

Volume 1

P a r t

1

**HOST-PARASITE
RELATIONSHIPS AND THE
PATHOGENESIS OF INFECTIOUS
DISEASES**

- | | | |
|----------|---|----|
| 1 | Microbial Virulence Factors ...
Bernhard L. Wiedermann
and Sheldon L. Kaplan | 2 |
| 2 | Immunologic and Phagocytic
Responses to Infection
Michael F. Tosi and K. Lynn Cates | 14 |
| 3 | Metabolic Response
of the Host to Infections
William R. Beisel | 54 |
| 4 | Interaction of
Infection and
Nutrition
Ralph D. Feigin
and Kelvin S. Panesar | 69 |
| 5 | Fever: Pathogenesis
and Treatment
Martin I. Lorin | 89 |
| 6 | Indigenous Flora
Arnold L. Smith | 95 |
| 7 | Epidemiology of
Infectious Diseases
Edward A. Mortimer, Jr.,
and John P. Fox | 98 |

P a r t

2

INFECTIONS OF SPECIFIC ORGAN SYSTEMS

S E C T I O N O N E UPPER RESPIRATORY TRACT INFECTIONS

- | | | |
|-----------|---|-----|
| 8 | The Common Cold | 128 |
| | James D. Cherry | |
| 9 | Infections of the Oral Cavity | 134 |
| | Thomas R. Flynn, Joseph F. Picuch,
and Richard G. Topazian | |
| 10 | Pharyngitis (Pharyngitis, Tonsillitis, Tonsillopharyngitis, and Nasopharyngitis) | 148 |
| | James D. Cherry | |
| 11 | Herpangina | 156 |
| | James D. Cherry | |
| 12 | Pharyngoconjunctival Fever | 158 |
| | James D. Cherry | |
| 13 | Uvulitis | 162 |
| | Ellen R. Wald | |
| 14 | Peritonsillar, Retropharyngeal, and Parapharyngeal Abscesses | 164 |
| | Paul E. Hammerschlag
and Margaret R. Hammerschlag | |

- 15 Cervical Lymphadenitis** 170
Karina M. Butler
and Carol J. Baker
- 16 Parotitis** 180
Judith R. Campbell
- 17 Sinusitis** 183
James D. Cherry
and Anita Newman
- 18 Otitis Externa** 192
Ralph D. Feigin
and Joshua J. Alexander
- 19 Otitis Media** 195
Jerome O. Klein
and Charles D. Bluestone
- 20 Mastoiditis** 212
Karen Lewis, Anita Newman,
and James D. Cherry
- 21 Epiglottitis (Supraglottitis)** ... 218
James D. Cherry
- 22 Croup (Laryngitis,
Laryngotracheitis, Spasmodic
Croup, Laryngotracheo-
bronchitis, Bacterial Tracheitis,
and Laryngotracheobron-
chopneumonitis)** 228
James D. Cherry

S E C T I O N T W O
L O W E R R E S P I R A T O R Y
T R A C T I N F E C T I O N S

- 23 Acute Bronchitis** 242
James D. Cherry
- 24 Chronic Bronchitis** 245
I. Celine Hanson
and William T. Shearer

25	Bronchiolitis and Infectious Asthma	249
	Robert C. Welliver	
26	Nonbacterial Pneumonia	260
	Kenneth M. Boyer	
27	Bacterial Pneumonias	273
	Jerome O. Klein	
28	Hypersensitivity Pneumonitis and Chronic Interstitial Pneumonitis	284
	Raymond G. Slavin	
29	Pleural Effusions and Empyema	292
	J. Gary Wheeler and Richard F. Jacobs	
30	Lung Abscess	301
	J. Gary Wheeler and Richard F. Jacobs	
31	Cystic Fibrosis	308
	Peter W. Hiatt and Mark W. Kline	

