

21

Taber's
CYCLOPEDIA
MEDICAL
DICTIONARY

Taber's[®]
CYCLOPEDIA
MEDICAL
DICTIONARY

Editor

Donald Venes, M.D., M.S.J.

Managing Editor

Arthur Biderman

Content Manager/Associate Editor

Brigitte G. Fenton

Associate Editor

Joseph Patwell

Assistant Editor

Alison D. Enright

Copy Editors

Evelyn Adler

Deborah M. Posner

Proofreaders

Evelyn Adler

Ann Houska

Joy Matkowski

Christopher Muldor

EDITION

21

ILLUSTRATED IN FULL COLOR

Taber's[®]
CYCLOPEDIA
MEDICAL
DICTIONARY

F. A. DAVIS COMPANY



PHILADELPHIA

Copyright © 2009 by F. A. Davis Company

Copyright 1940, 1942, 1945, 1946, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1965, 1968, 1969, 1970, 1973, 1977, 1981, 1985, 1989, 1993, 1997, 2001, and 2005 by F. A. Davis.

All rights reserved. This publication is protected by copyright. No part of it may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without written permission from the publisher.

PRINTED IN THE UNITED STATES OF AMERICA

Last digit indicates print number 10 9 8 7 6 5 4 3 2 1

NOTE: As new scientific information becomes available through basic and clinical research, recommended treatments and drug therapies undergo changes. The author and publisher have done everything possible to make Taber's accurate, up to date, and in accord with accepted standards at the time of publication. The author, editors, and publisher are not responsible for errors or omissions or for consequences from application of the book, and make no warranty, expressed or implied, in regard to the contents of the book. Any practice described in this book should be applied by the reader in accordance with professional standards of care used in regard to the unique circumstances that may apply in each situation. The reader is advised always to check product information (package inserts) for changes and new information regarding dose and contraindications before administering any drug. Caution is especially urged when using new or infrequently ordered drugs.

Library of Congress Cataloging in Publication Data

Taber's cyclopedic medical dictionary. — Ed. 21, illustrated in full color / editor, Donald Venes

p. ; cm.

Includes bibliographical references and index.

ISBN 0-8036-1559-5 (index)—ISBN 0-8036-1560-1 (non index)—ISBN 0-8036-1561-8 (deluxe)

1. Medicine—Dictionaries. I. Title: Cyclopedic medical dictionary. II. Venes, Donald, 1952- III. Taber, Clarence Wilbur, 1870-1968

[DNLM: 1. Medicine—Dictionary—English. W 13 T113d 2001]

R121.T18 2001

610'.3—dc21

ISSN 1065-1357

00-064688

ISBN 0-8036-1560-4

ISBN 13: 978-0-8036-1560-1



ISBN 0-8036-1559-0 (indexed)







ISBN 13: 978-0-8036-1559-5

ISBN 0-8036-1561-2 (deluxe)

ISBN 13: 978-0-8036-1561-8

CONTENTS

INTRODUCTION TO EDITION 21	vii
CONSULTING EDITORS AND CONSULTANTS	ix
TABER'S FEATURE FINDER	x
FEATURES AND THEIR USE	xi
LIST OF ILLUSTRATIONS	xv
Illustration Sources	xxix
LIST OF TABLES	xxxi
ABBREVIATIONS USED IN TEXT	xxxiv
VOCABULARY	1
APPENDICES	2519
Table of Contents	2519
Index to Appendices	2521
Nutrition	2522
Complementary and Alternative Medicine	2540
Normal Reference Laboratory Values	2553
Prefixes, Suffixes, and Combining Forms	2570
Medical Abbreviations	2575
Symbols	2582
Units of Measurement (Including SI Units)	2583
The Interpreter in Three Languages	2589
Medical Emergencies	2604
Professional Designations and Titles in the Health Sciences	2632
Standard Precautions	2635
General Patient Care Concerns	2636
Recommended Immunization Schedules	2639
Alternative Therapies	
Anatomy	

Documentation System Definitions	
Health Care Resource Organizations	
Health Professions	
Latin and Greek Nomenclature	
Manual Alphabet	
Phobias	
Nursing Appendix	2645

INTRODUCTION TO EDITION 21

As this edition of *Taber's* publishes, a new President is in the Oval Office, and the politics of the new administration are very much on everyone's mind. How will its new policies affect the nation's fitness, day-to-day patient care, hospital operations, health professionals, and health education? What reforms are on the horizon? In this time of change, it's appropriate to ask, is your health, and the health of those you love, better today than it was four years ago?

I certainly hope it is.

And yet, that has not been the national trend. In the main, we are older, more *obese*, and more likely (whatever our age) to have *diabetes mellitus*, than ever before. Despite our attempts at *calorie restriction*, and despite our search for *bioactive food components*, like *antioxidants* (to which we ascribe nearly magical healing properties), some of us need *laparoscopic gastric banding*, *gastric stapling*, or other *bariatric surgeries* to lose weight, and most of us are ever in search of ways to increase our metabolic rate without sacrifice. If only we could discover how to get back in shape through *obligatory thermogenesis* by tweaking the *thermic effect* of the *foods* we eat.

Most of us both love food and are neurotically concerned about what we eat. Is that *koumiss* she is drinking certified organic? *Everything added to food in the United States* (EAFUS) concerns us. Are we consuming *risky foods*, or just too much *nutrient density*? Is it alright that ice cream has thickeners like *guar gum*? If we want to keep our *coronary artery calcification* scores low, should we be eating ice cream at all? Are irradiated foods, represented by the *radura*, the way to keep our nation's food supply safe, or are they toxic? How to *nutritionally preempt* disease may be complex rather than simple, and may depend on our individual genetic makeup—our *nutrigenomics*. *Tree nuts*, to name just one example, may be a good source of *ultra trace elements* for you, but a serious source of *food allergy* for your Aunt Maude.

This edition of *Taber's*—yes it is our largest ever—guides you through the thicket of nutrition, as well as many other fields of interest to you, and to policy makers in our nation's capitol: health screening, public health, health care administration, and advances in nursing practice and theory, to name just a few.

Our editorial staff, consulting editors, consultants, and correspondents have scoured the medical literature for new and updated information about previously unknown drugs, diseases, and approaches to patient care. We have expanded and updated our coverage of alternative, complementary, and integrative medicine; global threats to health; and innovative solutions to our health care needs.

In all we have added about 3500 new terms to this edition of *Taber's* and we have revised nearly 6000 others. We have added about 100 new

images and 25 new tables to the text. The accompanying *Taber'sPlus* DVD contains a variety of electronic ancillaries enumerated and described on page xi.

The compilation of each edition of *Taber's* is a labor of love shared by dozens of people working together, including our President, Robert H. Craven, Jr.; the *Taber's* Editorial Board; and the editorial staff (Arthur Biderman, Brigitte Fenton, Alison Enright, and Joseph Patwell). It has been an honor to share this work with them and with you.

There has never been a more exciting time, or a more crucial time, to be a student embarking on a career in the health professions or a health educator leading students toward professional excellence. The impact you have on the lives and the health of your fellow citizens will spread, in both subtle and overt ways, through the polity at large.

I applaud your efforts to begin your careers at this turning point in our nation's health; and hope you will find the 21st Edition of *Taber's* to be a trusty, comprehensive, and essential guide to what you need to know, no matter where you live (red state or blue).

Donald Venes, M.D.
Brookings, Oregon
January 2009

CONSULTING EDITORS AND CONSULTANTS

CONSULTING EDITORS

Joellen W. Hawkins, RN, WHNP-BC, PhD, FAAN (Nursing Editor)

Charles Christiansen, EdD, OTR, OT(C), FAOTA
Michael J. Katz, MD, PhD
Valerie C. Scanlon, PhD
Chad Starkey, PhD, ATC

CONSULTANTS

Tonia Dandry Aiken, RN, BSN, JD
Richard Branson, MS, RRT
Cindi Brassington, MS, CMA
Richard R. Carlton, MS, RT(R)(CV), FAERS
Neal R. Chamberlain, PhD
Christine A. Chung, MD
Marilynn E. Doenges, RN, BSN, MA, CS
Ellen Drake, BA, CMT, FAAMT
Robert Elling, MPA, REMT-P
Jacqueline Fawcett, PhD, FAAN
Rose S. Fife, MD
Brenda Holloway, CRNP, FNP, MSN
Carol Kelly, MS, RNC, NP
Judith E. Meissner, RN, BSN, MSN
Mary Frances Moorhouse, RN, CRRN, CLNC
Robert F. Moran, MS, PhD, FCCM, FAIC
Ginette A. Pepper, RN, PhD, FAAN
Helen Rasmussen, MS, RD, FADA
Betty J. Reynard, EdD, RDH
Victor S. Sierpina, MD
Mary Ann Wharton, PT, MS
Robert L. Wilkins, PhD, RRT
Linda Wortell, RN, PhD
Kathleen Young, MA, RN, C

(Material supplied by the consultants has been reviewed and edited by Donald Venes, MD, MSJ, editor, with whom final responsibility rests for the accuracy of the content.)

Taber's Feature Finder

ILLUSTRATION
CROSS
REFERENCE

abduction (ăb-dŭk'shŭn) **1.** Lateral movement of the limbs away from the median plane of the body, or lateral bending of the head or trunk. **SEE: illus. 2.** Movement of the digits away from the axial line of a limb. **3.** Outward rotation of the eyes.

MAIN ENTRY

Taber'sPlus
ILLUSTRATION



acanthosis Increased thickness of the prickle cell layer of the skin.

a. nigricans A skin disorder in which dark brown or gray velvety plaques appear on the skin, typically under the arms, in the groin or upper thighs, on the neck, or near the genitalia.

SUBENTRY

acetaminophen (ă-sĕt'ă-mĭn'ô-fĕn) A drug with antipyretic and analgesic effects similar to those of aspirin, but with limited anti-inflammatory or antirheumatic effects.



Acute overdose may cause fatal hepatic necrosis.

