

Mechanical Ventilation Case Questions And Answers

Case 1

A 55 year-old man with a history of COPD presents to the emergency room with a two day history of worsening shortness of breath which came on following a recent viral infection. In the emergency room, his oxygen saturation is 88% on room air. He is working hard to breathe and is only speaking in short sentences. On exam, he has diffuse wheezes and a prolonged expiratory phase. His chest x-ray reveals changes consistent with COPD but no new focal infiltrates. An arterial blood gas (ABG) is done and shows pH 7.17, PCO₂ 55, PO₂ 62, HCO₃⁻ 25.

What are the indications for starting a patient on mechanical ventilation?

There are several primary indications for initiating mechanical ventilation including: hypercarbic respiratory failure, hypoxemic respiratory failure, to prevent or reverse atelectasis, to prevent or reverse ventilatory muscle fatigue, to permit sedation and/or neuromuscular blockade (eg. surgery), to stabilize the chest wall (eg. massive flail chest) or to ensure airway protection (eg. a patient with altered mental status and a large upper gastrointestinal bleed).

One should be aware that with hypercarbic and hypoxemic respiratory failure, there are no specific thresholds that are used to determine when to initiate mechanical ventilation. For example, you do not automatically intubate a patient when their PCO₂ rises above 60 mm Hg or their room air PO₂ falls below 55 mm Hg. Instead, you must take into account the overall clinical situation and assess whether the degree of hypercarbia or hypoxemia is putting the patient's life at risk. If they can be supported by other means, such as oxygen by face mask, you might hold off on initiating mechanical ventilation, whereas if their PO₂ continues to fall despite high levels of supplemental oxygen, mechanical ventilation would be necessary. Similarly, if a patient is hemodynamically stable, you might try oxygen by facemask for hypoxemic respiratory failure but if the patient is showing signs of sepsis with hemodynamic instability and multiorgan dysfunction, you would move more quickly to intubate the patient and stabilize their respiratory status in order that you can focus on other important issues.

What do you think about the possibility of using non-invasive positive pressure ventilation (bi-level positive airway pressure) in this patient?

There are two forms of mechanical ventilation – *invasive* mechanical ventilation, in which an endotracheal tube is inserted in the patient's airway, and *non-invasive* ventilation, in which the patient receives respiratory support through a tight fitting mask applied to their face. There are some situations in which invasive modes of mechanical ventilation are necessary and other situations in which patients can be supported by non-invasive means.

Mechanical Ventilation Case Questions And Answers

J M Cairo, PhD, RRT



Mechanical Ventilation Case Questions And Answers:

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Critical Care Study Guide Gerard J. Criner, Rodger E. Barnette, Gilbert E. D'Alonzo, 2010-06-27 Critical care medicine is a dynamic and exciting arena where complex pathophysiologic states require extensive knowledge and up to date clinical information An extensive knowledge of basic pathophysiology as well as awareness of the appropriate diagnostic tests and treatments that are used to optimize care in the critically ill is essential Since our first edition 7 years ago new information crucial to the care and understanding of the critically ill patient has rapidly accumulated Because this knowledge base crosses many different disciplines a comprehensive multidisciplinary approach presenting the information is essential similar to the multidisciplinary approach that is used to care for the critically ill patient We have strived to provide this content in an easily digestible format that uses a variety of teaching tools to facilitate understanding of the presented concepts and to enhance information retention To meet the demand to provide comprehensive and diverse education in order to understand the pathogenesis and optimum care of a variety of critical illnesses we have substantially revised the prior topics in the first edition with updated information We have also markedly expanded the number of topics covered to include acute lung injury and the acute respiratory distress syndrome an expanded discussion of the physiology and operation of mechanical ventilation obstetrical care in the ICU neurosurgical emergencies acute coronary syndromes cardiac arrhythmias role of whole body rehabilitation in the ICU ethical conduct of human research in the ICU and nursing care of the ICU patient

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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

