P E R I O D O N T O L O G Y

Semester exam syllabus

1. Periodontal tissues – macroscopic and microscopic anatomy of the gingiva. Supracrestal tissue attachment.
2. Alveolar bone – morphology, blood and nerve supply, function. Root cementum – structure and function as part of periodontal tissues. Periodontal ligament – structure and function.
3. Etiology of periodontal diseases – current concept.
4. Dental biofilm – definition, development, bacterial composition, bacterial interrelationships, maturation.
5. Natural plaque retentive factors in the pathogenesis of periodontal diseases. Supra- and subgingival dental calculus – origin, topography, etiologic significance.
6. Iatrogenic factors in the pathogenesis of periodontal diseases – plaque retention, relation to supracrestal tissue attachment. Diagnosis and correction.
7. Bacterial flora – pathogenic and beneficial, virulence, ability of periodontal microorganisms for direct and indirect tissue damage.
8. Microbiology of periodontal diseases – suspected periodontal pathogens, criteria for defining periodontal pathogens, microbial complexes, mechanisms of pathogenicity.
9. Pathogenesis of periodontal diseases – current concept for initiation and progression of the inflammatory destructive diseases of the gingiva and the periodontium.
10. Pathogenesis of periodontal diseases – effectiveness of host response – potential of defense.
11. Pathogenesis of periodontal diseases – host response – destructive aspect.
12. Pathomorphology of gingivitis and periodontitis.
13. New classification of periodontal and peri-implant diseases and conditions – groups and criteria for classification.
14. New classification of periodontal and peri-implant diseases and conditions – staging and grading of periodontitis.
15. Methods for evaluation of oral hygiene and gingival status – results, interpretation, clinical significance.
16. Periodontal status – criteria, diagnostic significance, influence on the treatment modalities.
17. Gingival crevicular fluid/exudate – origin, composition, function. Biochemical tests of crevicular fluid – methods, diagnostic significance.
18. Radiographic diagnosis of periodontal diseases – methods, radiographic bone loss criteria, diagnostic significance.

19. Morphology of bone defects, measurements. Therapeutic decision making on the defect morphology.
20. Microbiological diagnosis of periodontal diseases – indications, methods, diagnostic significance.
21. Risk factors, determinants and predictors for periodontal disease. Risk assessment.
22. Personal plaque control. Importance for the prophylaxis and treatment of periodontal diseases. Characteristics in health and in periodontal disease – means and procedures.
23. Chemical plaque biofilm control – rational, indications and contraindications. Agents for chemical plaque control - types, use, effectiveness, adverse effects.
24. Plaque-induced gingival diseases – classification, etiology, clinical characteristics, diagnosis, evolution, treatment and prognosis.
25. Necrotizing periodontal diseases – etiology, pathomorphology, clinical characteristics, diagnosis, progression.
26. Necrotizing periodontal diseases – treatment, prognosis.
27. Plaque-induced gingivitis modulated by sex steroid hormones – classification, clinical presentation, diagnosis, treatment, prognosis.
28. Gingival enlargement – etiology, diagnosis, clinical presentation, treatment.
29. Non–plaque-induced gingival diseases – classification, diagnostic criteria, lesions.
30. Non-plaque-induced gingival diseases with specific bacterial origin.
31. Non-plaque-induced gingival diseases with viral origin. Oral manifestation of Human Immunodeficiency infection and acquired immune deficiency syndrome.
32. Non-plaque-induced gingival diseases with fungal origin.
33. Non–plaque-induced gingival diseases connected with dermatological diseases – vesiculobullous, Lichen planus, Leukoplakia.
34. Non–plaque-induced gingival diseases connected with dermatological diseases – Erythema multiforme, allergic reactions.
35. Periodontitis – clinical presentation, diagnosis, evolution, prognosis.
36. Periodontitis – treatment plan, considerations and phases.
37. Non-surgical periodontal therapy – sequence of procedures, instruments, approaches to subgingival instrumentation.
38. Systemic antibiotic therapy for periodontal diseases – rational, indications. Host modulation – action, indications, agents.
39. Periodontal pocket treatment in the initial therapy – scaling and root planing – goal, sequence of procedures, effectiveness. Indications and contraindications. Topical antimicrobial therapy for the periodontal pocket – rational, indications.
40. Re-evaluation after non-surgical periodontal therapy – goals, significance, interpretation of the measurements.
41. Effectiveness of non-surgical periodontal therapy. Periodontal pocket healing.

42. Corrective phase in the treatment plan of periodontitis – planning of surgical periodontal therapy.
43. Resective pocket surgery – types of resective procedures. Indications for selection of treatment technique. Limitations and contraindications.
44. Regenerative periodontal therapy – approaches, biologic concept, effectiveness.
45. Regenerative periodontal therapy – factors, influencing therapeutic success. Rules for achieving predictive result. Current surgical approaches.
46. Supportive periodontal therapy – objectives, diagnostic criteria, recall intervals. Assessment of risk for progression.
47. Diagnosis, prediction and prevention of recurrence and progression of periodontal diseases.
48. Refractory periodontal disease – factors, clinical parameters, diagnosis. Treatment.
49. Systemic diseases and conditions that affect the periodontal attachment apparatus - classification, diagnostic criteria.
50. Periodontitis, associated with diabetes. Interdependence, diagnosis, treatment.
51. Periodontitis modified by environmental and behaviour factors – smoking, medication.
52. Periodontitis as manifestation of systemic diseases: Papillon-Lefevre syndrome, Down syndrome – pathogenesis, clinical presentation, diagnosis, evolution and prognosis. Treatment.
53. Periodontitis as manifestation of systemic diseases: blood disorders – clinical presentation, diagnosis, evolution and prognosis. Treatment.
54. Acute periodontal conditions – abscesses. Etiology, clinical presentation, diagnosis, treatment.
55. Endo-periodontal lesions. Pathogenesis, clinical presentation, differential diagnosis, treatment.
56. Trauma from occlusion – definition, concept, clinical characteristics, treatment.
57. Splinting of periodontally compromised teeth. Indications and techniques.
58. Peri-implant interface – histological characteristic. Peri-implant health – definition, diagnostic methods.
59. Peri-implant mucositis – definition, etiology, diagnosis, treatment, prognosis, prevention.
60. Peri-implantitis - definition, etiology, diagnosis, treatment, prognosis, prevention.

2021 y.

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