Contents

1. **Hypertension** **1**
   - Primary Hypertension *1*
   - Hypertension in Elderly *23*
   - Accelerated, Resistant, or Malignant Hypertension *24*
   - Hypertensive Emergencies *25*
   - Hypertension in Pregnancy *31*
   - Secondary Hypertension *35*
2. **Angina** **43**
   - Classification *43*
   - Stable Angina *44*
   - Unstable Angina *63*
3. **Acute Myocardial Infarction** **65**
   - Pathophysiologic Implications *65*
   - Diagnosis *69*
   - Public Education and Physician Interaction *77*
   - Risk Stratification *78*
   - Therapy *79*
4. **Sitosterolemia** **97**
   - An Overview *98*
   - Ezetimibe: A New Drug for Diabetics *100*
   - Foods with High-sitosterol Content *102*
   - Sitosterol in Nondiabetic Patients *102*
5. **Heart Failure** **105**
   - Diagnostic Hallmarks *105*
   - Causes *110*
   - Precipitating Factors *111*
   - Pathophysiology *111*
   - Compensatory Adjustments *113*
   - Therapy: Nonspecific *114*
   - Drug-combination Choice *115*
6. **Arrhythmias** **129**
   - Supraventricular Arrhythmias *134*
   - Management of Ventricular Premature Beats and Ventricular Tachycardia *148*

7. Pericarditis/Cardiac Tamponade 163
- Pericarditis *163*
- Cardiac Tamponade *167*
- Constrictive Pericarditis *169*

8. Valvular Heart Disease and Rheumatic Fever 174
- Aortic Stenosis *174*
- Aortic Regurgitation *181*
- Mitral Stenosis *187*
- Mitral Regurgitation *196*
- Mitral Valve Prolapse *198*
- Rheumatic Fever *205*

9. Dyslipidemia and Sitosterolemia 207
- Atheroma *207*
- Primary Dyslipidemia *210*
- Secondary Dyslipidemia *212*
- Sitosterol *214*
- Triglycerides *216*
- Dietary Management *216*
- Drug Therapy *221*
- New Drug Class and New Therapies *230*
- Management of Elevated Serum Triglycerides *233*

10. Infective Endocarditis 237
- Diagnosis *237*
- Investigations *238*
- Therapy *241*

11. Cardiac Arrest 249
- Causes *250*
- Cardiopulmonary Resuscitation Studies *252*
- Management of Ventricular Fibrillation *253*
- Drug Therapy *254*
- Bradyarrhythmias: Asystole or Electromechanical Dissociation *257*
- Percutaneous Coronary Intervention *259*

12. Cardiomyopathy 261
- Hypertrophic Cardiomyopathy *261*
- Dilated Cardiomyopathy *271*
- Restrictive Cardiomyopathy *273*
- Specific Heart Muscle Disease *275*

13. Syncope 278
- History and Physical Examination *281*
- Causes *283*
- Electrophysiologic Study *287*
- Head-up Tilt Testing *288*
- Pacing *288*

14. Bronchodilators: Asthma–COPD 289
- Bronchodilators *289*
- Asthma *299*
- Chronic Obstructive Pulmonary Disease *309*

15. Pneumonias 320
- Community-acquired Pneumonia *320*
- Typical Pneumonias *326*
- Atypical Pneumonias *329*
- Empiric (Initial) Therapy *333*
- Nosocomial Pneumonia *335*
- Anaerobic Pleuropulmonary Infections *340*

16. Pulmonary Embolism 367
- Diagnosis *367*
- Management *375*

17. Pleural Diseases: Pleural Effusions 377
- Physiology of Pleural Fluid Formation *377*
- Approach to Patients with Pleural Effusion *378*
- Transudative Pleural Effusions *383*
- Exudative Pleural Effusions *385*
- Malignant Pleural Effusions *390*
- Parapneumonic Effusions and Bacterial Infections of the Pleural Space *393*

18. Gastrointestinal Diseases 400
- Irritable Bowel Syndrome *400*
- Peptic Ulcer Disease *402*
- Hydrogen Potassium Atpase (Proton Pump) Inhibitors *405*
- Malabsorption Syndromes *410*
- Inflammatory Bowel Disease *411*
- Gallstones *420*
- Pancreatitis *421*
- Gastrointestinal Bleeding *424*

