

Mosbys Respiratory Care Equipment By J M Cairo

The Ultimate Review Guide for the CRT, RRT, and CSE Exams! Continuous Up-to-date NBRC Examination Guidelines and Correlations on Companion Website Comprehensive Respiratory Therapy Exam Preparation Guide, Second Edition is a comprehensive study guide for respiratory therapy students and graduates of accredited respiratory therapy education programs who are seeking to take the Certified Respiratory Therapist (CRT) or Registered Respiratory Therapist (RRT) credentialing exams from the National Board for Respiratory Care (NBRC). Comprehensive Respiratory Therapy Exam Preparation Guide, Second Edition is reflective of the current CRT, RRT, and CSE exam matrix and authored by experts who take the credentialing exam annually, so you can be confident that the content and format of this guide is current! Important Notice: The digital edition of this book is missing some of the images or content found in the physical edition.

Review of body system basics and disease processes in each chapter provides concise information to help you better manage patients in a hospital setting. Familiarizes you with the acute care environment by explaining medical terminology, hospital protocol, and surgical workups. Includes updated information on medications, laboratory and diagnostic tests, and surgical and invasive procedures pertinent to physical therapy practice. Clinical tips throughout the text show you how to maximize safety, quality, and efficiency of care. Over 350 illustrations, tables, and boxed text highlight essential concepts and procedures for quick reference. Uses terminology consistent with the Guide to Physical Therapist Practice, Second Edition. Focuses on evidence-based practice to help you determine the best interventions including recent literature regarding rehabilitation in the critical care setting. NEW! Pertinent practice patterns from the Guide to Physical Therapist Practice, Second Edition are included in each chapter. NEW! Additional illustrations to improve comprehension of the material. NEW! More pharmacologic implications for physical therapists, specifically concerning side effects and use of combination drugs. NEW! Additional decision-making algorithms facilitate critical thinking in the clinical setting. NEW! Updated surgical and invasive procedures include minimally invasive orthopedic surgery, bariatric procedures, and complete insight into circulatory assist devices. NEW! Expanded neurological chapter including vestibular dysfunction tests and measures, a discussion of dementia, and the latest in stroke evaluation and management. NEW! Revised appendices discuss the latest concepts in documentation standards, palliative care, and patient safety. NEW! Slimmer, larger format allows the book to lie open for easier reading. NEW! Improved design highlighting clinical tips and other key features lets you locate important information quickly in a busy clinical setting.

Rely on this best-selling laboratory manual to provide the hands-on practice you need to confidently perform the most common to complex respiratory procedures for class and clinical. Step-by-step instructions with detailed diagrams and illustrations seamlessly guide you through every procedure. Completely revised and updated, the 3rd Edition reflects the latest technologies and standards of care, including the most current respiratory equipment.

"RESPIRATORY CARE OVERVIEW--Respiratory therapists, also known as Respiratory Care Practitioners, play an integral role in the care of patients with cardiopulmonary disorders such as: Asthma, Emphysema, Bronchitis, & Lung Cancer. Respiratory therapists evaluate and treat all types of patients, ranging from premature infants whose lungs are not fully developed to elderly people whose lungs are diseased. Respiratory therapists provide temporary relief to patients with chronic asthma or emphysema, as well as emergency care to patients who are victims of a heart attack, stroke, drowning, smoke inhalation and/or severe burns, or shock. RTs work under the supervision of a physician to provide many therapeutic and diagnostic procedures and make recommendations based on these responses. They must also communicate with other members of the health care team, such as nurses and doctors, in order to follow the progress of patients and make the modifications to treatments as necessary"--