CAUTION/
SAFETY

ABBREVIATION

ACH *adrenocortical hormone.*

PRONUN-
CIATION

achloropsia (ă-klô-rŏp'sĕ-ă) [*"*+ *chloros*, green, + *opsis*, vision] Color blindness in which green cannot be distinguished. **SYN:** *deuteranopia.*

ETYMOLOGY

SYNONYM

BIOGRAPHICAL

INFORMATION

ENCYCLOPEDIA
ENTRY

Addison's disease [Thomas Addison, Brit. physician, 1793–1860] A rare illness marked by gradual and progressive failure of the adrenal glands and insufficient production of steroid hormones.

ETIOLOGY

ETIOLOGY: Adrenal failure typically results from autoimmune destruction of the adrenal glands, chronic infections, or cancers that metastasize to the adrenal glands from other organs.

SYMPTOMS

SYMPTOMS: The patient may be symptom-free until the majority of adrenal tissue is destroyed. Early complaints are usually nonspecific: a feeling of weakness or fatigue, lack of appetite, weight loss, nausea, vomiting, abdominal pain, and dizziness.

TREATMENT

TREATMENT: Chronic adrenal insufficiency is managed with corticosteroids, such as prednisone, usually taken twice a day. **SEE: adrenal crisis.**

VOCABULARY
CROSS
REFERENCE

PROGNOSIS

PROGNOSIS: If untreated, the disease will continue a chronic course with progressive but usually relatively slow deterioration; in some patients the deterioration may be rapid. Patients treated properly have an excellent prognosis.

PATIENT
CARE

PATIENT CARE: Patients with primary adrenal insufficiency who are suffering other acute conditions are assessed frequently for hypotension, tachycardia, fluid balance, and electrolyte and glucose levels. **SEE: Nursing Diagnoses Appendix.**

NURSING
DIAGNOSES
CROSS
REFERENCE

adenoma (ăd'ĕ-nô'mă) *pl. adenomata* [*"*+ *oma*, tumor] A benign tumor made of epithelial cells. **adenomatous** (-nô'mă-tŭs), *adj.*

PLURAL


ADJECTIVAL
FORM

Not an actual page.

FEATURES AND THEIR USE

This section describes the major features found in *Taber's* and provides information that may help you use the dictionary more efficiently. The Feature Finder on page x is a graphic representation of many of the features described below.

1. **Taber'sPlus DVD:** The *Taber'sPlus* DVD, packaged with every book, features a wealth of electronic and online resources for nursing, allied health, and medical students and professionals.

Explore through Sight & Sound enables readers to view over 1,000 images (300 unique to the DVD) with short definitions and listen to audio pronunciations. The *Taber'sPlus* DVD icon in *Taber's* indicates a corresponding image on the DVD. 

Taber's Audio provides pronunciations for 30,000 terms found in *Taber's*.

Brain Teasers are word-building activities that increase understanding of medical terminology.

Taber's World Tour is an interactive tutorial that showcases the cyclopedic features of the book.

Bonus Appendices include 12 valuable healthcare tools.

DavisPlus features animations, activities, resources, videos, and more on the Web (<http://davisplus.fadavis.com>).

Taber's Online powered by Unbound Medicine® offers FREE one-year access to all of the content in the print version online at www.tabers.com. Use the promotional code inside the front cover of *Taber's* to activate your subscription.

Taber's Mobile powered by Skyscape® offers FREE one-year access to all of the content in the print version from your mobile device (www.skyscape.com/tabers21). Use the serial number inside the front cover of *Taber's* to activate your subscription.

2. **Vocabulary:** The extensive vocabulary defined in *Taber's* has been updated to meet the ongoing needs of health care students, educators, and clinicians, as well as interested consumers. The medical editor, nursing editor, and the nursing and allied health consulting editors and consultants have researched and written new entries, revised existing entries, and deleted obsolete ones, reflecting the many changes in health care technology, clinical practice, and patient care. American, rather than British, spellings are preferred.
3. **Entry format:** *Taber's* combines two systems for the placement and organization of entries: (a) main entries in strict alphabetical order; and (b) a main entry–subentry format. All single-word terms (e.g., **cell**) are main entries, as are some compound, or multiple word, terms (e.g., **Alzheimer's disease; acid-reflux disorder; nucleic acid test**). However, many compound terms, especially those in

anatomy and physiology, are treated as subentries and are placed using the main entry–subentry format (e.g., arteries, veins, ligaments, and types of respiration). Entries having a considerable number of subentries are tinted in a yellow background for ease in finding them. This melding of two systems combines the best features of both: compound terms that share an important common element or classification, e.g., arteries, are subentries under the main entry (or headword). Terms that tend to be sought under the first word, e.g., diseases, disorders, tests, and syndromes, appear as main entries under the first word. Also names of individuals and organizations are listed as main entries. An especially important compound term may be listed as both a main entry and a subentry, with one of the terms serving as a cross-reference to the other. All main entries are printed in **bold type**; subentries are indented under the main entry and are printed in **bold italic type**. All entries are listed and defined in the singular whenever possible.


4. **Alphabetization:**

Main entries are alphabetized letter by letter, regardless of spaces or hyphens that occur between the words; a comma marks the end of a main entry for alphabetical purposes (e.g., **skin, tenting of** precedes **skin cancer**). In eponyms the 's is ignored in alphabetizing (e.g., **Bartholin's gland** precedes **bartholinitis**).


Subentries are listed in straight-ahead order following the same letter-by-letter alphabetization used for main entries; a comma marks the end of a subentry for alphabetical purposes. The headword is often abbreviated in subentries (such as **preterm l.** under **labor** or **pulmonary i.** under **infarction**).

5. **Eponyms:** Included as main entries are the names of individuals who were the first to discover, describe, or popularize a concept, a microorganism, a disease, a syndrome, or an anatomical structure. A brief biography appears in brackets after the pronunciation. Biographical information includes the person's professional designation, the country in which the person was born or worked, and the date of birth and death if known.
6. **Definitions:** The text that occurs before the first period in an entry constitutes the definition for that entry. Many entries are written in encyclopedic style, offering a comprehensive understanding of the disease, condition, or concept defined. See "Encyclopedic entries" for further information.
7. **Pronunciations:** Most main entries are spelled phonetically. Phonetic pronunciations, which appear in parentheses after the boldface main entry, are given as simply as possible with most long and short vowels marked diacritically and accents indicated. *Diacritics* are marks over or under vowels. Only two diacritics are used in *Taber's*: the macron $\bar{\hspace{0.2em}}$ showing the long sound of vowels, as the *a* in rate, *e* in rebirth, *i* in isle, *o* in over, and *u* in unite; and the breve $\check{\hspace{0.2em}}$ showing the short sound of vowels, as the *a* in apple, *e* in ever, *i* in it, *o* in not, and *u* in cut. *Accents* are marks used to indicate stress upon certain syllables. A single accent ' is called a primary accent. A double accent " is called a secondary accent; it indicates less stress upon a syllable than that given by a primary accent. This difference in stress can be seen in the word *an'es-the'si-a*. Syllables are separated by either an


accent mark or a hyphen. An unstressed vowel sounds like the final *a* in *anesthesia*, a sound known as *schwa*.



8. **Singular/Plural forms:** When the spelling of an entry's singular or plural form is a nonstandard formation (e.g., **villus** *pl.* **villi**, or **viscera** *sing.* **viscus**), the spelling of the singular or plural form appears in boldface after the pronunciation for the main entry. Nonstandard singular and plural forms appear as entries themselves at their normal alphabetical positions.
9. **Etymologies:** An etymology indicates the origin and historical development of a term. For most health care terms the origin is Latin or Greek. An etymology is given for most main entries and appears in brackets following the pronunciation.
10. **Abbreviations:** Standard abbreviations for entries are included with the definition, and many are also listed alphabetically as separate entries throughout the text. Additional abbreviations used for charting and prescription writing are listed in the Appendices. A list of nonmedical abbreviations used in text appears on page xxxiv.
11. **Encyclopedic entries:** Detailed, comprehensive information is included with entries that require additional coverage because of their importance or complexity. Often this information is organized into several sections, each with its own subheading. The most frequently used subheadings are Patient Care, Symptoms, Etiology, Treatment, and Diagnosis.
12. **Patient Care:** This edition of *Taber's* has substantially increased the number and length of its Patient Care sections, which have proven invaluable to health care professionals by providing patient teaching and wellness information. There are now more than 650 Patient Care sections in *Taber's*; approximately 85 percent of the existing Patient Care sections in *Taber's* have been extensively revised, expanded, and updated; nearly 100 new Patient Care sections have been added, reflecting the latest standard procedures in general and specialized health care.
13. **Illustrations:** This edition of *Taber's* includes 790 illustrations in the print, 90 of which are new to this edition. In addition, there are over 300 additional, ancillary illustrations in the electronic versions of this edition. The existence of each of these ancillary illustrations in *Taber'sPlus* is indicated by placement of the icon () next to the entry with which the illustration is associated. More than three fourths of the images are four-color photographs and line drawings. The images were carefully chosen to complement the text of the entries with which they are associated. Each illustration is cross-referenced from its associated entry. A complete list of illustrations begins on page xv.
14. **Tables:** This edition contains 130 color-screened tables located appropriately throughout the Vocabulary section. A complete list of tables begins on page xxxi.
15. **Adjectives:** The adjectival forms of many noun main entries appear at the end of the definition of the noun form or, if the entry is long, at the end of the first paragraph. Pronunciations for most of the ad-

jectival forms are included. Many common adjectives appear as main entries themselves.

