

CASES ON CRITICAL CARE

LEARNING OBJECTIVES

1. Interpret hemodynamic parameters and acid-base status in critically ill patients.
2. Differentiate between presentation of and treatment strategies for hypovolemic, obstructive, and distributive shock.
3. Discuss the appropriate use of fluids, vasopressors, antibiotics, and corticosteroids in patients with sepsis, severe sepsis, or septic shock.
4. Discuss strategies to optimize the safety and efficacy of therapeutic hypothermia for patients after cardiac arrest.
5. Recommend therapeutic options to minimize delirium and provide optimal analgesia, sedation, neuromuscular blockade, and nutritional support in critically ill patients.
6. Recommend therapeutic options to prevent stress ulcers, venous thromboembolism, hyperglycemia, and ventilator-associated pneumonia in critically ill patients.
7. Recommend treatment options for acute intracranial hemorrhage.

*** Answers are in **RED** font ***

CASE 1

A 58-year old woman remains intubated in the intensive care unit (ICU) after a recent abdominal operation. In the operating room, she receives more than 10 L of fluid and blood products but has received aggressive diuresis with furosemide postoperatively. In the past 3 days, she has generated 12 L of urine output, and her blood urea nitrogen (BUN) and serum creatinine (SCr) have steadily increased to 40 and 1.5 mg/dL, respectively. Her urine chloride (Cl) concentration was 9 mEq/L (24 hours after her last dose of furosemide). This morning, her arterial blood gas (ABG) reveals pH 7.50, PaCO₂ 46 mmHg, and bicarbonate (HCO₃⁻) 34 mEq/L. Her vital signs include a blood pressure (BP) of 85/40 mmHg and a heart rate (HR) of 110 beats/ minute.

1. Which action is best to improve her acid-base status?

A. 0.9% sodium chloride (NaCl) bolus. - The patient manifests metabolic alkalosis, which is a primary increase in serum bicarbonate concentration (>30 mEq/L). In its pure form, it manifests as alkalemia (pH > 7.40). As a compensatory mechanism, metabolic alkalosis leads to alveolar hypoventilation with a rise in arterial carbon dioxide tension (PaCO₂). (*Metabolic alkalosis. Medscape. 2018.*) Due to the patients diuretics, she experienced volume contraction or the decrease in the volume of body fluid. Monitoring of chloride concentrations is essential to prevent or treat alkalosis. Administration of normal saline (0.9% NaCl) would correct the low chloride levels of the patient (Normal chloride (urine) = 25-40 mEq/L). (*Chloride (Urine). Health Encyclopedia - University of Rochester Medical Center. 2020.*)

B. 5% dextrose (D5W) bolus. - Though the water content of both D5W and 0.9% NS solution is equal (1000 mL), much more fluid will reside in the intravascular space if given in the form of 0.9% NS (as none enters the intracellular space). Hence, 0.9% NS is preferred over D5W if the aim is to correct intravascular volume depletion. (*Dehydration and volume depletion: How to handle misconceptions. World Journal of Nephrology. 2019.*)

C. Hydrochloric acid infusion. - Infusion of HCl is indicated for patients experiencing metabolic alkalosis with arterial pH of > 7.55 and a PaCO₂ of > 7.45. (*Hydrochloric acid for treating metabolic alkalosis. The Japanese Journal of Surgery. 1989.*)

D. Acetazolamide intravenously. - Acetazolamide would be a consideration if the metabolic alkalosis persisted after correcting the volume contraction or other underlying problem. (*Acetazolamide-mediated decrease in strong ion difference accounts for the correction of metabolic alkalosis in critically ill patients. BioMed Central. 2006.*)

Critical Care Cases

**Eamon Shamil, Praful Ravi, Dipak Mistry
(Consultant in emergency medicine)**

Critical Care Cases:

Clinical Cases in Critical Care Alice Myers, Theophilus Samuels, 2022-11-30 Clinical Cases in Critical Care In Clinical Cases in Critical Care the authors explore core clinical topics and basic sciences in a practical and realistic way and include comprehensive discussions focusing on critically unwell patients with a variety of presentations and underlying disorders including COVID 19 hypotension stroke and drug overdose Each case begins with a clinical vignette which generates a series of questions the reader must address Cases are expanded to discuss differential diagnoses investigations and management issues Further questions direct the reader to explore relevant clinical and scientific knowledge similar to the structure of many professional oral examinations The final section of the book consists of exam style questions in a multiple choice and single best answer style Perfect for medical practitioners working in critical care settings Clinical Cases in Critical Care provides a thorough and accessible reference for trainee physicians with an interest in critical and emergency care as well as allied health professionals in the field This engaging textbook will be an essential companion for anyone getting to grips with the foundation of specialist knowledge required by professionals working in intensive care medicine Cases in Critical Care Pinak Ashok Shrikhande, Sandeep Aggarwal, 2019-02-14 The publisher is not responsible as a matter of product liability negligence or otherwise for any injury resulting from any material contained herein This publication contains information relating to critical care that should not be construed as specific instructions for individual patients Manufacturers product information and package inserts should be reviewed for current information including contraindications dosages and precautions All products brands names processes cited in this book are the properties of their respective owners Reference herein to any specific commercial products processes or services by trade name trademark manufacturer or otherwise is purely for Academic purposes and does not constitute or imply endorsement recommendation or favoring by the publisher The views and opinions of authors expressed herein do not necessarily state or reflect those of the publisher and shall not be used for advertising or product endorsement purposes Care has been taken to confirm the accuracy of the information presented and to describe generally accepted practices However the authors editors and Publishers are not responsible for errors or omissions or for any consequences from application of the information in this book and make no warranty expressed or implied with respect to the currency completeness or accuracy of the contents of the publication Application of this information in a particular situation remains the professional responsibility of the practitioner Readers are urged to confirm that the information especially with regard to drug dose usage complies with current legislation and standards of practice Please consult full prescribing information before issuing prescription for any product mentioned in the publication

Case-Based Review in Critical Care Medicine Atul Prabhakar Kulkarni, Rahul Anil Pandit, Subhal Bhalchandra Dixit, Kapil Gangadhar Zirpe, 2019-06-30 This book is a comprehensive guide to critical care medicine for postgraduate medical students Presented in a case based question and answer format the text begins with guidance on patient examination in the intensive

care unit ICU Each of the following chapters covers a different disorder from acute severe asthma pulmonary embolism and septic shock to traumatic brain injury acute liver failure and much more The book concludes with cases examining out of hospital cardiac arrest brain death and organ donation as well as end of life care in the ICU A large selection of Objective Structured Clinical Examination OSCE practice questions are included to assist students in their preparation for examinations Nearly 300 clinical photographs illustrations and tables further enhance learning Key points Comprehensive guide to critical care medicine for postgraduates Presented in a case based question and answer format Includes numerous OSCE practice questions to help students prepare for examinations Highly illustrated with clinical photographs diagrams and tables

Case Studies in Critical Care Nursing Barbara Clark Mims,1990 **Core Cases in Critical Care** Saxon Ridley,Gary Smith,Anna Batchelor,2002-12 An essential read for all trainees in critical care *Mayo Clinic Critical Care Case Review* Rahul Kashyap,John C. O'Horo,J. Christopher Farmer,2016 Mayo Clinic Critical Care Case Review is a unique compellation of cases presented at the highly rated Mayo Clinic Clinical Pathological Case CPC Conference Designed to cover rare cases in a short amount of time these reviews are set up in what is called the unknown format highlighting the clinically key elements of the patient s hospital course singling out the diagnostic dilemmas and concludes with a question and answer format that allows clinicians to take home relative points for clinical practice Written by practicing intensivists and critical care fellows for practicing intensivists and critical care fellows this book combines interesting reading experiences with critical care medicine review Each chapter ends with questions and answers that provide a board style review for the readers Each case begins on the left hand page with the discussion on the right written succinctly to provide quick diagnostic understanding While most critical care review books focus solely on an organ system format Mayo Clinic Critical Care Case Review captures the spirit of the CPC Conference in its text and illustrations **Case Files Critical Care** Eugene C. Toy, Terrence H. Liu, Manuel Suarez,2014-02-05 SHARPEN YOUR CRITICAL THINKING SKILLS AND IMPROVE PATIENT CARE Experience with clinical cases is key to mastering the art and science of medicine and ultimately to providing patients with competent clinical care Case Files Critical Care provides 42 true to life cases that illustrate essential concepts in critical care Each case includes an easy to understand discussion correlated to key concepts definitions of key terms clinical pearls and board style review questions to reinforce your learning With Case Files you ll learn instead of memorize Learn from 42 high yield cases each with board style questions Master key concepts with clinical pearls Practice with review review questions to reinforce learning Polish your approach to clinical problem solving and to patient care Perfect for residents medical students PAs and NPs working in the ICU [Clinical Cases in Critical Care](#) Ira Moore,2023-10-10 Critical care is a specialized area of medicine focused on the management and treatment of patients with life threatening conditions or severe organ dysfunction It involves providing comprehensive care and monitoring patients in intensive care units ICUs or critical care settings The primary goal of critical care is to stabilize and support vital functions such as breathing circulation and