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Master the equipment, devices, and techniques used in respiratory therapy! Mosby's Respiratory Care Equipment, 11th Edition provides a comprehensive guide to treating patients with cardiopulmonary dysfunction. Using a how-to approach, this text helps you learn to identify and select equipment, understand its operation, and apply your knowledge to clinical practice. It also discusses assessment, testing, protocols, and troubleshooting of the devices used in airway management. Written by noted educator J. M. Cairo and a team of expert contributors, this leading text provides the skills that will help you breathe easier as you prepare for NBRC examinations. Unique! Clinical approach provides a "how to" approach to identifying equipment, understanding how it works, and applying the information in clinical practice. Unique! Organization of ventilators by application area and manufacturer makes it easier to learn, review, and locate ventilator information. Unique! Infection Control chapter reviews microbiology and infection control, a topic that RTs must understand to prevent healthcare-associated infections, and discusses infection control in mass casualty situations. Unique! Clinical Scenario boxes address problems that may be encountered during actual use of equipment and raise clinically relevant questions, with suggested answers on the Evolve companion website. Learning features include chapter outlines, learning objectives, key terms, chapter introductions, and bulleted key point summaries to identify and reinforce the most important material in each chapter. Chapter review questions at the end of every chapter reinforce your comprehension, using NBRC-style multiple-choice or critical-thinking questions to match the types of questions covered on the NBRC exams. Unique! Historical Notes boxes highlight clinically relevant and valuable historical information on respiratory care

equipment. Excerpts of Clinical Practice Guidelines (CPGs), statements of care developed by the AARC, provide important information regarding indications/contraindications, hazards and complications, assessment of need, assessment of outcome, and monitoring. Glossary of key terms is listed in the back of the book for quick reference. NEW! Updated clinical scenarios are added throughout the text, which incorporate clinical practice guidelines (AARC, AECC, CCM) and reflect NBRC exam outlines. NEW! Updated end-of-chapter questions include additional clinical data, which also incorporate clinical practice guidelines (AARC, AECC, CCM) and reflect NBRC exam outlines. NEW! Coverage of infant and pediatric ventilators is now included in the Mechanical Ventilators: General Use Devices chapter. NEW! Updated Transport, Home Care, and Noninvasive Devices chapter includes the use of mechanical ventilators in alternative sites, e.g., air transport and long-term acute care (LTAC) facilities.

The most clinically relevant respiratory care equipment textbook on the market, Mosby's Respiratory Care Equipment, 10th Edition employs a "how-to" approach that moves beyond technical descriptions of machinery. Learn to identify equipment, understand how it works, and apply your knowledge to clinical practice with this comprehensive overview of the equipment and techniques used by respiratory therapists to treat cardiopulmonary dysfunction. The 10th edition includes updated information on the latest devices and equipment, which are divided into clearly defined sections including: ventilators, transport, home-care, neonatal and pediatric ventilators, and alternative ventilators. In addition, there's a focus on specific ventilator characteristics such as mode, monitors and displays, alarms and indicators, graphics, special features, and troubleshooting for lesser-used ventilators. UNIQUE! Clinical Approach provides you with a "how-to" guide to identifying equipment, understanding how it works, and applying the information in clinical practice. UNIQUE! List of Ventilators organized by application area and manufacturer make review and research quick and easy. NBRC-style Self-Assessment Questions at the end of every chapter prepares you for credentialing exams. UNIQUE! Infection Control chapter provides a review of this critical topic that RTs must understand to prevent healthcare-associated infections. Excerpts of Clinical Practice Guidelines (CPGs) give you important information regarding indications/contraindications, hazards and complications, assessment of need, assessment of outcome, and monitoring. Pedagogy includes chapter outlines, learning objectives, key terms, chapter introductions, and bulleted key point summaries to reinforce material and help you to identify relevant content. UNIQUE! Clinical Scenario boxes (formerly Clinical Rounds) allow you to apply material you've learned to a clinical setting. UNIQUE! Historical Notes boxes present educational and/or clinically relevant and valuable historical information of respiratory care equipment. NEW! Thoroughly updated content reflects changes in the NBRC exam. NEW! Updated images and full-color design enhances your understanding of key concepts. NEW! Streamlined device coverage features the basics of the most widely used devices in a clearly segmented and bulleted format for easy access to this key information. NEW! Content on the latest devices and equipment includes: ventilators, transport, home-care, neonatal and pediatric ventilators, and alternative ventilators.

