

SIXTH EDITION

Pathophysiology

CLINICAL CONCEPTS
OF
DISEASE PROCESSES

Sylvia A. Price

Lorraine M. Wilson



 Mosby

Contents

PART ONE

INTRODUCTION TO GENERAL PATHOLOGY: MECHANISMS OF DISEASE

- 1 General Concepts of Disease:
Health Versus Disease, 3
- 2 Heredity, Environment, and Disease:
Interaction of Heredity and Environment, 8
- 3 Cellular Injury and Death, 33
- 4 Response of the Body to Injury:
Inflammation and Repair, 44
- 5 Response of the Body to Immunologic
Challenge, 64
- 6 Response of the Body to Infectious Agents, 87
- 7 Disturbances in Circulation, 95
- 8 Disturbances in Growth, Cellular Proliferation,
and Differentiation, 109

PART TWO

IMMUNE SYSTEM DISORDERS

- 9 Familiar (IgE-Mediated) Allergic Disorders:
Anaphylaxis and the Atopic Diseases, 129
- 10 Bronchial Asthma: Allergic and Otherwise, 139
- 11 Atopic Dermatitis and Urticaria, 149
- 12 Autoimmune and Immune Complex-Induced
Diseases, 154
- 13 Adverse Reactions to Drugs and Related
Substances, 163
- 14 Approaches to Immune Deficiency States, 168
- 15 Human Immunodeficiency Virus (HIV)
and Acquired Immunodeficiency
Syndrome (AIDS), 173

PART THREE

HEMATOLOGIC SYSTEM DISORDERS

- 16 The Composition of Blood and the Monocyte-
Macrophage System, 193
- 17 Red Blood Cell Disorders, 199
- 18 White Blood Cell and Plasma Cell Disorders, 209
- 19 Coagulation Disorders, 228

PART FOUR

FLUID AND ELECTROLYTE DISORDERS

- 20 Fluid and Electrolyte Balance and Assessment, 243
- 21 Disorders of Fluid Volume, Osmolality, and
Electrolytes, 258
- 22 Acid-Base Disorders, 292

PART FIVE

GASTROINTESTINAL SYSTEM DISORDERS

- 23 Disorders of the Esophagus, 315
- 24 Disorders of the Stomach and Duodenum, 326
- 25 Disorders of the Small Intestine, 341
- 26 Disorders of the Large Intestine, 356
- 27 Disorders of the Liver, Gallbladder,
and Pancreas, 368

PART SIX

CARDIOVASCULAR SYSTEM DISORDERS

- 28 Anatomy of the Cardiovascular System, 405
- 29 Physiology of the Cardiovascular System, 416
- 30 Diagnostic Procedures in Cardiovascular
Disease, 429
- 31 Coronary Atherosclerotic Disease, 452
- 32 Valvular Heart Disease, 480
- 33 Cardiac Mechanical Dysfunction and Circulatory
Support, 493
- 34 Vascular Disease, 513

PART SEVEN

RESPIRATORY SYSTEM DISORDERS

- 35 Anatomy and Physiology of the Respiratory
System, 541
- 36 Diagnostic Procedures in Respiratory Disease, 557
- 37 Cardinal Signs and Symptoms of Respiratory
Disease, 570
- 38 Obstructive Patterns of Respiratory Disease, 578
- 39 Restrictive Patterns of Respiratory Disease, 588
- 40 Cardiovascular Disease and the Lung, 603
- 41 Respiratory Failure, 609
- 42 Pulmonary Malignant Neoplasms, 623
- 43 Pulmonary Tuberculosis, 629

PART EIGHT

RENAL SYSTEM DISORDERS

- 44** Anatomy and Physiology of the Kidneys and Urinary Tract, 641
- 45** Diagnostic Procedures in Renal Disease, 663
- 46** Chronic Renal Failure, 676
- 47** End-Stage Renal Disease: Uremic Syndrome, 704
- 48** Treatment of Chronic Renal Failure, 714
- 49** Acute Renal Failure, 735

PART NINE

NEUROLOGIC SYSTEM DISORDERS

- 50** Anatomy and Physiology of the Nervous System, 747
- 51** Evaluation of the Neurologic Patient, 777
- 52** Pain, 791
- 53** Cerebrovascular Disease, 822
- 54** Neurologic Disorders with Generalized Symptomatology, 843
- 55** Seizure Disorders, 861
- 56** Central Nervous System Injury, 869
- 57** Central Nervous System Tumors, 881

PART TEN

ENDOCRINE SYSTEM AND METABOLIC DISORDERS

- 58** Principles of Endocrine and Metabolic Control Mechanisms, 897
- 59** Disorders of the Pituitary Gland, 906
- 60** Thyroid Gland Disorders, 915
- 61** Adrenal Hypersecretion Disorders, 924
- 62** Adrenal Insufficiency, 938
- 63** Pancreas: Glucose Metabolism and Diabetes Mellitus, 942

PART ELEVEN

REPRODUCTIVE SYSTEM DISORDERS

- 64** Female Reproductive System Disorders, 957
- 65** Male Reproductive System Disorders, 983
- 66** Infections of the Genital Tract, 998

PART TWELVE

MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE DISORDERS

- 67** Anatomy and Physiology of Bones and Joints, 1019
- 68** Fractures and Dislocations, 1025
- 69** Tumors of the Musculoskeletal System, 1032
- 70** Osteoarthritis, 1037
- 71** Rheumatoid Arthritis, 1041
- 72** Systemic Lupus Erythematosus, 1046
- 73** Scleroderma, 1050
- 74** Gout, 1054
- 75** Seronegative Spondyloarthropathies, 1058

PART THIRTEEN

DERMATOLOGIC SYSTEM DISORDERS

- 76** Anatomy and Physiology of the Skin, 1065
- 77** Acne and Related Conditions, 1071
- 78** Eczema and Vascular Disorders, 1077
- 79** Psoriasis and Pityriasis Rosea, 1084
- 80** Cutaneous Infections, 1087
- 81** Tumors of the Skin, 1097
- 82** Lyme Disease and Infestations, 1106

Answers, 1111