# Vasopressors and Inotropes

Drug	Mechanism of Action	Common Uses	Typical Dosing	Onset/Duration of Action	Adverse Effects
Phenylephrine	Alpha-1 adrenergic agonist	Distributive shock, hypotension with tachycardia	0.4-9.1 cg/kg/min	Onset: Immediate Duration: 15-30 minutes	Splanchnic hypoperfusion, extensive peripheral vasoconstriction (at higher doses)
Norepinephrine	Mixed alpha-1 and beta-1 adrenergic agonist	Distributive shock	0.05-0.5 mcg/kg/min	Onset Immediate Duration: 1-2 minutes	Arrhythmias, peripheral vasoconstriction
Epinephrine	Mixed alpha-1 and beta-1 adrenergic agonist	Distributive shock, cardiac arrest, anaphylaxis, heart block, bradycardia	0.05-0.5 mcg/kg/min	Onset: Immediate Duration: Up to 60 minutes	Splanchnic hypoperfusion, increased myocardial oxygen demand
Dopamine	Mixed dopaminergic, beta-1, alpha-1 adrenergic agonist (dose-dependent)	Distributive shock, bradycardia	Low dose: 1-3 mcg/kg/min Moderate dose: 3-10 mcg/kg/min High dose: 10-20 mcg/kg/min	Onset: 5 minutes Duration: 10 minutes	Tachycardia, cardiac arrhythmias
Vasopressin	V1 receptor agonist	Refractory septic shock, GI bleeding, diabetes insipidus	0.01-0.04 units/min	Onset Immediate Duration: 10-30 minutes	Splanchnic hypoperfusion
Dobutamine	Beta-1 adrenergic receptor agonist	Cardiogenic shock, decompensated heart failure	2-20 mcg/kg/min	Onset: 1-10 minutes Duration: 2-10 minutes	Hypotension, increased myocardial oxygen demand
Milrinone	Phosphodiasterase-3 inhibitor	Cardiogenic shock, decompensated heart failure	LD: 50 mcg/kg over 10 minutes MD: 0.375-0.75 mcg/kg/min	Onset: 5-15 minutes Duration: 2-3 hours	Hypotension, thrombocytopenia, arrhythmias
Isoproterenol	Beta-1 and beta-2 adrenergic receptor agonist	Bradyamhythmias, AV block	2-20 mcg/min	Onset: Immediate Duration: 10-15 minutes	Hypotension, arrhythmias

# **Icu Drips And Purpose**

Joseph E. Parrillo, R. Phillip Dellinger

#### **Icu Drips And Purpose:**

Handbook of ICU Therapy John Fuller, Jeff Granton, Ian McConachie, 2015 A concise and practical summary of principles of therapy for critically ill patients fully updated with thirteen new chapters The Massachusetts General Hospital Handbook of Neurology Alice W. Flaherty, Natalia S. Rost, 2011-12-26 Now in its revised updated Second Edition this pocket sized handbook is a practical guick reference guide to the diagnosis and management of neurologic diseases It presents specific management recommendations in a succinct outline format and includes protocols step by step tests and procedures and treatment algorithms This handbook is unique in its inclusion of material from related disciplines such as general medicine cardiology psychiatry neurosurgery neuroanatomy and radiology The authors offer guidance in using contemporary neuroimaging techniques in diagnosis Adult CCRN® Exam Prep Study Guide Springer Publishing Company, 2023-03-15 Adult CCRN Exam Prep Study Guide gets right to the point with targeted content based on the latest AACN exam blueprint This easy to follow guide includes all the tools you need to prepare practice and pass the exam and nothing you don t PREPARE Concise coverage of the content you ll be tested on Quick reference features with complications alerts and nursing pearls Need to know information to prepare you for exam day PRACTICE Two full length practice tests one in book and one online to assess your readiness and simulate the test taking experience Detailed rationales for correct and incorrect answers Pop guizzes that highlight key information you don't want to miss PASS The first time with Springer Publishing Exam Prep's 100% Pass Guarantee With confidence knowing you re well prepared with all the skills and knowledge you need on exam day and in practice With pride in your commitment to patient health and safety CCRN is a registered trademark of the American Association of Critical Care Nurses AACN AACN does not endorse this resource nor does it have a proprietary relationship with Springer Publishing Company Manual of Extracorporeal Membrane Oxygenation (ECMO) in the ICU Poonam Malhotra Kapoor, 2013-09-30 Extracorporeal Membrane Oxygenation ECMO is a procedure that uses a machine to take over the work of the lungs and sometimes the heart The system provides heart lung bypass support using a pump to circulate blood through an artificial lung back into the bloodstream providing enough oxygen to the patient whilst allowing time for the lungs and heart to rest or heal during or after serious illness ECMO is often used for babies but can also be used for children and adults Medline Plus The techniques for ECMO require professionals from multidisciplinary background to be involved in the procedure This practical manual is a comprehensive guide to ECMO Divided into eleven sections the book begins with an introduction to the procedure and equipment The following sections provide step by step discussion on initiation maintenance of support and monitoring and techniques of ECMO for different case scenarios The final sections present multiple choice questions for self assessment and extensive appendices Key points Comprehensive guide to Extracorporeal Membrane Oxygenation ECMO Highly relevant for intensivists anaesthesiologists surgeons paediatricians and cardiologists Includes section of multiple choice questions for self assessment More than 186 full colour images and

