

CRITICAL CARE NURSING HEMODYNAMICS

Cardiac Output

↳ Volume of blood pumped by the heart in one minute (in L)

Stroke Volume

↳ Volume ejected with each heartbeat

Systemic vascular resistance

↳ resistance to blood flow returning to the left ventricle

Preload = volume in the ventricle at the end of diastole

Cardiac Index

↳ Cardiac output adjusted for the patient's body surface area (BSA)

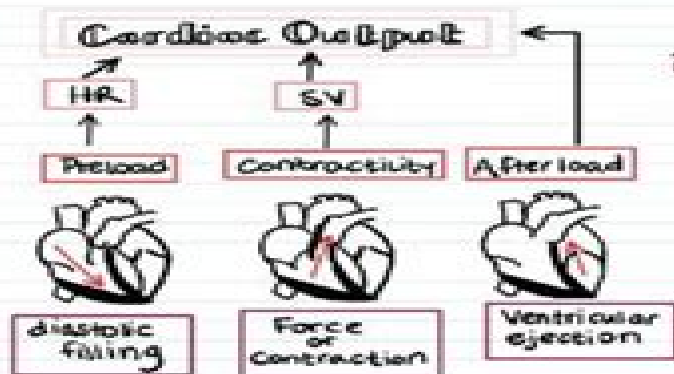
Stroke volume index

↳ Stroke volume adjusted for BSA

Pulmonary vascular resistance

resistance to blood flow returning to the right ventricle

Afterload = pressure the heart must eject blood against during Systole (contraction)



Invasive Pressure Monitoring

Arterial BP

Indications: acute hypertension + hypotension, resp. failure, shock, neuro injury, or acute sepsis

Measurements: systolic, diastolic + Mean arterial pressure

Nursing: ECG + pressure tracings for diminished arterial BP which is an urgent situation

Arterial Pressure-Based Cardiac Output (APCO)

Indications: to assess a patient's ability to respond to fluids by increasing stroke volume

Measurements: continuous cardiac output (cco), stroke vol., continuous cardiac index (CCI + SVI)

Contraindications: children and those on VAD therapy

Pulmonary Artery Flow-Directed Catheter

Indications: cardiogenic shock, MI w/ complications, severe chronic HF, Dx of pulm. HTN

Measurements: PAD pressure + PAWP

Central Venous or Right Atrial Pressure (CVP)

Measurements: Right ventricular preload

Interpretation: ↑ CVP = R ventricular failure or volume overload

↓ CVP = hypovolemia

Waves: a - atrial contraction

c-wave: tricuspid bulge into R atrium

x-wave: atrial filling



Venous O₂ Saturation

Measurements: O₂ saturation in venous blood (ScvO₂), mixed venous O₂ (SvO₂)

Interpretation: ↑ ScvO₂ or SvO₂ (80-93%)

= ↑ O₂ supply + ↓ O₂ demand
- more O₂ than needed - ↓ ability to use O₂ - hyperthermia

Normal: ScvO₂ or SvO₂ (60-80%)

= balanced O₂ supply + demand

↓ ScvO₂ or SvO₂ (<60%)

= ↓ Rtg, ↓ ScvO₂, ↓ CO, ↑ O₂ demand
- anemia or bleed - cardiogenic shock
- hypoxemia from ↓ O₂ supply

Free Critical Care Study Guide

Robert C. Hyzy



Free Critical Care Study Guide:

Critical Care Study Guide Gerard J. Criner, Gilbert E. D'Alonzo, 2013-03-09 Critical care medicine is a dynamic and exciting arena where complex pathophysiologic states requiring extensive knowledge and clinical acumen are commonly found. Caring for critically ill patients requires an extensive knowledge of basic pathophysiology as well as awareness of the appropriate diagnostic tests and therapeutic interventions. Because this knowledge base crosses many different disciplines, introduction to caring for the intensive care patient while exciting may also be intimidating. This textbook is designed toward making the dynamic environment of the critical care unit understandable and the approach to the patient both logical and successful. The book contains three components: 1. description of the procedural tasks commonly performed for the critically ill patient; 2. explanation of the most common pathophysiologic states encountered; and 3. description of specific disease entities with details of their differential diagnosis, diagnostic strategy, and therapeutic plan. This book also uses several educational approaches that we have found useful in our own teaching sessions and prior textbooks. Clinical cases introduce chapters and highlight chapter segments to emphasize clinical relevancy. As an additional study aid, margin notes highlight important teaching points and facilitate easy review of chapter content. To consolidate the principles outlined in each chapter, review questions with full text explanations are provided at the end of each chapter. All these elements help reinforce the most important messages for the reader.