16.  **Caution/Safety statements:** This notation is used to draw particular attention to information that may affect the health and/or safety of patients or the professionals who treat them. The information is of more than routine interest and should be considered when delivering health care. These statements are further emphasized by colored rules above and below the text.
17. **Synonyms:** Synonyms are listed at the end of the entry or, in encyclopedic entries, at the end of the first paragraph. The abbreviation SYN: precedes the synonymous term(s). Terms listed as synonyms have their own entries in the Vocabulary, which generally carry a cross-reference to the entry at which the definition appears.
18. **Cross-references:** Illustrations, tables, appendices, or other relevant vocabulary entries may be given as cross-references. These are indicated by SEE: or SEE: under followed by the name(s) of the appropriate element(s) in italics. Cross-references to the Nursing Diagnoses Appendix are highlighted in color at the end of the entry as SEE: *Nursing Diagnoses Appendix*. Entries at which an illustration appears carry the color-highlighted SEE: *illus*.
19. **Appendices:** The Appendices contain detailed information that can be organized or presented more easily in one section rather than interspersed throughout the Vocabulary. This edition features the new appendix General Patient Care Concerns. Among the revised appendices are Anatomy; Complementary and Alternative Medicine; Conceptual Models and Theories of Nursing; Medical Abbreviations; Medical Emergencies; Normal Reference and Laboratory Values; Nursing Diagnoses; Nursing Interventions Classification System; Nutrition; Prefixes, Suffixes, and Combining Forms; and Standard Precautions. For a complete listing of all the Appendices, see Contents on pages v–vi. For a complete listing of all the Nursing Appendices, see page 2645.
20. **Nursing Diagnoses Appendix:** This appendix has been updated through the 2007–2008 Conference of NANDA (North American Nursing Diagnosis Association). It is divided into several sections, including two lists of NANDA’s nursing diagnoses organized into Doenges and Moorhouse’s Diagnostic Divisions and Gordon’s Functional Health Patterns; an at-a-glance look at the most recent diagnoses approved by NANDA; nursing diagnoses commonly associated with almost 300 diseases/disorders (cross-referenced from the body of the dictionary); and a complete description of all NANDA-approved diagnoses through the 2007–2008 conference in alphabetical order. Included are the diagnostic division, definition, related factors, and defining characteristics for each nursing diagnosis. See the *Quick View of Contents* on page 2700 for further explanation.


















LIST OF ILLUSTRATIONS




Illustrations are listed according to the main entry or subentry that they accompany. Information in parentheses indicates the source of the illustration; a list of sources appears at the end of this list. The following ancillary (bonus) illustrations (not in Print) are listed with  and can be found on the enclosed Taber's*Plus* DVD.

- ABCs of melanoma, 2
Abdominal quadrants
(Wilkinson), 3
Abdominal regions (Scanlon), 4
Abduction and adduction of limbs, 5
Abruptio placentae, 8
Intra-abdominal abscess (Harvey
Hatch, M.D.), 9
Acute abscess, 9
Abscissa (horizontal axis), 13
Acanthocytes * (Harmening), 17
Acanthosis nigricans, 
Visual accommodation, 20
Acetabulum of right hip bone
(female) (Scanlon), 21
Ribonucleic acid (Scanlon), 28
Cystic acne (Goldsmith), 32
Acne papulosa (Reeves), 32
Acupuncture points [2], 
Acute respiratory distress
syndrome, 
Adenovirus (Sacher), 49
Nasopharyngeal/oropharyngeal
airway, 69
Swelling of lips caused by allergy
(Venes), 82
Alopecia areata of scalp
(Goldsmith), 85
Alopecia, 
Alopecia capitis totalis (Reeves), 85
Alternaria in culture (Kern), 86
Alveolus of lungs, 88
Pulmonary alveolus, 
Examples of amino acids, 96
Amniocentesis, 100
Traumatic amputation (Venes), 104
Aplastic anemia (Harmening), 116
Sickle cell anemia (Scanlon), 119
Epidural anesthesia, 122
Injection of spinal anesthesia
(Williams), 124
Aortic aneurysms, 126
Angina pectoris, 127
Coronary angiography (Venes), 130
Angioma, 
Arterial balloon angioplasty, 132
Intracoronary balloon angioplasty, 
Anterior drawer test [2], 
Anthrax (Goldsmith), 142
Antibody (Scanlon), 145
Anticoagulation, 146
Branches of aorta, 158
Aorta, 
Reflex arc for patellar tendon
reflex, 171
Longitudinal arch, 
Nomogram for the assessment of
body surface area (Ciba-
Geigy), 174
Muscles of the arm (Scanlon), 177
Bones of the arm and shoulder
girdle (Scanlon), 178
Ventricular arrhythmia
(Brown), 179
Systemic arteries (Scanlon), 183
Structure of an artery
(Scanlon), 184
Brachial artery, 185
Coronary arteries, 186
Rheumatoid arthritis, 189
Rheumatoid arthritis [2], 
Basal joint arthritis, 

Arthrocentesis, 191
 Arthroscopy of knee, 193
Ascaris lumbricoides
 (Leventhal), 195
 Cleistothecium, ascus, and
 ascospore, 🍄
 Aspergillus of lung (Kern), 197
 Aspergillus niger in culture, 198
 Atherosclerosis, 🍄
 Audiogram, 214
 Auer body (Sacher), 215
 Autonomic nervous system
 (Scanlon), 221
 Surface anatomy of the axilla
 (Williams), 225
 Axonotmesis, 🍄
 Bacillus (Bartelt), 228
 How to stay on your feet without
 tiring your back, 229
 Bacteria (shapes and structures)
 (Sacher), 231
 Bacteria (Scanlon), 232
 Bacterium, 🍄
 Bag mask device, 234
Balantidium coli (Leventhal), 235
 Male pattern baldness
 (Goldsmith), 235
 Types of bandages, 238
 Types of bandages, 239
 Triangular bandages, 241
 Triangular bandages, 242
 Basal ganglia, 🍄
 Biconcave lens/biconvex lens, 259
 Bile ducts, 261
 Bilirubin crystals (Strasinger), 262
 Fine needle breast biopsy
 (Williams), 266
 Punch biopsy (Goldsmith), 266
 Biotin, 🍄
 Titrating oxygen with bipap, 🍄
 Insect bites, 🍄
 Urinary bladder (Scanlon), 274
Blastomyces dermatitidis in culture
 (Kern), 277
 Blepharconjunctivitis, 🍄
 Blood composition (Scanlon), 283
 Types of blood cells (Harmening),
 (Sacher), 284
 ABO blood types (Scanlon), 287
 Systemic blood pressure
 (Scanlon), 288
 Blood transfusion (Scanlon), 291
 Bone tissue (Scanlon), 295
 Bony structures of the thorax,
 abdomen, and pelvis, 296
 Hyoid bone, 297
 Bouchard's nodes, 🍄
 Boutonniere deformity, 302
 Brain (Scanlon), 305
 Vascular anatomy of brain (ventral,
 lateral, and medial views), 306
 Brainstem (Manter and Gatz), 307
 Breast (Scanlon), 309
 Breast self-examination, 310
 Tanner sexual maturity stages-
 female breast, 🍄
 Breast cancer (AFIP), 311
 Breast cancer, 312
 Trachea and bronchi, 323
 Buffy coat (Sacher), 326
 Bullae of impetigo (Goldsmith), 328
 Burns (Scanlon), 330
 Blistered partial thickness thermal
 burn (Williams), 331
 Coronary artery bypass, 334
 Cabot's ring (Harmening), 335
 Calcitonin (Scanlon), 338
 Calcium oxalate crystals in urine
 (Strasinger), 339
 Anal canal, 343
 Cancer (Strasinger), 347
 Lung cancer (Kintz), 352
Candida (Sacher), 354
Candida albicans (Harmening), 354
Candida albicans, 🍄
 Candidiasis (Goldsmith), 355
 Needleless cannulae used to connect
 an additive to primary
 intravenous infusions
 (Wilkinson), 356
 Nasal cannula for oxygen delivery, 🍄
 Liposuction cannulas, 🍄
 Basal cell carcinoma
 (Goldsmith), 365
 Squamous cell carcinoma
 (Goldsmith), 366
 Squamous cell carcinoma, 🍄
 Cardiomyopathies (Williams), 369
 Dental caries, 374
 Carina of the trachea (Owens), 375
 Cock up splint for carpal tunnel
 syndrome, 🍄

- Phalen's test for carpal tunnel syndrome, 🌐
- The carpo-meta-carpal (cmc) joints of the thumb and fingers, 🌐
- Casts, 380
- Urinary casts (Strasinger), 380–382
(Epithelial cast/fatty cast/hyaline cast/red blood cell cast/waxy cast/white blood cell cast)
- Cataract, 383
- Types of catheters, 385
- Central venous catheter (subclavian), 385
- Catheterization of urinary bladder, 389
- Urinary catheter, 389
- Cavities of the body (Scanlon), 392
- Generalized human cell and organelles (Scanlon), 395
- Burr cells (Sacher), 397
- Clue cell (Sacher), 397
- L.E. Cell (center) (Strasinger), 398
- Sickled cells in sickle cell disease (Williams), 400
- Target cells (Sacher), 401
- Cellulitis (Kozol), 402
- Cellulitis, 🌐
- Centrifuged blood sample, 🌐
- Cerebellum (Gilman), 409
- Cerebrum (left hemisphere) (Scanlon), 412
- Typical chancre of primary syphilis (Reeves), 412
- Chancroid (Goldsmith), 417
- Basal body temperature chart, 420
- Cheilitis, 🌐
- Cheilosis, 🌐
- Graph of respiratory movements in cheyne-stokes breathing, 429
- Chilomastix mesnili* (Leventhal), 430
- Chloasma gravidarum (Reeves), 432
- Laparoscopic cholecystectomy scars (Venes), 435
- Cholesterol crystals, polarized (Strasinger), 439
- Action of cilia, 453
- Circulation of blood through heart and major vessels, 456
- Fetal circulation (Scanlon), 457
- Hepatic portal circulation (Scanlon), 458
- Portal circulation of hypothalamus-pituitary (Scanlon), 459
- Fetal circulation, 🌐
- Circumcision, 🌐
- Cladosporium* in culture (Kern), 462
- Clonorchis sinensis* (Leventhal), 469
- Clubbing, 471
- Cmax, 472
- Coagulation cascade (Harmening), 474
- Coal worker's pneumoconiosis, 🌐
- Coccidioides immitis spherules* (Kern), 475
- Cochlea, 478
- Colles' fracture, 🌐
- Collimator below x-ray tube (Wallace), 486
- Colon and rectum, 488
- Colon (Venes), 489
- Test for color blindness (Scanlon), 489
- Colostomy sites, 490
- Spinal column, 493
- Comedones (Goldsmith), 496
- Female condom (Hawkins), 506
- Condyloma (perianal warts) (Kozol), 507
- Acute allergic conjunctivitis, 🌐
- Contracture of the right hand (Venes), 519
- Myocardial revascularization: coronary artery bypass graft surgery, 🌐
- Normal and diseased coronary arteries, 528
- Organ of corti (Scanlon), 533
- Cranio-metric points, 541
- Creatine kinase, 🌐
- Crossmatching, 🌐
- Crown-rump (Donald Venes, M.D.), 549
- Crusts, 🌐
- Cryostretch techniques, 🌐
- Cryptococcus neoformans* (Strasinger), 552
- Cryptosporidium* (Sacher), 553
- Cubital tunnel, 🌐
- Cumulative dose-response curve, 🌐
- Cardiac cycle (Scanlon), 563