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universities educational seminars national and international postgraduate courses and hot topics sessions at national international congresses **Clinical Nursing Skills and Techniques - E-Book** Anne G. Perry, Patricia A. Potter, Wendy R. Ostendorf, 2017-01-16 NEW Clinical Debriefs are case based review questions at the end of each chapter that focus on issues such as managing conflict care prioritization patient safety and decision making NEW Streamlined theory content in each chapter features a quick easy to read bullet format to help reduce repetition and emphasize the clinical focus of the book NEW Sample documentation for every skill often includes notes by exception in the SBAR format NEW SI units and using generic drug names are used throughout the text to ensure content is appropriate for Canadian nurses as well

Workbook in Practical Neonatology E-Book Richard Polin, Mervin C. Yoder, 2019-10-06 Using a highly effective case based approach Workbook in Practical Neonatology puts neonatal evaluation diagnosis and treatment in a clinical context and tests your knowledge with questions and answers for each topic You ll find authoritative guidance on the problems you re most likely to see in practice including issues regarding resuscitation mechanical ventilation anemia fluid therapy and bronchopulmonary dysplasia The 6th Edition has been extensively revised with new authors rewritten content improved figures and tables and many new cases throughout Organizes chapters around case studies followed by questions and answers that require you to make diagnostic decisions and help you understand how scientific concepts apply to each clinical problem Guides you step by step through patient care with abundant diagnostic algorithms illustrations and decision trees Features eleven chapters rewritten by new authors new tables and algorithms new cases and updated discussions of existing cases An excellent learning tool and everyday reference for practicing neonatologists as well as students trainees nurses and other clinicians **Anesthesiology: A Problem-Based Learning Approach** Tracey Straker, Shobana Rajan, 2018-10-15 Linking existing knowledge to new knowledge by presenting it in the form of a case or a problem is a popular and effective educational approach resulting in better retention of the knowledge and improved ability to apply that knowledge to solve real problems This problem based learning PBL method was introduced into medical education at McMaster University in Ontario Canada in 1969 Since then it has been widely incorporated into secondary undergraduate and graduate education in a variety of disciplines worldwide This new volume for the Anesthesiology Problem Based Learning series reviews topics in general anesthesiology utilizing the PBL approach Each chapter deals with conditions and problems in anesthesia practice presented as a case stem with questions to encourage critical thinking followed by an evidence based discussion and multiple choice questions for self assessment Current in its knowledge of organ systems and management the text keeps pace with new technology new drugs and new surgical techniques coupled with current guidelines for anesthetic management Cases highlight the practical issues that arise in the operating room and offers solutions for them The book can be used to review an upcoming clinical case or as a PBL tool The Stem Case and Key Questions and Discussion sections can serve as the basis for interactive learning experiences for study groups or as a broad yet in depth clinical review of the specialty for the

individual learner Self assessment questions can be used as a measure of knowledge acquisition or simply as a question bank to prepare for examinations **Medical-Surgical Nursing - E-Book** Sharon L. Lewis,Linda Bucher,Margaret M.

Heitkemper,Mariann M. Harding,Jeffrey Kwong,Dottie Roberts,2016-09-08 Awarded first place in the 2017 AJN Book of the Year Awards in the Medical Surgical Nursing category Learn how to become an exceptional caregiver in today s evolving healthcare environment Written by a dedicated team of expert authors led by Sharon Lewis Medical Surgical Nursing 10th Edition offers up to date coverage of the latest trends hot topics and clinical developments in the field Completely revised and updated content explores patient care in various clinical settings and focuses on key topics such as patient safety NCLEX exam preparation evidence based practice and teamwork A variety of helpful boxes and tables make it easy for you to find essential information and the accessible writing style and building block approach make even the most complex concepts easy to grasp Best of all a complete collection of learning and study resources helps you learn more effectively and offers valuable real world preparation for clinical practice Highly readable format offers you a strong foundation in medical surgical nursing Content written and reviewed by leading experts in the field ensures that information is comprehensive current and clinically accurate Informatics boxes discuss how technology is used by nurses and patients in healthcare settings Expanded coverage of evidence based practice helps you understand how to apply the latest research to real life patient care Expanded Safety Alerts throughout the book highlight patient safety issues and focus on the latest National Patient Safety Goals UNIQUE Levels of Care approach explains how nursing care varies for different levels of health and illness Bridge to NCLEX Examination review questions at the end of each chapter reinforce key content while helping you prepare for the NCLEX examination with both standard and alternate item format questions Unfolding case studies included throughout each assessment chapter help you apply concepts and procedures to real life patient care Managing Care of Multiple Patients case studies at the end of each section help you apply your knowledge of various disorders and prioritize and delegate patient care Separate chapter on genetics focuses on the practical application to nursing care of patients Genetics in Clinical Practice boxes address key topics such as genetic testing Alzheimer s disease sickle cell disease and genetics related ethical issues Genetic Risk Alerts and Genetic Link headings highlight specific genetic issues related to body system assessments and disorders [Iron & Coal Trades Review](#) ,1922 Vol 115 includes Diamond jubilee issue 1867 1927 [Clinical Manifestations](#)

