Table Of Contents:

Summaries of Chapters e1 to e39  xvi
Contributors  xx
Preface  xxxv

PART 1 Introduction to Clinical Medicine

The Practice of Medicine  1  (5)
Global Issues in Medicine  6  (10)
  Jim Yong Kim
  Paul Farmer
Decision-Making in Clinical Medicine  16  (8)
  Daniel B. Mark
Screening and Prevention of Disease  24  (3)
  Gary J. Martin
Principles of Clinical Pharmacology  27  (12)
  Dan M. Roden
Women's Health  39  (5)
  Andrea E. Dunaif
Medical Disorders during Pregnancy  44  (5)
  Robert L. Barbieri
  John T. Repke
Medical Evaluation of the Surgical Patient  49  (4)
  Wei C. Lau
<table>
<thead>
<tr>
<th>Section 2 Alterations in Body Temperature</th>
<th>Page</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fever and Hyperthermia</td>
<td>117</td>
<td>Charles A. Dinarello, Reuven Porat</td>
</tr>
<tr>
<td>Fever and Rash</td>
<td>121</td>
<td>Elaine T. Kaye, Kenneth M. Kaye</td>
</tr>
<tr>
<td>e5 Atlas of Rashes Associated with Fever</td>
<td>23</td>
<td>Kenneth M. Kaye, Elaine T. Kaye</td>
</tr>
<tr>
<td>Fever of Unknown Origin</td>
<td>130</td>
<td>Jeffrey A. Gelfand, Michael V. Callahan</td>
</tr>
<tr>
<td>Hypothermia and Frostbite</td>
<td>135</td>
<td>Daniel F. Danzl</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 3 Nervous System Dysfunction</th>
<th>Page</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Syncope</td>
<td>139</td>
<td>Mark D. Carlson</td>
</tr>
<tr>
<td>Dizziness and Vertigo</td>
<td>144</td>
<td>Robert B. Daroff</td>
</tr>
<tr>
<td>Weakness and Paralysis</td>
<td>147</td>
<td>Michael J. Aminoff</td>
</tr>
<tr>
<td>Gait and Balance Disorders</td>
<td>151</td>
<td>Lewis Sudarsky</td>
</tr>
<tr>
<td>Numbness, Tingling, and Sensory Loss</td>
<td>154</td>
<td>Michael J. Aminoff, Arthur K. Asbury</td>
</tr>
<tr>
<td>Confusion and Delirium</td>
<td>158</td>
<td>S. Andrew Josephson, Bruce L. Miller</td>
</tr>
<tr>
<td>e6 Memory Loss</td>
<td>33</td>
<td>Thomas D. Bird, Bruce L. Miller</td>
</tr>
<tr>
<td>Aphasia, Memory Loss, and Other Focal Cerebral Disorders</td>
<td>162</td>
<td>9</td>
</tr>
</tbody>
</table>


M.-Marsel Mesulam
Sleep Disorders 171 (9)
Charles A. Czeisler
John W. Winkelman
Gary S. Richardson

Section 4 Disorders of Eyes, Ears, Nose, and Throat
Disorders of the Eye 180 (25)
Jonathan C. Horton
Disorders of Smell, Taste, and Hearing 196
Anil K. Lalwani
Pharyngitis, Sinusitis, Otitis, and Other Upper Respiratory Tract Infections
Michael A. Rubin
Ralph Gonzales
Merle A. Sande

Oral Manifestations of Disease 214 (7)
Samuel C. Durso

Atlas of Oral Manifestations of Disease 37 (184)
Samuel C. Durso
Janet A. Yellowitz
Jane C. Atkinson

Section 5 Alterations in Circulatory and Respiratory Functions
Dyspnea and Pulmonary Edema 221 (4)
Richard M. Schwartzstein
Cough and Hemothysis 225 (4)
Steven E. Weinberger
David A. Lipson
Hypoxia and Cyanosis 229 (2)
Eugene Braunwald
Edema 231 (5)
Eugene Braunwald
Joseph Loscalzo

Approach to the Patient with a Heart Murmur 43 (193)
Palpitations

Joseph Loscalzo

Section 6 Alterations in Gastrointestinal Function

Dysphagia

Raj K. Goyal

Nausea, Vomiting, and Indigestion

William L. Hasler

Diarrhea and Constipation

Michael Camilleri

Joseph A. Murray

Weight Loss

Carol M. Reife

Gastrointestinal Bleeding

Loren Laine

Jaundice

Daniel S. Pratt

Marshall M. Kaplan

Abdominal Swelling and Ascites

Robert M. Glickman

Roshini Rajapaksa

Section 7 Alterations in Renal and Urinary Tract Function

Azotemia and Urinary Abnormalities

Bradley M. Denker

Barry M. Brenner

e9 Atlas of Urinary Sediments and Renal Biopsies

Agnes B. Fogo

Eric G. Neilson

Fluid and Electrolyte Disturbances

Gary G. Singer

Barry M. Brenner

Hypercalcemia and Hypocalcemia
Sundeep Khosla
Acidosis and Alkalosis  287 (9)
Thomas D. DuBose, Jr.

