

4-30-2011

# Radiologic Technology

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## Recommended Repository Citation

Watwood, Carol L.. (2011). Radiologic Technology. *Medical Library Association's Master Guide to Authoritative Resources*, 27-32.

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MEDICAL LIBRARY ASSOCIATION GUIDES

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The Medical Library Association's  
Master Guide to Authoritative  
Information Resources in  
the Health Sciences

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Associate Editors

Ref  
e  
118.2  
.M38  
2011

Neal-Schuman Publishers

New York      London

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## Journals

**Clinical Laboratory Science.** v. 1, American Society for Clinical Laboratory Science, 1988.

<http://www.ascls.org/leadership/cis/index.asp>

<http://ejournals.ebsco.com/direct.asp?JournalID=113968>

ISSN: 0894959X

Indexed in: MEDLINE, CINAHL

Recommended for: Hospital, Academic Libraries

Brandon/Hill Selection

This is the official publication of the American Society for Clinical Laboratory Science (ASCLS), the professional organization for clinical laboratory scientists in the United States. Published quarterly, it is a peer-reviewed, scholarly/academic journal that covers all subspecialties of the discipline. The journal was started in 1988 as a continuation of the *Journal of Medical Technology*. Articles range from the very practical to the theoretical. The "Dialogue and Discussion" column provides updates on domestic legislation and regulations related to the clinical laboratory, as well as occasional editorials. The "Clinical Practice" section covers topics of practical importance, including case studies, reports, articles, and reviews of books, computer programs, and similar materials. The "Research and Reports" section offers articles describing original research, as well as literature reviews and reports about new technological developments. Finally, the "Focus" section provides a series of articles on specific topics, which offer continuing education credits. The publication has a straightforward, scholarly appearance, and articles are abundantly referenced. It contains minimal advertising, which is mostly related to Society activities. The editorial board is comprised of an editor-in-chief and three section editors, who are registered with either the National Credentialing Agency for Laboratory Personnel (NCL) or the American Society for Clinical Pathology (ASCP), plus seven contributing editors and a substantial review board. The journal is indexed in MEDLINE, CINAHL, Scopus, and other databases. Individual ASCLS members receive a subscription to the journal as a society benefit.

**Laboratory Medicine.** v. 1, ASCP, 1970.

<http://labmed.ascpjournals.org/>

ISSN: 00075027

ISSN: 19437730 (Online)

Indexed in: CINAHL

Recommended for: Hospital, Academic Libraries

Brandon/Hill Selection

*Laboratory Medicine*, which is also known as *LABMEDICINE*, is a monthly, peer-reviewed journal for laboratory professionals published by the American Society for Clinical Pathology (ASCP). Its general purpose is to provide "continuing education, career development, and new technologies to the laboratory community." Started in 1970, it was formed as a result of the merger of the *Bulletin of Pathology* and the *Technical Bulletin of the Registry of Medical Technologists*. Various article types, which rotate from one issue to the next, include a cover story or feature article, review articles, special reports, case studies and rounds reports, and original research articles. Articles frequently contain lengthy lists of references. Topics of monthly columns include image quizzes, quality control, standards and guidelines, laboratory management, continuing education, historical biographies; new products, and book and media reviews. The journal makes liberal use of color, both within the articles and in the plentiful advertisements. *Laboratory Medicine* is indexed by CINAHL, Academic Search Premier, Embase, Scopus, and other databases. Subscriptions are included with annual ASCP memberships and may be purchased by individual non-members and institutions.

## 1.6. Radiologic Technology

*The application of scientific knowledge or technology to the field of radiology. The applications center mostly around x-ray or radioisotopes for diagnostic and therapeutic purposes but the technological applications of any radiation or radiologic procedure is within the scope of radiologic technology.*

—MeSH: Technology, Radiologic

Contributor: Carol L. Watwood

## Monographs

**Comprehensive Radiographic Pathology.** 4th ed. Authors: Ronald L. Eisenberg, Nancy M. Johnson. Mosby Elsevier, 2007.

ISBN: 9780323036245

Recommended for: Hospital, Academic Libraries

Doody's Core Titles Selection

Selected by *Doody's* as a core title in radiologic technology, this best seller is the product of a collaboration between a radiologist and radiologic technologist who "concentrate on the radiographic appearance of diseases and injuries that are most likely to be diagnosed with medical imaging." Material is organized by body system

and is illustrated using multiple imaging modalities; treatment is also discussed. The book includes summary tables; word prefixes, suffixes, and roots; laboratory tests; and review questions. It is useful as "a student text and a quick review for practicing professionals." The book's binding could be improved as some readers have noted that the pages fall out easily. *Comprehensive Radiographic Pathology* is recommended for hospital, undergraduate, or community college libraries serving radiologic technology students.