[& Assessment of Respiratory Disease - E-Book](#) Terry Des Jardins,George G. Burton,2015-03-12 NEW New chapter on respiratory failure and mechanical ventilation protocol outlines the respiratory therapist s role in regards to these protocols NEW New chapters on congenital diaphragmatic hernia and congenital heart disease NEW Updated content on electronic charting offers the latest guidelines for collecting and recording respiratory assessments and treatment plans using an electronic health record NEW The most up to date content throughout ensures readers are well versed in the latest assessment and treatment guidelines for various respiratory illnesses and injuries NEW Therapist driven protocols TDPs

information is now separated into two chapters to divide content between the basic treatment protocols and the protocols for mechanical ventilation and weaning from the ventilator The American School Board Journal ,1905 *Lewis's Medical-Surgical Nursing E-Book* Mariann M. Harding,Jeffrey Kwong,Debra Hagler,Courtney Reinisch,2022-07-02 American Journal of Nursing AJN Book of the Year Awards 1st Place in Medical Surgical Nursing 2023 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Medical Surgical Gain the knowledge and skills you need to succeed in medical surgical nursing with this leading textbook Lewis's Medical Surgical Nursing 12th Edition uses a conversational writing style a focus on nursing concepts and clinical trends evidence based content and basic pathophysiology review to provide the solid foundation needed in a rapidly changing healthcare environment Comprehensive chapters cover topics including nursing management and collaboration health promotion acute interventions and ambulatory care Summary tables and boxes make it easy to find essential information and a building block approach makes even the most complex concepts simple to grasp In addition to three new chapters this edition includes a stronger focus on the nursing process clinical judgment and preparation for the Next Generation NCLEX Examination Emerging Infectious Diseases ,2014 Anesthesiology Review: A Comprehensive Q&A Guide Ivan Keser, MD,Admir Hadzic, MD, PhD, The Anesthesiology Review features an unparalleled collection of 1 800 questions meticulously crafted from 320 specific topics that span the entire spectrum of anesthesiology practice Each question challenges and expands the reader's understanding ensuring a solid grasp of both fundamental concepts and advanced techniques The questions cover the entire field of Anesthesiology providing a 360 degree view of the field Access the latest published information ensuring that readers are not only preparing with comprehensive content but are also up to date with the most current standards and practices in anesthesiology Each question has been written and reviewed by NYSORA's team of top experts guaranteeing a level of precision and expertise that is unmatched A rationale for the best answer with every question enhances the learning experience allowing readers to understand not just the what but the why behind each answer fostering deeper learning and retention Anesthesiology Review is not just another question book it is the most comprehensive text available for the review of anesthesia tailored for both oral and written board examinations Its format is designed to cater to a wide range of learning preferences **Nutrition Support for the Critically Ill Patient** Ph.D., Gail A. Cresci,2016-04-19 Nutrition Support for the Critically Ill Patient A Guide to Practice provides state of the art practices and key principles of nutrition support through evidence based medicine Following a review of the metabolic alterations that occur during critical illness this book discusses the nutrient requirements of critically ill patients as well

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