S E C T I O N T H R E E
I N F E C T I O N S O F T H E
H E A R T

32	Infective Endocarditis	315
	Jeffrey R. Starke	
33	Infectious Pericarditis	339
	William W. Pinsky, Richard A. Friedman, David P. Jubelirer, and Michael R. Nihill	

34	Myocarditis	349
	Richard A. Friedman, Desmond F. Duff, Kenneth O. Schowengerdt, Jesus G. Vallejo, and Jeffrey A. Towbin	

35	Acute Rheumatic Fever	371
	Diana Lennon	

36	Noninfectious Carditis	384
	David R. Fulton and Jane G. Schaller	

37	Mediastinitis	395
	John G. Bartlett	

S E C T I O N F O U R
CENTRAL NERVOUS
SYSTEM INFECTIONS

38	Bacterial Meningitis Beyond the Neonatal Period	400
	Ralph D. Feigin and Eric Pearlman	

39	Parameningeal Infections	430
	Scott L. Pomeroy, Mary E. Sutton, and Philip R. Dodge	

40	Fungal Meningitis	438
	J. Thomas Cross, Jr., and Richard F. Jacobs	

41	Eosinophilic Meningitis	447
	Barbara W. Stechenberg	

42	Aseptic Meningitis and Viral Meningitis	450
	James D. Cherry	

43	Encephalitis and Meningoencephalitis	457
	James D. Cherry and W. Donald Shields	

- 44 Transverse Myelitis
or Myelopathy** 468
Scott L. Pomeroy, Mary E. Sutton,
and Philip R. Dodge

- 45 Guillain-Barré
Syndrome** 470
Daniel G. Glaze

S E C T I O N F I V E
**GENITOURINARY TRACT
INFECTIONS**

- 46 Urinary Tract Infections** 483
Melvin I. Marks
and Antonio C. Arrieta

- 47 Renal Abscess** 503
Edmond T. Gonzales, Jr.

- 48 Prostatitis** 507
Edmond T. Gonzales, Jr.

- 49 Gynecologic Infections
in Childhood and
Adolescence** 509
Mariam R. Chacko
and Charles R. Woods, Jr.

- 50 Sexually Transmitted
Diseases** 548
Laura T. Gutman

S E C T I O N S I X
**GASTROINTESTINAL TRACT
INFECTIONS**

- 51 Esophagitis** 562
Sudipta Misra
and Marvin E. Ament

- 52 Approach to Patients
with Gastrointestinal
Tract Infections
and Food Poisoning** 567
Larry K. Pickering
and Thomas G. Cleary

- 53 Antibiotic-Associated Colitis** 601
George D. Ferry

- 54 Whipple Disease** 606
Roberto A. Guerrero and Mark A. Gilger

S E C T I O N S E V E N
L I V E R D I S E A S E S

- 55 Viral Hepatitis Due to Hepatitis Viruses A–E and GB Virus** 612
Richard D. Aach

- 56 Viral Hepatitis Due to Viruses Other than Hepatitis Viruses A–E** 641
Sandy T. Hwang and George D. Ferry

- 57 Cholangitis and Cholecystitis** 648
Ann O. Scheimann, George D. Ferry,
and Richard D. Aach