Take your understanding to a whole new level with Pageburst digital books on VitalSource! Easy-to-use, interactive features let you make highlights, share notes, run instant topic searches, and so much more. Best of all, with Pageburst, you get flexible online, offline, and mobile access to all your digital books. A comprehensive overview of the equipment and techniques used by respiratory therapists to treat cardiopulmonary dysfunction, Mosby's Respiratory Care Equipment, 9th edition provides a "how-to" approach that moves beyond technical descriptions of machinery. Learn to identify equipment, understand how it works, and apply your knowledge to clinical practice. The 9th edition includes streamlined information on the latest ventilators, a new chapter on simulation learning devices, and additional, easy-to-access content on the Evolve site. Unique! List of Ventilators organized by application area and manufacturer make review and research quick and easy. Unique! Clinical Approach provides you with a "how-to" approach to identifying equipment, understanding how it works, and applying the information in clinical practice. Excerpts of Clinical Practice Guidelines (CPGs) give you important information regarding indications/contraindications, hazards and complications, assessment of need, assessment of outcome, and monitoring. Unique! Sleep Diagnostics chapter discusses sleep and the impact of sleep disorders on cardiopulmonary function. Unique! Infection Control chapter provides a review of this critical topic that RTs must understand to prevent health care-associated infections Unique! Cardiovascular Diagnostics chapter provides a review in an area where RTs are treating an increasing number of cardiovascular cases. NBRC-style Self-Assessment Questions at the end of every chapter prepares you for credentialing exams. Unique! Clinical Scenario boxes (formerly Clinical Rounds) allow you to apply material learned to a clinical setting. Unique! Historical Notes boxes present educational and/or clinically relevant and valuable historical information of respiratory care equipment. NEW! Chapter on Simulation Learning Devices prepares you for the latest simulation devices. NEW! Streamlined ventilator coverage presents information on the most often-used devices with more tables and bulleted lists for easy reference. NEW! Content focused on the newest and the most popular types of ventilators, including, transport, home-care, alternative setting, and neonatal/pediatric. NEW! Evolve site allows access to information that isn't easily found in other texts or manuals, including older or outdated ventilators that are still in use today. NEW! Focus to align Learning Objectives, Key Points and Assessment Questions

A new edition of the classic text, Respiratory Care: Principles and Practice, Second Edition is a truly authoritative text for respiratory care students who desire a complete and up to date exploration of the technical and professional aspects of respiratory care. With foundations in evidence-based practice, this essential text reviews respiratory assessment, respiratory therapeutics, respiratory diseases, basic sciences and their application to respiratory care, the respiratory care profession, and much more. Important Notice: The digital edition of this book is missing some of the images or content found in the physical edition.

This is a Pageburst digital textbook; Stay ahead of the curve with the most clinically relevant equipment text on the market, now updated with the latest equipment and most in-depth information. You'll appreciate the thorough and systematic coverage of equipment used by respiratory therapists in all areas of practice including neonates and pediatrics,