Section 8 Alterations in Sexual Function and Reproduction
Sexual Dysfunction  296 (5)
Kevin T. McVary
Hirsutism and Virilization  301 (3)
David A. Ehrmann
Menstrual Disorders and Pelvic Pain  304 (4)
Janet E. Hall

Section 9 Alterations in the Skin
Approach to the Patient with a Skin Disorder  308 (4)
Thomas J. Lawley
Kim B. Yancey
Eczema, Psoriasis, Cutaneous Infections, Acne, and Other Common Skin Disorders  312 (9)
Calvin O. McCall
Thomas J. Lawley
Skin Manifestations of Internal Disease  321 (15)
Jean L. Bolognia
Irwin M. Braverman
Immunologically Mediated Skin Diseases  336 (7)
Kim B. Yancey
Thomas J. Lawley
Cutaneous Drug Reactions  343 (7)
Jean-Claude Roujeau
Robert S. Stern
Bruce U. Wintroub
Photosensitivity and Other Reactions to Light  350 (5)
David R. Bickers
e10 Atlas of Skin Manifestations of Internal Disease  61 (294)
Thomas J. Lawley
Stephen F. Templeton
Section 10 Hematologic Alterations
Anemia and Polycythemia
John W. Adamson
Dan L. Longo
Bleeding and Thrombosis
Barbara A. Konkle
Enlargement of Lymph Nodes and Spleen
Patrick H. Henry
Dan L. Longo
Disorders of Granulocytes and Monocytes
Steven M. Holland
John I. Gallin
e11 Atlas of Hematology and Analysis of Peripheral Blood Smears
Dan L. Longo
PART 3 Genetics and Disease
Principles of Human Genetics
J. Larry Jameson
Peter Kopp
Chromosome Disorders
Terry J. Hassold
Stuart Schwartz
The Practice of Genetics in Clinical Medicine
Susan Miesfeldt
J. Larry Jameson
Gene Therapy in Clinical Medicine
Katherine A. High
PART 4 Regenerative Medicine
Stem Cell Biology
Minoru S. H. Ko
Applications of Stem Cell Biology in Clinical Medicine
John A. Kessler
Hematopoietic Stem Cells
David T. Scadden
PART 5 Nutrition
Nutritional Requirements and Dietary Assessment
Johanna Dwyer
Vitamin and Trace Mineral Deficiency and Excess
Robert M. Russell
Paolo M. Suter
Malnutrition and Nutritional Assessment
Douglas C. Heimburger
Enteral and Parenteral Nutrition Therapy
Bruce R. Bistrian
David F. Driscoll
Biology of Obesity
Jeffrey S. Flier
Eleftheria Maratos-Flier
Evaluation and Management of Obesity
Robert F. Kushner
Eating Disorders
B. Timothy Walsh
PART 6 Oncology and Hematology
Section 1 Neoplastic Disorders
Approach to the Patient with Cancer
Dan L. Longo
Prevention and Early Detection of Cancer
Otis W. Brawley
Barnett S. Kramer
Cancer Genetics
Pat J. Morin
Jeffrey M. Trent
Francis S. Collins
Bert Vogelstein  
Cancer Cell Biology and Angiogenesis  498 (16)  
Robert G. Fenton  
Dan L. Longo

