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# Pulmonary Rehabilitation for Adults with Chronic Respiratory Disease

An Official American Thoracic Society Clinical Practice Guideline

Carolyn L. Rochester, Jennifer A. Alison, Brian Cartin, Alex R. Jenkins, Narelle S. Cox, Gerene Bauldoff, Surya P. Bhatt, Jean Bourbeau, Chris Burtin, Pat G. Camp, Thomas M. Cascino, Grace Anne Domey Koppel, Chris Garvey, Roger Goldstein, Drew Harris, Linzy Houchen-Wolloff, Trina Limberg, Peter K. Lindenauer, Marilyn L. Moy, Christopher J. Ryerson, Sally J. Singh, Michael Steiner, Rachel S. Tappan, Abebaw M. Yohannes, and Anne E. Holland; on behalf of the American Thoracic Society Assembly on Pulmonary Rehabilitation

THIS OFFICIAL CLINICAL PRACTICE GLIDELINE OF THE AMERICAN THORACIC SOCIETY WAS APPROVED MAY 2023.

#### Abstract

Background: Despite the known benefits of pulmonary rehabilitation (PR) for patients with chronic respiratory disease, this treatment is underused. Evidence-based guidelines should lead to greater knowledge of the proven benefits of PR, highlight the role of PR in evidence-based health care, and in turn foster referrals to and more effective delivery of PR for people with chronic respiratory disease.

Methods: The multidisciplinary panel formulated six research questions addressing PR for specific patient groups (chronic obstructive pulmonary disease [COPD], interstitial lung disease, and pulmonary hypertension) and models for PR delivery (telerehabilitation, maintenance PR). Treatment effects were quantified using systematic reviews. The Grading of Recommendations, Assessment, Development and Evaluation approach was used to formulate clinical recommendations.

Recommendations: The panel made the following judgments: strong recommendations for PR for adults with stable COPD (moderate-quality evidence) and after hospitalization for COPD exacerbation (moderate-quality evidence), strong recommendation for PR for adults with interstitial lung disease (moderate-quality evidence), conditional recommendation for PR for adults with pulmonary hypertension (low-quality evidence), strong recommendation for offering the choice of center-based PR or telerchabilitation for patients with chronic respiratory disease (moderate-quality evidence), and conditional recommendation for offering either supervised maintenance PR or usual care after initial PR for adults with COPD (low-quality evidence).

Conclusions: These guidelines provide the basis for evidencebased delivery of PR for people with chronic respiratory disease.

Keywords: pulmonary rehabilitation; chronic obstructive pulmonary disease; interstitial lung disease; pulmonary hypertension; telerehabilitation

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An Executive Summary of this document is available at https://www.atsjournals.org/doi/suppii/10.1164/rocm.202306-1066ST.

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This document has an online supplement, which is accessible from this issue's table of contents at www.stsjournals.org.

Am J Respir Crit Care Med Vol 208, liss 4, pp e7-e26, Aug 15, 2023. Copyright © 2023 by the American Thoracic Society Internet address: www.ebsjournals.org

# **Pulmonary Rehabilitation Progress Notes**

**David C. Shelledy, Jay I. Peters** 

#### **Pulmonary Rehabilitation Progress Notes:**

<u>Pulmonary Rehabilitation - E-Book</u> John E. Hodgkin, Bartolome R. Celli, Gerilynn A. Connors, 2023-06-02 Approx 592 pages Approx 592 pages New chapters covering new advances and discoveries in respiratory care Systemic Effects of Chronic Obstructive Pulmonary Disorders Complementary Alternative Medicine for Patients with Chronic Lung Disease Pulmonary Rehabilitation and Lung Volume Reduction Surgery Management of and Reimbursement for Pulmonary Rehabilitation Services Exercise and Pulmonary Hypertension New and revised illustrations and photographs Expanded coverage of patients with respiratory diseases other than COPD as well as pediatric pulmonary patients New and revised pedagogy including chapter outlines and updated objectives Enhanced chapters Addresses the latest research and reports including The Global Initiative for Chronic Obstructive Lung Disease GOLD report recommending pulmonary rehabilitation

