusion – predisposing factors, primary and secondary trauma, histopathologic changes, main clinical symptoms.
43. Trauma from occlusion – diagnosis, treatment guidelines.
44. Initial phase in the treatment of chronic periodontitis – goals, rationale, sequence of procedures.
45. Subgingival medication in periodontal diseases – indications, local delivery agents. Efficacy.
46. Systemic administration of antibiotics in periodontal diseases. Rationale, types of antibiotics (dosage). Efficacy.
47. Gingival curettage. Rationale, indications, sequence of procedures. Efficacy.
48. Gingival curettage. Healing after scaling and curettage. Reparation of periodontal structures. New attachment formation – critical analysis.
49. Corrective phase in the treatment of periodontal diseases. Gingival surgical techniques. Gingivectomy and gingivoplasty.
50. Corrective phase in the treatment of periodontal diseases. Flap surgery. Modified Widman flap.
51. Corrective phase in the treatment of periodontal diseases. Flap surgery. Osteoplasty.
52. Corrective phase in the treatment of periodontal diseases. Guided tissue regeneration.
53. Corrective phase in the treatment of periodontal diseases. Splinting of mobile teeth.
54. Supportive periodontal treatment. Rationale. Examination and evaluation, checking the plaque control, maintenance program and intervals of the visits.

Approved by:

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