- Cyst, 565
 Follicular cyst (Venes), 566
 Flow cytometry (Harmening), 574
 Darier's sign (Goldsmith), 578
 Debridement, 
 Defibrillator, 
 Dendrites, 601
 Densitometer (Wallace), 602
 Dentition, 607
 Depolarization (Scanlon), 609
 Atopic dermatitis (Goldsmith), 614
 Contact dermatitis (Goldsmith), 615
 Stasis dermatitis (Goldsmith), 617
 Dermatitis, 
 Dermatofibroma (Goldsmith), 617
 Dermatofibroma, 
 Dermatome, 618
 Dermatomyositis (Goldsmith), 619
 Dermatomyositis, 
 Dermographism (Goldsmith), 620
 Abductor pillow use following hip replacement surgery (Williams), 625
 Intrauterine contraceptive devices (Hawkins), 626
 Typical access devices (Wilkinson), 627
 Well-controlled diabetes mellitus (Venes), 632
 Contraceptive diaphragm, 639
 Movement of rib cage and diaphragm during respiration, 640
 Diascopy (Goldsmith), 642
 Diffusion, 651
 The digestive system (Goldsmith), 653
 Esophageal dilators, 
Diphyllobothrium latum (Leventhal), 658
 Posterior ankle dislocation, 
 Disseminated intravascular coagulation (Harmening), 673
 Diverticulosis, seen endoscopically (Venes), 677
 Multiple diverticula of the colon, 678
 Döhle bodies (Sacher), 679
 Uniform donor card, 681
 Minimal erythemal dosage (med), 
- Dracunculus medinensis* (Leventhal), 687
 Drape, 
 Occlusive dressing, 
 Universal dressing, 690
 Drownproofing technique, 692
 Duodenal mucosa (with 2 parasites on the surface) (Leventhal), 700
 Dupuytren's contracture (Kozol), 701
 Structure of the ear (Scanlon), 715
 Ecchymosis of the leg (Harmening), 717
Echinacea purpurea (Leonard Perry, Ph.D.), 717
Echinococcus granulosus (Leventhal), 718
 Transesophageal echocardiography, 718
 Nummular eczema (Goldsmith), 723
 Edema (Venes), 724
 Pitting edema (Kloth), 725
 Pulmonary edema, 
 Pulmonary edema, 
 Pericardial effusion, 728
 Elbow joint, 731
 Elbow joint anatomy, 
 QrST complex of electrocardiogram/ecg leads, 734
 Normal and abnormal electroencephalogram wave patterns (Merck), 738
 Electrolyte concentrations in body fluids (Scanlon), 739
 Electrophoresis, 
 Embolism, 744
 Pulmonary embolism (Kozol), 746
 Stages of development of human embryo including mature fetus, 748
 Embryonic development (Scanlon), 749
 Embryoscopy, 750
 Emmetropia, myopia, hyperopia, 754
 Empyema, 
 Osler's nodes (Williams), 765
 Possible sites of occurrence of endometriosis, 768
 The iceberg of endometriosis, 
 Endospore, 

- Cuffed endotracheal tube, 773
- Barium enema (Harvey Hatch, M.D.), 774
- Barium study, 
- Entamoeba histolytica* (Leventhal), 777
- Enterobius vermicularis* (Leventhal), 779
- Enzyme immunoassay, 
- Epididymis, 789
- Epiglottis, 790
- Epithelial tissues (Scanlon), 797
- The erector spinae group, 
- Drug eruption (Venes), 802
- Erysipelas (Goldsmith), 803
- Erythema multiforme (Goldsmith), 804
- Erythema [2], 
- Normal erythrocytes, unstained (Strasinger), 805
- Erythrocyte development † (Harmening), 805
- Eschar (Kloth), 808
- Esophagus, 812
- Foreign body in esophagus, 812
- Pelvic exam with pap smear (Williams), 820
- Isometric exercise (Kisner), 824
- Range-of-motion exercises, 825
- External fixation of fractures of the tibia and fibula, 832
- Extraocular eye muscles (Scanlon), 833
- Extraocular eye muscles, 834
- Anatomy of the eye (Scanlon), 836
- Technique for examination of conjunctiva, 837
- Muscles of face and scalp, 840
- Fasciola hepatica (Leventhal), 850
- Fasciolopsis buski* (Leventhal), 850
- Right femur, 857
- Ovulation, fertilization, and early embryonic development (Scanlon), 859
- Ventricular fibrillation (Williams), 866
- Hammer finger, 
- Fingerprints, 873
- Flatfoot (pes planus) (Starkey), 878
- Flea (Scanlon), 879
- Flexion (Kisner), 880
- Cerebrospinal fluid (formation, circulation, and reabsorption) (Scanlon), 883
- Cerebrospinal fluid (specimens) (Strasinger), 884
- Pleural fluid (Strasinger), 884
- Folliculitis, 
- Fontanels of infant skull (Scanlon), 891
- Bones of foot and ankle (Scanlon), 893
- Athlete's foot (Reeves), 893
- Foot, 
- Alligator forceps, 
- Allis forceps, 
- Artery forceps, 
- Horsley bone cutting forceps, 
- Dental forceps for molar extraction, 
- Dressing forceps, 
- Magill forceps, 
- Nasal intubation using Magill forceps, 
- Rongeur forceps, 
- Leksell rongeur, 
- Stille-Horsley rongeur, 
- Cushing pituitary rongeur, 
- Transsphenoidal Kerrison rongeur, 
- Bane rongeur, 
- Gerald tissue forceps, 
- Olecranon fossa, 
- High Fowler's position (Williams), 900
- Patient in high Fowler's position with oxygen, 
- Types of fractures and terminology, 902
- Traction applied to a fracture of the lower extremity (Wilkinson), 903
- March fracture, 
- Frostbite (Kozol), 909
- Fungi (Scanlon), 914
- Gallstones (seen endoscopically) (Leo Eickhoff, M.D.), 921
- Gallstones (plain film), 921
- Ischemic foot (Venes), 925
- Gaucher's cell in bone marrow (Harmening), 935
- Inheritance of eye color (Scanlon), 938

Female genital organs
(Scanlon), 942

Male genital organs (Scanlon), 942

Genogram, 🌐

Genu recurvatum (Starkey), 943

Genu recurvatum, 🌐

Giardia duodenalis
(Leventhal), 948

Adrenal glands, 951

Endocrine system, 953

Eccrine and apocrine sweat
glands, 956

Glaucoma, 958

Glottis and vocal cords
(Scanlon), 964

Maintenance of blood glucose levels
(Williams), 966

Massive goiter (Williams), 972

Goniometer (Starkey), 974

Goniometer, 🌐

Gout (Strasinger), 976

Acute gout (Venes), 976

Gowers' sign, 🌐

Gram stain (Sacher), 980

Granulocytopoiesis †
(Harmening), 983

Granuloma, 🌐

Granuloma annulare (Venes), 984

Procedure for reverse grouping.
Principle: detection of antibodies
in the patient's serum with
known commercial antisera, 🌐