- 58 Pyogenic Liver Abscess** 655
Sheldon L. Kaplan

- 59 Reye Syndrome** 658
James P. Keating

S E C T I O N E I G H T
O T H E R I N T R A - A B D O M I N A L
I N F E C T I O N S

- 60 Appendicitis and Pelvic Abscess** 662
Thomas L. Kuhls

- 61 Pancreatitis** 671
Thomas L. Kuhls

- 62 Peritonitis and Intra-abdominal Abscess** 677
W. Lance George

- 63 Retroperitoneal Infection** 681
W. Lance George

S E C T I O N N I N E
MUSCULOSKELETAL INFECTIONS

- 64 Osteomyelitis and Septic Arthritis** 683
Paul Krogstad and Arnold L. Smith

- 65 Bacterial Myositis and Pyomyositis** 704
Charles Grose

- 66 Miscellaneous Causes of Myositis** 709
Bernhard L. Wiedermann

S E C T I O N T E N
SKIN INFECTIONS

- 67 Cutaneous Manifestations of Systemic Infections** 713
James D. Cherry

- 68 Roseola Infantum (Exanthem Subitum)** 738
James D. Cherry

- 69 Bacterial Skin Infections** 741
Marin E. Melish and Alison A. Bertuch

- 70 Viral and Fungal Skin Infections** 753
Stacey E. Gallas and Moise L. Levy

S E C T I O N E L E V E N
OCULAR INFECTIONS

- 71 Ocular Infections** 786
Paul G. Steinkuller, Jane C. Edmond,
and Ronni M. Chen

SECTION TWELVE
SYSTEMIC INFECTIOUS DISEASES

- 72 Bacteremia and Septic Shock** 807
Sheldon L. Kaplan

- 73 Fever Without Localizing Signs and Fever of Unknown Origin** 820
Martin I. Lorin and Ralph D. Feigin

- 74 Toxic Shock Syndrome** 830
P. Joan Chesney and Jeffrey P. Davis

- 75 Adult Respiratory Distress Syndrome in Children** 852
Peter W. Hiatt

SECTION THIRTEEN
INFECTIONS OF THE FETUS AND
NEWBORN

- 76 Viral Infections of the Fetus and Neonate** 856
James C. Overall, Jr.

- 77 Perinatal Bacterial Diseases** 892
Xavier Sáez-Llorens
and George H. McCracken, Jr.

- 78 Miscellaneous Infections of the Newborn** 926
Pablo J. Sánchez

SECTION FOURTEEN
INFECTIONS OF THE
COMPROMISED HOST

- 79 Congenital Immune Deficiency** 941
Mark W. Kline and William T. Shearer

- 80 AIDS and Other Acquired Immunodeficiency Diseases** 954
I. Celine Hanson and William T. Shearer

- 81 Opportunistic Infections in the Compromised Host** 980
Christian C. Patrick and Karen S. Slobod

S E C T I O N F I F T E E N
UNCLASSIFIED INFECTIOUS DISEASES

- 82 Kawasaki Disease** 995
David M. Morens
and Marian E. Melish

- 83 Chronic Fatigue Syndrome** 1014
Ciro V. Sumaya

P a r t

3

INFECTIONS WITH SPECIFIC MICROORGANISMS

S E C T I O N S I X T E E N
BACTERIAL INFECTIONS

- 84 Nomenclature of Aerobic and Anaerobic Bacteria** 1022
David A. Bruckner



S U B S E C T I O N O N E
GRAM-POSITIVE COCCI

- 85 Coagulase-Positive Staphylococcal Infections** ... 1039
Marian E. Melish
and Kathleen A. Campbell

- 86 Coagulase-Negative Staphylococcal Infections** ... 1066
Christian C. Patrick
- 87 Group A, Group C, and Group G Beta-Hemolytic Streptococcal Infections** 1076
Edward L. Kaplan
and Michael A. Gerber
- 88 Group B Streptococcal Infections** 1089
Judith L. Rowen and Carol J. Baker
- 89 Enterococcal and Viridans Streptococcal Infections** 1106
B. Keith English and Jerry L. Shenep
- 90 Pneumococcal Infections** 1129
David W. Teele
- 91 Miscellaneous Gram-Positive Cocci** 1136
Randall G. Fisher and William C. Gruber
- □ □
- S U B S E C T I O N T W O
G R A M - N E G A T I V E C O C C I
- 92 *Moraxella Catarrhalis*** 1140
Barbara W. Stechenberg
- 93 Meningococcal Disease** 1143
Marsha S. Anderson, Mary P. Glodé,
and Arnold L. Smith
- 94 Gonorrhoea** 1157
Laura T. Gutman



