

# OXYGEN THERAPY PROTOCOL

MD order for Oxygen Therapy Protocol

## Evaluate indications:

- Room air  $\text{PaO}_2 < 60$  torr
- Room air  $\text{SaO}_2 < 90\%$
- Acute care situation where hypoxemia is suspected
- Severe trauma
- Acute MI
- Short-term therapy or surgical intervention

YES — Precautions and/or possible complications? — NO

Contact MD/RN

YES

## Does patient require oxygen for:

- Acute care situation where hypoxemia is suspected
- Severe trauma
- Acute MI
- Short-term therapy or surgical intervention

NO

Place pt on nasal cannula @ 2 lpm or oxygen device to keep  $\text{SaO}_2$  within physician-specific limits<sup>2</sup>

Discontinue per MD order

YES

Is the patient's  $\text{SaO}_2 > 90\%$  or ( $\text{PaO}_2 > 60$  mm Hg)<sup>1</sup>

NO

Decrease  $\text{FiO}_2$  in .05 increments until  $\text{FiO}_2 = 21$  while maintaining  $\text{SaO}_2 > 90\%$  or within physician-specific limits. ( $\text{PaO}_2 > 60$  mm Hg)

YES

Is the patient's  $\text{SaO}_2 > 90\%$  or within physician-specified limits? or ( $\text{PaO}_2 > 60$  mm Hg)<sup>2</sup>

NO

Discontinue  $\text{O}_2$ . document in patient's chart

Select oxygen delivery device. (See treatment selection box.) Increase  $\text{FiO}_2$  in .05 increments to achieve  $\text{SaO}_2 > 90\%$  or within physician-specified limits. ( $\text{PaO}_2 > 60$  mm Hg)<sup>2</sup>

If  $\text{FiO}_2$  requirement is greater than .60, inform MD/RN

YES

Is the patient's  $\text{SaO}_2 > 90\%$  or within physician-specified limits? or ( $\text{PaO}_2 > 60$  mm Hg)<sup>3</sup>

NO

Leave patient on indicated  $\text{FiO}_2$ . Document in patient's chart

Notify MD/RN

Re-evaluate patient Q 24 hours, and 24 hours after discontinued

If at any time patient demonstrates an increase in  $\text{O}_2$  requirement of  $> .20$  or 2 sequential increases within a 24-hour period after initial set up, notify MD/RN.

## Oxygen Therapy Selections Objective

To treat hypoxemia, decrease the work of breathing, and decrease myocardial work

## Common Treatment Modalities

- Nasal cannula
- Oxygen mask
- Venturi mask
- Partial rebreathing mask

<sup>1</sup> If ABG available, check correlation of  $\text{SpO}_2$  with ABG saturation.

<sup>2</sup> Oxygen therapy device should be appropriate for patient's pathophysiology.

<sup>3</sup> Acceptable  $\text{FiO}_2$  may vary with the clinical situation or physician.