***Essentials of Dental Radiography for Dental Assistants and Hygienists.*** 9th ed. Authors: Evelyn M. Thomson, Orlen N. Johnson. Pearson Prentice Hall, 2012.  
See Chapter 1.8. Dental Auxiliaries

***Merrill's Atlas of Radiographic Positioning & Procedures.*** 11th ed. Authors: Eugene D. Frank, Bruce W. Long, Barbara J. Smith. Mosby Elsevier, 2007.  
ISBN: 9780323033176  
Recommended for: Hospital, Academic Libraries  
Brandon/Hill, *Doody's Core Titles* Selection

This three-volume set was named for Vinita Merrill, who wrote the first edition in 1949. The classic encyclopedic reference includes more than 400 projections and covers the full range of commonly performed procedures and the practice of radiologic technologists. Normal and pathologic findings are shown. Projections are accompanied by photographs and color diagrams, allowing students to perfect their positioning skills. Various chapters cover bone groups, body parts, anatomy, filters, body systems, and imaging modalities, which include mobile and surgical radiography, CT, MRI, ultrasound, nuclear medicine, bone densitometry, and radiation oncology. The *Atlas* is accompanied by an instructor's website and Mosby's Radiography Online, a companion website with animations and interactive activities. It was selected as a 2003 Brandon/Hill allied health initial purchase title and a *Doody's Core Titles* suggestion. This set is recommended for academic, hospital, and departmental libraries serving radiologic technologists and radiologic technology students.

***MRI in Practice.*** 3rd ed. Authors: Catherine Westbrook, Carolyn K. Roth. Blackwell, 2005.  
ISBN: 9781405127875  
Recommended for: Hospital, Academic Libraries

According to the publisher, this text and reference book for radiologists and radiologic technologists aims for a "middle ground between simple and complicated texts." It prepares readers for the advanced level MRI examination

of the ARRT (American Registry of Radiologic Technologists). Analogies relate complex subjects to everyday phenomena. This book describes MRI instrumentation, principles, pulse sequences, image acquisition, and imaging parameters. This book is suitable for hospital, undergraduate, and community college libraries supporting radiography students specializing in MRI.

***Nuclear Medicine and PET/CT: Technology and Techniques.*** 6th ed. Editors: Paul E. Christian, Kristen M. Waterstram-Rich. Mosby Elsevier, 2007.  
ISBN: 9780323043953  
ISBN: 9780323061322  
Recommended for: Hospital, Academic Libraries  
Brandon/Hill, *Doody's Core Titles* Selection

This is a textbook for nuclear medicine technologists; this specialized area of practice uses radioactive isotopes to diagnose and treat disease. It was chosen as a Brandon/Hill allied health initial-purchase selection and a *Doody's Core Titles* selection. It includes mathematics, physics, instrumentation, computer and laboratory science, chapters on various body systems and special topics, a table of radiopharmaceuticals, and a glossary. In addition to the print textbook, individuals may also purchase the publisher's combined text and e-book package. This book is recommended for hospital and academic libraries serving nuclear medicine technology students.

***Patient Care in Radiography, with an Introduction to Medical Imaging.*** 7th ed. Authors: Ruth A. Ehrlich, Joan A. Daly. Mosby Elsevier, 2009.  
ISBN: 9780323051781  
ISBN: 9780323063258  
Recommended for: Hospital, Academic Libraries  
*Doody's Core Titles* Selection

This is a *Doody's* core title. As a student text following ASRT (American Society of Radiologic Technologists) curriculum guidelines, it covers professional roles, behavior, standards, organizations, patient assessment, care, transfer, safety, medications, GI tract exam care, and other topics. It includes appendixes addressing topics such as informed consent and infection control procedures. The publisher provides a print textbook and e-book package option for individual purchase. Lippincott Williams & Wilkins offers a similar publication, *Patient Care in Imaging Technology* (Torres, Dutton, and Linn-Watson, 2009, ISBN: 9780781771832), which is also well reviewed and widely used. *Patient Care in Radiography* is recommended for academic and hospital libraries serving student radiographers.

