Contents

CHAPTER 1 Clinical Methods **1**

- History 1
- Physical Examination 3
- Scheme of the General Examination 13
- Frequently Used Terms 13

CHAPTER 2 Gastrointestinal System **16**

- Symptoms and Signs of Gastrointestinal Diseases 16
- Stomatitis and Oral Ulcers 21
- Gingival Hyperplasia 23
- Dysphagia 23
- Gastritis 25
- Peptic Ulcer 26
- Diarrhea, Dysentery and Food Poisoning 28
- Malabsorption 31
- Implications on Dental Practice 33

CHAPTER 3 Hepatobiliary System **35**

- Liver: Structure and Function 35
- Jaundice 37
- Acute Hepatitis 39
- Acute Viral Hepatitis 39
- Chronic Hepatitis 43
- Cirrhosis of Liver 47
- Portal Hypertension 48
- Upper Gastrointestinal Bleeding 49
- Hepatic Encephalopathy 49
- Ascites 51
- Hepatomegaly 52
- Splenomegaly 53
- Implications on Dental Practice 53

CHAPTER 4 Hematological System **55**

- Anemia 55
- Iron Deficiency Anemia 57
- Megaloblastic Anemia 59
- Aplastic Anemia 61
- Hemolytic Anemia 62
- Anemia of Acute Blood Loss 64
- Leukemia 64
- Acute Leukemias 64
- Lymphomas 70
- Multiple Myeloma 73
- Normal Hemostasis 74
- Platelet Disorders 76
- Von Willebrand Disease 78
- Coagulation Disorders 78
- Splenomegaly 81
- Lymphadenopathy 82
- Implications on Dental Practice 83

CHAPTER 5 Cardiovascular System **86**

- Symptoms and Signs of Cardiovascular Diseases 86
- General Examination 87
- Cardiac Examination 90
- Investigations 90
- Acute Rheumatic Fever 91
- Rheumatic Valvular Heart Disease 92
- Aortic Stenosis (AS) 95
- Aortic Regurgitation (AR) 96
- Infective Endocarditis 97
- Hypertension 100
- Ischemic Heart Disease/Coronary Artery Disease 108
- Stable Angina 109
- Unstable Angina 110
- Acute Myocardial Infarction or STEMI 112
- Heart Failure 114
- Acute Pulmonary Edema (Cardiogenic) 119
- Congenital Heart Disease 120
- Syncope 122
- Arrhythmia 124
- Bradyarrhythmias 124
- Tachyarrhythmias 127
- Implications on Dental Practice 130

CHAPTER 6 Respiratory Diseases **133**

- Symptoms 133
- Examination 135
- Investigations 137
- Pneumonia 138
- Lung Abscess 141
- Bronchiectasis 142
- Bronchial Asthma 143
- Chronic Obstructive Pulmonary Disease 147
- Cor Pulmonale 151
- Pulmonary Eosinophilia 152
- Pulmonary Embolism 153
- Tuberculosis 156
- Respiratory Failure 163
- Pleural Diseases 164
- Pneumothorax 165
- Interstitial Lung Disease 167
- Lung Cancers (Bronchogenic Carcinoma) 168
- Swine Influenza A (H1N1)—"Swine Flu" 171
- Implications on Dental Practice 171

CHAPTER 7 Renal Diseases **175**

- Structure and Functions of Normal Kidneys 175
- Syndromes in Nephrology 175
- Investigations In Renal Disease 176
- Nephrotic Syndrome 176
- Acute and Rapidly Progressive Glomerulonephritides 180
- Acute Kidney Injury 181
- Chronic Kidney Disease 184
- Renal Replacement Therapy 186
- Implications on Dental Practice 186

CHAPTER 8 Nervous System **188**

- Examination of Cranial Nerves 188
- Examination of a Comatose Patient 194
- Epilepsy 196
- Meningitis 200
- Headache 204
- Facial Pain 207

- Facial Nerve Palsy 209
- Cerebrovascular Diseases 211
- Implications on Dental Practice 212

CHAPTER 9 Endocrine and Metabolic Disorders 215

- Thyroid Disorders 215
- Calcium Metabolism 219
- Parathyroid Disorders 221
- Pituitary Gland 222
- Diabetes Mellitus 227
- Implications on Dental Practice 237

CHAPTER 10 Infections 240

- Measles (Rubeola) 240
- Mumps 241
- Rubella (German Measles) 242
- Chickenpox (Varicella) and Herpes Zoster (Shingles) 243
- Herpes Simplex 245
- Infectious Mononucleosis 247
- Diphtheria 249
- Enteric Fever (Typhoid Fever) 250
- Gonorrhea 251
- Syphilis 252
- Amebiasis 255
- Malaria 256
- Human Immunodeficiency Syndrome (HIV)/Acquired Immunodeficiency Syndrome (AIDS) 259
- COVID-19 268
- Implications on Dental Practice 271

CHAPTER 11 Medical Emergencies in Dental Practice 274

- Postural Hypotension (Orthostatic Hypotension) 275
- Syncope 275
- Hypertensive Crisis 276
- Acute Pulmonary Edema 276
- Chest Pain 277
- Asthmatic Attack 277
- Airways Obstruction 278
- Hyperventilation 278
- Seizures 278
- Stroke (Cerebrovascular Accident) 279
- Anaphylaxis 280
- Hypoglycemia 280
- Adrenal Crisis 281
- Excessive Bleeding 281
- Dental Procedures in Pregnant Women 281
- Cardiopulmonary Resuscitation 281

CHAPTER 12 Critical Care 283

- Shock 283
- Acute Respiratory Distress Syndrome 288
- Cardiovascular Collapse 289
- Cardiac Arrest 290
- Cardiopulmonary Resuscitation 290

CHAPTER 13 Anaphylaxis and Drug Allergy 293

- Anaphylaxis 293
- Drug Allergy 295
- Implications on Dental Practice 297

CHAPTER 14 Nutrition 298

- Diet and Nutrition 298
- Protein Energy Malnutrition 299
- Obesity 300
- Vitamins 301
- Implications on Dental Practice 308

CHAPTER 15 Preoperative Evaluation **310**

- Medical History 310
- Physical Examination 311
- Airway Examination 311
- Modified Mallampati Classification 311
- Preoperative Laboratory Tests 312
- Risk Assessment 312

Test Paper *315*

Answers *322*

Reference Laboratory Values *326*

Index *329*