

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

James M. Cairo



Mechanical Ventilation Case Questions And Answers:

Pilbeam's Mechanical Ventilation - E-Book James M. Cairo, 2023-06-13 Selected for Doody's Core Titles 2024 in Respiratory Therapy Ensure you understand one of the most sophisticated areas of respiratory care with Pilbeam's Mechanical Ventilation: Physiological and Clinical Applications, 8th Edition. Known for its simple explanations and in-depth coverage of patient ventilator management, this evidence-based text walks you through the most fundamental and advanced concepts surrounding mechanical ventilation and helps you understand how to properly apply these principles to patient care. This new edition is an excellent reference for all critical care practitioners and features coverage of the physiological effects of mechanical ventilation on different cross sections of the population. Additionally, user-friendly features promote critical thinking and clinical application, such as key points, AARC clinical practice guidelines, critical care concepts, and updated learning objectives. UNIQUE Ventilator-Associated Pneumonia chapter presents in-depth comprehensive coverage on this very challenging issue. Critical Care Concepts present short questions that challenge you to apply knowledge learned to difficult concepts. Brief patient case studies list pertinent assessment data and pose a critical thinking question to test your content comprehension. Key Points draw attention to pivotal concepts and highlight important information as topics are addressed. Intended for classroom or small group discussions. Clinical Scenarios offer a more comprehensive patient scenario that covers patient presentation, assessment data, and treatment options. Logical sequencing of chapters builds on previously learned concepts. Comprehensive Learning Objectives provide a clear, concise listing of what you need to learn in the chapter. Bulleted end-of-chapter summaries help assess comprehension and guide study efforts. Excerpts of Clinical Practice Guidelines developed by the American Association for Respiratory Care (AARC) are presented in a convenient, reader-friendly format. Chapter outlines provide a big picture of the chapter content. NBRC-style end-of-chapter review questions reinforce the very difficult concept of mechanical ventilation with practice that focuses on certification exam success. Glossary of mechanical ventilation terminology provides definitions for highlighted key terms in each chapter. UPDATED Revised content throughout reflects the latest standards of respiratory care. *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 [Workbook for Pilbeam's Mechanical Ventilation - E-Book](#) J. M. Cairo, Sandra T Hinski, Susan P. Pilbeam, Sindee Karpel, 2016-07-02 Get the most out of Pilbeam's Mechanical Ventilation 5th Edition and prepare for the NBRC certification exam Corresponding to the chapters in J M Cairo's textbook this workbook helps you focus your study on the most important information A wide range of exercises includes key terms crossword puzzles critical thinking questions NBRC style multiple choice questions case studies waveform analysis ventilation data analysis and fill in the blank and short answer activities Close correlation with Pilbeam's Mechanical Ventilation Physiological and Clinical Applications 5th Edition supports learning from the textbook Critical Thinking questions ask you to solve problems relating to real life scenarios that may be encountered in practice NBRC style multiple choice questions prepare you for the credentialing examination A wide variety of exercises help you assess your knowledge and practice with any areas of weakness Added exercises reflect revised material in the textbook **Pilbeam's Mechanical Ventilation** J M Cairo, PhD, RRT, 2015-10-13 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

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The American School Board Journal William George Bruce,William Conrad Bruce,1905

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