S U B S E C T I O N T H R E E
GRAM-POSITIVE BACILLI

- 95** **Diphtheria** 1169
Ralph D. Feigin,
Barbara W. Stechenberg,
and Laura K. Aguilar
- 96** **Anthrax** 1176
Morven S. Edwards
- 97** ***Bacillus Cereus*** 1179
Enrique Caceres and Thomas G. Cleary
- 98** ***Arcanobacterium***
Haemolyticum 1185
James D. Cherry
- 99** ***Erysipelothrix***
Rhusiopathiae 1188
William C. Gruber
and Randall G. Fisher
- 100** **Listeriosis** 1189
Robert Bortolussi
and William A. Kennedy
- 101** **Tuberculosis** 1196
Jeffrey R. Starke
and Margaret H. D. Smith
- 102** **Other**
Mycobacteria 1239
J. Thomas Cross, Jr.,
and Richard F. Jacobs
- 103** **Leprosy** 1248
Wayne M. Meyers
- 104** ***Nocardia*** 1266
Toni Darville
and Richard F. Jacobs

- 105** **Miscellaneous**
Gram-Positive Bacilli 1270
William C. Gruber
and Randall G. Fisher



S U B S E C T I O N F O U R
ENTEROBACTERIA

- 106** ***Citrobacter*** 1276
William C. Gruber
and Randall G. Fisher
- 107** ***Enterobacter*** 1279
William C. Gruber
and Randall G. Fisher
- 108** **Diarrhea- and Dysentery-
Causing *Escherichia*
*Coli*** 1282
David W. K. Acheson
and Gerald T. Keusch
- 109** ***Klebsiella*** 1299
William C. Gruber
and Randall G. Fisher
- 110** ***Morganella*
*Morganii*** 1302
William C. Gruber
and Randall G. Fisher
- 111** ***Proteus*** 1303
William C. Gruber
and Randall G. Fisher
- 112** ***Providencia*** 1306
William C. Gruber
and Randall G. Fisher
- 113** ***Shigella*** 1307
Henry F. Gomez
and Thomas G. Cleary

- 114** *Serratia* 1317
William C. Gruber
and Randall G. Fisher
- 115** *Salmonella* 1321
Henry F. Gomez
and Thomas G. Cleary
- 116** **Plague**
(Yersinia Pestis) 1334
Maria D. Goldstein
- 117** **Other Yersinia**
Species 1339
Charles R. Woods
- 118** **Miscellaneous**
Enterobacteria 1351
Randall G. Fisher
and William C. Gruber
- 119** *Aeromonas* 1355
Ralph D. Feigin
- 120** *Pasteurella Multocida* 1361
Barbara W. Stechenberg
- 121** **Cholera** 1364
Gerald T. Keusch
and Michael L. Bennish
- 122** *Vibrio*
Parahaemolyticus 1380
Enrique Caceres
and Thomas G. Cleary
- 123** *Vibrio Vulnificus* 1384
Randall G. Fisher
and William C. Gruber

- 124** **Miscellaneous Non-Enterobacteriaceae Fermentative Bacilli** 1386
Randall G. Fisher
and William C. Gruber
- 125** ***Acinetobacter*** 1390
Armando G. Correa
- 126** ***Alcaligenes*** 1394
Randall G. Fisher
and William C. Gruber
- 127** ***Eikenella Corrodens*** 1396
Randall G. Fisher
and William C. Gruber
- 128** ***Flavobacterium*** 1398
William C. Gruber
and Randall G. Fisher
- 129** ***Pseudomonas* and Related Species** 1401
Michael T. Brady
and Ralph D. Feigin
- 130** ***Stenotrophomonas (Xanthomonas) Maltophilia*** 1413
Randall G. Fisher
and William C. Gruber

Volume 2



SUBSECTION FIVE
GRAM-NEGATIVE COCCOBACILLI

- 131** ***Actinobacillus Actinomycetemcomitans*** 1415
Suzanne Maxson
and Richard F. Jacobs
- 132** ***Bartonellosis*** 1415
Barbara W. Stechenberg