illustrations The Intensive Care Unit Manual Paul N. Lanken, Scott Manaker, Benjamin A. Kohl, C. William Hanson, 2013-09-26 Intensive Care Unit Manual is a practical hands on how to manual that covers the full spectrum of conditions encountered in the ICU guiding you step by step from your initial approach to the patient through diagnosis and treatment Compact affordable and comprehensive the ICU Manual puts all the critical care information you need right at your fingertips Stay at the forefront of critical care with a practice oriented relevant and well illustrated account of the pathophysiology of critical disease presented in a highly readable format Gain valuable insight into the recognition evaluation and management of critical conditions such as respiratory hemodynamic and infectious diseases management of ICU patients with special clinical conditions cardiovascular hematologic and neurological disorders poisoning and overdoses trauma and burns and much more Grasp the latest developments in critical care with extensive updates and revisions to several key chapters as well as brand new chapters on Alcohol Withdrawal Syndromes Acute Heart Failure Syndromes Noninvasive Ventilation and more ICU conditions Understand and apply the most important ICU practices including management of acute respiratory failure mechanical ventilation invasive hemodynamic monitoring and the care of patients with special needs AIDS end stage renal disease or end stage liver disease Get convenient access to the full text and image library online at Expert Consult in addition to online only text figures and tables from the Alcohol Withdrawal Syndromes and Acute Heart Failure <u>Critical Care Bedside Reference</u> Wendy Swope, 2011-07-16 Need to know how to correct Syndromes chapters hyponatremia what about setting initial vent parameters Are you familiar with RSI and ICP's Critical Care Bedside Reference is loaded with this information and more including electrolyte replacement charts acid base problems and metabolic disorders Critical Care Bedside Reference contains the facts you need it is not a study guide Who needs this book Doctors Nurses medical students nursing students anyone who wants to perform at the peak of their profession The Massachusetts General Hospital Handbook of Neurology Alice Flaherty, Natalia S. Rost, 2007 Now in its revised updated Second Edition this pocket sized handbook is a practical guick reference guide to the diagnosis and management of neurologic diseases It presents specific management recommendations in a succinct outline format and includes protocols step by step tests and procedures and treatment algorithms This handbook is unique in its inclusion of material from related disciplines such as general medicine cardiology psychiatry neurosurgery neuroanatomy and radiology The authors offer Surgical Critical Care Therapy Ali Salim, Carlos guidance in using contemporary neuroimaging techniques in diagnosis Brown, Kenji Inaba, Matthew J. Martin, 2018-05-03 This text provides a comprehensive state of the art review of this field and will serve as a valuable resource for clinicians surgeons and researchers with an interest in surgical critical care The book reviews up to date data regarding the management of common problems that arise in the Surgical Intensive Care Unit The protocols care bundles guidelines and checklists that have been shown to improve process measures and in certain circumstances are discussed in detail The text also discusses several well designed randomized prospective trials conducted