organ function while addressing the underlying cause of the patient's critical condition. Some of the advanced medical interventions which are provided within this field include mechanical ventilation and hemodynamic support. Critical care encompasses a wide range of medical specialties including cardiology, pulmonology, nephrology, and infectious diseases. This book unfolds the innovative aspects of critical care which will be crucial for the progress of this field in the future. It will provide comprehensive knowledge to the readers.

Mayo Clinic Critical Care Case Review Rahul Kashyap MBBS, John C. O'Horo MD, MPH, J. Christopher Farmer MD, 2016-06-23. Mayo Clinic Critical Care Case Review is a unique compendium of cases presented at the highly rated Mayo Clinic Clinical Pathological Case Conference. Designed to cover rare cases in a short amount of time, these reviews are set up in what is called the unknown format, highlighting the clinically key elements of the patient's hospital course, singling out the diagnostic dilemmas, and concludes with a question and answer format that allows clinicians to take home relative points for clinical practice. Written by practicing intensivists and critical care fellows for practicing intensivists and critical care fellows, this book combines interesting reading experiences with critical care medicine review. Each chapter ends with questions and answers that provide a board style review for the readers. Each case begins on the left-hand page with the discussion on the right, written succinctly to provide quick diagnostic understanding. While most critical care review books focus solely on an organ system format, Mayo Clinic Critical Care Case Review captures the spirit of the CPC Conference in its text and illustrations.

Case Files Critical Care, Second Edition Eugene C. Toy, Terrence H. Liu, Manuel Suarez, 2017-09-08. Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. **SHARPEN YOUR CRITICAL THINKING SKILLS AND IMPROVE PATIENT CARE**. Experience with clinical cases is key to mastering the art and science of medicine and ultimately to providing patients with competent clinical care. Case Files Critical Care Second Edition provides 42 true-to-life cases that illustrate essential concepts in critical care. Each case includes an easy-to-understand discussion correlated to key concepts, definitions of key terms, clinical pearls, and board style review questions to reinforce your learning. With Case Files, you'll learn instead of memorize. The Second Edition has been revised throughout to reflect the very latest standard of care updates. 42 high-yield cases, each with board style questions, teach diagnostic or therapeutic approaches relevant to critical care medicine. Explanations for the cases emphasize the mechanisms and underlying principles. Complete discussion of each case makes this an instructive and practical primer for critical care rotations. Perfect for residents, medical students, physician assistants, and nurse practitioners working in the ICU.

Evidence-Based Critical Care Robert C. Hyzy, 2017-05-30. This book provides learners with a unique opportunity by virtue of the format outlined above. Each case presentation has a case vignette which leads up to an important clinical question and is followed by additional discussion which resolves the question posed. This is a new way to present knowledge in a medical book and should help critical care practitioners, fellows, residents, allied health professionals, and students expand their critical

care knowledge in an efficient and effective manner This approach should also benefit those preparing for board examinations