Growth chart girls, 990

Growth chart boys, 991

Cerebral gyri, 996

Hair and adjacent structures of
cross-section of skin, 1000

Hallux valgus conditions, 🌐

Hammertoe, 🌐

Ham test, 🌐

Bones of the right hand and
wrist, 1004

Hand-foot-and-mouth disease, 🌐

Haustration, seen endoscopically
(Venes), 1008

Muscles of the head and neck
(Scanlon), 1010

Arteries and veins of the head
(Scanlon), 1011

Wound healing, 1014

The heart (Scanlon), 1019

Projection of heart, great vessels,
and valves on chest wall, 1020

Conduction system of the heart
(Scanlon), 1022

Complete heart block (Brown), 1023

Heart-lung machine, 1026

Depth of penetration and duration
of superficial heating, 🌐

Heimlich maneuver, 1031

Helmet cell (arrow)
(Harmening), 1032

Representative helminths
(Scanlon), 1032

Hemangiomas in a neonate
(Morton), 1034

Cavernous hemangioma
(Venes), 1034

Hemangioma, 🌐

Hemochromatosis (Harmening), 1042

Hemocytoblast (stem cell) and blood
cells (Scanlon), 1043

Hemoglobin C disease
(Harmening), 1046

Subconjunctival hemorrhage
(Starkey), 1054

Hemorrhoids, 1055

Prolapsed hemorrhoids
(Kozol), 1056

Henoch-Schoenlein purpura
(Harmening), 1057

Hiatal hernia, 1065

Inguinal hernia [2], 🌐

Normal and herniated spinal disks
(Scanlon), 1067

Genital herpes (Goldsmith), 1069

Herpes, 🌐

Herpes labialis (Reeves), 1070

Herpes simplex (Goldsmith), 1070

Herpes zoster (Goldsmith), 1071

Herpes zoster ophthalmicus
(Reeves), 1072

Hidradenitis, 🌐

Fracture of the hip, 🌐

Total hip replacement
(McKinnis), 1079

Histoplasma capsulatum in culture
(Kern), 1083

Holter monitor, 🌐

Homans' sign, 🌐

Adult hookworm (Leventhal), 1091




















Effect of HIV on immune system
(Williams), 1097

Right humerus, 1098
 Fracture of humerus, 🌍
 Hydatid cyst (Leventhal), 1101
 Hydronephrosis, 1106
 Hydronephrosis, 🌍
 Hydrotherapy, 🌍
Hymenolepis nana
 (Leventhal), 1110
 Hyperplasia of a dermal mole
 (Reeves), 1120
 Malignant hypertension, 🌍
 Portal hypertension, 🌍
 Hysterectomy, 1143
 Application of ice massage, 🌍
 Ileostomy, 🌍
 Knee immobilization (Colyar), 1154
 Immune response, 🌍
 Cell-mediated immunity
 (Scanlon), 1158
 Humoral immunity (Scanlon), 1159
 Immunofluorescent staining of
 parasitic spores
 (Leventhal), 1161
 Generalized structure for an
 immunoglobulin molecule, 🌍
 Impetigo contagiosa in axilla
 (Reeves), 1166
 Bullous impetigo (Reeves), 1167
 Impetigo, 🌍
 Endosseous dental implant, 1168
 Body mass index (Shape Up
 America), 1178
 Therapeutic index [2], 🌍
 Inflammation (Homero Sepulveda,
 Ph.D.), 1188
 Intravenous infusion
 technique, 1193
 Intraosseous infusion, 🌍
 Infusion pump (Williams), 1194
 Inguinal canal/ spermatic cord
 contents, 1195
 Metered-dose inhaler
 (Wilkinson), 1196
 Instructions for use of a metered
 dose inhaler, 🌍
 Intramuscular injection
 (Venes), 1199
 Instability, 🌍
 Complementary functions of insulin
 and glucagon (Scanlon), 1209
 Insulin pump (Williams), 1210
 International symbol of
 access, 1217
 Intertrigo (Venes), 1219
 Large intestine, 1221
 Small intestine (Homero Sepulveda,
 Ph.D.), 1222
 Intravenous fluorescein angiogram
 (Christine Chung, M.D.), 1226
 Irrigation of the ear canal
 (Colyar), 1234
Ixodes tick (Scanlon), 1243
 Jaw, 1246
 Jogger's foot pain, 🌍
 Synovial joint (Scanlon), 1250
 Acromioclavicular joint, 🌍
 Myoneural junction (Scanlon), 1254
 Squamocolumnar junction
 (Venes), 1254
 Kaposi's sarcoma, 1256
 Karyotype of pairs of human
 chromosomes of male and
 female, 1258
 Keloids (Kozol), 1260
 Keratoacanthoma, 1262
 Keratosis, 🌍
 Seborrhic keratoses on back
 (Venes), 1264
 Seborrhic keratosis, 🌍
 Kerion (Goldsmith), 1265
 Kidney (Scanlon), 1266
 Nephron and blood vessels
 (Scanlon), 1267
 Formation of urine (Scanlon), 1268
 Kidney tubules (Donald Venes,
 M.D.), 1269
 Anatomy of the supporting
 structures of the knee, 1272
 Knots, 1274
 Koilonychia (Harmening), 1275
 Krebs cycle, 1277
 Sequence of labor and
 childbirth, 1280
 Labyrinths of inner ear
 (Scanlon), 1286
 Lacrimal apparatus (Scanlon), 1287
 Slit lamp examination, 1293
 Landsteiner's study of the
 specificity of haptens, 🌍
 Langerhans' islands, 🌍
 Langer's lines, 1295
 Laparoscopy, 1296



















- Laryngectomy, 🌐
 Larynx (Scanlon), 1301
 Muscles of the leg (Scanlon), 1313
 Bones of the leg and foot (Scanlon), 1314
 Mucocutaneous leishmaniasis (Leventhal), 1316
 Lentigo of sun-exposed skin (Goldsmith), 1318
 Leopold's maneuvers^z (Mosby), 1319
 Acute lymphocytic leukemia (Harmening), 1324
 Chronic lymphocytic leukemia (Harmening), (Sacher), 1325
 Lymphocytes in hairy cell leukemia ^s (Harmening), 1326
 Oral hairy leukoplakia (Kozol), 1329
 Lewy body (AFIP), 1330
 Lichen planus (Goldsmith), 1330
 Lichen planus, 🌐
 Lichen simplex chronicus (Goldsmith), 1333
 Transverse carpal ligaments, 🌐
 Carpal ligaments, 🌐
 Collateral ligament, 🌐
 Deltoid ligaments (Starkey), 1337
 Transverse ligament, 🌐
 Wrist ligaments, 🌐
 The limbic system of the brain, 1343
 Central lines, 🌐
 Lipoma [3], 🌐
 Extracorporeal shock wave lithotripsy (Williams), 1354
 Liver and gallbladder (Scanlon), 1356
Loa loa in blood (Leventhal), 1358
 Louse, 1363
 Lumbar puncture, 1364
 Lumbar puncture, 1365
 Lungs (Scanlon), 1367
 Systemic lupus erythematosus (Williams), 1371
 Systemic lupus erythematosus, 🌐
 Lyme disease (Stevens), 1373
 Lymph node (Scanlon), 1375
 Cervical lymphadenopathy (Venes), 1376
 Lymphatic capillaries (Scanlon), 1377
 Lymphatic system (Scanlon), 1378
 Normal lymphocytes (Sacher), 1380
 Lymphoma, 🌐
 Non-hodgkin's lymphoma (Strasinger), 1382
 Sites of lymphoreticular tissue, 🌐
 Maceration, 🌐
 Macrophage (Strasinger), 1387
 Magnetic resonance imaging (Mazziotta), 1391
 Malaria-causing organisms (Leventhal), 1394
 Mammogram (Williams), 1399
 Mammography showing breast cancer (Kozol), 1400
 Breast compression during mammography (Williams), 🌐
 Mandible, 🌐
 Mandible—left lateral view, 1401
 Normal red bone marrow (Sacher), 1405
 Oxygen masks, 🌐
 Mast cells in bone marrow (Harmening), 1408
 Mcburney's point, 🌐
 Medic alert symbol, 1420
 Medicine wheel, 1426
 Megakaryocyte (Harmening), 1428
 Megaloblasts (Hillman), 1429
 Meiosis, 1430
 Melanoma (Goldsmith), 1431
 Alveolocapillary membrane (Scanlon), 1434
 Cell membrane (Scanlon), 1435
 Meninges (Scanlon), 1438
 Structure of the meninges, 🌐
 Meninges, 🌐
 Meningitis (Sacher), 1439
 Meningococemia (Don Venes, M.D.), 1442
 Menstrual cycle (Scanlon), 1445
 Qi meridians (Williams), 1448
 Metabolism, 🌐
 Arches of the hand, 🌐
 Metastases (Harvey Hatch, M.D.), 1455
 Metatarsus varus, 1456
 Miliaria (Goldsmith), 1469

Mitosis, 1477
 Mitral valve, 🌐
 Moles (Goldsmith), 1482
 Molluscum contagiosum (Goldsmith), 1483
 Peak flow monitoring (Williams), 1484
 Monocytes (Harmening), 1487
 Mononucleosis (Sacher), 1488
 Montgomery straps, 1491
 Moro reflex, 🌐
 Morton's toe (Starkey), 1495
 Mouth, tongue, and pharynx, 1498
 Murphy's sign, 🌐
 Muscles of the trunk (Scanlon), 1510
 Muscle tissues (Scanlon), 1511
 Skeletal muscle (Scanlon), 1512
 Morphological forms of muscle, 1513
 Serratus anterior muscle, 🌐
Mycobacterium tuberculosis (Sacher), 1521
 Systemic mycosis (Kern), 1522
 Schematic drawing of the myelomeningocele deformity, 🌐
 Myelofibrosis (Hillman), 1524
 Myelogram of the lumbar spine, 🌐
 Lumbar myelogram, 🌐
 Myelogram showing evidence of constriction of the thecal sac at L4-L5, 🌐
 Multiple myeloma (Sacher), 1524
 Myelomeningocele, 🌐
 Myocardial infarction, 1527
 Pretibial myxedema, 🌐
 Myxedema, 🌐
 Nail (Scanlon), 1537
 Two views of nasal cavity, 1541
 Nasogastric tube, 1542
 Nebulizer (Colyar), 1547
Necator (Leventhal), 1547
 Lateral aspect of the neck, 1548
 Necrosis, 1549
 Necrotic skin and subcutaneous tissue, 🌐
 Types of set needles (Williams), 1550
Neisseria gonorrhoeae (Sacher), 1551
 Acoustic nerve (8th cranial), 1558
 Cranial nerves and their distributions (Scanlon), 1559
 Superficial branches of facial nerve (7th cranial), 1560
 Glossopharyngeal nerve, 1560
 Right olfactory nerve, 1561
 Spinal nerves, 1563
 Vagus nerve (10th cranial), 1564
 Occipital neuralgia, 🌐
 Neurodermatitis on neck (Reeves), 1570
 Neurofibromatosis, 1571
 Acoustic neuroma (Kozol), 1572
 Neuron structure (Scanlon), 1574
 Neuropathic foot (Venes), 1578
 Neutrophils (Strasinger), 1582
 Junction nevi (Goldsmith), 1582
 Spider nevus (Reeves), 1583
Nocardia asteroides in culture (Kern), 1590
 Nocardiosis (Kern), 1590
 Chemical initiation of nociception, 🌐
 Neurologic pathways of nociception, 🌐
 Subcutaneous nodules (Venes), 1592
 Technique for control of hemorrhage from posterior nasal cavity, 1598
 Semilunar notch, 🌐
 Nucleic acid (Scanlon), 1602
 Nystagmus, 🌐
 Obesity [2], 🌐
 Relationship of greater omentum to abdominal organs, 1628
Onchocerca volvulus (Leventhal), 1630
 Onchocerciasis (Leventhal), 1630
 Onychomycosis (Goldsmith), 1631
 Oogenesis (Scanlon), 1633
 Opisthotonos, 1638
 Orthosis, 🌐
 Orthotonos, 1648
 Osmosis, 1651
 Endochondral ossification (Scanlon), 1652
 Osteoarthritis of the knee, 1653
 Osteoarthritis, 🌐
 Osteoclast (Harmening), 1655
 Osteoporosis, 1659