***Principles and Practice of Radiation Therapy.*** 3rd ed. Editors: Charles M. Washington, Dennis T. Leaver. Mosby Elsevier, 2010.

ISBN: 9780323053624

ISBN: 9780323066761

Recommended for: Hospital, Academic Libraries  
*Doody's Core Titles Selection*

Radiation therapists produced this *Doody's* essential purchase title for radiation therapy students and practitioners. Other contributors represent a range of occupations. Chapters include learning objectives, summaries, review problems, and critical thinking questions. The book provides an overview of cancer and radiobiology, ethics, basic principles, physics, anatomy, instrumentation, dosage, practical applications by organ system, and a glossary. The publisher also offers this book to individuals as a combined print textbook and e-book package. It would be useful for hospital and academic libraries serving radiation therapy students and professionals.

***Principles of Radiographic Imaging: An Art and a Science.*** 4th ed. Authors: Richard R. Carlton, Arlene M. Adler. Delmar Cengage Learning, 2006.

ISBN: 9781401871949

Recommended for: Hospital, Academic Libraries  
*Doody's Core Titles Selection*

*Principles of Radiographic Imaging* is the standard textbook on principles and techniques of radiographic imaging, a required part of the radiologic technology curriculum. According to the publisher, this best-selling title informs readers about "radiographic contrast, density, detail and distortion." It builds from the simple to the complex, beginning with basic principles of physics, mathematics, and radiation science. The book, which is accompanied by a CD-ROM, includes a new section on managing digital images and a glossary. A companion workbook, web tutor, electronic course manager, and instructor's manual are also available. This book is listed by *Doody's* as an essential purchase title. It is recommended for academic and hospital libraries serving radiologic technology students.

***Radiation Protection in Medical Radiography.*** 6th ed. Authors: Mary Alice Statkiewicz-Sherer, Paula J. Visconti, E. Russell Ritenour. Mosby Elsevier, 2011.

ISBN: 9780323066112

Recommended for: Hospital, Academic Libraries  
Brandon/Hill, *Doody's Core Titles Selection*

*Doody's* selected this classic text as a core title for radiologic technology, and the 2003 Brandon/Hill allied health list also recommended it as an initial purchase title. First published in 1983, Mary Alice Statkiewicz-Sherer's text is

still the standard work for students on the important topic of radiation protection and biology. Mary Anne Kuk, a 2006 reviewer for *Radiologic Technology*, said it was also an "excellent reference to anyone who works in the radiography profession." According to the publisher, "building from basic to more complex concepts, this book also presents radiation physics, cell structure, effects of radiation on humans at the cellular and systemic levels, regulatory and advisory limits for human exposure to radiation, and the implementation of patient and personnel radiation protection practices." A discussion of radiation protection from radioisotopes is included. The publisher also provides an accompanying workbook, e-text, and instructional website. The book is recommended for college, hospital, and clinical libraries serving radiologic technology students.

***Radiography PREP: Program Review and Exam Prep.*** 5th ed. Author: Dorothy A. Saia. McGraw-Hill Medical, 2009.

<http://www.ebrary.com/>

<http://extranet.netlibrary.com/TitleSelect/>

ISBN: 9780071502788

ISBN: 9780071643283

Recommended for: Hospital, Academic Libraries

This best-selling exam review, which received a four-star rating from *Doody's*, is also sold in combination with another volume by Dorothy A. Saia, *Lange Q & A: Radiography Examination*, 7th ed., 2009, ISBN: 9780071508148. The combined set's ISBN is 9780071635813. The author of this program review and examination study guide for the ARRT (American Registry of Radiologic Technologists) is an educator with 35 years experience teaching radiologic technology students. Other print and online study materials may be found on the website of the American Society of Radiologic Technologists, or students may wish to contact their advisers or program directors for additional review materials. This study guide will be a popular addition for hospital or academic libraries supporting radiologic technology students, perhaps for the reference or reserve collections. Outdated editions should be discarded since radiologic technology changes rapidly.