Guidelines for Pulmonary Rehabilitation Programs American Association of Cardiovascular & Pulmonary Rehabilitation, 2019-03-25 Guidelines for Pulmonary Rehabilitation Programs Fifth Edition presents care and program standards for pulmonary rehabilitation programs including initial and ongoing assessment collaborative self management education exercise training psychosocial support and outcome measurement Pulmonary Rehabilitation John Elliott Hodgkin, Bartolome R. Celli, Gerilynn Long Connors, 2000 This updated edition addresses the need for team care of patients with chronic obstructive pulmonary disease and demonstrates how to organize and manage an effective pulmonary rehabilitation program A guide for each member of the inpatient and home care pulmonary rehabilitation team this book combines theory with resources for practice Topics include patient assessment smoking cessation pharmacologic therapy nutrition support aerosol oxygen therapies guidelines for marketing administering a rehabilitation program in the United States and abroad and forms protocols and schedules New to the edition are eight chapters covering ventilatory muscle training outcomes measurement sleep disorders surgical intervention of COPD rehabilitation for patients with neuromuscular disease rehabilitation in nonobstructive lung disease and European mechanical ventilation methods international approaches to pulmonary rehabilitation from Canada Europe Japan South America the Philippines and the United States enhanced tables boxes and section headings and chapter outlines objectives **Respiratory Care: Patient Assessment and Care Plan Development** David C. Shelledy, Jay I. Peters, 2016 For all students and clinicians assessing or caring for patients with cardiopulmonary disorders Respiratory Care Patient Assessment and Care Plan Development is a must have resource As the most comprehensive reference available it is a guide to the evaluation of the patient and the development and implementation of an appropriate evidence based respiratory care plan Respiratory Care Patient Assessment and Care Plan Development describes the purpose of patient assessment and then guides the reader through the process of the reviewing existing data in the medical record conducting the patient interview performing the physical assessment and finally evaluating the diagnostic studies needed and implementing a respiratory care plan Bridging the gap between patient

assessment and treatment the reader will learn how to apply assessment skills to the development and implementation of respiratory care plans Integrated throughout each chapter are Clinical Focus exercises RC Insights and Key Points to help readers refine critical thinking and problem solving skills as well as strongly grasp important concepts Chapter 1 Introduction to Patient Assessment Chapter 2 Development and Implementation of Respiratory Care Plans Chapter 3 Review of the Medical Record Chapter 4 Patient History Chapter 5 Physical Assessment Chapter 6 Assessment of Oxygenation Chapter 7 Assessment of Ventilation Chapter 8 Blood Gas Analysis Hemoximetry and Acid Base Balance Chapter 9 Laboratory Studies Chapter 10 Cardiac Assessment and the Electrocardiogram Chapter 11 Cardiopulmonary Imaging Chapter 12 Adult Pulmonary Function Chapter 13 Bronchoscopy and Special Procedures Chapter 14 Acute and Critical Care Monitoring and Assessment Chapter 15 Obstructive Sleep Apnea Chapter 16 Neonatal and Pediatric Assessment

<u>Principles and Practice of Pulmonary Rehabilitation</u> Richard Casaburi, Thomas L. Petty, 1993 In this text the multidisciplinary application of scientific principles to the therapy of lung disease patients is emphasized. The scientific basis of lung disease patients is considered followed by a comprehensive discussion of therapeutic modalities in rehabilitation All aspects of conducting a pulmonary rehabilitation programme are covered and the components of the programme are detailed