Pediatric Critical Care Study Guide Steven E. Lucking, Frank A. Maffei, Robert F. Tamburro, Neal J. Thomas, 2012-04-10 This is the first comprehensive study guide covering all aspects of pediatric critical care medicine. It fills a void that exists in learning resources currently available to pediatric critical care practitioners. The major textbooks are excellent references but do not allow concise reading on specific topics and are not intended to act as both text and study guide. There are also several handbooks available but these are usually written for general pediatric residents and lack the advanced physiology and pathophysiology required for the higher level pediatric critical care practitioner.

Pediatric Critical Care Medicine Derek S. Wheeler, Hector R. Wong, 2007 This new textbook is the definitive evidence-based resource for pediatric critical care. It is the first ostensibly evidence-based pediatric critical care textbook and will prove an invaluable resource for critical care professionals across the globe.

Adult Ccrn Certification Review Co-Editor and Director of Clinical Applications, Menifee, California: Ann J. Brorsen, Keri R. Rogelet, 2013-06-10 Adult CCRN Certification Review Second Edition is the perfect study guide for nurses preparing to take the Adult CCRN exam administered by the American Association of Critical Care Nurses (AACN). First introduced in 1976, CCRN certification reflects expertise for nurses providing care to acutely or critically ill adults and their families in areas such as intensive and cardiac care units, trauma units, or critical care transport. Completely updated and revised, Adult CCRN Certification Review Second Edition contains more than 1,200 questions with comprehensive rationales on a broad range of topics, divided into sections similar to those found on the Adult CCRN Test Plan. New to this edition are sections on behavioral/psychosocial

issues and special populations in critical care **Adult CCRN Certification Review** Ann J. Brorsen, Keri R. Rogelet, 2013-06-10 Adult CCRN Certification Review Second Edition is the perfect study guide for nurses preparing to take the Adult CCRN exam administered by the American Association of Critical Care Nurses AACN First introduced in 1976 CCRN certification reflects expertise for nurses providing care to acutely or critically ill adults and their families in areas such as intensive and cardiac care units trauma units or critical care transport Completely updated and revised Adult CCRN Certification Review Second Edition contains more than 1 200 questions with comprehensive rationales on a broad range of topics divided into sections similar to those found on the Adult CCRN Test Plan New to this edition are sections on behavioral psychosocial issues and special populations in critical care **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 **Pediatric CCRN Certification Review** Ann J. Brorsen, Keri R. Rogelet, 2011-05-16 Pediatric CCRN Certification Review is an essential guide for critical care nurses preparing for the Pediatric CCRN exam Containing more than 1 200 practice questions with rationales representative of those found on the Pediatric CCRN exam it offers a succinct yet comprehensive review of the core material Organized to provide essential test taking strategies and techniques for passing the exam Pediatric CCRN Certification Review explores the Synergy Model cardiovascular and pulmonary systems neurology renal gastrointestinal hematology immunology endocrine multisystem and behavioral issues Included with the book is an online access code for JB TestPrep our online interactive testing program to help you pass the exam Don t forget to visit our new nursing certification website www.NursingCertificationSuccess.com *The Cleveland Clinic Foundation Intensive Review of Internal Medicine* James K. Stoller, 2014-02-20 Succeed on internal medicine board certification and recertification exams with Cleveland Clinic Intensive Board Review of Internal Medicine 6e The new edition contains ancillary and online exclusive content drawing from the expertise of the distinguished Cleveland Clinic faculty Taking a more clinical approach than other review texts this practical resource includes a unique and well structured set of exercises that offer a challenge at the end of each chapter

Textbook of Post-ICU Medicine: The Legacy of Critical Care Robert D. Stevens, Nicholas Hart, Margaret S. Herridge, 2014-05-29 Surviving critical illness is not always the happy ending we imagine for patients Many ICU survivors suffer from a range of long lasting physical and psychological issues such end stage renal disease congestive heart failure cognitive impairment neuromuscular weakness and depression or anxiety which affect their overall quality of life and ability to lead productive lives This lingering burden or legacy of critical illness is now recognized as a major public health issue

with major efforts underway to understand how it can be prevented mitigated or treated The Textbook of Post ICU Medicine The Legacy of Critical Care discusses the science of the recovery process and the innovative treatment regimens which are helping ICU survivors regain function as they heal following trauma or disease Describing the major clinical syndromes affecting ICU survivors the book delineates established or postulated biological mechanisms of the post acute recovery process and discusses strategies for treatment and rehabilitation to promote recovery in the ICU and in the long term The chapters are written by an interdisciplinary panel of leading clinicians and researchers working in the field The book serves as a unique reference for general practitioners internists and nurses caring for long term ICU survivors as well as specialists in intensive care medicine neurology psychiatry and rehabilitation medicine