Principles of Cancer Treatment  514 (19)  
Edward A. Sausville  
Dan L. Longo

Infections in Patients with Cancer  533 (8)  
Robert Finberg

Cancer of the Skin  541 (7)  
Arthur J. Sober  
Hensin Tsao  
Carl V. Washington

Head and Neck Cancer  548 (3)  
Everett E. Vokes

Neoplasms of the Lung  551 (12)  
John D. Minna  
Joan H. Schiller

Breast Cancer  563 (7)  
Marc E. Lippman

Gastrointestinal Tract Cancer  570 (10)  
Robert J. Mayer

Tumors of the Liver and Biliary Tree  580 (6)  
Brian I. Carr

Pancreatic Cancer  586 (3)  
Yu Jo Chua  
David Cunningham

Bladder and Renal Cell Carcinomas  589 (4)  
Howard I. Scher  
Robert J. Motzer

Benign and Malignant Diseases of the Prostate  593 (8)  
Howard I. Scher

Testicular Cancer  601 (3)  
Robert J. Motzer  
George J. Bosl
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gynecologic Malignancies</td>
<td>604</td>
<td>Robert C. Young</td>
</tr>
<tr>
<td>Soft Tissue and Bone Sarcomas and Bone</td>
<td>610</td>
<td>Shreyaskumar R. Patel, Robert S. Benjamin</td>
</tr>
<tr>
<td>Metastases</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carcinoma of Unknown Primary</td>
<td>614</td>
<td>Gauri R. Varadhachary, James L. Abbruzzese</td>
</tr>
<tr>
<td>Paraneoplastic Syndromes:</td>
<td>617</td>
<td>J. Larry Jameson, Bruce E. Johnson</td>
</tr>
<tr>
<td>Endocrinologic/Hematologic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paraneoplastic Neurologic Syndromes</td>
<td>623</td>
<td>Josep Dalmau, Myrna R. Rosenfeld</td>
</tr>
<tr>
<td>e12 Thymoma</td>
<td>89</td>
<td>Dan L. Longo</td>
</tr>
<tr>
<td>e13 Late Consequences of Cancer and Its</td>
<td>91</td>
<td>Michael C. Perry, Dan L. Longo</td>
</tr>
<tr>
<td>Treatment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Section 2 Hematopoietic Disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iron Deficiency and Other Hypoproliferative</td>
<td>628</td>
<td>John W. Adamson</td>
</tr>
<tr>
<td>Anemias</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disorders of Hemoglobin</td>
<td>635</td>
<td>Edward J. Benz, Jr.</td>
</tr>
<tr>
<td>Megaloblastic Anemias</td>
<td>643</td>
<td>A. Victor Hoffbrand</td>
</tr>
<tr>
<td>Hemolytic Anemias and Anemia Due to Acute</td>
<td>652</td>
<td>Lucio Luzzatto</td>
</tr>
<tr>
<td>Blood Loss</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aplastic Anemia, Myelodysplasia, and Related</td>
<td>663</td>
<td></td>
</tr>
<tr>
<td>Bone Marrow Failure Syndromes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Neal S. Young
Polycythemia Vera and Other Myeloproliferative Diseases 671 (6)
Jerry L. Spivak
Acute and Chronic Myeloid Leukemia 677 (10)
Meir Wetzler
John C. Byrd
Clara D. Bloomfield
Malignancies of Lymphoid Cells 687 (13)
Dan L. Longo
Plasma Cell Disorders 700 (7)
Nikhil C. Munshi
Dan L. Longo
Kenneth C. Anderson
Transfusion Biology and Therapy 707 (6)
Jeffery S. Dzieczkowski
Kenneth C. Anderson
Hematopoietic Cell Transplantation 713 (5)
Frederick R. Appelbaum
Section 3 Disorders of Hemostasis
Disorders of Platelets and Vessel Wall 718 (7)
Barbara A. Konkle
Coagulation Disorders 725 (6)
Valder Arruda
Katherine A. High
Venous Thrombosis 731 (4)
F.R. Rosendaal
H.R. Buller
Antiplatelet, Anticoagulant, and Fibrinolytic Drugs 735 (14)
Jeffrey I. Weitz
PART 7 Infectious Diseases
Section 1 Basic Considerations in Infectious Diseases
Introduction to Infectious Diseases: Host- 749 (4)
Pathogen Interactions
Lawrence C. Madoff
Dennis L. Kasper
Molecular Mechanisms of Microbial Pathogenesis
Gerald B. Pier
Approach to the Acutely Ill Infected Febrile Patient
Tamar F. Barlam
Dennis L. Kasper
Immunization Principles and Vaccine Use
Gerald T. Keusch
Kenneth J. Bart
Mark Miller
Health Advice for International Travel
Jay S. Keystone
Phyllis E. Kozarsky
Laboratory Diagnosis of Infectious Diseases
Alexander J. McAdam
Andrew B. Onderdonk
Section 2 Clinical Syndromes: Community-Acquired Infections
Infective Endocarditis
Adolf W. Karchmer
Infections of the Skin, Muscle, and Soft Tissues
Dennis L. Stevens
Osteomyelitis
Jeffrey Parsonnet
Intraabdominal Infections and Abscesses
Miriam J. Baron
Dennis L. Kasper
Acute Infectious Diarrheal Diseases and Bacterial Food Poisoning
Joan R. Butterton
Stephen B. Calderwood
Clostridium difficile-Associated Disease, Including Pseudomembranous Colitis
Dale N. Gerding
Stuart Johnson

Sexually Transmitted Infections: Overview and Clinical Approach
King K. Holmes

e15 Infectious Complications of Burns and Bites
Lawrence C. Madoff
Florence Pereyra

Section 3 Clinical Syndromes: Health Care-Associated Infections
Health Care-Associated Infections
Robert A. Weinstein

Infections in Transplant Recipients
Robert Finberg
Joyce Fingeroth

Section 4 Approach to Therapy for Bacterial Diseases
Treatment and Prophylaxis of Bacterial Infections
Gordon L. Archer
Ronald E. Polk

Section 5 Diseases Caused by Gram-Positive Bacteria
Pneumococcal Infections
Daniel M. Musher

Staphylococcal Infections
Franklin D. Lowy

Streptococcal and Enterococcal Infections
Michael R. Wessels

Diphtheria and Other Infections Caused by Corynebacteria and Related Species
William R. Bishai
John R. Murphy
Infections Caused by Listeria monocytogenes 895 (3)
   Elizabeth L. Hohmann
   Daniel A. Portnoy
Tetanus 898 (3)
   Elias Abrutyn
Botulism 901 (2)
   Elias Abrutyn
Gas Gangrene and Other Clostridial Infections 903 (5)
   Dennis L. Kasper
   Lawrence C. Madoff
Section 6 Diseases Caused by Gram-Negative Bacteria
Meningococcal Infections 908 (6)
   Lee M. Wetzler
Gonococcal Infections 914 (7)
   Sanjay Ram
   Peter A. Rice
Moraxella Infections 921 (2)
   Daniel M. Musher
Haemophilus Infections 923 (3)
   Timothy F. Murphy
Infections Due to the HACEK Group and Miscellaneous Gram-Negative Bacteria 926 (3)
   Tamar F. Barlam
   Dennis L. Kasper
Legionella Infection 929 (4)
   Miguel Sabria
   Victor L. Yu
Pertussis and Other Bordetella Infections 933 (4)
   Scott A. Halperin
Diseases Caused by Gram-Negative Enteric Bacilli 937 (9)
   Thomas A. Russo
   James R. Johnson
Helicobacter pylori Infections 946 (3)
  John C. Atherton
  Martin J. Blaser

Infections Due to Pseudomonas Species and Related Organisms 949 (7)
  Reuben Ramphal