- 133** **Brucellosis** 1417
Edward J. Young
- 134** **Pertussis and Other
Bordetella Infections** 1423
James D. Cherry
and Ulrich Heininger
- 135** ***Calymmatobacterium
Granulomatis*** 1440
Mariam R. Chacko
- 136** ***Campylobacter
Jejuni*** 1443
Gloria Heresi and Thomas G. Cleary
- 137** **Other *Campylobacter*
Species** 1452
Robert J. Leggiardo
- 138** **Tularemia** 1458
Ching C. Lau
and Ralph D. Feigin
- 139** ***Haemophilus
Influenzae*** 1464
Joel I. Ward
and Kenneth M. Zangwill
- 140** **Other *Haemophilus*
Species** 1482
Stephen J. Barenkamp
- 141** ***Helicobacter Pylori*** 1488
Mark A. Gilger
- 142** ***Kingella*** 1495
Thomas L. Kuhls
- 143** **Legionnaires' Disease,
Pontiac Fever, and Related
Illnesses** 1499
Paul H. Edelstein

144 *Streptobacillus
Moniliformis*
(Rat-Bite Fever) 1509
Carrie L. Byington
and Robert D. Basow

145 *Bartonella* (**Cat-Scratch
Disease**) 1512
Kenneth M. Boyer



S U B S E C T I O N S I X
TREPONEMATACEAE

146 *Borrelia*
(Relapsing Fever) 1517
Kenneth M. Boyer

147 *Borrelia*
(Lyme Disease) 1522
Barbara W. Stechenberg

148 **Leptospirosis** 1529
Ralph D. Feigin
and Donald C. Anderson

149 *Spirillum Minus*
(Rat-Bite Fever) 1542
Carrie L. Byington
and Robert D. Basow

150 **Syphilis** 1543
Laura T. Gutman

151 **Nonvenereal
Treponematoses** 1557
James N. Miller
and Craig W. Beachler



S U B S E C T I O N S E V E N
ANAEROBIC BACTERIA

- 152 Clostridial Intoxication
and Infection** 1564
W. Lance George
- 153 Infant Botulism** 1570
Stephen S. Arnon
- 154 Tetanus** 1577
Louis L. Weinstein, Rick E. Harrison,
and James D. Cherry
- 155 Actinomycosis** 1587
Suzanne Maxson
and Richard F. Jacobs
- 156 Other Anaerobic
Infections** 1590
Lisa M. Dunkle and Mark S. Munsey

S E C T I O N S E V E N T E E N
VIRAL INFECTIONS

- 157 Nomenclature and
Classification of Viruses** ... 1600
Joseph L. Melnick



D N A V I R U S E S



S U B S E C T I O N O N E
PARVOVIRIDAE

- 158 Parvoviruses** 1620
James D. Cherry



S U B S E C T I O N T W O
PAPILLOVIRIDAE

- 159 Human
Papillomaviruses** 1630
Gail J. Demmler

- 160 Slow Viruses** 1646
William J. Britt



S U B S E C T I O N T H R E E
ADENOVIRIDAE

- 161 Adenoviruses** 1666
James D. Cherry



S U B S E C T I O N F O U R
HEPATOVIIRIDAE

- 162 Hepatitis B and
D Viruses** 1685
James D. Cherry, Karin Nielsen,
and Jorge Vargas