***Radiologic Science for Technologists: Physics, Biology and Protection.*** 9th ed. Author: Stewart C. Bushong. Mosby Elsevier, 2008.

ISBN: 9780323048378

Recommended for: Hospital, Academic Libraries  
Brandon/Hill, *Doody's Core Titles Selection*

Stewart Bushong's *Radiologic Science for Technologists* is the standard textbook on the physics, mathematics, and

underlying principles of radiography for radiologic technology students who are preparing for part of the ARRT (American Registry of Radiologic Technologists) examination. *Doody's* lists this book as an essential purchase title, and the seventh edition appeared on the final 2003 Brandon/Hill allied health list as an initial purchase item. The book's end sheets provide quick-reference information. Important math information and key concepts are highlighted in boxes. According to the publisher, each chapter has "objectives, key terms, outlines, introductions, and summaries," and different types of review questions follow each chapter. An accompanying workbook is available. Some users say the mathematical examples have too many mistakes and misprints, but, with little competition, this perennial best seller is still widely used and read. This book is recommended for academic and hospital libraries.

***Textbook of Diagnostic Ultrasonography.*** 6th ed. Author: Sandra L. Hagen-Ansert. Mosby Elsevier, 2006. ISBN: 9780323028035

Recommended for: Hospital, Academic Libraries  
Brandon/Hill, *Doody's Core Titles* Selection

Included in *Doody's Core Titles*, this popular, two-volume textbook/reference book contains nearly 800 images visualizing soft-tissue structures examined by sonographers. An icon highlights sonographic findings for different procedures; attractive photographs and color diagrams further highlight and explain anatomic structures. The first volume covers general principles and protocols, the abdomen, superficial structures, and pediatrics. The second volume is devoted to cardiovascular, obstetric, and gynecologic sonography. Each chapter begins with learning objectives and includes glossaries, tables, and a selected bibliography. An accompanying workbook and web resources are also available. This set is suitable for hospital and academic libraries serving student and practicing sonographers.

***Textbook of Radiographic Positioning and Related Anatomy.*** 7th ed. Authors: Kenneth L. Bontrager, John P. Lampignano. Mosby Elsevier, 2009. ISBN: 9780323054102

Recommended for: Hospital, Academic Libraries  
Brandon/Hill, *Doody's Core Titles* Selection

This textbook of radiographic anatomy and positioning contains essential information for all radiography students. It is one of the best-known and most widely respected radiography textbooks. Each positioning page has a title bar and is laid out clearly and attractively in a "show and tell" format that displays each procedure, gives summary

information, and helps students understand why each procedure is performed. The information includes an anatomy overview and common pathologic findings. The book is organized by body areas and imaging modalities; it includes over 200 commonly used projections. It is a Brandon/Hill allied health initial purchase and *Doody's* core title. This publication is recommended for academic and hospital libraries serving radiography students.

## Journals

***Applied Radiology: the Journal of Practical Medical Imaging and Management.*** v. 5, no. 4, Anderson, 1976. <http://www.appliedradiology.com/>  
ISSN: 01609963

Indexed in: CINAHL

Recommended for: Hospital, Academic Libraries  
Brandon/Hill Selection

Indexed in CINAHL, this practice-oriented journal targets radiologists and radiologic technologists. It has a physician editorial board. The *Applied Radiology* website includes continuing medical education, job advertisements, news, a message board, and discussion groups. Articles cover diagnostic radiology, radiation therapy, CT, ultrasound, thermography, MRI, and nuclear medicine. The journal, known as *Applied Radiology and Nuclear Medicine* from 1975–1976, is free to AMA members registered in appropriate specialties. The online content is available to professionals registering on the journal's website and through CINAHL with full text. This title is appropriate for clinically oriented collections serving students or practicing radiologists and radiologic technologists.