cardiovascular diagnostics, and the growing field of sleep medicine. Chapters combine theory with the latest advances in new devices and techniques, computer-assisted technologies, pharmacological agents, and clinical practice guidelines. Unlike other texts, Mosby's Respiratory Care Equipment explains the mechanics of the equipment while maintaining a focus on the clinical applications. Instead of just reading a technical description of ventilators you'll learn how to select modes, set parameters, monitor the equipment, and respond to alarms. This "how to?" approach prepares you to work with the entire spectrum of equipment. UNIQUE! Clinical "how to?" approach helps you identify equipment, understand how it works, and apply the information to clinical practice. UNIQUE! Organization of ventilators by application area rather than by manufacturer further emphasizes the clinical focus. UNIQUE! Clinical Rounds boxes introduce you to problems you may encounter when using the equipment in a clinical setting. Chapter assessment questions in NBRC-style multiple-choice and critical-thinking format prepare you for what you'll encounter on board exams. UNIQUE! Historical Notes give you valuable information about the history of respiratory care equipment. UNIQUE! Sleep Diagnostics chapter discusses the impact of sleep disorders on cardiopulmonary function and familiarizes you with polysomnography. UNIQUE! Cardiovascular diagnostics are covered in a chapter devoted exclusively to appropriate use of electrocardiography and hemodynamic monitoring. EVOLVE site for students discusses additional ventilators; instructor resources include an image collection, test bank, Instructor Manual, and PowerPoint presentations. UNIQUE! Two-color design is visually appealing and highlights special features throughout the book. NBRC Clinical Practice Guideline excerpts give you important information on indications/contraindications, hazards and complications, assessment, and monitoring. Internet resources in each chapter lead you to more information on respiratory care organizations and equipment manufacturers. Glossary provides definitions of key terms. NEW content on the latest general use devices; transport, home-care, and alternative ventilators; and neonatal and pediatric ventilators UNIQUE! Chapter on infection control has been updated to cover the role of infection control issues in mass casualty situations. Bulleted key point summaries in each chapter offer a new means of reinforcing your retention of the material, along with chapter outlines, learning objectives, and key terms. NEW Student Workbook available separately

A comprehensive overview of the equipment and techniques used by respiratory therapists to treat cardiopulmonary dysfunction, Mosby's Respiratory Care Equipment, 9th edition provides a "how-to" approach that moves beyond technical descriptions of machinery. Learn to identify equipment, understand how it works, and apply your knowledge to clinical practice. The 9th edition includes streamlined information on the latest ventilators, a new chapter on simulation learning devices, and additional, easy-to-access content on the Evolve site. Unique! List of Ventilators organized by application area and manufacturer make review and research quick and easy. Unique! Clinical Approach provides you with a "how-to" approach to identifying equipment, understanding how it works, and applying the information in clinical practice. Excerpts of Clinical Practice Guidelines (CPGs) give you important information regarding indications/contraindications, hazards and complications, assessment of need, assessment of outcome, and monitoring. Unique! Sleep Diagnostics chapter discusses sleep and the impact of sleep disorders on cardiopulmonary function. Unique! Infection Control chapter provides a review of this critical topic that RTs must understand to prevent health care-associated infections Unique! Cardiovascular Diagnostics chapter provides a review in an area where RTs are treating an increasing number of cardiovascular cases. NBRC-style Self-Assessment Questions at the end of every chapter prepares you for credentialing exams. Unique! Clinical Scenario boxes (formerly Clinical Rounds) allow you to apply material learned to a clinical setting. Unique! Historical Notes boxes present educational and/or clinically relevant and valuable historical information of respiratory care equipment. NEW! Streamlined ventilator coverage presents information on the most often-used devices with more tables and bulleted lists for easy reference. NEW! Content focused on the newest and the most popular types of ventilators, including, transport, home-care, alternative setting, and neonatal/pediatric. NEW! Evolve site allows access to information that isn't easily found in other texts or manuals, including older or outdated ventilators that are still in use today. NEW! Focus to align Learning Objectives, Key Points and Assessment Questions