Ostomy appliance
 (Wilkinson), 1662
 Otolith, 🌐
 Outrigger, 🌐
 Human ovum, 1669
 Pulse oximeter, 🌐
 Transtracheal oxygenation, 🌐
 Oxygen delivery system, 🌐
 Oxygen pickup and delivery, 🌐
 Oxygen radical, 🌐
 Transtracheal oxygen
 therapy, 1673
 Oxyhemoglobin dissociation
 curve, 1673
 Pacemaker (Venes), 1675
 Pacemaker, 🌐
 Sites of referred pain
 (Williams), 1685
 Palpation, 🌐
 Pancreas and its relationship to the
 duodenum, 1692
 Tools for Pap test (Hawkins), 1697
 Papules (Goldsmith), 1700
 Paraffin, 🌐
Paragonimus westermani
 (Leventhal), 1703
 Parkinson's disease, 🌐
 Paronychia (Goldsmith), 1715
 Applying patch test
 (Goldsmith), 1719
 Pavlik harness, 🌐
 Pediculosis capitis
 (Goldsmith), 1727
 Pelvis, 1732
 Pemphigoid, 🌐
 Pemphigus, 🌐
 Pemphigus vulgaris, 🌐
Penicillium in culture (Kern), 1735
 Penis, including testicles and
 scrotum, 1736
 Pericardiocentesis, 1744
 Pericardium and layers of the
 heart wall (Scanlon), 1745
 Perineum, 1749
 Periodontal disease, 🌐
 Periosteum, 🌐
 Peritoneal and pleural fluid, 1754
 Peritoneum, 1755
 Petechiae (Williams), 1762
 Petrissage, 🌐
 The pH scale (Scanlon), 1764
 Phacoemulsification, 🌐
 Phagocytosis, 1765
 Muscular action on the phalanges,
 Joints of the phalanges of the foot, 🌐
 Phalanx, 🌐
 Phalen's test, 🌐
 Philadelphia collar (Venes), 1772
 Blood drawing from the antecubital
 vein (Venes), 1774
 White piedra on hair (×200)
 (Kern), 1786
 Pinocytosis and exocytosis, 1789
 Pituitary gland and hypothalamus
 (Scanlon), 1792
 Pituitary gland (Scanlon), 1793
 Pityriasis, 🌐
 Placenta (Scanlon), 1794
 Placenta, 🌐
 Placenta previa [2], 🌐
 Body planes and sections
 (Scanlon), 1798
 Plantar flexion, 🌐
Plasmodium falciparum
 (Leventhal), 1801
 Platelet plug formation and clotting
 (Scanlon), 1804
Pneumocystis jiroveci (×1000)
 (Leventhal), 1811
 Pneumomediastinum [2], 🌐
 Lobar pneumonia (Harvey Hatch,
 M.D.), 1814
Pneumocystis carinii pneumonia
 (Leventhal), 1815
 Open pneumothorax, 1817
 Pneumothorax, 🌐
 Poikilocytes (×640) (Sacher), 1819
 Poison ivy, poison oak, poison
 sumac, 1822
 Poison ivy dermatitis
 (Goldsmith), 1822
 Digitalis poisoning, 1830
 Poliomyelitis [2], 🌐
 Polycythemia vera
 (Harmening), 1842
 Polyps (Venes), 1846
 Nasal polyps, 1847
 Nasal polyps (Dillon), 1847
 Pompholyx (Goldsmith), 1850
 Antideformity position, 🌐
 Positions (Wilkinson), 1854
 Postpolio syndrome, 🌐

Postural drainage of lungs, 1860
 Hyperlordotic posture
 (Starkey), 1862
 Actual ectopic pregnancy, 1876
 Various sites of ectopic
 pregnancy, 1876
 Prepatellar bursitis (Venes), 1883
 Presentations of fetus, 1886
 Presentations of fetus
 (Bonica), 1887
 Pressure sore (Goldsmith), 1892
 Promyelocyte ($\times 600$)
 (Harmening), 1905
 Prostate cancer, 1908
 Prosthesis [4], 
 Protozoa (Scanlon), 1918
 Proud flesh, 
 Pruritis, 
 Pseudofolliculitis barbae
 (Goldsmith), 1922
 Pseudofolliculitis barbae, 
 Psoriasis (Goldsmith), 1926
 Guttate psoriasis (Reeves), 1927
 Pustular psoriasis, 
 Ptosis (Morton), 1934
 Pulmonary function test
 (Scanlon), 1937
 Purpura (Harmening), 1944
 Idiopathic thrombocytopenic
 purpura (Harmening), 1944
 Pustule [3], 
 Pyoderma, 
 Universal radiation symbol, 1962
 Diaper rash (Reeves), 1973
 Causes of maternal death
 (WHO), 1975
 Raynaud's phenomenon
 (Goldsmith), 1978
 Rectum (Venes), 1985
 Reed-Sternberg cell (center)
 (Harmening), 1987
 Mitral regurgitation, 
 External respiration, 
 Respiratory system, 2013
 Respirometer, 
 Cardiopulmonary
 resuscitation, 2018
 Initial approach to patient who
 may need cardiopulmonary
 resuscitation, 2019
 External chest compression, 2020
 Reticulocyte, 2022
 Retina of the right eye
 (Chung), 2023
 Retina (Scanlon), 2024
 Retinal detachment, 2025
 Rheumatic fever (Goldsmith), 2034
 Rheumatoid factor, 
 Palpation of the rhomboideus
 muscles, 
 Junctional rhythm, 
 Rib cage (Scanlon), 2040
 Ringworm (Reeves), 2045
 Rocky mountain spotted fever
 (Goldsmith), 2047
 Ruskin mini-rongeur, 
 Rosacea (Goldsmith), 2051
 Steroid rosacea (Reeves), 2051
 Rosette of red blood cells
 (Harmening), 2052
 Rouleaux formation
 (Hillman), 2053
 Rugae, 2056
 Rugose (Kern), 2056
 Rule of nines, 2057
 Sach foot [6], 
 Sacrum and coccyx, 2062
 Saint John's wort (Leonard Perry,
 Ph.D.), 2063
 Salivary glands (Scanlon), 2064
 Sarcocystis inside striated muscle
 (Leventhal), 2070
 Sarcoidosis (Goldsmith), 2070
Sarcoptes scabiei
 (Goldsmith), 2071
 Scabies (Goldsmith), 2072
 Scale for infants, 2074
 Scalpels, 2075
 Bone scan [2], 
 Scapula, 2076
 Scapula [2], 
 Scapulohumeral elevation, 
 Scarlet fever, 
 Schistocytes (Sacher), 2079
Schistosoma (Leventhal), 2079
 Mature schizont in *Plasmodium*
 vivax (Leventhal), 2080
 Scleredema (Goldsmith), 2083
 Scleroderma (Goldsmith), 2084
 Scoliosis (Morton), 2086
 Scraping a blister
 (Goldsmith), 2088

Scurvy (Goldsmith), 2090
 Selective serotonin uptake inhibitor, 🌱
 Antimicrobial sensitivity test (Sacher), 2099
 Differences between plasma and serum, 🌱
 Sézary cells (Harmening), 2111
 Shingles (Reeves), 2115
 Passive reduction of anterior shoulder dislocation (Colyar), 2121
 Dialysis shunt (Venes), 2121
 Transjugular intrahepatic portosystemic shunt, 🌱
 Serum sickness, 🌱
 Simian and normal palmar creases, 2128
 Paranasal sinus (Scanlon), 2132
 Skeleton, 2135
 Skin section (Scanlon), 2138
 Skinfold thickness, 🌱
 Bones of skull (right lateral and anterior views) (Scanlon), 2139
 Inferior view of skull with mandible removed (Scanlon), 2140
 Superior view of skull with top of cranium removed (Scanlon), 2140
 Preparation of blood smear (Leventhal), 2146
 Snakes, 2148
 Spasticity, 🌱
 Nasal speculum (Colyar), 2165
 Vaginal speculum (Hawkins), 2165
 Normal and abnormal sperm, 2166
 Spermatogenesis (Scanlon), 2168
 Spermatozoon (Scanlon), 2169
 Spherocytes (Harmening), 2170
 Sphygmomanometer (Wilkinson), 2172
 Spina bifida (neural tube defects), 🌱
 Spinal cord (Scanlon), 2176
 Spirometer [2], 🌱
 Incentive spirometers, 🌱
 Incentive spirometer (Williams), 2179
 Dorsal blocking splint, 🌱
 Static splint [3], 🌱
 Vacuum splint (Starkey), 2181
 Splinting of the leg, 🌱
 Splinter hemorrhage, 🌱
 Contraceptive sponge (Hawkins), 2184
 Sponge, 🌱
 Sporangium, 🌱
 Mongolian spots (Morton), 2186
 Cervical sprain, 🌱
 Spur cells (Harmening), 2190
 Stapled incision (Williams), 2195
 Gastric stapling, 🌱
 Surgical stapling, 🌱
 Star of life, 2196
 Renal artery stenosis (Arnold Klein, M.D.), 2203
 Insertion of a coronary artery stent (Williams), 2204
 Intraluminal coronary artery stent, 🌱
 Sternotomy (Venes), 2206
 Sternum, 2206
 Steroid hormone nucleus, 2207
 Stevens-Johnson syndrome (Reeves), 2208
 Stomach (Scanlon), 2213
 Stomatitis (Kozol), 2213
 Hemorrhagic stroke (Harvey Hatch, M.D.), 2221
 Stryker frame, 2226
 Suicide, 2236
 Relationship of dental surfaces, 2244
 Sway-back, 2252
 Synapse (Scanlon), 2257
 Syphilis (Goldsmith), 2264
 Syringes (Wilkinson), 2265
 Paroxysmal supraventricular tachycardia (psvt), 🌱
 Ventricular tachycardia (Williams), 2270
Taenia saginata (Leventhal), 2271
Taenia solium (Leventhal), 2271
 Skin tags (Goldsmith), 2272
 Skin tags, 🌱
 Talus, 🌱
 Pericardial tamponade, 2275
 Examples of tattooing, 🌱
 Telangiectasia (Goldsmith), 2283
 Temperature regulation (Scanlon), 2286
 Oxygen tent, 🌱