Salmonellosis 956 (6)
  David A. Pegues
  Samuel I. Miller

Shigellosis 962 (3)
  Philippe Sansonetti
  Jean Bergounioux

Infections Due to Campylobacter and Related Species 965 (3)
  Martin J. Blaser

Cholera and Other Vibrioses 968 (5)
  Matthew K. Waldor
  Gerald T. Keusch

Brucellosis 973 (3)
  Michael J. Corbel
  Nicholas J. Beeching

Tularemia 976 (4)
  Richard F. Jacobs
  Gordon E. Schutze

Plague and Other Yersinia Infections 980 (7)
  David T. Dennis
  Grant L. Campbell

Bartonella Infections, Including Cat-Scratch Disease 987 (4)
  David H. Spach
  Emily Darby

Donovanosis 991 (1)
  Gavin Hart

Section 7 Miscellaneous Bacterial Infections
  Nocardioses 992 (4)
Gregory A. Filice
Actinomycosis 996 (3)
Thomas A. Russo
Infections Due to Mixed Anaerobic Organisms 999 (7)
Dennis L. Kasper
Ronit Cohen-Poradosu
Section 8 Mycobacterial Diseases
Tuberculosis 1006(15)
Mario C. Raviglione
Richard J. O'Brien
Leprosy (Hansen's Disease) 1021(6)
Robert H. Gelber
Nontuberculous Mycobacteria 1027(5)
C. Fordham von Reyn
Antimycobacterial Agents 1032(6)
Richard J. Wallace, Jr.
David E. Griffith
Section 9 Spirochetal Diseases
Syphilis 1038(8)
Sheila A. Lukehart
Endemic Treponematoses 1046(2)
Sheila A. Lukehart
Leptospirosis 1048(4)
Peter Speelman
Rudy Hartskeerl
Relapsing Fever 1052(3)
David T. Dennis
Lyme Borreliosis 1055(4)
Allen C. Steere
Section 10 Diseases Caused by Rickettsiae, Mycoplasmas, and Chlamydiae
Rickettsial Diseases 1059(9)
David H. Walker
J. Stephen Dumler
Thomas Marrie
Influenza
Raphael Dolin

Section 14 Infections Due to Human Immunodeficiency Virus and Other Human Retroviruses
The Human Retroviruses
Dan L. Longo
Anthony S. Fauci
Human Immunodeficiency Virus Disease: AIDS and Related Disorders
Anthony S. Fauci
H. Clifford Lane

Section 15 Infections Due to RNA Viruses
Viral Gastroenteritis
Umesh D. Parashar
Roger I. Glass
Enteroviruses and Reoviruses
Jeffrey I. Cohen
Measles (Rubeola)
Anne Gershon
Rubella (German Measles)
Anne Gershon
Mumps
Anne Gershon
Rabies and Other Rhabdovirus Infections
Alan C. Jackson
Eric C. Johannsen
Infections Caused by Arthropod-and Rodent-Borne Viruses
Clarence J. Peters
Ebola and Marburg Viruses
Clarence J. Peters

Section 16 Fungal and Algal Infections
Diagnosis and Treatment of Fungal Infections
John E. Edwards, Jr.
Histoplasmosis 1244(3)
    Chadi A. Hage
    L. Joseph Wheat
Coccidioidomycosis 1247(2)
    Neil M. Ampel
Blastomycosis 1249(2)
    Stanley W. Chapman
    Donna C. Sullivan
Cryptococcosis 1251(3)
    Arturo Casadevall
Candidiasis 1254(2)
    John E. Edwards, Jr.
Aspergillosis 1256(5)
    David W. Denning
Mucormycosis 1261(2)
    Alan M. Sugar
Miscellaneous Mycoses and Algal Infections 1263(4)
    Stanley W. Chapman
    Donna C. Sullivan
Pneumocystis Infection 1267(3)
    A. George Smulian
    Peter D. Walzer
Section 17 Protozoal and Helminthic Infections:
General Considerations
    e16 Laboratory Diagnosis of Parasitic Infections 113 (1157)
        Sharon L. Reed
        Charles E. Davis
Agents Used to Treat Parasitic Infections 1270(5)
    Thomas A. Moore
    e17 Pharmacology of Agents Used to Treat Parasitic Infections 119 (1156)
        Thomas A. Moore
Section 18 Protozoal Infections
    Amebiasis and Infection with Free-Living 1275(5)
Amebas
  Sharon L. Reed

Malaria
  Nicholas J. White
  Joel G. Breman

Babesiosis
  Jeffrey A. Gelfand
  Edouard Vannier
  e18 Atlas of Blood Smears of Malaria and Babesiosis
  Nicholas J. White
  Joel G. Breman

Leishmaniasis
  Barbara L. Herwaldt

Trypanosomiasis
  Louis V. Kirchhoff

Toxoplasma Infections
  Lloyd H. Kasper

Protozoal Intestinal Infections and Trichomoniasis
  Peter F. Weller

Section 19 Helminthic Infections

Trichinella and Other Tissue Nematodes
  Peter F. Weller

Intestinal Nematodes
  Peter F. Weller
  Thomas B. Nutman

Filarial and Related Infections
  Thomas B. Nutman
  Peter F. Weller

Schistosomiasis and Other Trematode Infections
  Adel A. F. Mahmoud

Cestodes
  A. Clinton White, Jr.
  Peter F. Weller
PART 8 Bioterrorism and Clinical Medicine