***Journal of Diagnostic Medical Sonography.*** v. 1, Sage/Society of Medical Diagnostic Sonography, 1985.

<http://jdm.sagepub.com/>

ISSN: 87564793

ISSN: 15525430 (Online)

Indexed in: CINAHL

Recommended for: Hospital, Academic Libraries  
Brandon/Hill Selection

This bimonthly title is a 2003 Brandon/Hill allied health initial purchase selection for the diagnostic medical sonography category. It is published by Sage on behalf of the Society of Medical Diagnostic Sonography and is provided as a free benefit to members. It is indexed in various sources such as CINAHL and Scopus. Continuing medical education (CME) and book reviews are included. Articles cover all aspects of the allied health field of diagnostic medical sonography, which refers to

the use of sound waves to diagnose and assess health conditions in various parts of the body. Articles include topics such as case reports, image interpretation, imaging techniques, cost effectiveness, safety, equipment, contrast agents, and occupational issues. This title is suitable for libraries supporting diagnostic medical sonography educational programs and may be useful for specialized collections in large hospitals or clinics.

*Journal of Medical Imaging and Radiation Sciences.* v. 39, Elsevier, 2008.

<http://www.jmirs.org/home>

<http://www.sciencedirect.com/science/journal/19398654>  
ISSN: 19398654

Indexed in: CINAHL

Recommended for: Hospital, Academic Libraries  
Brandon/Hill Selection

This journal, which began in 1943, has had several previous titles, most recently *Canadian Journal of Medical Radiation Technology*, ISSN 19872007. The former title appeared in the 2003 Brandon/Hill allied health list. This peer-reviewed publication is the official journal of the Canadian Association of Medical Radiation Technologists. According to the publisher, articles include "recent research, new technology and techniques, professional practices, as well as relevant book reviews." Most articles are practice oriented. The journal has limited indexing, currently indexed in Embase and CINAHL and formerly indexed in MEDLINE. It is suitable for large, specialized collections.

*Journal of Nuclear Medicine Technology.* v. 1, Society of Nuclear Medicine, 1973.

<http://tech.snmjournals.org/>

ISSN: 00914916

ISSN: 15355675 (Online)

Indexed in: MEDLINE, CINAHL

Recommended for: Hospital, Academic Libraries  
Brandon/Hill Selection

This quarterly, peer-reviewed journal was listed in the 2003 Brandon/Hill allied health list as an initial purchase title for the nuclear medicine technology category. It is indexed in CINAHL and MEDLINE. The journal includes practice-oriented articles for nuclear medicine technologists, who are allied health professionals trained in the technology of using radionuclides to diagnose and treat disease. Articles discuss "imaging and instrumentation, radiopharmacy, quality assurance, radiation safety, and more." Continuing education is a major focus. The technologist section of the Society of Nuclear Medicine publishes this journal, and Society members receive the

journal as a benefit. It is appropriate for large hospital and clinical libraries dealing with this specialized field and for libraries supporting educational programs in nuclear medicine technology. All journal articles are freely available on HighWire, the Society's host platform, after a twelve-month embargo period.

*Radiologic Technology.* v. 35, American Society of Radiologic Technologists, 1963.

<http://www.radiologictechnology.org/>

ISSN: 00338397

ISSN: 19435657 (Online)

Indexed in: MEDLINE, CINAHL

Recommended for: Hospital, Academic Libraries  
Brandon/Hill Selection

Originally titled *X-ray Technician*, this peer-reviewed, bimonthly publication is the largest and oldest journal for radiologic technologists. It is indexed by CINAHL, Scopus, and MEDLINE. It was also a 2003 Brandon/Hill allied health, initial purchase recommendation. It is published by the American Society of Radiologic Technologists, and members have free access to the online journal. *Radiologic Technology* "covers all disciplines and specialties within medical imaging, including radiography, mammography, computed tomography, magnetic resonance imaging, nuclear medicine imaging, sonography, and cardiovascular-interventional radiography." The journal includes a variety of research, teaching, and practice-oriented articles, along with CE and book and literature reviews. This publication is probably the top journal devoted specifically to radiologic technology, but research has shown that authors in this field make extensive use of the literature of radiology and other areas of clinical medicine. In a study of citation patterns in three radiologic technology journals, *Radiologic Technology* was the sixth most frequently cited title. The top five journals focused on clinical medicine: *Radiology*, *AJR*, *Journal of Nuclear Medicine*, *Journal of Computer Assisted Tomography*, and *AJNR*. (Burnham J. *Bull Med Lib Assoc* 1997; 85(3):289-292). The publication would be useful for libraries supporting radiologic technology and for large hospital and clinical libraries.

*Radiology Today.* v. 1, Great Valley, 2000.