# Respiratory Care Case Studies Therapist Driven Protocols

**Richard Bailey**



## **Respiratory Care Case Studies Therapist Driven Protocols:**

*Respiratory Care Case Studies* Des Jardins, Terry R. Des Jardins, George G. Burton, Judy Tietsort, 1997 Focusing on therapist driven protocols *Respiratory Care Case Studies* presents 29 realistic case studies that take the reader from patient presentation through case resolution It employs a formula approach to patient assessment that emphasizes SOAP Subjective Objective Assessment and Plan reasoning *Comprehensive Respiratory Therapy Exam Preparation Guide (book)* Craig L. Scanlan, Al Heuer, 2013-09-19 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 **Certified Respiratory Therapist Exam Review Guide** Albert Heuer, Louis Sinopoli, 2010-11-15 *Certified Respiratory Therapist Review Guide* is a comprehensive study guide for respiratory therapy students and graduates of accredited respiratory therapy education programs who are seeking to take the entry level Certified Respiratory Therapist CRT credentialing exam from the National Board for Respiratory Care NBRC This unique review guide devotes extensive coverage to two problematic areas for credentialing exam candidates which are not covered in any of the other texts 1 test taking skills and 2 key points to remember in taking the NBRC computerized exams Special emphasis is also given to material and subject areas which have proven to be especially challenging for exam candidates such as basic pulmonary function testing arterial blood gas ABGs interpretation monitoring critically ill ICU patients neonatal and pediatric care recommending modifications to therapy and more *Certified Respiratory Therapist Review Guide* is authored by experts who take the credentialing exam annually so you can be sure the content and format of this guide is current *Case Studies from the Quality Improvement Support System* David H. Gustafson, 1998-12 These case studies of continuous quality improvement CQI initiatives represents a compilation of key CQI features of practical value to people engaged in the delivery of health services Addresses acute chest pain management applications of pharmaceutical clinical algorithms used in conjunction with critical pathways asthma cardiac surgery carotid endarterectomy length of stay Caesarean section utilization chronic obstructive pulmonary disease improvement Coumadin management myocardial perfusion open heart DRG outcome pregnancy and parenting surgical preparedness and total hip replacement care *Egan's Fundamentals of Respiratory Care - E-Book* Robert M. Kacmarek, James K. Stoller, Al Heuer, 2016-02-05 Designed for optimal student learning for over 40 years

Egan's Fundamentals of Respiratory Care 11th Edition provides you with the strong background you need to succeed in the field of respiratory care. Nicknamed the Bible for respiratory care, it helps you gain a thorough understanding of the role of respiratory therapists, the scientific basis for treatment and clinical applications. Comprehensive chapters correlate to the most up-to-date 2015 NBRC Detailed Content Outline for the TM CE to successfully prepare you for clinical and credentialing exam success. Always in step with the ever-changing field of respiratory care, this easy-to-read new edition features five new chapters as well as new information on online charting systems, patient databases, research databases, meaningful use, simulation, and an expanded discussion of the electronic medical record system. User-friendly, full-color design calls attention to special features to enhance learning. Evolve learning resources include PowerPoint slides, Test Bank questions, an English-Spanish glossary, an image collection, a Body Spectrum Anatomy Coloring Book, and student lecture notes that enhance instructors' teaching and students' learning. Student Workbook reflects the text's updated content and serves as a practical study guide, offering numerous case studies, experiments, and hands-on activities. Therapist-Driven Protocols (TDPs) used by RTs in hospitals to assess a patient, initiate care, and evaluate outcomes are incorporated throughout the text to develop your critical thinking skills and teach the value of following an established protocol. Expert authorship from the leading figures in respiratory care ensures that critical content is covered thoroughly and accurately. Excerpts of 40 published Clinical Practice Guidelines provide you with important information regarding patient care, indications, contraindications, hazards, and complications, assessment of need, and assessment of outcome and monitoring. UNIQUE: Egan's trusted reputation as the preeminent fundamental respiratory care textbook for more than 40 years maintains its student focus and comprehensive coverage while keeping in step with the profession. Updated content reflects changes in the industry to ensure it is both current and clinically accurate and prepares you for a career as a respiratory therapist in today's health care environment. UNIQUE Mini Clinis give you an opportunity to apply text content to actual patient care through short critical thinking case scenarios. Mini Clinis can also be used as a point of focus in class discussion to strengthen students' critical thinking skills. UNIQUE Rules of Thumb highlight rules, formulas, and key points that are important to clinical practice. Bulleted learning objectives aligned with summary checklists to highlight key content at the beginning and at the end of each chapter paralleling the three areas tested on the 2015 NBRC Therapist Multiple Choice Examination: recall, analysis, and application.