- Upper Gastrointestinal Bleeding *426*
- Lower Gastrointestinal Bleeding *428*

19. Liver Diseases 430
- Cirrhosis *430*
- Hepatobiliary Manifestations of AIDS *439*
- Liver Abscess *444*
- Cholecystitis *445*

20. Neurologic Disorders 447
- Coma *447*
- Epilepsy *449*
- Drug-related Seizures *450*
- Febrile Seizures *452*
- Status Epilepticus *453*
- Wernicke's Encephalopathy *455*
- Neuroleptic Malignant Syndrome *456*
- Migraine *458*
- Dizziness Vertigo *461*
- Transient Ischemic Attacks *462*
- Stroke *464*
- Parkinson's Disease *468*
- Myasthenia Gravis *470*
- Acute Polyneuropathy *472*
- Acute Spinal Cord Compression *474*
- Infections of the Central Nervous System *475*
- Review Article *487*

21. Renal Diseases 489
- Acute Renal Failure *489*
- Chronic Renal Failure *495*
- Glomerular Disease *501*
- Renal Stones *508*
- Scleroderma (Systemic Sclerosis) *509*

22. Hematologic Disorders 511
- Anemia *511*
- Microcytic Hypochromic Anemia *511*
- Normocytic Normochromic Anemias *514*
- Secondary Anemia *518*
- Anemia with Marrow Disruption *519*

- Immunohemolytic Anemia *522*
- Thalassemia *525*
- Porphyria *526*
- Macrocytic (Megaloblastic) Anemia *527*
- Folic Acid Deficiency *528*
- Vitamin B_{12} Deficiency *529*
- Disorders of Hemostasis *530*
- Functional Platelet Disorders *535*
- Inherited Coagulation Defects *536*
- Acquired Coagulation Factor Deficiencies *540*
- Thrombotic Disorders *542*
- Platelet Disorders: Thrombocytopenia and Thrombopathy *543*
- Problems with Leukocytes and Their Management *546*
- Myeloproliferative Disorders *555*
- Other Myeloproliferative Syndromes *558*
- Paraproteinemia *558*

23. Rheumatic Disorders 563
- Diagnosis *563*
- Investigations *569*
- Pharmacology and the Rheumatic Diseases *570*
- Osteoarthritis *573*
- Nonarticular Rheumatic Disorders *575*
- Monoarticular Arthritis *581*
- Pauciarticular Arthritis *587*
- Rheumatoid Diseases *595*
- Systemic Lupus Erythematosus *601*
- Antiphospholipid Syndrome *603*
- Mixed Connective Tissue Disease *603*
- Necrotizing Vasculitis *606*
- Giant Cell Arteritis *609*

24. Sodium, Potassium, and Calcium Disturbances 611
- Hyponatremia *611*
- Hypokalemia *615*
- Hyperkalemia *616*
- Hypercalcemia *619*

25. Type 2 Diabetes Mellitus 625
- A Major Error Made by the Medical Profession Over 70 Years *625*

- New A1c Recommendations *625*
- Diagnosis *626*
- Types *627*
- Impaired Glucose Tolerance *628*
- Hypersitosterolemia *628*
- Acute Complications of Diabetes *628*
- Chronic Complications of Diabetes *633*
- Management of Diabetes Mellitus *642*

26. Endocrine Disorders 652
- Thyroid Diseases *652*
- Adrenal Diseases *663*
- Anterior Pituitary Diseases *669*
- Posterior Pituitary Disorders *673*

27. Miscellaneous Disorders 678
- Amyloid *678*
- Atrial Myxoma *680*
- Brugada Syndrome *680*
- Chagas Disease *684*
- Ehlers–Danlos Syndrome *686*
- Hemochromatosis *686*
- Lyme Carditis *688*
- Marfan Syndrome *690*
- Turner Syndrome *692*
- Kawasaki Syndrome *693*
- Takayasu Arteritis *694*

28. Superior Quality Electrocardiograms Produced by Electrode Placements 700

Index ***..... 707***