Microbial Bioterrorism
H. Clifford Lane
Anthony S. Fauci
1343(9)

Chemical Bioterrorism
Charles G. Hurst
Jonathan Newmark
James A. Romano, Jr.
1352(6)

Radiation Bioterrorism
Zelig A. Tochner
Eli Glatstein
1358(7)

PART 9 Disorders of the Cardiovascular System

Section 1 Introduction to Cardiovascular Disorders

Basic Biology of the Cardiovascular System
Joseph Loscalzo
Peter Libby
Eugene Braunwald
1365(10)

Epidemiology of Cardiovascular Disease
Thomas A. Gaziano
J. Michael Gaziano
1375(4)

Approach to the Patient with Possible Cardiovascular Disease
Eugene Braunwald
1379(3)

Section 2 Diagnosis of Cardiovascular Disorders

Physical Examination of the Cardiovascular System
Robert A. O'Rourke
Eugene Braunwald
1382(6)

Electrocardiography
Ary L. Goldberger
1388

e19 Atlas of Electrocardiography
Ary L. Goldberger
131 (1266)

Noninvasive Cardiac Imaging: Echocardiography, Nuclear Cardiology, and MRI/CT Imaging
Rick A. Nishimura
1397(8)
Raymond J. Gibbons
James F. Glockner
A. Jamil Tajik
e20 Atlas of Noninvasive Cardiac Imaging 149 (1256)
Rick A. Nishimura
Raymond J. Gibbons
James F. Glockner
A. Jamil Tajik
Diagnostic Cardiac Catheterization and Angiography 1405(5)
Donald S. Baim
Section 3 Disorders of Rhythm
Principles of Electrophysiology 1410(6)
Gordon F. Tomaselli
The Bradyarrhythmias 1416(9)
Gordon F. Tomaselli
The Tachyarrhythmias 1425(18)
Francis Marchlinski
e21 Atlas of Cardiac Arrhythmias 159 (1284)
Ary L. Goldberger
Section 4 Disorders of the Heart
Heart Failure and Cor Pulmonale 1443(12)
Douglas L. Mann
Cardiac Transplantation and Prolonged Assisted Circulation 1455(3)
Sharon A. Hunt
Congenital Heart Disease in the Adult 1458(7)
John S. Child
Valvular Heart Disease 1465(16)
Patrick O'Gara
Eugene Braunwald
Cardiomyopathy and Myocarditis 1481(7)
Joshua Wynne
Eugene Braunwald
Pericardial Disease 1488(7)
Eugene Braunwald
Tumors and Trauma of the Heart 1495(3)
Eric H. Awtry
Wilson S. Colucci
Cardiac Manifestations of Systemic Disease 1498(3)
Eric H. Awtry
Wilson S. Colucci
Section 5 Vascular Disease
The Pathogenesis, Prevention, and Treatment of Atherosclerosis 1501(8)
Peter Libby
e22 Atlas of Atherosclerosis 171
Peter Libby
The Metabolic Syndrome 1509(5)
Robert H. Eckel
Ischemic Heart Disease 1514(13)
Elliott M. Antman
Andrew P. Selwyn
Eugene Braunwald
Joseph Loscalzo
Unstable Angina and Non-ST-Elevation Myocardial Infarction 1527(5)
Myocardial Infarction
Christopher P. Cannon
Eugene Braunwald
ST-Segment Elevation Myocardial Infarction 1532(12)
Elliott M. Antman
Eugene Braunwald
Percutaneous Coronary Intervention 1544(5)
Donald S. Baim
e23 Atlas of Percutaneous Revascularization 173 (1376)
Donald S. Baim
Hypertensive Vascular Disease 1549(14)
Theodore A. Kotchen
Diseases of the Aorta 1563(5)
Mark A. Creager
PART 10 Disorders of the Respiratory System

Section 1 Diagnosis of Respiratory Disorders

Approach to the Patient with Disease of the Respiratory System

David A. Lipson
Steven E. Weinberger

Disturbances of Respiratory Function

Steven E. Weinberger
Ilene M. Rosen

Diagnostic Procedures in Respiratory Disease

Scott Manaker
Steven E. Weinberger

Section 2 Diseases of the Respiratory System

Asthma

Peter J. Barnes

Hypersensitivity Pneumonitis and Pulmonary Infiltrates with Eosinophilia

Joel N. Kline
Gary W. Hunninghake

Environmental Lung Disease

Frank E. Speizer
John R. Balmes

Pneumonia

Lionel A. Mandell
Richard Wunderink

Bronchiectasis and Lung Abscess
Gregory Tino  
Steven E. Weinberger  
Cystic Fibrosis  
   Richard C. Boucher  
Chronic Obstructive Pulmonary Disease  
   John J. Reilly, Jr.  
   Edwin K. Silverman  
   Steven D. Shapiro  
Interstitial Lung Diseases  
   Talmadge E. King, Jr.  
Deep Venous Thrombosis and Pulmonary Thromboembolism  
   Samuel Z. Goldhaber  
Disorders of the Pleura and Mediastinum  
   Richard W. Light  
Disorders of Ventilation  
   Eliot A. Phillipson  
Sleep Apnea  
   Neil J. Douglas  
Lung Transplantation  
   Elbert P. Trulock  

PART 11 Critical Care Medicine  
Section 1 Respiratory Critical Care  
Principles of Critical Care Medicine  
   John P. Kress  
   Jesse B. Hall  
Acute Respiratory Distress Syndrome  
   Bruce D. Levy  
   Steven D. Shapiro  
Mechanical Ventilatory Support  
   Edward P. Ingenito  