Learn everything you need to safely and compassionately care for patients requiring ventilator support with Pilbeam's Mechanical Ventilation: Physiological and Clinical Applications, 6th Edition. Known for its simple explanations and in-depth coverage of patient-ventilator management, this evidence-based text walks readers through the most fundamental and advanced concepts surrounding mechanical ventilation and guides them in properly applying these principles to patient care. This new edition features a completely revised chapter on ventilator graphics, additional case studies and clinical scenarios, plus all the reader-friendly features that promote critical thinking and clinical application - like key points, AARC clinical practice guidelines, and critical care concepts - that have helped make this text a household name among respiratory care professionals. UNIQUE! Chapter on ventilator associated pneumonia provides in-depth, comprehensive coverage of this challenging issue. Brief patient case studies list important assessment data and pose a critical thinking question to readers. Critical Care Concepts are presented in short questions to engage readers in applying knowledge to difficult concepts. Clinical scenarios cover patient presentation, assessment data, and treatment options to acquaint readers with different clinical situations. NBRC exam-style assessment questions at the end of each chapter offer practice for the certification exam. Key Point boxes highlight need-to-know information. Logical chapter sequence builds on previously learned concepts and information. Bulleted end-of-chapter summaries help readers to review and assess their comprehension. Excerpts of Clinical Practice Guidelines developed by the AARC (American Association for Respiratory Care) make it easy to access important information regarding indications/contraindications, hazards and complications, assessment of need, assessment of outcome, and monitoring. Chapter outlines show the big picture of each chapter's content. Glossary of mechanical ventilation terminology includes definitions to highlighted key terms in each chapter. NEW! Completely revised chapter on ventilator graphics offers a more practical explanation

of ventilator graphics and what readers need to know when looking at abnormal graphics. NEW! Additional case studies and clinical scenarios cover real-life scenarios that highlight the current trends in pathologies in respiratory care.

Prepare yourself for success in the classroom and the clinical setting with the Workbook for Mosby's Respiratory Care Equipment, 9th Edition. This versatile workbook is specifically designed to clearly and concisely reinforce the most clinically relevant information presented in the text. Featuring a wide variety of exercises ranging from crosswords and case studies to NBRC-style multiple-choice questions, this workbook will provide focus and improve your study time. Matching, labeling, short answer, crosswords, calculations, and case study exercises reinforce the most clinically relevant information in the textbook. The wide variety of exercises gives you several ways to assess your knowledge and identify the areas where more practice is needed. Critical thinking questions help you apply and analyze content learned from the text. NBRC-style questions prepare you for what you will encounter when taking the NBRC credentialing exam. Learning objectives reflect the same objectives from the textbook and reinforce the basic concepts to be learned from each chapter. NEW! Additional exercises further prepare you for the NBRC credentialing exam.

To an unusual degree, the shared "working space" of otolaryngologists and anesthesiologists means that issues important to one are important to the other. Anesthesiology and Otolaryngology is the first book to address the closely overlapping information needs of both groups of specialists. It is collaboratively written and edited by anesthesiologists and otolaryngologists, and the chapters are carefully designed to insure maximal relevance to members of both specialties. The heart of the book consists of chapters on managing patients during the full range of otolaryngologic procedures. These chapters are structured chronologically, and otolaryngologic and anesthesiologic perspectives are systematically presented for each operative stage. Foundational topics such as gross and radiographic anatomy, physiology, and pharmacology are covered. The book includes a unique chapter on oxygen delivery systems that serves as a comprehensive review for anesthesiologists and an overview for the otolaryngologist. Special topics addressed include acute and chronic pain management, and the logistics of managing an office-based surgical practice. · "All-in-one" reference for otolaryngologists and otolaryngologic anesthesiologists · Surgical and anesthesiologic perspectives marshaled for pre-operative, intraoperative, and postoperative periods · Pearls and Insights at end of chapters · Organized by surgical region · Special challenges of difficult airway and of pediatric otolaryngologic procedures addressed

The leading resource for more than two decades, this new edition of MOSBY'S RESPIRATORY CARE EQUIPMENT (formerly authored by Stephen P. McPherson) features a new, in-depth clinically oriented focus with thorough explanations of how equipment is used by respiratory care practitioners. New chapters include noninvasive assessment of physiologic functioning, blood gas analysis, principles of infection control, and sleep diagnostics. In addition, new content covers incentive spirometry, IPPB devices, and chest physiotherapy. Features like the "how-to" focus of the mechanical ventilator discussion, Clinical Practical Guideline excerpts, Decision Making and Problem Solving boxes, and internet resources set this book apart from the rest. The new art, a new focus, new features and a new author team make this the most sought-after edition ever! * Over 650 (300 new) line drawings and photographs to help students learn faster and easier. Full-page line drawings of ventilator control panels allow for easy identification of controls. * Review questions at the end of each chapter include multiple-choice questions modeled after those on the NBRC exam as well as critical-thinking questions to prepare the student to practice as a Respiratory Therapist. * All key terms are listed in a glossary at the end of the book to help students learn easier.

Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9780323051767 .

Find critical respiratory care information fast! Comprehensive and precise, this portable guide provides rapid access to vital respiratory procedures, facts, and formulas with an emphasis on critical care. It fits easily into your pocket, and the spiral binding allows it to lie flat on any given page. Whether you use it as a clinical resource, a study tool, or a quick refresher, this full-color resource offers quick access to just the right amount of practical, must-know information – essential for boosting your confidence at the point of care. A quick-reference format provides all of the key information you need with fast-access to respiratory care guidelines, including assessment, arterial blood gases, EKGs, medications, and PFTs. You'll also find essential information on pulmonary diseases, equipment disinfection, and neonatal and pediatric care. Waterproof and stain-resistant pages keep your PDQ reference guide performing like new in any clinical setting. Color coded tabs feature a table of contents with page references, making it easy to quickly locate key information within each section. Full color design includes illustrations and clarifies important facts to help you easily find what you need. Commonly used and updated clinical information, including tables, formulas, equations, algorithms, and lab values – all necessary to deliver safe and efficient care. AARC Clinical Practice Guidelines content has been redesigned into easy-to-use, compact algorithms. The latest asthma guidelines Increased coverage of neonatal and pediatric care Expanded BLS and ACLS protocols; updated medications, therapies, and therapeutic devices; and updated ventilator modes More formulas and facts than in the previous edition

Now in its 6th edition, the best-selling text, CARDIOPULMONARY ANATOMY & PHYSIOLOGY, equips students with a rock-solid foundation in anatomy and physiology to help prepare them for careers as respiratory therapists. Extremely reader friendly, this proven, innovative text delivers the most complete and accurate information about the structure and function of the respiratory system in an approachable manner. Clear and concise, it presents complicated concepts in an easy-to-read, understandable format utilizing a full color design and strong pedagogy, so that students can readily apply what they learn when they graduate and start their professional careers. Newly integrated throughout the

providing content review, self-assessment questions, and study hints. This title includes additional digital media when purchased in print format. For this digital book edition, media content is not included. Unique! Exam Hint boxes point out subjects that are frequently tested, helping you study, plan your time, and improve your test-taking skills. Self-study questions are included at the end of each chapter, accompanied by answers and rationales in the back of the book. Complexity level codes (recall, application, and analysis) help you prepare for questions in the way that is most appropriate (e.g., memorization for recall or synthesis for analysis). NBRC content outline coding provides a code for each topic so you can be sure that you have covered every topic that might appear on the exam. CRT and RRT level codes speed your review by identifying the individual topics for the CRT and RRT exams, as well as topics for both. One text now covers both the entry and advanced levels of Respiratory Therapists credentialing exams, so you need only one book to prepare for CRT and RRT credentials. Updated content reflects the NBRC's new examination content outlines, so you get an accurate, current review. New coverage includes subject areas such as CPAP/BiPAP titration during sleep, hemodynamic monitoring, hyperinflation therapy, laryngeal mask airway, high frequency ventilation, oxygen titration, thoracentesis, ultrasound, and ventilator-associated pneumonia protocols.

