CONTENTS

Chapter 1 History and Clinical Diagnostic Methods ---------- 1

1. General history
2. Dental history
3. Clinical tests for diagnosis
4. How to investigate a case of trauma/injury
5. Classification of dental injuries (as per WHO guidelines)

Chapter 2 Diseases of the Pulp of the Tooth ---------- 11

1. Hyperemia
2. Pulpitis
   a. acute serous
   b. acute superative
   c. cronic ulcerative open pulpitis
   d. cronic hyperplastic open pulpitis
3. Degeneration of the dental pulp
   a. Calcific
   b. Fibrotic
   c. Atrophic
   d. Fatty
   e. Internal resorption
4. Necrosis and gangrene of the dental pulp

Chapter 3 Diseases of the Periradicular/Apical Tissues of the Tooth ---------- 20

a. Acute radicular periodontitis
b. Acute alveolar abscess/subacute/cronic abscess
c. Granuloma
d. Radicular cyst
e. Referred pain

Chapter 4 Pulp Capping ---------- 29
a. Indications
b. Contraindications
c. Technique

Chapter 5 Pulpotomy ---------- 33
a. Advantages
b. Technique

Chapter 6 Pulp Mummification ---------- 37
i. Why to do?
ii. Technique

Chapter 7 Pulpectomy ---------- 39
a. Indications
b. Appointment wise steps in technique

Chapter 8 Criteria to Select a Case for Root Canal Treatment ---------- 44
a. Decisive factors
b. Root canal treated tooth as abutment.
c. Root canal treated tooth in orthodontic treatment.

Chapter 9 Sterilization of Instruments/materials Used in Endodontic Treatment ---------- 47

Chapter 10 Anatomy of the Tooth Root and Pulp Canals ----- 49

Chapter 11 Root Canal Entrance, Dental Morphology and Treatment Guidelines ---------- 64

Chapter 12 Preparation of the Root Canal System ---------- 86
a. Biomechanical Preparation (step-back technique)
b. Crown-down technique (rotary instrument NITI technique)
c. Chemical preparation

d. Removal of the smear layer
e. Sterilization of the prepared root canal system
f. Bacteriogenic control
g. Root canal obturation/filling

Chapter 13 Cleaning and Shaping of the Root Canal System (Step-back and Crown-down Techniques in Root Canal Preparation) ---------- 110

a. Objects
b. Mechanical cleaning and shaping
c. Crown-down technology
d. Engine driven canal preparation instruments
e. Summary
f. Clinical guidelines for use of pro-taper NITI files
g. Smear layer

Chapter 14 Crown-down Root Canal/Technology/ Preparation Using GT Profile 0.04 Taper-------- 120

Chapter 15 Integeral Difference between Step-back and Crown-down Techniques ---------- 134

a. RCT under electron microscope
b. Veterinary dentistry

Chapter 16 Irrigation of the Prepared Root Canal System -- 139

Chapter 17 Sterilization of the Prepared Root Canal -------- 144

Chapter 18 Filling/obturation of the Root Canal System ---- 154

a. Aerodontalgia
b. Filling with gutta percha points/silver cones and cements
c. Sectional method
d. Chloro-percha method
e. Euca-percha method
f. Root canal cement

g. Summary of the root canal filling
h. Final restoration of the tooth cavity
i. Repair following RCT
j. Causes of failures in RCT

Chapter 19 Root Resection Operation ---------- 172
a. Two stage operation
b. One stage operation
c. Indications
d. Contraindications
e. Essential steps in operation
f. Surface topography of root location
g. Postoperative complications

Chapter 20 Treatment of Traumatized or Fractured Front Teeth ---------- 188
a. Repair technique
b. Intentional replantation of tooth

Chapter 21 Bleaching of Discolored Teeth ---------- 195
a. Bleaching agents
b. Technique of bleaching nonvital tooth/teeth with superoxol/pyrozone
c. In office bleaching
d. At home bleaching
e. Type of stains that can be bleached
f. Technique of microabrasion
g. Translucency maintaining technique
h. Post-bleaching sensitivity of teeth

Index ---------- 209