Advanced Practice in Critical Care Sarah McGloin, Anne McLeod, 2010-02-09 Advanced Practice in Critical Care provides experienced critical care nurses with a clear and distinct evidence base for contemporary critical care practice Central to the book is the application of research and evidence to practice and therefore case studies and key critical care clinical situations are used throughout to guide the reader through the patient care trajectory Each chapter introduces an initial patient scenario and as the chapter progresses the patient scenario develops with the theoretical perspectives and application In this way it is evident how multi organ dysfunction develops impacting upon and influencing other body systems demonstrating the multi organ impact that is often experienced by the critically ill patient In this way consequences of critical illness such as acute renal failure haemostatic failure and liver dysfunction are explored Throughout the text key research findings and critical care treatment strategies are referred to applied and evaluated in the context of the given patient case study Advanced assessment techniques are explained and the underlying pathophysiology is discussed in depth Advanced Practice in Critical Care is an essential resource for experienced practitioners within critical care whom primarily care for patients requiring high dependency or intensive care

100 Cases in Emergency Medicine and Critical Care Eamon Shamil, Praful Ravi, Dipak Mistry, 2018-01-09 This new addition to the popular 100 cases series explores common clinical scenarios that will be encountered by the medical student and junior doctor during practical training in the emergency department in the community and in intensive and critical care settings and which are likely to feature in qualifying examinations The book covers a broad range of presentations organized by sub specialty area for ease of reference Comprehensive answers highlight key take home points from each case and provide practical advice on how to deal with the challenges that occur when practising emergency and critical care medicine at all levels

Challenging Concepts in Critical Care Christopher Gough, Justine Barnett, Tim Cook, Jerry Nolan, 2019-12-19 A case based guide with expert commentary Challenging Concepts in Critical Care shows how the experts approach and deal with real life clinical scenarios Each chapter presents a clinically challenging case complete with a case history evidence based tips and up to date learning points To give further insight into the field each chapter has commentary from an expert who identifies and explains the key points and controversies of the case Practical yet rich in detail Challenging Concepts in Critical Care is a key title for anyone preparing for intensive care exams For each case key information is highlighted through the use of boxes to stimulate interest and facilitate learning Learning points Clinical tips Evidence base and Expert commentary With new information on key trials clinical practice and evidence based research this book is also an invaluable resource for experienced critical care clinicians looking for a concise update on a wide range of challenging topics in the field In addition it is of high value to senior ICU nurses allied health professionals and anyone with an interest in intensive care medicine

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Melander,1996 Critical care nursing requires you to interpret and apply a great deal of information quickly and accurately That kind of critical thinking takes practice the kind of practice you ll find in Review of Critical Care Nursing Case Studies and Applications The 26 case studies and corresponding questions boost your ability to make competent confident decisions Based on actual clinical experiences the case studies thoroughly describe a variety of pulmonary cardiac renal neurological gastrointestinal endocrine and multisystem problems from symptoms through management After each case study a set of 10 20 questions challenges your critical thinking decision making and deductive reasoning skills **Anesthetic and Critical Care Amid the COVID-19 Pandemic** Ru-Ping Dai,Xiangdong Chen,Xiangming Fang, Jiapeng Huang, Eric Azabou,2022-07-25

Case Studies in Critical Care Nursing Sheila Drake Melander,2004 Containing detailed and up to date case studies on critical care conditions with accompanying questions and answers for applied learning of the practice of critical care nursing this resource allows the reader to hone vital skills that are necessary in a critical care environment *Critical Care Nephrology* Claudio Ronco,Rinaldo Bellomo,John A. Kellum,2009-01-01 This 2nd edition of Critical care nephrology continues to provide comprehensive coverage of the latest advances in critical care procedures for the adult or pediatric patient with renal diseases or disorders It presents a common language and standardized guidelines to help multi disciplinary physicians caring for the critically ill communicate more effectively **BOOK JACKET** 100 Cases in Emergency Medicine and Critical Care Eamon Shamil,Praful Ravi,Dipak Mistry (Consultant in emergency medicine),2018 This new addition to the popular 100 cases series explores common clinical scenarios that will be encountered by the medical student and junior doctor during practical training in the emergency department in the community and in intensive and critical care settings and which are likely to feature in qualifying examinations The book covers a broad range of presentations organized by sub specialty area for ease of reference Comprehensive answers highlight key take home points from each case and provide practical advice on how to deal with the challenges that occur when practising emergency and critical care medicine at all levels

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