Physiotherapy for Respiratory and Cardiac Problems Jennifer A. Pryor, Ammani S Prasad, 2008-03-06 Now in it s fourth edition Physiotherapy for Respiratory and Cardiac Problems continues to be an essential textbook and reference source for undergraduate and postgraduate students and for the clinician working with patients with cardiac and respiratory problems It strengths lie in integrating the evidence with clinical practice and in covering the whole patient lifespan infants children adolescents and adults new chapters on critical care surgery and psychological aspects of care expanded evidence for clinical practice case studies multi contributed chapters written by internationally recognised experts extensively revised text with new illustrations and photographs comprehensive reference lists which directs the reader to further sources of information Part of the Physiotherapy Essentials series core textbooks for both students and lecturers Online image bank now available Log on to http evolve elsevier com Pryor physiotherapy and type in your unique pincode for access to over 300 downloadable Wilkins' Clinical Assessment in Respiratory Care Albert J. Heuer, Craig L. Scanlan, 2013-01-01 The only images respiratory care text devoted exclusively to patient assessment By performing a thorough patient assessment you ll be able to assist physicians in the decision making process regarding treatment in evaluating the treatment's effectiveness and in determining if changes in the treatment need to be made The book's comprehensive approach covers all of the most important aspects and topics of assessment This edition is streamlined to emphasize learning objectives And you can prepare for the CRT exam more effectively with the new NBRC Exam Matrix Correlation Guide A comprehensive approach covers all of the most important aspects of assessment so you can assess patients effectively Additional Questions to Ask About 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 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 and assessment questions reflect and emphasize the key information identified in the learning objectives Answers to assessment questions help you review by including rationales and page references to the textbook by reflecting the NBRC format and by supporting learning objectives Enhanced Simply Stated boxes emphasize important concepts Additional case studies help you apply chapter content to clinical scenarios Content from the text is related to the NBRC exam matrix for the CRT exam on a companion Evolve website helping you better prepare for the difficult board exams A new Neurological Assessment chapter focuses on conscious sedation A discussion of health literacy addresses the importance of determining the patient's level of understanding when conducting a patient assessment Discussions of the assessment of the obese patient prepare you for some of the unique challenges related to assessing obese patients e.g. the physical exam and chest x ray Key Point summaries in every chapter emphasize the learning objectives and provide an easy to find overview A list of abbreviations common to assessment is included on the inside of the cover for quick reference Procedure checklists for common assessment procedures are included in a new appendix with PDFs of the forms available on the Evolve website Wilkins' Clinical Assessment in Respiratory Care - E-Book Albert J. Heuer, 2021-07-24 Master the patient assessment skills you need to provide effective respiratory care Wilkins Clinical Assessment in Respiratory Care 9th Edition prepares you to assist physicians in the decision making process regarding treatment evaluation of the treatment's effectiveness and determining if changes in the treatment need to be made Chapters are updated to reflect the latest standards of practice and the newest advances in technology From lead author Dr Albert Heuer a well known educator and clinician this market leading text also aligns content with National Board for Respiratory Care exam matrices to help you prepare for success on the NBRC's CRT and RRT credentialing exams Comprehensive approach addresses all of the most important aspects and topics of assessment so you can learn to assess patients effectively Case studies provide real life clinical scenarios challenging you to interpret data and make accurate patient assessments Questions to Ask boxes identify the questions practitioners should ask patients e.g. coughing sputum shortness of breath or questions to ask themselves e g lung sounds they are hearing blood pressure respiratory rate when confronted with certain pathologies Learning objectives key terms and chapter outlines begin each chapter and introduce the content to be mastered Assessment questions in each chapter are aligned to the learning objectives and reflect the NBRC Exam format with answers located on the Evolve companion website Key Points at the end of each chapter emphasize the topics identified in the learning objectives providing easy review Simply Stated boxes highlight and summarize key points to help you understand important concepts NEW Updated content throughout the text reflects the latest evidence based practices and clinical developments including infection control measures imaging techniques assessment of critically ill patients and the increased reliance on telehealth and electronic health records NEW Updated and

revised content aligns with the latest NBRC credentialing exam matrix NEW Take Home points are included for each chapter plus cases as well as questions and answers for students to use in testing and applying their knowledge Respiratory Care: Patient Assessment and Care Plan Development David C. Shelledy, Jay I. Peters, 2021-02-08 Respiratory Care Patient Assessment and Care Plan Development Second Edition describes the purpose of patient assessment and then guides the reader through the process of reviewing existing data in the medical record Clinical Management Notes and Case Histories in Cardiopulmonary Physical Therapy W. Darlene Reid, Frank Chung, 2004 Two primary components present in Clinical Management Notes and Case Histories in Cardiopulmonary Physical Therapy are notes on cardiopulmonary assessment and management and case histories involving respiratory and cardiovascular conditions commonly viewed by physical therapists Accompanying the notes are thought provoking questions and problems that enable the reader to establish a foundation of core concepts The presentation of case histories further facilitates the development of integral skills and enables the reader to integrate those core concepts into a clinical setting Also question and answer guides accompany the patient profiles BOOK JACKET

# Pulmonary Rehabilitation Progress Notes Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Pulmonary Rehabilitation Progress Notes**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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