Bedside Critical Care Manual 3rd Edition Volume I Edward D. Chan, Lance S. Terada, John Kortbeek, Brent W. Winston, 2017-12-20 A practical manual for clinicians in the care of critically ill patients covering Acid base Disorders Cardiology Intravenous Drug Dosages Electrolyte Disorders Endocrinology Environmental Critical Care Ethics Gastroenterology Hematology Hemodynamic Monitoring Infectious Diseases

Oxford Textbook of Critical Care Derek Angus, Simon Finfer, Luciano Gattioni, Mervyn Singer, 2019-12-03 Now in paperback the second edition of the Oxford Textbook of Critical Care addresses all aspects of adult intensive care management Taking a unique problem orientated approach this is a key resource for clinical issues in the intensive care unit

Neonatal Certification Review for the CCRN and RNC High-Risk Examination Keri Rogelet, Ann Brorsen, 2010-10-22 Review Guides Certification Prep Pocket Guides

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Restraint-Free Care Lois K. Evans, DNSc, FAAN, RN, Neville E. Strumpf, PhD, RN, C, FAAN, Joanne Patterson Robinson, PhD, RN, Joan Stockman Wagner, MSN, CRNP, 1998-09-15 This book is designed to help clinicians administrators students and families attain the goal of restraint free care of the elderly Written by leading experts in the field the book contains specific strategies for understanding behavior making constructive changes in the individual s environment and managing the risk of falls and interference with necessary treatments It is organized in outline form to highlight critical material and to be readily adaptable as a quick reference The authors use individualized care as the book s underlying philosophy The goals of individualized care include promoting comfort and safety optimizing function and independence and achieving the greatest possible quality of life Such care requires clinicians to make sense of behavior

rather than to control responses of clients Numerous case studies tables and figures illustrate this practical and information packed manual Lists of resources are also included **Textbook of Pulmonary and Critical Care Medicine Vols 1 and 2** SK Jindal,PS Shankar,Suhail Raoof,Dheeraj Gupta,2011-01-31 This book published in two volumes Both volume divided in twenty three sections all sections and chapters are most important The Textbook of Pulmonary and Critical Care Medicine also offers a unique exposure to the problems in many parts of the world Tuberculosis the number one treatable condition has been extensively covered and special topics such as multi drug resistance directly observed therapy TB prevention nonpharmacologic approaches and extrapulmonary tuberculosis are particularly relevant Many countries are facing a growing burden of noncommunicable respiratory diseases They have become the second leading cause of death after injuries and their impact on indirect costs such as loss of work and home productivity is enormous These problems are addressed and measures of prevention such as smoking cessation are included Other special challenges including topics such as indoor and outdoor air pollution climate change poisoning with pesticides snakebite toxicity pulmonary manifestations of tropical infections and industrial accidents such as the tragedy seen in Bhopal Madhya Pradesh with methyl isocyanate have been well covered However as globalization flattens the playing field and countries leap to industrialization cultural beliefs natural resources climate and geography have slowed the pace of development in many parts of the world Poverty leads to malnutrition homelessness lack of education and poor access to health care Overcrowded cities and rural underdevelopment are other challenges that impact health in the various parts of the world Moreover epidemics of HIV drug abuse and smoking addiction take a greater toll on the population Yes the world is flat but the terrain is filled with mountains and valleys and local problems demand local solutions And these local problems need to be explored and presented with a scholarly perspective The Textbook of Pulmonary and Critical Care Medicine has successfully incorporated these sociodemographic factors into the subject matter The text is well written and the chapters are carefully referenced with subjects found in all traditional pulmonary and critical care textbooks e g airway diseases interstitial lung disease pleural disease pulmonary neoplasia pulmonary infection sleep and critical care There are several nontraditional sections as well that are practical and especially helpful to the practicing physician These include a section on the symptom approach to lung disease an overview of the pharmacologic agents used to treat lung disease and a comprehensive review of methods in lung diagnosis from the simple history and physical examination to the latest complex tools of interventional pulmonology The textbook is especially unique because of the abundance of illustrations flow charts and tables There are many radiographic and pathologic reproductions that are especially helpful *Advances and Challenges in Critical Care, An Issue of Clinics in Chest Medicine* Shyoko Honiden,2015-09-03 Drs Honiden and Siner have put together a comprehensive issue on Critical Care as it relates to Chest Medicine Articles include Recent advances in management of Acute respiratory distress syndrome Simulation training for critical care Telemedicine E ICU issues Adverse event reporting quality improvement in the ICU ICU Mobility Hospital

acquired infections resistant organisms emerging pathogens Circadian rhythm disturbance and sleep in the ICU environment
Advances in Sepsis Research Controversies in ICU nutrition and more **Tintinalli's Emergency Medicine: A**