S U B S E C T I O N F I V E
HERPESVIRIDAE

- 163 Herpes Simplex Virus** 1703
Steve Kohl

- 164 Cytomegalovirus** 1732
Gail J. Demmler

- 165 Epstein-Barr Virus** 1751
Ciro V. Sumaya

- 166 Human Herpesviruses
6, 7, AND 8** 1765
Charles Grose

- 167 Varicella-Zoster
Virus** 1769
Anne A. Gershon



S U B S E C T I O N S I X
POXVIRIDAE

- 168 Smallpox
(Variola Virus)** 1778
James D. Cherry

169 Other Poxviruses 1781
James D. Cherry

□ □ □

R N A V I R U S E S

□ □ □

S U B S E C T I O N O N E
P I C O R N A V I R I D A E

**170 Enteroviruses:
Coxsackieviruses,
Echoviruses,
and Polioviruses** 1787
James D. Cherry

171 Rhinoviruses 1839
Elliot C. Dick, Stanley L. Inhorn,
and W. Paul Glezen

172 Hepatitis A Virus 1865
Beth P. Bell, Craig N. Shapiro,
and Harold S. Margolis

□ □ □

S U B S E C T I O N T W O
C A L I C I V I R I D A E

**173 Caliciviruses, Including
Hepatitis E Virus** 1882
David O. Matson

□ □ □

S U B S E C T I O N T H R E E
R E O V I R I D A E

174 Reoviruses 1893
James D. Cherry

**175 Orbiviruses and
Coltivirus** 1897
Theodore F. Tsai

176 Rotaviruses 1901
David I. Bernstein
and Richard L. Ward

□ □ □
S U B S E C T I O N F O U R
T O G A V I R I D A E

- 177 Rubella Virus** 1922
James D. Cherry
- 178 Alphaviruses** 1949
- a. EASTERN EQUINE ENCEPHALITIS** 1949
 Theodore F. Tsai
- b. WESTERN EQUINE ENCEPHALITIS** 1953
 Theodore F. Tsai
- c. VENEZUELAN EQUINE ENCEPHALITIS** 1960
 Theodore F. Tsai
- d. CHIKUNGUNYA** 1964
 Scott B. Halstead
- e. ROSS RIVER VIRUS ARTHRITIS** 1969
 John G. Aaskov
- f. OTHER ALPHAVIRAL INFECTIONS** 1972
 Theodore F. Tsai

□ □ □
S U B S E C T I O N F I V E
F L A V I V I R I D A E

- 179 Flaviviruses** 1974
- a. ST. LOUIS ENCEPHALITIS** 1974
 Theodore F. Tsai
- b. YELLOW FEVER** 1981
 Duane J. Gubler
- c. DENGUE AND DENGUE HEMORRHAGIC FEVER** 1984
 Scott B. Halstead

**d. JAPANESE
ENCEPHALITIS** 1993

Theodore F. Tsai

**e. MURRAY VALLEY
ENCEPHALITIS** 2001

John G. Aaskov

**f. TICK-BORNE
ENCEPHALITIS** 2003

Christoph Aebi
and Theodore F. Tsai

**g. OTHER FLAVIVIRAL
INFECTIONS** 2009

Theodore F. Tsai

180 Hepatitis C Virus 2013
Miriam J. Alter, Eric E. Mast,
and Harold S. Margolis



S U B S E C T I O N S I X
ORTHOMYXOVIRIDAE

181 Influenza Viruses 2024
W. Paul Glezen



S U B S E C T I O N S E V E N
PARAMYXOVIRIDAE

**182 Parainfluenza
Viruses** 2041
Caroline Breese Hall

183 Measles Virus 2054
James D. Cherry

184 Mumps Virus 2075
James D. Cherry

**185 Respiratory Syncytial
Virus** 2084
Caroline Breese Hall



S U B S E C T I O N E I G H T
R H A B D O V I R I D A E

- 186 Rabies Virus** 2111
Stanley A. Plotkin
and H. Fred Clark



S U B S E C T I O N N I N E
F I L O V I R I D A E

- 187 Arenaviral and
Filoviral Hemorrhagic
Fevers** 2125
Karl M. Johnson



S U B S E C T I O N T E N
C O R O N A V I R I D A E

- 188 Coronaviruses** 2132
Elliot C. Dick, Stanley L. Inhorn,
and Robert L. Atmar