Never HIGHLIGHT a Book Again Virtually all testable terms, concepts, persons, places, and events are included. Cram101 Textbook Outlines gives all of the outlines, highlights, notes for your textbook with optional online practice tests. Only Cram101 Outlines are Textbook Specific. Cram101 is NOT the Textbook. Accompanys: 9780521673761 Equipment For Respiratory Care is changing the paradigm of historic respiratory care equipment books. Focusing on the principles of the equipment and then concluding with in-depth discussion and practical solutions to complex problems, this focus on the clinical application of patient care enhances key critical thinking skills with clear explanations of the features of the equipment as well as the way it functions. New Approach - Emphasis on clinical application rather than engineering technical detail to drive critical thinking Provides students with the tools to approach equipment troubleshooting rather than have to rely on textbook algorithms Includes case-based critical thinking modules provide the opportunity to develop decision making skills Provides an easy to use, logical approach to tackling clinical or patient and technical problems Helps students select equipment among similar technologies for the equipment most appropriate for patient need Includes illustrations from the Find out how and what to review for the all-new 2015 National Board of Respiratory Care (NBRC) Exam with The Comprehensive Respiratory Therapist's Exam Review, 6th Edition. It covers every topic in the NBRC Detailed Content Outline, providing study hints, in-depth content review, and self-assessment questions with rationales so you retain more information. Sills' latest review also offers students and practicing respiratory therapists realistic experience with the new Therapist Multiple Choice Exam (TM-CE) through a 140-question TM-CE practice test on its accompanying Evolve website. Self-study questions at the end of each chapter include an answer key with rationales to help you analyze your strengths and weaknesses in content learned. UNIQUE! Exam Hint boxes point out point out subjects that are frequently tested, helping you study, plan your time, and improve your test-taking skills. Rationales for each question provide feedback for correct and incorrect answers so you understand why an answer is correct or incorrect and retain information better. Difficulty level codes (recall, application, analysis) for each question on Evolve help you prepare for questions in the way that is most appropriate (e.g., memorization for recall or synthesis for analysis). Special NBRC coding of topics corresponds to every topic covered in the NBRC Detailed Content Outline (DCO) so you can easily review each of the testable topics. Secure Evolve website lets you experience the actual NBRC testing environment in a computerized format. NEW! Therapist Multiple Choice Exam (TM-CE) practice test aligns with the new 2015 NBRC Written Exam. UPDATED! Revised content reflects the 2015 NBRC Detailed Content Outline and examination matrix so you know exactly what to expect on the exams - and can review each of the areas covered on the matrix. NEW! More analysis-type questions added to the end-of-chapter self-study questions reflect changes in the matrix content outlines. NEW! Greater consistency in formulas, abbreviations, and equations achieved through aligning the text and Evolve site to comprehensive Abbreviation and Equation Glossaries. EXPANDED! 22 clinical simulations feature shortened sections and align with the new 2015 NBRC Clinical Simulation Exam in both study mode and exam mode, giving you the opportunity to practice this difficult portion of the Registry Exam on Evolve. NEW! Standard Normal Range Guide features reference tables with normal values of various parameters used in respiratory care assessment. EXPANDED! New practice exams on Evolve, including one 140-question TM-CE with automatic scoring to delineate entry and advanced credentialing levels, let you assess your understanding in both study (untimed) and exam (timed) modes.

Improve your understanding of the cardiopulmonary system with Essentials of Cardiopulmonary Physical Therapy, 4th Edition. Based on best practices prescribed in The Guide to Physical Therapist Practice, this new edition provides comprehensive coverage of anatomy, physiology, and cardiopulmonary assessment, along with expanded chapters on the growing topics of early mobilization of the ICU patient and acute care management. Using a practical approach, expert author Ellen Hillegass also discusses pathophysiology, pharmacology, and interventions in the outpatient setting. Evidence-based content reflects the latest research in the field and incorporates the use of ICF. Material uses best practices defined by the American Physical Therapy Association. Clinical tips give you real-world hints and suggestions from practicing clinicians. NEW! Expanded chapters cover early mobilization of the ICU patient and acute care management. NEW! Updated references emphasize evidence-based information from the text. NEW! Full-color printing enhances text.