Comprehensive Study Guide, Seventh Edition Judith Tintinalli, J. Stapczynski, O. John Ma, David Cline, Rita Cydulka, Garth Meckler, 2010-11-12 The landmark emergency medicine text is now in full color 17 additional chapters available for download With 418 contributors representing over 120 medical centers around the world Tintinalli's Emergency Medicine is the most practical and clinically rigorous reference of its kind It covers everything from prehospital care disaster preparedness and basic resuscitative techniques to all the major diseases requiring emergency treatment such as pulmonary emergencies renal and GU disorders and hemophilia This authoritative in depth coverage makes this classic text indispensable not only in emergency departments but also for residents and practitioners when studying or preparing for any exam they may face While continuing to provide the most current information for acute conditions the seventh edition of Tintinalli's Emergency Medicine has been substantially revised and updated to cover all of the conditions for which patients seek emergency department care in a concise and easy to read manner NEW Features Full color design with more figures and tables than ever Reader friendly chapter presentation makes it easy to find important material Updated tables covering drugs and important clinical information Patient safety considerations and injury prevention are integrated into chapters as appropriate Total revision of the dermatology section enables diagnosis by lesion description and body area affected and provides current treatment Organ systems sections reorganized to reflect considerations for actual clinical practice New chapters New adult chapters include Natural Disasters Aneurysms of the Aorta and Major Arteries Hip and Knee Pain Aortic Dissection Acute Urinary Retention Subarachnoid Hemorrhage and Intracranial Bleeding Clotting Disorders Community acquired Pneumonia and Noninfectious Pulmonary Infiltrates Type I Diabetes Type II Diabetes Anemia Tests of Hemostasis Clotting Disorders Head Injury in Adults and Children the Transplant Patient Grief Death and Dying and Legal Issues in Emergency Medicine Twelve new pediatric chapters including The Diabetic Child Hematologic Oncologic Emergencies Ear and Mastoids Eye Problems in Infants and Children Neck Masses GI Bleeding Nose and Sinuses Urologic and Gynecologic Procedures in children Renal emergencies in children Behavioral and Psychiatric Disorders in children Pediatric Procedures Pediatric ECG Interpretation Greater coverage of procedures throughout for the most common conditions seen in the emergency department Available content for download includes an additional 17 chapters such as Hyperbaric Oxygen Therapy Principles of Imaging Prison Medicine Military Medicine The Violent Patient Forensics Wound Ballistics and Drug Interactions Free downloads also feature videos and animations for teaching and learning performance of important procedures especially Ultrasound Guided Procedures **ACCCN's Critical Care Nursing** Doug Elliott, Leanne Aitken, Wendy Chaboyer, Andrea Marshall, 2007 Developed in conjunction with the Australian College of Critical Care Nurses ACCCN the text has been written and edited by the most senior and experienced critical care nursing clinicians and academics across the region ACCCN's

Critical Care Nursing is a resource that will foster the development of skilled and confident critical care nurses This comprehensive text provides detailed coverage of a number of specialty areas within critical care nursing including intensive care emergency nursing cardiac nursing neuroscience nursing and acute care It will encourage students to be reflective practitioners ethical decision makers and providers of evidence based care Written by expert clinicians academics and educators Pedagogically rich chapters with learning objectives key terms case studies practice tips article abstracts learning activities research vignettes Heavily illustrated and referenced Reflects current clinical practice policies procedures and guidelines The text has a patient centred approach and will provide students with a sound knowledge base and critical thinking skills Image bank of all illustrations from the text will be available to lecturers for teaching *PCCN Certification Review* Ann J. Brorsen, Keri R. Rogelet, 2009 PCCN Certification Review is an exceptional resource that takes critical care nurses through the entire PCCN certification process guiding them through the procedures for registering for the exam offering test taking strategies and providing the various resources and paperwork they need to complete their certification Includes a free CD ROM of practice questions Journal of Special Operations Medicine ,2008

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