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Practical Emergency Resuscitation and Critical Care Kaushal Shah, Jarone Lee, Clark G. Owyang, Benjamin Christian Renne, 2023-11-23 The second edition of a succinct and portable text reviewing the clinical approach to emergency medicine and critical care Technology in the ICU, An Issue of Critical Care Nursing Clinics of North America Shu-Fen Wung, 2018-05-11 Dr Wung is addressing an important component of critical care nursing the role of technology in patient care She has assembled top authors to provide current clinical information in the following areas Sensory overload and technology in critical care Alarm fatigue Nurse technology Interactions Safety steps to prevent Infusion errors Product design and medical devices for nurses Technologies to assess physiologic parameters hemodynamics cardio output Technologies to support hemodynamics e q balloon pump ECMO etc Interactive computer programs for application of critical thinking skills Information technology Electronic health records EHR Real time detection of clinical care deviations in ICU Medication safety technology and eICU iCARE Readers will come away with the updates they need to improve patient Principles and Practice of Cancer Infectious Diseases Amar Safdar, 2014-07-08 Principles and Practice of outcomes Cancer Infectious Diseases is a comprehensive and insightful work dedicated to elucidating the problem of infections in cancer patients This essential volume reviews common and less often encountered infections while establishing the difficulties behind preventing diagnosing and treating infectious diseases in cancer patients Key sections are devoted to the presentation of clinical symptoms and the identification of major etiologic agents A cadre of leading clinicians provide a detailed assessment of the risk factors for various infections critical strategies in preventing and managing infections and study of the interactions between the pathogen and host s immune function and inflammatory response With its in depth knowledge and concise treatment of the distinct facets of infections in cancer patients this volume is an indispensible tool for all infectious disease specialists and clinical oncologists Critical Care Neurology Part II ,2017-01-25 Critical Care Neurology Part II Neurology of Critical Illness focuses on the care specialists and general neurologists that consult in the ICU and their work with patients in acute life threatening situations who are dealing with neurologic or neurosurgical crises emanating from either a preexisting neurologic syndrome or from a new neurologic complication appearing as a result of another medical or surgical critical illness These two separate clinical situations form the pillars of neurocritical care hence

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strengthening of associated health systems Background is provided on the extent of the problems that are experienced in many nations with suggestions for how suitable frameworks can be developed to improve cardiac healthcare provision Relevant aspects of governance financial modelling and disease surveillance are all covered Guidance is also given on how to found and nurture cardiac surgery curriculum and residency programs Global Cardiac Surgery Capacity Development in Low and Middle Income Countries provides a practically applicable resource on how to treat cardiac patients with limited resources It identifies the key challenges and presents strategies on how these can be managed therefore making it a critical Diabetes, An Issue of Critical Care Nursing Clinics Celia Levesque, 2013-03-28 tool for those involved in this field This issue of Critical Care Nursing Clinics Guest Edited by Celia Levesque RN MSN NP C CNS BC CDE BC ADM from MD Anderson will focus on Diabetes Article topics will include Management of Diabetes in the Clinical Setting Hyperglycemia management after solid organ transplantation Insulin therapy in the hospitalized patient Limb salvage for Vetrans with diabetes and Management of steroid induced hyperglycemia in the ICU **Clinical Wisdom and Interventions in Acute** and Critical Care, Second Edition Patricia Hooper-Kyriakidis, Daphne Stannard, 2011-03-28 2011 AJN Book of the Year Winner in Critical Care Emergency Nursing This book is a lavishly detailed guide to the essence of becoming an expert nurse I believe this book will secure a place on most educators and expert clinicians bookshelves Every once in a while a better book comes along this is one of those times From the foreword by Joan E Lynaugh PhD RN FAAN Professor Emeritus University of Pennsylvania School of Nursing A classic research based text in nursing practice and education this newly revised second edition explains through first hand accounts of the hard earned experiential wisdom of expert nurses the clinical reasoning skills necessary for top tier nursing in acute and critical settings It provides not only the most current knowledge and practice innovations but also reflects the authors vast experience using the first edition in practice and educational settings This updated edition includes new interviews from acute care critical care perioperative nurses and more Attention is paid to current IOM and nursing guidelines for systems approaches to patient safety with education and leadership implications described throughout It is an essential resource for undergraduate and graduate nursing educators students administrators and managers seeking to improve systems of care and leadership in clinical practice Key Features Articulates major areas of knowledge and skill in acute critical care and perioperative nursing practice Provides vivid first hand accounts of hard earned wisdom that facilitate clinical imagination reflection and lifelong learning Assists faculty educators APNs and mentors in teaching nurses how to recognize recurring clinical syndromes and patterns Bridges the gap from theory to practice in dynamic patient care situations Embraces the complexity of caring for the critically ill and their families Critical Care Medicine E-Book Joseph E. Parrillo, R. Phillip Dellinger, 2018-11-12 Now completely revised to bring you up to date with the latest advances in the field Critical Care Medicine Principles of Diagnosis and Management in the Adult 5th Edition delivers expert practical guidance on virtually any clinical scenario you may encounter in the ICU

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