1. Marginal periodontium. Definition. Composition. Functions.
2. Superficial periodontium. Definition. Structure.
3. **Supporting periodontium. Defiinition. Structure.**
4. **Biomechanics of the teeth. Definition of hypomoclion.**
5. **The role of the tooth biomecanics in the initial stage and development of periodontal disease.**
6. **Gingiva. Types of gingiva.**
7. **Clinical signs of the healthy gingiva (colour, texture, consistency).**
8. Gingival papilla, the structure and funcitons.
9. Marginal gingiva, the structure and funcitons.
10. Attached gingiva, the structure and funcitons.
11. **Periodontal ligament (PDL).**
12. **Cementum.** the structure, and funcitons.
13. **Alveolar socket bone.**
14. **Alveolar supporting bone. Cortical and spongious bone.**
15. **Definition of bone resorbtion and apposition.**
16. Gingiva. The gingiva connective tissues structures and epithelium.
17. Oral epithelium. The structure and funcitons.
18. Sulcular epithelium. The structure and funcitons.
19. Junctional epithelium (JE). Structure. Function. Composition. Role in development of periodontal disease.
20. Blood supply and nerves of periodontium.
21. Gingival crevicular fluid. The composition and funcitons.
22. Gingival fibers. The types of gingival fibers. **Description of morphology and function of : (**circular fibers, dentogingival fibers, dentoperiosteal fibers, alveologingival fibers.)
23. Gingival sulcus. Definition. Structure. Composition.
24. **Biologic width. Definition. Measuresments.**
25. **Periodontal instruments for examination.**
26. **Measurements of periodontal pockets. Clinical and paraclinical methods. Florida probe.**
27. Tooth Mobility. Physiological mobility. Pathological mobility. Miller’s classification.
28. Periodontal examination**. Periodontal status.**
29. **Clinical criteria of evaluation during a periodontal exam. (level of free gingival margin, pocket depth, loss of attachment, mobility, bleeding, exsudate)**
30. **Bleeding upon probing (BOP).**
31. **Periodontal pocket. Definition. Structure and composition.**
32. **Measurement of pocket depths. Methods and instruments.**
33. **Periodontal chart. Method of completing the chart and instruments.**
34. **Radiographic examination. Methods of evidence of bone loss.**
35. **Furcation lesions. Definition and classifcation. Evaluation.** Glickman Furcation Classification.
36. Plaque. Definition. Ethiology. **Plaque indexes.**
37. Stages of development of the plaque.
38. Supragingival plaque. Ethiology. Composition.
39. Subgingival plaque. Ethiology. Composition.
40. Biofilm formation, structure and stages. Acquired pellicle. Reversible **adhesion.** Irreversible adhesion.
41. Bacteria associated with periodontal health.
42. Calculus. Definition. Classification.
43. Calculus. Mineral composition of the dental calculus.
44. Calculus. Organic composition of the dental calculus.
45. Stages of calculus formation.
46. Supragingival calculus. Ethiology. Composition. Role in development of periodontitis.
47. Subgingival calculus. Ethiology. Composition. Role in development of periodontitis.
48. **Calculus indexes. Methods of apreciation.**
49. Manual methods and techniques, of removing calculus.
50. Instruments used for removing calculus.
51. Periodontal curretes. Classification, indications of usage.
52. Gracey’s curretes. Classification, indications and methods of usage.
53. Universal curretes. Classification, indications and methods of usage.
54. Gingival curretage. Indications. Method and technique.
55. Scalling and root planning.
56. Methods of calculus removal by using power driven scalers.
57. Types of power driven scalers. Sonic and ultrasonic scalers. (Ultrasonic magnetostrictive scalers, ultrasonic piezoelectric scalers). Mechanism of action.
58. Power driven scalers. Indications.
59. Contraindications of ultrasonic scalling. Preacautions.
60. Air-flow. Defintion. Indications, contraindications. Method and techniques of usage.
61. Ethiological factors in development of periodontal disease (Local and general factors).
62. Contributing factors in development of periodontal disease. (Local and general factors).
63. Food impaction. Open and loose contacts. Overhanging margins of restorations and improperly designed prosthesis.
64. Violation of biological width.
65. Tooth brush trauma. Gingival recessions. Miller’s classification.
66. Occlusal trauma. Definition.
67. Primary oclusal trauma. Definition.
68. Secondary oclusal trauma. Definition.
69. Bruxism. Definition. Sings and symptoms.
70. Tooth mobility. Grades of mobility.
71. Radiographic signs of trauma from occlusion. (**Widening of periodontal ligament space. Possible thickening of lamina dura. Angular bone loss and infrabony pocket formation. Root resorption. Hypercementosis.)**
72. Splinting methods and techniques ( temprorary and permanent) in treatment of periodontal disease.
73. Oclusal splinting. Indications. Method and techniques.
74. External/Vestibular splinting. Indications. Method and techniques.
75. Oclusal guards. Indications.
76. Intracoronal splints. Indications.
77. Findings associated with excessive occlusal forces.
78. Selective Grinding. Definition. Techniques and methods of selective ginding. Contraindications of selective grinding in the natural dentition.