S U B S E C T I O N E L E V E N
B U N Y A V I R I D A E

- 189 Hantaviruses** 2141
Louisa E. Chapman,
Kelly T. McKee, Jr.,
and C. J. Peters

- 190 California/La Crosse
Encephalitis** 2150
James E. McJunkin,
Linda L. Minnich,
and Theodore F. Tsai

- 191 Other Bunyaviruses** 2159
- a. RIFT VALLEY FEVER** 2159
Robert E. Shope
- b. CRIMEAN-CONGO
HEMORRHAGIC FEVER** 2160
Robert B. Tesh

**c. PHLEBOTOMUS FEVER
(SANDFLY FEVER) 2162**

Robert B. Tesh

d. OROPOUCHE FEVER 2164

Francisco P. Pinheiro,
Amelia P. A. Travassos da Rosa,
and Pedro F. C. Vasconcelos



**S U B S E C T I O N T W E L V E
R E T R O V I R I D A E**

192 Human Retroviruses 2169
Lynne M. Mofenson

**S E C T I O N E I G H T E E N
C H L A M Y D I A**

193 Chlamydia Pneumonia 2227
Margaret R. Hammerschlag

**S E C T I O N N I N E T E E N
R I C K E T T S I A L D I S E A S E S**

194 Rickettsial Diseases 2239
Morven S. Edwards
and Ralph D. Feigin

**S E C T I O N T W E N T Y
M Y C O P L A S M A**

**195 Mycoplasma and
Ureaplasma Infections 2259**
James D. Cherry

**S E C T I O N T W E N T Y - O N E
F U N G A L D I S E A S E S**

196 Classification of Fungi 2287
Dexter H. Howard
and Heidi M. Kokkinos

197 Aspergillus Infections 2288
Michael D. Blum
and Bernhard L. Wiedermann

- 198 Blastomycosis** 2297
Gordon E. Schutze
- 199 Candidiasis** 2303
Walter T. Hughes
and Patricia M. Flynn
- 200 Coccidioidomycosis** 2314
Ziad M. Shehab
- 201 Paracoccidioidomycosis** ... 2325
Angela Restrepo-Moreno
- 202 Cryptococcosis** 2332
Walter T. Hughes
- 203 Histoplasmosis** 2337
Bernhard L. Wiedermann
- 204 Sporotrichosis** 2350
Bernhard L. Wiedermann
- 205 Zygomycosis** 2354
Bernhard L. Wiedermann
- 206 Miscellaneous Mycoses** 2360
John W. Rippon

S E C T I O N T W E N T Y - T W O
PARASITIC DISEASES

- 207 Classification/Nomenclature
of Human Parasites** 2383
Lynne S. Garcia



S U B S E C T I O N O N E
PROTOZOA

Amoeba

- 208 Amebiasis** 2389
Peter J. Hotez
and Alan D. Strickland

- 209** *Blastocystis Hominis*
Infection 2397
 Peter J. Hotez
- 210** *Entamoeba Coli*
Infection 2399
 Peter J. Hotez
- Flagellates (Intestinal)**
- 211** **Giardiasis** 2400
 James P. Keating
- 212** *Dientamoeba*
Fragilis **Infection** 2403
 Lisa M. Frenkel
- 213** *Trichomonas*
Infections 2406
 Joan S. Purcell
 and Mariam R. Chacko
- Ciliates (Intestinal)**
- 214** *Balantidium Coli* 2412
 Peter J. Hotez
- Coccidia, Inicnosporidia**
(Intestinal)
- 215** **Cryptosporidiosis,**
***Cyclospora* Infection,**
Isosporiasis, and
Microsporidiosis 2413
 Jane T. Atkins, Enrique Caceres,
 and Thomas G. Cleary
- Sporozin, Flagellates**
- 216** **Babesiosis** 2432
 Peter J. Krause