- Testis (Scanlon), 2294
 Tetralogy of fallot, 
 Thermodilution, 
 Thermoplastic, 
 Thoracentesis, 2308
 Thoracentesis, 
 Thoracotomy scar (Venes), 2310
 Thymus in a young child
 (Scanlon), 2318
 Thymus, 
 Thyroid gland and related
 structures, 2320
 Wood tick (Scanlon), 2322
 Tinea capitis (Goldsmith), 2324
 Tinea capitis, 
 Tinea corporis (Reeves), 2324
 Tinea cruris (inner thigh)
 (Reeves), 2325
 Tinea versicolor on back
 (Kern), 2325
 Connective tissues (Scanlon), 2327
 PET scan of brain
 (Mazziotta), 2332
 Positron emission
 tomography, 2332
 Surface of tongue, 2333
 Geographic tongue
 (Wilkinson), 2333
 Tonometry (Williams), 2334
 Inflamed tonsils (Morton), 2335
 Tooth structure (Scanlon), 2336
 Deciduous teeth (left side), 2337
 Tophi (Venes), 2341
 Torsade de pointes (Brown), 2340
 Tourniquet test (Harmening), 2342
 Tracheostomy tube
 (Williams), 2347
 Patient with tracheostomy
 (Williams), 2347
 Biliary tract (in relation to liver,
 pancreas, and duodenum), 2350
 Traction, 
 Transdermal infusion system, 
 Transfer board (Wilkinson), 2356
 Transposition of the great vessels, 
 Transurethral resection of the
 prostate, 2365
 Trapezium [2], 
 Trapezius [5], 
 Facial trauma, 
 Triceps brachii, 
Trichinella spiralis
 (Leventhal), 2372
Trichomonas vaginalis
 (Leventhal), 2374
 Trichophyton mentagrophytes, 
Trichuris trichiura
 (Leventhal), 2375
 Trigger finger (Kozol), 2376
Trypanosoma (Leventhal), 2381
 Tuberculosis (Strasinger), 2384
 Tuberculosis, 2385
 Brain tumor (Kozol), 2387
 Possible relations of fetal
 membranes in twin
 pregnancies, 2392
 Venous stasis ulcer, 2398
 Ulna, 
 Motions of the ulna, 
 Doppler ultrasonography
 (Colyar), 2400
 Fetal ultrasound image
 (Enright), 2400
 Ultrasound, 
 Umbilical cord, 2401
 Unna's boot, 2405
 Uric acid crystals ($\times 400$)
 (Strasinger), 2410
 Urinary retention, 2412
 Urinary system (Scanlon), 2413
 Urine (Strasinger), 2417
 Urticaria (Goldsmith), 2419
 Urticaria, 
 Uterus, 2421
 Smallpox, 2427
 Vagina and other female
 organs, 2429
 Valgus (Starkey), 2432
 Cardiac valves (Scanlon), 2433
 Types of mechanical heart valves
 (Williams), 2434
 Varicella (chickenpox)
 (Goldsmith), 2436
 Varicose veins in leg
 (Reeves), 2437
 Varus (Starkey), 2439
 Vas deferens and other male
 organs, 2439
 Vasculitis (Goldsmith), 2440
 Vasectomy and its reversal, 2441
 Systemic veins (Scanlon), 2445

- Structure of a vein and venule (Scanlon), 2446
- Venous cutdown, 2449
- Implantable venous access port, 2450
- Noninvasive positive pressure ventilation (Williams), 2452
- Ventricles of the brain (Scanlon), 2453
- Vermiform appendix, 2455
- Verruca vulgaris (Kozol), 2456
- Vesicles (Goldsmith), 2459
- Villi of small intestine (Scanlon), 2463
- Viruses (Scanlon), 2466
- West Nile virus, 2469
- Visual field abnormalities (Williams), 2472
- Vitiligo (Goldsmith), 2475
- Vocal cords (closed) (Owens), 2477
- Vocal cords (open) (Owens), 2477
- Vulva (Scanlon), 2482
- Common warts (Goldsmith), 2486
- Genital warts on penis (Reeves), 2486
- Plantar wart (Reeves), 2487
- Wasting interosseous tissues of hand, 🌍
- Components of waves, 2489
- Circle of Willis (Scanlon), 2498
- Open wound (Kloth), 2504
- Compression wrap (Starkey), 2504
- Wrist complex, 🌍
- Wuchereria bancrofti* (Leventhal), 2505
- Xanthelasma (Morton), 2506
- Xanthine, 🌍
- Xerocytes (Harmening), 2508
- Xerosis (Goldsmith), 2508
- Budding yeast (Strasinger), 2510
- Yergason's test, 🌍
- Yin-yang, 2512
- Z-plasty method of correcting a deforming scar, 2517

* WB Saunders Company, Philadelphia, PA; with permission.

† Reproduction of Morphology of Human Blood Cells has been granted with approval of Abbott Laboratories Inc., all rights reserved.

‡ From Lowdermilk, DL: Maternity Nursing, ed 6, 2003, with permission.

§ From Hyun, BK: Morphology of Blood and Bone Marrow, American Society of Clinical Pathologists, Workshop 5121, September 1983, with permission.

¶ From Beneke: Human Mycoses, Pharmacia & Upjohn, 1979, with permission.

ILLUSTRATION SOURCES

- Armed Forces Institute of Pathology (AFIP)/American Registry of Pathology, Washington, DC 2004.
- Bartelt, MA: Diagnostic Bacteriology: A Study Guide. FA Davis, Philadelphia, 1999.
- Berkow, R (ed): The Merck Manual, ed 13. Merck & Co., Inc., Rahway, NJ, 1977.
- Bonica, J: Principles and Practice of Obstetric Analgesia and Anesthesia. FA Davis, Philadelphia, 1972.
- Brown, KR and Jacobson, S: Mastering Dysrhythmias: A Problem Solving Guide. FA Davis, Philadelphia, 1988.
- Chung, Christine A., MD, Philadelphia, PA.
- Colyar, MR and Ehrhardt, CR: Ambulatory Care Procedures for the Nurse Practitioner. FA Davis, Philadelphia, 1999.
- Dillon, PM: Nursing Health Assessment: A Critical Thinking, Case Studies Approach. FA Davis, Philadelphia, 2003.
- Doenges, ME, Moorhouse, MF and Geissler, AC: Nursing Care Plans: Guidelines for Individualizing Patient Care, ed 5. FA Davis, Philadelphia, 1999.
- Eickhoff, L, Portland, OR.
- Enright, AD, Havertown, PA.
- Gilman, S and Newman, SW: Manter & Gatz's Essentials of Clinical Neuroanatomy and Neurophysiology, ed 9. FA Davis, Philadelphia, 1996.
- Goldsmith, LA, Lazarus, GS and Tharp, MD: Adult and Pediatric Dermatology: A Color Guide to Diagnosis and Treatment, FA Davis, Philadelphia, 1997.
- Hatch, H, Gold Beach, OR.
- Harmening, DM: Clinical Hematology and Fundamentals of Hemostasis, ed 3. FA Davis, Philadelphia, 1997.
- Hawkins, J, Chestnut Hill, MA.
- Hillman, RS and Finch, CA: Red Cell Manual, ed 7. FA Davis, Philadelphia, 1996.
- Kern, ME and Blevins, KS: Medical Mycology: A Self-Instructional Text, ed 2. FA Davis, Philadelphia, 1997.
- Kintz, J, Eugene, OR.
- Kisner, C: Therapeutic Exercise: Foundations and Techniques, ed 4. FA Davis, Philadelphia, 2002.
- Klein, A, Portland, OR.
- Kloth, LC: Wound Healing: Alternatives in Management, ed 3. FA Davis, Philadelphia, 2002.
- Kozol, RA, Fromm, D and Konen, JC: When to Call the Surgeon: Decision Making for Primary Care Providers. FA Davis, Philadelphia, 1999.
- Lentner, C (ed): Geigy Scientific Tables, ed 8. Ciba Geigy, Basle, Switzerland, 1981.
- Leventhal, R and Cheadle, RF: Medical Parasitology: A Self-Instructional Text, ed 5. FA Davis, Philadelphia, 2002.