A comprehensive text on respiratory care for neonates, infants, and children, Neonatal and Pediatric Respiratory Care, 4th Edition provides a solid foundation in the assessment and treatment of respiratory care disorders. Clear, full-color coverage emphasizes clinical application of the principles of neonatal/pediatric respiratory care. New to this edition is

coverage of the latest advances in clinical practice, a chapter devoted to quality and safety, and summary boxes discussing real-world clinical scenarios. From author Brian Walsh, an experienced educator and respiratory therapist, this text is an excellent study tool for the NBRC's Neonatal/Pediatric Specialty exam! A comprehensive, evidence-based approach covers all of the major topics of respiratory care for neonates, infants, and children, including both theory and application. Case studies help you master the more difficult areas of care for neonatal and pediatric disorders. Logical, streamlined organization makes it easier for students to master the material and prepare for an entry-level BS degree and the national Neonatal/Pediatric Specialty credentialing exam. Learning objectives at the beginning of each chapter highlight the "take-aways" by breaking down key content into measurable behaviors, criteria, and conditions. Complete test preparation is provided through coverage of all the content in the matrix for the NPS exam. NBRC exam-style assessment questions test your comprehension of the material in each chapter. Answers to assessment and case study questions are provided on the Evolve companion website. New Quality and Safety chapter addresses quality care for the neonatal/pediatric patient. New Clinical Highlights boxes discuss realistic scenarios to help you apply your knowledge to clinical practice. UPDATED! Over 400 full-color illustrations — plus clear tables and graphs— make it easier to visualize key concepts. New! Key point summary at end of each chapter highlights essential content in a bulleted format. New! Glossary provides easy access to key terms and their definitions. New! Key terms at the beginning of each chapter highlight important terminology.

The new edition of this essential resource covers core areas of respiratory care in a convenient outline format that makes it a great quick-reference guide, a handy review tool for credentialing examinations, and a comprehensive reference guide for clinical practice. Key topics include basic science; anatomy and physiology of the respiratory, cardiovascular, renal, and neurological systems; and therapeutic aspects of neonatal, pediatric, and adult respiratory care. Also features extensive coverage of pharmacology and infection control. The convenient outline format breaks information down into manageable bits of information that make it ideal for study, review, and quick reference. The comprehensive coverage of key topics - from introductory material through therapeutic care - consolidates the full spectrum of respiratory care into one essential resource. Completely updated to reflect the significant advancements in the field of respiratory care. Reflects the required core content of the most recent National Board for Respiratory Care (NBRC) examination matrix, ensuring the most up-to-date competency requirements for certification. Features new chapters on ventilatory management for obstructive pulmonary disease, adult respiratory distress syndrome, NIPPV, tracheal gas insufflation, prone positioning, and liquid ventilation. A redesigned format provides easier navigation through the text.

Reorganized to better reflect the order in which mechanical ventilation is typically taught, this text focuses on the management of patients who are receiving mechanical ventilatory support and provides clear discussion of mechanical ventilation and its application. The 4th edition features two-color illustrations, an increased focus on critical thinking, a continued emphasis on ventilator graphics, and several new chapters including non-invasive positive pressure ventilation and long-term ventilation. Excerpts of the most recent CPGs are included to give students important information regarding indications/contraindications, hazards and complications, assessment of need, assessment of outcome, and monitoring. Clinical Rounds boxes contain problems that may be encountered during actual use of equipment and raise questions for the student to answer. Case studies are included as boxes throughout the chapters within boxes and Clinical Rounds. Historical Notes provide educationally or clinically relevant information. Chapters featuring topics such as methods to improve ventilation, frequently used pharmacologic agents in ventilated patients, cardiovascular complications, pulmonary complications, noninvasive positive pressure ventilation, and long-term ventilation have been added. Key Point boxes have been placed sporadically throughout the chapters and highlight key information for the reader. Increased number of NBRC-type questions reflecting the types of questions and amount of coverage on the board exams. Respected educator J.M. Cairo has been added as co-author, bringing in a fresh voice and a wide breadth of experience. A reorganization of chapters creates a text that is more in line with the way the course is typically taught. All chapters have been heavily revised and updated, particularly the chapters on ventilator graphics, methods to improve oxygenation, and neonatal and pediatric ventilation. A second color has been added to enhance the overall design and line drawings. Key terms are listed at the beginning of each chapter and highlighted at first mention.

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