<http://www.radiologytoday.net>

ISSN: 15390101

Recommended for: Hospital, Academic Libraries

*Radiology Today* is a free, current awareness magazine for radiologists and radiologic technologists. It includes practice-oriented articles, news, jobs, meetings, a vendors' guide, podcasts, and a blog. It contains newsworthy

information for libraries serving students or clinicians in the imaging professions, especially those with limited resources.

## 1.7. Respiratory Therapy

*Care of patients with deficiencies and abnormalities associated with the cardiopulmonary system. It includes the therapeutic use of medical gases and their administrative apparatus, environmental control systems, humidification, aerosols, ventilatory support, bronchopulmonary drainage and exercise, respiratory rehabilitation, assistance with cardiopulmonary resuscitation, and maintenance of natural, artificial, and mechanical airways.*

—MeSH

Contributor: Lisa Huang

### Monographs

*Cardiopulmonary Anatomy & Physiology: Essentials for Respiratory Care.* 5th ed. Author: Terry R. Des Jardins. Thomson Delmar Learning, 2008.

<http://www.r2library.com/>

ISBN: 9781418042783

Recommended for: Academic Libraries

Brandon/Hill, *Doody's Core Titles* Selection

This updated Brandon/Hill allied health title and *Doody's Core Titles* selection is by a well-recognized expert in the field. Des Jardins succinctly guides the student through the structure and functions of the respiratory system. The new edition is well organized and accessible to its intended audience, respiratory therapy students. It is organized into three sections: cardiopulmonary system; advanced cardiopulmonary essentials; and the cardiopulmonary system during unusual environmental conditions. Each chapter is concisely laid out with objectives, new terms, a summary with review questions at the end as well as numerous illustrations, tables, and graphs. This new edition includes over 70 new and revised illustrations; a new chapter on sleep physiology; restructured chapters on oxygen transport, carbon dioxide transport, and acid-base balance; as well as expanded clinical scenarios. Of special interest to students is the StudyWare software on the accompanying CD-ROM, which includes case studies, quizzes, and learning games to facilitate learning. This book is highly recommended for academic institutions supporting respiratory therapy students, practitioners, and educators.

*Clinical Application of Mechanical Ventilation.* 3rd ed. Author: David W. Chang. Thomson Delmar Learning, 2006.

ISBN: 9781401884857

Recommended for: Academic Libraries

*Doody's Core Titles* Selection

A *Doody's Core Titles* selection, Chang's textbook integrates the essential concepts of respiratory physiology with the clinical application of mechanical ventilation. Chang provides the latest updates on innovations, changing techniques, and clinical applications of mechanical ventilation, airways, airway management, and hemodynamic monitoring. The book covers airway management and weaning criteria as well as pharmacotherapy for mechanical ventilation. The chapters are well laid out with visual examples, key points and terms, and assessment questions in NBRC format for future exams. The last chapter contains 15 case studies for students to exercise real-world critical situations. The appendixes nicely supplement the textbook; students will find the respiratory care calculations, pressure conversions, and hemodynamic and oxygen transport ranges to be quite helpful. The book's main strength is Chang's comprehensiveness in covering all aspects of mechanical ventilation. This authoritative title is highly recommended as a required resource for academic institutions supporting respiratory therapy students, practitioners, and educators.

*Clinical Assessment in Respiratory Care.* 6th ed. Editors: Robert L. Wilkins, James R. Dexter, Albert J. Heuer. Mosby Elsevier, 2010.

ISBN: 9781416059233

Recommended for: Academic Libraries

Brandon/Hill, *Doody's Core Titles* Selection

Now in its sixth edition, this is "the" book for respiratory care assessment. In fact, it is the only respiratory care textbook devoted exclusively to patient assessment. This comprehensive title covers the gamut of assessment from the detailed Chapter 1, "Preparing for the Patient Encounter" to "Documentation" with a streamlined learning format and useful "Ask About" questions. The sixth edition includes a new chapter on neurological assessment and procedure checklists for common assessment procedures in the appendix. Expanded content for individual purchasers is on the Evolve website, including the new *NBRC Exam Matrix Correlation Guide* to help students pass the CRT exam and additional case studies. This book is a Brandon/Hill allied health title selection and is highly recommended for academic institutions supporting respiratory therapy students, practitioners, and educators.