- Mazziotta, JC, and Gilman, S: *Clinical Brain Imaging: Principles and Applications*. Oxford University Press, New York, 1992. Used by Permission of Oxford University Press, Inc.
- McKinnis, L: *Fundamentals of Orthopedic Radiology*, FA Davis, Philadelphia, 1997.
- Morton, PG: *Health Assessment in Nursing*, ed 2. FA Davis, Philadelphia, 1993.
- Lowdermilk, DL: *Maternity Nursing*, ed 3. Elsevier, Philadelphia, 2003
- Owens, April, Eugene, OR.
- Perry, LP: "Perry's Perennials." <http://www.uvm.edu/pass/perry> (August 2000).
- Reeves, JRT and Maibach, HI: *Clinical Dermatology Illustrated: A Regional Approach*, ed 3. MacLennan & Petty Pty Ltd, Sydney, Australia, 1998 (distributed in North America by FA Davis, Philadelphia).
- Sacher, RA, McPherson, RA with Campos, JM: *Widmann's Clinical Interpretation of Laboratory Tests*, ed 11. FA Davis, Philadelphia, 2000.
- Scanlon, VC and Sanders, T: *Essentials of Anatomy and Physiology*, ed 3 & 4. FA Davis, Philadelphia, 1999 & 2003.
- Sepulveda, H, San Diego, CA.
<http://www.shapeup.org>.
- Speroff, L: *A Clinical Guide for Contraception*, ed 3. Lippincott, Williams & Wilkins.
- Starkey, C and Ryan, JL: *Evaluation of Orthopedic and Athletic Injuries*. FA Davis, Philadelphia, 1996.
- Stevens, CD: *Clinical Immunology and Serology: A Laboratory Perspective*. FA Davis, Philadelphia, 1996.
- Strasinger, SK: *Urinalysis and Body Fluids*, ed 3. FA Davis, Philadelphia, 1994.
- Venes, D, Brookings, OR.
- Wallace, JE: *Radiographic Exposure: Principles and Practice*. FA Davis, Philadelphia, 1995.
- Wilkinson, JM and Van Leuven, K: *Fundamentals of Nursing*. FA Davis, Philadelphia, 2007.
- Williams, LS and Hopper, PD (eds): *Understanding Medical-Surgical Nursing*, ed 3. FA Davis, Philadelphia, 2007.
- World Health Organization (WHO): <http://www.who.int>.

LIST OF TABLES

- Activities of Daily Living and Factors Affecting Them, 39
- Factors that may Decrease Patient Adherence with Therapy in the U.S., 49
- Clinical Conditions and Opportunistic Infections Indicating AIDS, 65
- Levels of Alcohol Consumption: A Guide to Contemporary Usages, 73
- Common Allergies and Allergens, 81
- Stages of Alzheimer's Disease, 88
- Stages of Angina Pectoris, 128
- Apgar Score, 161
- Some Severe Illnesses That May Mimic Appendicitis, 166
- Autonomic Stimulation and its Effects, 222
- Common Bacterial Infections, 231
- Common Birth Defects, 270
- Control of Arterial Bleeding, 278
- Blood Components Used in Transfusion Therapy, 286
- Selected Risk Factors for Breast Cancer, 311
- Features of Bronchodilator Drugs, 321
- Estimated New Cancer Cases and Deaths by Sex, U.S., 2008, 346
- Controversies in Cancer Screening in the General Population, 348
- Cancer Antigens Used as Tumor Markers, 353
- Classification of Important Carbohydrates, 361
- Digestion of Carbohydrates, 362
- Effects of Carboxyhemoglobin, 364
- Routes of Drug Administration During Cardiac Arrest, 367
- Important Considerations in the Administration of Chemotherapy, 427
- Lipid Level Management for Cholesterol Level Reduction, 440
- Criteria for Diagnosing CFS, 450
- Hospital Emergency Codes, 479
- Contraceptive Use by Women, 15 to 44 Years Old: 1995 (Based on Samples of the Female Population of the United States), 517
- Contraindications to the Topical Application of Cold to Musculoskeletal Injuries, 552
- Ten Leading Causes of Death in the U.S. (2004), 582
- Prevalence of Dementia, by Patient Age, 589
- Signs and Symptoms and Recommended Emergency Management of Odontogenic (Dental) Problems, 604
- Preventing Oral Diseases/Maintaining Oral Health, 606
- Comparison of Diabetic Ketoacidosis and Hypoglycemia, 631
- Comparison of Type 1 (Insulin-Dependent) Diabetes Mellitus and Type 2 (Non-Insulin-Dependent) Diabetes Mellitus, 634
- Top Diagnosis-Related Groups (DRGs) in the U.S., 636
- Diseases in Which Diet Plays an Important Role, 645
- The DASH Diet (Eating Plan), 646
- Dietary Guidelines for Americans, 649

Action of Digestive Enzymes on Food, 651
 Fungal Diseases, 664
 Method of Transmission of Some Common Communicable Diseases, 666
 Inherited Diseases and Conditions: A Brief List, 668
 Ultraviolet Treatment Dosages, 684
 Comparison of Toxic and Allergic Drug Reactions, 696
 Risk Factors for Erectile Dysfunction, 705
 Electromagnetic Spectrum, 740
 Common Causes of Seizures, 792
 Exercise: Energy Required, 822
 Comparison of Heatstroke and Heat Exhaustion, 827
 Fahrenheit and Celsius Scales, 843
 Food Sources of Saturated and Trans Fats, 852
 Development of Fetal Tissue, 861
 The American College of Rheumatology 1990 Criteria for Classification of Fibromyalgia, 869
 Some Important Issues in Geriatric Health Care, 945
 Principal Endocrine Glands, 954
 Gram Conversion into Ounces (Avoirdupois), 980
 Some Public Health Indicators, 1016
 Elimination of Body Heat, 1026
 Routine Precautions for the Care of All Hemodialysis Patients, 1044
 Hemodynamic Parameters Frequently Measured in Critical Care, 1045
 Comparison of Hemoptysis and Hematemesis, 1051
 Common Sites of Bleeding, 1052
 Classification of BP for Adults Age 18 and Older, 1123
 Oral Agents That Lower Blood Glucose, 1135
 Blood Type Compatibility, 1172
 Incubation and Isolation Periods in Common Infections, 1176
 Colors of Indicators of pH, 1180
 Fungal Infections, 1185
 Basic Guidelines for Infection Control, 1187
 Mediating Factors in Inflammation, 1189
 Information Technologies Used in Health Care, 1192
 Traumatic Injuries, 1201
 Mechanisms of Brain Injury, 1202
 Natural and Artificial Stimulants that May Contribute to Insomnia, 1205
 Duration of Effect of Various Insulins When Given by Subcutaneous Injection, 1209
 Desirable Levels of Anticoagulation in Terms of INR, 1217
 Karnofsky Index, 1256
 Some Classes of Drugs That Inhibit Libido, 1331
 Expectation of Life in Years, by Race, Sex, and Age: 1996, 1334
 Expectation of Life at Birth, 1970 to 1997, and Projections, 1995 to 2010, 1334
 Physical Signs of Malnutrition, 1397
 Common Medication Errors, 1423
 Some Monoclonal Antibodies and Their Uses, 1486
 Leading Causes of Death in Children Under Five Years of Age, Estimates for 2000-2003, 1495
 Comparison of Properties of Three Types of Muscle, 1511
 Common Neuropathies, 1576

Typical Noise Levels in Decibels and Their Effect, 1593
Diagnostic Tests for Occult Bleeding, 1620
Representative Occupational Illnesses, 1621
International Criteria for Diabetes Mellitus in Pregnancy Using the 2-
hr OGTT, 1639
Size, Weight, and Capacity of Various Organs and Parts of the Adult
Body, 1642
Animal Organ Systems, 1645
Risk Factors for Osteoporosis, 1659
Usual Adult Doses and Intervals of Drugs for Relief of Pain, 1681
Sites of Referred Pain, 1685
Important Considerations in Palliative Care, 1688
A Patient's Perception of Quality Health Care, 1723
Symptoms and Signs of Periodontitis, 1751
pH of Some Fluids, 1764
The Pneumoconioses, 1811
Toxicity of Carbon Monoxide, 1828
Positions of Fetus in Utero, 1853
Pregnancy Table for Expected Date of Delivery, 1871
Recommended Screening for Pregnant Women, 1874
Common Tests Performed Prenatally, 1882
The Norton Scale, 1891
Tests for Premature Rupture of Membranes, 1904
Table of Pathogenic Protozoa, 1918
Psychomotor and Physical Development: Birth to 1 Year, 1930
Major Public Health Achievements of the 20th Century, 1936
Purines in Food, 1943
Radiosensitive Tumors, 1967
Causes of Acute Renal Failure, 2001
Common Findings on Funduscopic Examination in Retinopathy, 2027
Prominent Issues in Hospital Risk Management, 2046
Causative Agents of Sexually Transmitted Diseases, 2111
International System of Units (SI Units), 2133
Prefixes and Their Symbols Used to Designate Decimal Multiples and
Submultiples in SI Units, 2134
Bones of the Human Skeleton, 2136
U.S. FDA Categories for Drugs by Teratogenic or Fetotoxic
Potential, 2291
Comparative Thermometric Scale, 2305
Thermometric Equivalents (Celsius and Fahrenheit), 2305
Some Culturally Specific (Folk) Illnesses, 2354
Revised Trauma Score (RTS), 2367
Significance of Changes in Urine, 2415
Common Disorders of Urination, 2416
Common Viral Characteristics, 2466
Causes of Vomiting, 2479
1983 Metropolitan Height and Weight Tables for Men and Women
According to Frame, Ages 25 to 59, 2493
Ethical requirements for Expert Witnesses, 2501

ABBREVIATIONS USED IN TEXT*

ABBR	abbreviation	Gr.	Greek
Amerind	American Indian	i.e.	id est (that is)
approx.	approximately	illus.	illustration
AS	Anglo-Saxon	L.	Latin
at. no.	atomic number	LL.	Late Latin
at. wt.	atomic weight	MD.	Middle Dutch
Brit.	British	ME.	Middle English
C	centigrade	Med. L.	Medieval Latin
CNS	central nervous system	NL	New Latin
D.	Dutch	O.Fr.	Old French
e.g.	exempli gratia (for example)	pert.	pertaining
esp.	especially	pl.	plural
F	Fahrenheit	rel.	related; relating
Fr.	French	sing.	singular
fr.	from	Sp.	Spanish
Ger.	German	sp. gr.	specific gravity
		SYMB	symbol
		SYN	synonym

*Additional abbreviations are listed in the Units of Measurement Appendix and the Medical Abbreviations Appendix.