Section 2 Shock and Cardiac Arrest  
Approach to the Patient with Shock  
   Ronald V. Maier  
Severe Sepsis and Septic Shock  

1632(3)  
1635(8)  
1643(8)  
1651(7)  
1658(3)  
1661(4)  
1665(3)  
1668(5)  
1673(7)  
1680(4)  
1684(5)  
1689(6)  
1695(7)
Robert S. Munford  
Cardiogenic Shock and Pulmonary Edema 1702(5)  
Judith S. Hochman  
David H. Ingbar  
Cardiovascular Collapse, Cardiac Arrest, and Sudden Cardiac Death 1707(7)  
Robert J. Myerberg  
Agustin Castellanos  
Section 3 Neurologic Critical Care  
Coma 1714(6)  
Allan H. Ropper  
Neurologic Critical Care, Including Hypoxic-Ischemic Encephalopathy and Subarachnoid Hemorrhage 1720(10)  
J. Claude Hemphill III  
Wade S. Smith  
Section 4 Oncologic Emergencies  
Oncologic Emergencies 1730(11)  
Rasim Gucalp  
Janice P. Dutcher  
PART 12 Disorders of the Kidney and Urinary Tract  
Cellular and Molecular Biology of the Kidney 1741(7)  
Alfred L. George, Jr.  
Eric G. Neilson  
Adaptation of the Kidney to Renal Injury 1748(4)  
Raymond C. Harris  
Eric G. Neilson  
Acute Renal Failure 1752(9)  
Kathleen D. Liu  
Glenn M. Chertow  
Chronic Kidney Disease 1761(11)  
Joanne M. Bargman  
Karl Skorecki  
Dialysis in the Treatment of Renal Failure 1772(4)  
Kathleen D. Liu
Glenn M. Chertow
Transplantation in the Treatment of Renal Failure
   Charles B. Carpenter
   Edgar L. Milford
   Mohamed H. Sayegh

Glomerular Diseases
   Julia B. Lewis
   Eric G. Neilson

Polycystic Kidney Disease and Other Inherited Tubular Disorders
   David J. Salant
   Parul S. Patel

Tubulointerstitial Diseases of the Kidney
   Alan S. L. Yu
   Barry M. Brenner

Vascular Injury to the Kidney
   Kamal F. Badr
   Barry M. Brenner

Nephrolithiasis
   John R. Asplin
   Fredric L. Coe
   Murray J. Favus

Urinary Tract Infections, Pyelonephritis, and Prostatitis
   Walter E. Stamm

Urinary Tract Obstruction
   Julian L. Seifter
   Barry M. Brenner

PART 13 Disorders of the Gastrointestinal System
Section 1 Disorders of the Alimentary Tract
Approach to the Patient with Gastrointestinal Disease
   William L. Hasler
   Chung Owyang
Gastrointestinal Endoscopy 1836(11)
Louis Michel Wong-Kee-Song
Mark Topazian

e25 Videos Atlas of Gastrointestinal Endoscopy 195
Louis Michel Wong-Kee-Song
Mark Topazian

Diseases of the Esophagus 1847(8)
Raj K. Goyal

Peptic Ulcer Disease and Related Disorders 1855(17)
John Del Valle

Disorders of Absorption 1872(14)
Henry J. Binder

Inflammatory Bowel Disease 1886(13)
Sonia Friedman
Richard S. Blumberg

Irritable Bowel Syndrome 1899(4)
Chung Owyang

Diverticular Disease and Common Anorectal Disorders 1903(7)
Susan L. Gearhart

Mesenteric Vascular Insufficiency 1910(2)
Susan L. Gearhart

Acute Intestinal Obstruction 1912(2)
Susan L. Gearhart
William Silen

Acute Appendicitis and Peritonitis 1914(4)
Susan L. Gearhart
William Silen

Section 2 Liver and Biliary Tract Disease 1918(5)
Approach to the Patient with Liver Disease
Marc Ghany
Jay H. Hoofnagle

Evaluation of Liver Function 1923(4)
Daniel S. Pratt
Marshall M. Kaplan
The Hyperbilirubinemias  1927(5)
Allan W. Wolkoff
Acute Viral Hepatitis  1932(17)
Jules L. Dienstag
Toxic and Drug-Induced Hepatitis  1949(6)
Jules L. Dienstag
Chronic Hepatitis  1955(14)
Jules L. Dienstag
Alcoholic Liver Disease  1969(2)
Mark E. Mailliard
Michael F. Sorrell
Cirrhosis and Its Complications  1971(9)
Bruce R. Bacon
e26 Atlas of Liver Biopsies  203
Jules L. Dienstag
Atul K. Bhan
Genetic, Metabolic, and Infiltrative Diseases Affecting the Liver  1980(3)
Bruce R. Bacon
Liver Transplantation  1983(8)
Jules L. Dienstag
Raymond T. Chung
Diseases of the Gallbladder and Bile Ducts  1991(10)
Norton J. Greenberger
Gustav Paumgartner
Section 3 Disorders of the Pancreas
Approach to the Patient with Pancreatic Disease  2001(4)
Phillip P. Toskes
Norton J. Greenberger
Acute and Chronic Pancreatitis  2005(14)
Norton J. Greenberger
Phillip P. Toskes
PART 14 Disorders of the Immune System, Connective Tissue, and Joints
Section 1 The Immune System in Health and Disease

Introduction to the Immune System 2019(26)
Barton F. Haynes
Kelly A. Soderberg
Anthony S. Fauci

The Major Histocompatibility Complex 2045(8)
Gerald T. Nepom

Primary Immune Deficiency Diseases 2053(8)
Max D. Cooper
Harry W. Schroeder, Jr.

