SEMMELWEIS UNIVERSITY
FACULTY OF DENTISTRY DEPARTMENT OF PERIODONTOLOGY

Director
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Periodontology Final Exam Topics

A) General Periodontology

1. Macroscopic and microscopic anatomy of the gingiva. Concept and function of the gingival sulcus and epithelial attachment.
2. Macroscopic and microscopic anatomy and function of the periodontal supporting apparatus.
3. Origin and development of periodontal tissues. Biology of alveolar bone.
4. Normal defensive functions of periodontal tissues.
5. Mechanism of dental plaque and calculus formation. Concept of biofilm. Light and electron microscopic structure of dental plaque. Microbiology of the dental biofilm.
6. Microbiology of subgingival dental plaque, perio-pathogenic microorganisms.
7. Experimental gingivitis model. Histology and immunology of initial gingivitis.
8. Histology and immunology of early and advanced gingivitis.
9. Histology and immunology of initial periodontitis.
10. Role of PMN leukocytes, monocytes, and systemic factors in the pathomechanism of periodontitis.
11. Role of local factors in the pathomechanism of periodontitis, elimination of local plaque-retentive factors.
12. Role of systemic factors. Course of periodontitis: the process of supporting tissue destruction.
13. Classification of periodontal diseases.
14. Clinical and subjective symptoms of plaque-induced gingivitis.
15. Gingivitis with systemic background, gingivitis associated with nutritional deficiencies.
16. Relationship between periodontitis and smoking.
17. Periodontal pocket as a dental focal point. Systemic connections of periodontal infection.

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18. Non-plaque-induced gingival diseases.
19. Role of the keratinized gingiva in the mechanical protection of the periodontium.
20. Causes and consequences of gingival recession. Types of gingival recession.
21. Drug-induced gingival hyperplasia, pregnancy-related gingival hyperplasia.
22. Characteristics, symptoms, and treatment of stage I and II periodontitis.
23. Characteristics, symptoms, and treatment of stage III and IV periodontitis.
24. Oral hygiene indices.
25. Gingival indices. Diagnosis of gingivitis.
26. Periodontal indices. Significance of the CPITN/PSR/BPE index.
27. Radiological diagnosis of periodontal lesions. Morphology of periodontal defects.
28. Epidemiology of periodontal diseases.
29. Prevention of periodontal diseases, prevention strategies (primary, secondary, and tertiary).

B) Periodontal Therapy

30. Comprehensive periodontal treatment. Planning of a complex- and individualized periodontal treatment plan.
31. Types, causes, diagnosis, and management of acute periodontal conditions.
32. Establishment of effective individual oral hygiene. Tools of professional oral hygiene.
33. Chemical plaque control and systemic antibiotic treatment.
34. Implementation of subgingival debridement and root planning. Tools utilized for subgingival debridement and root planning and their maintenance. Root surface debridement (RSD). Re-evaluation after cause-related periodontal therapy.
35. Healing of periodontal tissues, reparation and regeneration. Regenerative potential of different periodontal tissues.
36. Basics of surgical periodontal treatment, indications, and contraindications.

37. Classification of periodontal flaps, incision- and suture techniques in periodontal surgery.
38. Role of gingivectomy and gingivoplasty in periodontal surgery.
39. Open flap debridement (OFD). The modified Widman flap surgery (MWF). Excisional new attachment procedure (ENAP).
40. Apically repositioned flap surgery and the treatment of advanced horizontal bone loss.
41. Treatment options for vertical bone loss. Basics of regenerative periodontal surgery.
42. Basics, historical background, and surgical techniques of guided tissue regeneration (GTR) procedures. Resorbable and non-resorbable barrier membranes.
43. Biological effects and application of enamel matrix derivatives (EMD/EMP) in periodontal regenerative surgery.
44. Biological mediators. Role of autologous growth factors in periodontal surgery and healing. Platelet concentrates (PRP, PRG, PRF).
45. Application of bone grafts in periodontal regenerative surgery. Combined and special procedures.
46. Treatment of furcation lesions.
47. Mucogingival surgery I: Surgical correction of gingival recession.
48. Mucogingival surgery II: Vestibuloplasty.
49. Occlusal adjustment, correction of secondary occlusal trauma, and prosthetic rehabilitation. Periodontal principles and considerations in prosthodontics.
50. Indications, classification, and technical possibilities of periodontal splinting.
51. Interface between endodontics and periodontology. Endo periodontal diseases.
52. Periodontal maintenance and recall. Factors determining recall intervals. Criteria for the success of periodontal treatment.
53. Relationship between orthodontics and periodontology. Guidelines for orthodontic treatment of periodontally affected patients.
54. Alveolar ridge preservation. Procedures for alveolar ridge augmentation. GBR.

55. Biological width (supracrestal soft tissue attachment) around teeth and implants.
56. Considerations for implant placement in patients with periodontitis.
57. Concepts and treatment options for peri-implant mucositis and peri-implantitis.

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