79. Gingivitis. Definition. Ethiology. Pathogenesis. Classification.
80. Clinical criteria used for diagnosing gingivitis. (Color, contour, consistency of the gingival tissue.)
81. Stages of disease in developing gingivitis. Incipient stage. Developing stage. Chronic stage.
82. The role of B-cells, T-Cells, Cytokines, IgG, Ig A , and IgM in development stages of gingivitis.
83. **Initial elsion of gingivitis. Early lesion of gingivitis. Chronic lesion of gingivitis. Advanced lesion of gingivitis.**
84. Phases of Acute Inflammation. VASCULAR PHASE
85. Pregnancy Gingivitis. Clinical signs, diagnosis. Treatment.
86. Gingivitis plaque-induced. Definition. Diagnosis. Clinical picture. Treatment.
87. Chronic gingvitis. Forms and clinical picture.
88. Hypertrophic gingivitis. (Plaque-induced, specfic –induced by local and general ethiological factors). Definition. Diagnosis. Clinical picture. Treatment.
89. Descuamative gingivitis. Definition. Diagnosis. Clinical picture. Treatment.
90. Ulcero-necrotic gingivits. Definition. Diagnosis. Clinical picture. Treatment.
91. Fibromatosis gingivitis. Hereditary gingivofibromatosis. Definition. Diagnosis. Clinical picture. Treatment.
92. Overgrowth gingivitis. Drug induced hyperplasya. Definition. Diagnosis. Clinical picture. Treatment.
93. Periodontitis. Definition. Classification. Histopathological features of periodontitis.
94. Early Periodontitis. Definition. Clinical and paraclinical signs. Diagnosis and treatment.
95. Moderate Periodontitis. Definition. Clinical and paraclinical signs. Diagnosis and treatment.
96. Advanced Periodontitis**.** Definition. Clinical and paraclinical signs. Diagnosis and treatment.
97. Aggressive Periodontitis. Definition. Clinical and paraclinical signs.
98. Aggressive Periodontitis, **l**ocalized form: **clinical, paraclinical sings.**
99. Aggressive Periodontitis, **l**ocalized form: **Diagnosis. Treatment.**
100. Aggressive Periodontitis, g**eneralized form: clinical, paraclinical sings.**
101. Aggressive Periodontitis, g**eneralized form: Diagnosis. Treatment.**
102. **Dentinal hypersesibility. Symptoms and treatment.**
103. **Radiological changes in** early periodontitis.
104. **Radiological changes in** moderate periodontitis.
105. **Radiological changes in** advanced periodontitis.
106. Acute necrotizing ulcerative periodontitis. Definition. Diagnosis and treatment. Differential diagnosis.
107. Periodontal abcess. Definition.
108. Pericoronitis (operculitis). Definition. Clinical signs. Treatment.
109. First stage, evolution and symptoms of the periodontal abcess.
110. Periodontal abcess. Emergency treatment methods.
111. Endo-periodontal abcess. Defintion. Signs and symptoms.
112. Treatment of endo-periodontal abcess.
113. Apical periodontal cyst. Definition. Localization.
114. Local treatment of periodontal disease. Definition. Methods.
115. Antiseptic, antimicrobial solutions used in treatment of periodontal disease.
116. Antibiotics used in treatment of periodontal disease. Local and general treatment. (doxacycline, tetracycline etc.)
117. Periodontal surgery. Minimal surgical kit for periodontal surgery.
118. Objectives of periodontal surgery**. (Pocket reduction, promotion of gingival reattachment, treat and/or control the etiology, remove or eliminate the lesion, restore form and function, create an environment that can be maintained in health, balance the host’s susceptibility/resistance against degree of insult.)**
119. Indications of periodontal surgery treatment.
120. Local and general contraindications of periodontal surgery treatment.
121. Gingivoplasty. Definition. Technique. Indications. Contraindications.
122. Gingivectomy. Definition. Technique. Indications. Contraindications.
123. **Frenectomy. Definition. Techniques. Indications. Contraindications.**
124. **Frenuloplasty. Definition. Techniques. Indications. Contraindications.**
125. **Peridontal flaps. Definition.**
126. **Rules of flap design.**
127. **Types of periodontal flaps.**
128. **Common flaps: full fickness flap, modified Widman flap, partial thickness flap.**
129. **Postioned flaps (apically, coronally, laterally pedicule flaps).**
130. **Connective tissue graft. Definition. Techniques and materials. Indications. Contraindications.**
131. Osseous surgery in periodontal disease. Aims and objectives. Techniques.
132. **Osteoplasty. Definition. Indications. Techniques and instruments.**
133. **Root resorption in management of infrabony pockets.**
134. **Dehiscence alveolar bone loss. Exposed root defect.**
135. **Fenestration. Definition. Clinical signs. Treatment.**
136. **Ostectomy. Definition. Techniques and materials. Indications. Contraindications.**
137. **Osseus defects. Types.**
138. **Definition of horizontal bone loss. Radiologic picture.**
139. **Definition of vertical bone loss. Radiologic picture.**
140. **Guided Tissue Regeneration. Definition. Techniques and materials. Indications. Contraindications.**
141. **Root Amputation. Definition. Techniques and materials. Indications. Contraindications.**
142. **Hemisection. Definition. Techniques and materials. Indications. Contraindications.**
143. **Autogenous free gingival graft. Definition. Techniques and materials. Indications. Contraindications.**
144. **Crown lengthening. Definition. Techniques and materials. Indications. Contraindications.**