Primary Immunodeficiencies Associated with or Secondary to Other Diseases 207 (1854)
Max D. Cooper
Harry W. Schroeder, Jr.

Section 2 Disorders of Immune-Mediated Injury

Allergies, Anaphylaxis, and Systemic Mastocytosis 2061(10)
K. Frank Austen

Autoimmunity and Autoimmune Diseases 2071(4)
Peter E. Lipsky
Betty Diamond

Systemic Lupus Erythematosus 2075(8)
Bevra Hannahs Hahn

Rheumatoid Arthritis 2083(9)
Peter E. Lipsky

Acute Rheumatic Fever 2092(4)
Jonathan R. Carapetis

Systemic Sclerosis (Scleroderma) and Related Disorders 2096(11)
John Varga

Sjogren's Syndrome 2107(2)
Haralampos M. Moutsopoulos

The Spondyloarthritides 2109(10)
Joel D. Taurog
The Vasculitis Syndromes 2119(13)  
Carol A. Langford  
Anthony S. Fauci  
e28 Atlas of Clinical Imaging in the Vasculitic Syndromes 209 (1923)  
Carol A. Langford  
Anthony S. Fauci  
Behcet's Syndrome 2132(1)  
Haralampos M. Moutsopoulos  
Relapsing Polychondritis 2133(2)  
Carol A. Langford  
Bruce C. Gilliland  
Sarcoidosis 2135(7)  
Robert P. Baughman  
Elyse E. Lower  
Familial Mediterranean Fever 2142(3)  
Daniel L. Kastner  
Amyloidosis 2145(4)  
David C. Seldin  
Martha Skinner  
Section 3 Disorders of the Joints and Adjacent Tissues  
Approach to Articular and Musculoskeletal Disorders 2149(9)  
John J. Cush  
Peter E. Lipsky  
Osteoarthritis 2158(7)  
David T. Felson  
Gout and Other Crystal-Associated Arthropathies 2165(4)  
H. Ralph Schumacher  
Lan X. Chen  
Infectious Arthritis 2169(6)  
Lawrence C. Madoff  
Fibromyalgia 2175(2)
Carol A. Langford
Bruce C. Gilliland

Arthritis Associated with Systemic Disease and Other Arthritides
Carol A. Langford
Bruce C. Gilliland

Periarticular Disorders of the Extremities
Carol A. Langford
Bruce C. Gilliland

PART 15 Endocrinology and Metabolism
Section 1 Endocrinology
Principles of Endocrinology
J. Larry Jameson

Disorders of the Anterior Pituitary and Hypothalamus
Shlomo Melmed
J. Larry Jameson

Disorders of the Neurohypophysis
Gary L. Robertson

Disorders of the Thyroid Gland
J. Larry Jameson
Anthony P. Weetman

Disorders of the Adrenal Cortex
Gordon H. Williams
Robert G. Dluhy

Pheochromocytoma
Hartmut P. H. Neumann

Diabetes Mellitus
Alvin C. Powers

Hypoglycemia
Philip E. Cryer

Disorders of the Testes and Male Reproductive System
Shalender Bhasin
J. Larry Jameson
The Female Reproductive System: Infertility and Contraception 2324(10)
  Janet E. Hall
The Menopause Transition and Postmenopausal Hormone Therapy 2334(5)
  JoAnn E. Manson
  Shari S. Bassuk
Disorders of Sex Development 2339(8)
  John C. Achermann
  J. Larry Jameson
Endocrine Tumors of the Gastrointestinal Tract and Pancreas 2347(11)
  Robert T. Jensen
Disorders Affecting Multiple Endocrine Systems 2358(7)
  Camilo Jimenez
  Robert F. Gagel
Section 2 Disorders of Bone and Mineral Metabolism
  Bone and Mineral Metabolism in Health and Disease 2365(12)
    F. Richard Bringhurst
    Marie B. Demay
    Stephen M. Krane
    Henry M. Kronenberg
  Diseases of the Parathyroid Gland and Other Hyper- and Hypocalcemic Disorders 2377(20)
    John T. Potts, Jr.
  Osteoporosis 2397(11)
    Robert Lindsay
    Felicia Cosman
  Paget Disease and Other Dysplasias of Bone 2408(8)
    Murray J. Favus
    Tamara J. Vokes
Section 3 Disorders of Intermediary Metabolism
  Disorders of Lipoprotein Metabolism 2416(13)
Daniel J. Rader
Helen H. Hobbs
Hemochromatosis 2429(5)
Lawrie W. Powell
The Porphyrias 2434(10)
Robert J. Desnick
Kenneth H. Astrin
Disorders of Purine and Pyrimidine Metabolism 2444(5)
Robert L. Wortmann
Wilson Disease 2449(3)
George J. Brewer
Lysosomal Storage Disease 2452(5)
Robert J. Hopkin
Gregory A. Grabowski
Glycogen Storage Diseases and Other Inherited 2457(4)
Disorders of Carbohydrate Metabolism
Yuan-Tsong Chen
Heritable Disorders of Connective Tissue 2461(9)
Darwin J. Prockop
Malwina Czarny-Ratajczak
Inherited Disorders of Amino Acid Metabolism in Adults 2470(4)
Nicola Longo
Inherited Defects of Membrane Transport 2474(3)
Nicola Longo
e29 Atlas of Clinical Manifestations of Metabolic Diseases 215
J. Larry Jameson
PART 16 Neurologic Disorders
Section 1 Diagnosis of Neurologic Disorders
Mechanisms of Neurologic Diseases 2477(7)
Stephen L. Hauser
M. Flint Beal
Approach to the Patient with Neurologic Disease 2484(5)
Daniel H. Lowenstein
Joseph B. Martin
Stephen L. Hauser