217 Malaria 2437
Coy D. Fitch

218 Leishmaniasis 2452
Murray Wittner

219 Trypanosomiasis 2459
Murray Wittner

**220 *Naegleria, Acanthamoeba,*
and *Leptomyxid Ameba*** 2467
James S. Seidel

221 Toxoplasmosis 2473
Kenneth M. Boyer,
Jack S. Remington,
and Rima L. McLeod

**222 *Pneumocystis Carinii*
Pneumonia** 2490
Walter T. Hughes
and Donald C. Anderson



S U B S E C T I O N T W O
NEMATODES

**223 Parasitic Nematode
Infections** 2499
Michael Katz
and Peter J. Hotez



S U B S E C T I O N T H R E E
CESTODES

224 Cestodes 2513
Jerrold A. Turner



S U B S E C T I O N F O U R
TREMATODES

- 225 Trematodes** 2529
Jerrold A. Turner



S U B S E C T I O N F I V E
ARTHROPODS

- 226 Arthropods** 2536
Sheldon L. Kaplan

S E C T I O N T W E N T Y -
T H R E E
HEALTH INFORMATION FOR
INTERNATIONAL TRAVEL

- 227 Health Information
for International Travel** 2540
Margaret A. Tipple
and Rosamond Dewart

P a r t

4

INFECTION CONTROL

S E C T I O N T W E N T Y -
F O U R
HOSPITAL CONTROL OF
INFECTIONS

- 228 Nosocomial
Infections** 2545
W. Charles Huskins
and Donald A. Goldmann

- 229** **Prevention and Control of Nosocomial Infections in Hospitalized Children** 2585
W. Charles Huskins
and Donald A. Goldmann

P a r t

5

THERAPEUTICS

- 230** **Fundamentals of Pharmacokinetics, Anti-infective Pharmacodynamics, and Therapeutic Drug Monitoring** 2604
Christine A. Lindsay
and John A. Bosso
- 231** **Antibacterial Therapeutic Agents** 2614
Sheila M. Hickey
and George H. McCracken, Jr.
- 232** **Antimicrobial Prophylaxis** 2649
Adnan S. Dajani
and Walid Abuhammour
- 233** **Antiviral Agents** 2660
Yvonne J. Bryson
- 234** **Antifungal Agents** 2697
Michael G. Rinaldi
- 235** **Drugs for Parasitic Infections** 2707
The Medical Letter

- 236 Immunomodulating Agents** 2719
 Timothy R. La Pine, K. Lynn Cates,
 and Harry R. Hill

P a r t

6

**PREVENTION OF INFECTIOUS
 DISEASES**

- 237 Active Immunizing Agents** 2731
 Penelope H. Dennehy, Erica E. Jost,
 and Georges Peter
- 238 Passive Immunization** 2769
 E. Richard Stiehm

S E C T I O N T W E N T Y - F I V E
**OTHER PREVENTIVE
 CONSIDERATIONS**

- 239 Public Health Considerations** 2803
 Steven L. Solomon
 and David W. Fraser
- 240 Infections in Day Care Environments** 2826
 Ellen R. Wald
- 241 Human Bites** 2841
 Ellie J. C. Goldstein
- 242 Animal Bites** 2848
 Morven S. Edwards

P a r t

7

**GUIDES TO THE DIAGNOSIS OF
INFECTION**

- 243 Use of the Bacteriology,
Mycology, and Parasitology
Laboratories** 2857
Sheldon L. Kaplan
and Edward O. Mason, Jr.
- 244 Use of the Diagnostic
Virology Laboratory** 2873
Marjorie J. Miller
and James D. Cherry
- 245 Use of the Serology
Laboratory** 2892
Edward O. Mason, Jr.

P a r t

8

**BIostatISTICS APPLICABLE TO
THE SUBSPECIALITY OF
INFECTIOUS DISEASES**

246 **Epidemiology and
Biostatistics** 2907
Eugene D. Shapiro

Index i