Clinical Manifestations & Assessment of Respiratory Disease - E-Book Terry Des Jardins, George G. Burton, 2015-03-12  
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Scanlan,Robert L. Wilkins,James K. Stoller,1999 The 10th Edition of this text delivers a comprehensive introduction to the field of respiratory care including the latest advances and trends in professional practice today This new edition explains the role of respiratory therapists RTs scientific bases for treatment and clinical applications In depth discussions progress from the principles of respiratory care to applied anatomy and physiology patient assessment discussion of specific respiratory illnesses basic therapy acute and critical care and preventive and long term care For use in preparation for the NBRC examination From back cover **The Journal of Respiratory Diseases** ,1997 **Rogers' Handbook of Pediatric**

**Intensive Care** Donald H. Shaffner,2016-08-30 Portable and easy to use Rogers Handbook of Pediatric Intensive Care Fifth Edition contains key information from the best selling Rogers Textbook in a handy format designed for everyday use Nearly 100 chapters offer a clinically relevant synopsis of core information needed for quick reference and safe practice in the PICU

**Core Textbook of Respiratory Care Practice** Thomas A. Barnes,1994 Combining the expertise of 20 professionals this book pulls together principles of respiratory therapy places them in context of broader care concepts and should help students develop analytical problem solving skills **Critical Care Medicine** Michael James Murray,2002 This

authoritative reference published under the auspices of the American Society of Critical Care Anesthesiologists ASCCA is now in its Second Edition More than 100 internationally recognized experts present state of the art strategies for successful cost effective perioperative care and management of acutely ill patients This thoroughly revised edition features many distinguished new contributors from anesthesiology critical care medicine internal medicine surgery and pediatrics Timely new chapters cover medical informatics evidence based medicine human genomics research in critical care medicine and imaging in the ICU Chapters on acute respiratory distress syndrome sepsis and other diseases have been rewritten to reflect recent technological and therapeutic breakthroughs Cognitive Informatics in Health and Biomedicine Vimla L.

Patel,David R. Kaufman,Trevor Cohen,2013-11-26 Enormous advances in information technology have permeated essentially all facets of life in the past two decades Formidable challenges remain in fostering tools that enhance productivity but are sensitive to work practices Cognitive Informatics CI is the multidisciplinary study of cognition information and computational sciences that investigates all facets of human computing including design and computer mediated intelligent action thus is strongly grounded in methods and theories from cognitive science As an applied discipline it has a close affiliation with human factors and human computer interaction and provides a framework for the analysis and modeling of complex human

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**Wilkins' Clinical Assessment in Respiratory Care - E-Book**

Albert J. Heuer, 2013-03-29 Master the patient assessment skills you need to provide effective respiratory therapy Wilkins Clinical Assessment in Respiratory Care 7th Edition prepares you to assist physicians as they make treatment decisions evaluate the effectiveness of treatment and determine if changes in the treatment need to be made This edition expands coverage of infection control and cardiopulmonary symptoms and follows a more logical progression through the many aspects of assessment Written by Dr Albert Heuer and Dr Craig Scanlan this comprehensive resource also helps you prepare for the NBRC CRT and RRT credentialing exams by cross referencing material within the book to the NBRC exam matrices A comprehensive approach covers all of the most important aspects of assessment so you can assess patients effectively Case studies offer real life clinical scenarios challenging you to interpret data and make accurate patient assessments Assessment questions help you review by reflecting the learning objectives and the NBRC Exam format with answers including rationales for correct answer options Ask Yourself boxes list questions that you should ask patients e g coughing sputum shortness of breath or ask yourself e g lung sounds you are hearing blood pressure respiratory rate Simply Stated boxes highlight and promote understanding of important concepts Learning objectives chapter outlines chapter overviews and key terms lists begin each chapter preparing you for the key topics and content you will learn Key Point summaries at the end of each chapter emphasize the learning objectives and provide an overview of important material NEW Correlation of content to the NBRC combined CRT RRT exam matrices is provided on the Evolve companion website helping you prepare for these difficult exams by cross referencing material within the book to the NBRC exam matrices for the CRT and RRT credentialing exams NEW Emphasis on infection control includes expanded content on topics such as the prevention and treatment of VAP ventilator associated pneumonia and nosocomial infections in the hospital and home setting NEW or expanded coverage includes cardiopulmonary symptoms neurologic assessment blood gas interpretation and Electronic Medical Records EMR

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