Neuroimaging in Neurologic Disorders 2489(9)
William P. Dillon

e30 Atlas of Neuroimaging 225 (36)
Andre Furtado
William P. Dillon

e31 Electrodiagnostic Studies of Nervous System Disorders: EEG, Evoked Potentials, and EMG 261 (6)
Michael J. Aminoff

e32 Technique of Lumbar Puncture 267 (2231)
Elizabeth Robbins
Stephen L. Hauser

Section 2 Diseases of the Central Nervous System

Seizures and Epilepsy 2498(15)
Daniel H. Lowenstein

Cerebrovascular Diseases 2513(23)
Wade S. Smith
Joey D. English
S. Claiborne Johnston

Dementia 2536(13)
Thomas D. Bird
Bruce L. Miller

Parkinson's Disease and Other Extrapyramidal Movement Disorders 2549(11)
Mahlon R. DeLong
Jorge L. Juncos

Hyperkinetic Movement Disorders 2560(5)
C. Warren Olanow

Ataxic Disorders 2565(7)
Roger N. Rosenberg

Amyotrophic Lateral Sclerosis and Other Motor Neuron Diseases 2572(4)
Robert H. Brown, Jr.
Disorders of the Autonomic Nervous System
   Phillip A. Low
   John W. Engstrom
Trigeminal Neuralgia, Bell's Palsy, and Other Cranial Nerve Disorders
   M. Flint Beal
   Stephen L. Hauser
Diseases of the Spinal Cord
   Stephen L. Hauser
   Allan H. Ropper
Concussion and Other Head Injuries
   Allan H. Ropper
Primary and Metastatic Tumors of the Nervous System
   Stephen M. Sagar
   Mark A. Israel
Multiple Sclerosis and Other Demyelinating Diseases
   Stephen L. Hauser
   Douglas S. Goodin
Meningitis, Encephalitis, Brain Abscess, and Empyema
   Karen L. Roos
   Kenneth L. Tyler
Chronic and Recurrent Meningitis
   Walter J. Koroshetz
   Morton N. Swartz
Prion Diseases
   Stanley B. Prusiner
   Bruce L. Miller
Section 3 Nerve and Muscle Disorders
Peripheral Neuropathy
   Vinay Chaudhry
Guillain-Barre Syndrome and Other Immune-Mediated Neuropathies
Stephen L. Hauser
Arthur K. Asbury
Myasthenia Gravis and Other Diseases of the Neuromuscular Junction 2672(6)
Daniel B. Drachman
Muscular Dystrophies and Other Muscle Diseases 2678(18)
Robert H. Brown, Jr.
Anthony A. Amato
Jerry R. Mendell
Polymyositis, Dermatomyositis, and Inclusion Body Myositis 2696(7)
Marinos C. Dalakas
S. Andrew Josephson
Martin A. Samuels
Section 4 Chronic Fatigue Syndrome
Chronic Fatigue Syndrome 2703(2)
Stephen E. Straus
Section 5 Psychiatric Disorders
Biology of Psychiatric Disorders 2705(5)
Steven E. Hyman
Eric Kandel
Mental Disorders 2710(14)
Victor I. Reus
Section 6 Alcoholism and Drug Dependency
Alcohol and Alcoholism 2724(5)
Marc A. Schuckit
Opioid Drug Abuse and Dependence 2729(4)
Marc A. Schuckit
Cocaine and Other Commonly Abused Drugs 2733(3)
Jack H. Mendelson
Nancy K. Mello
Nicotine Addiction 2736(5)
David M. Burns

PART 17 Poisoning, Drug Overdose, and Envenomation

e34 Heavy Metal Poisoning 277 (4)
Howard Hu

e35 Poisoning and Drug Overdosage 281 (2460)
Christopher H. Linden
Michael J. Burns
Mark B. Mycyk

Disorders Caused by Reptile Bites and Marine Animal Exposures 2741(7)
Paul S. Auerbach
Robert L. Norris

Ectoparasite Infestations and Arthropod Bites and Stings 2748
Richard J. Pollack
James H. Maguire

PART 18 e-Chapters from International Advisory Editors

e36 Pulmonary Biomarkers in COPD 297 (6)
Peter J. Barnes

e37 Chagas' Disease: Advances in Diagnosis and Management 303 (4)
Andrei C. Sposito
Jose A. F. Ramires

e38 The Polypill 307 (4)
K. Srinath Reddy
Nitish Naik
Ambuj Roy

e39 Mitochondrial DNA and Heritable Traits and Diseases 311
Karl Skorecki
Hanna Mandel

Appendix Laboratory Values of Clinical Importance 1 (1)
Alexander Kratz