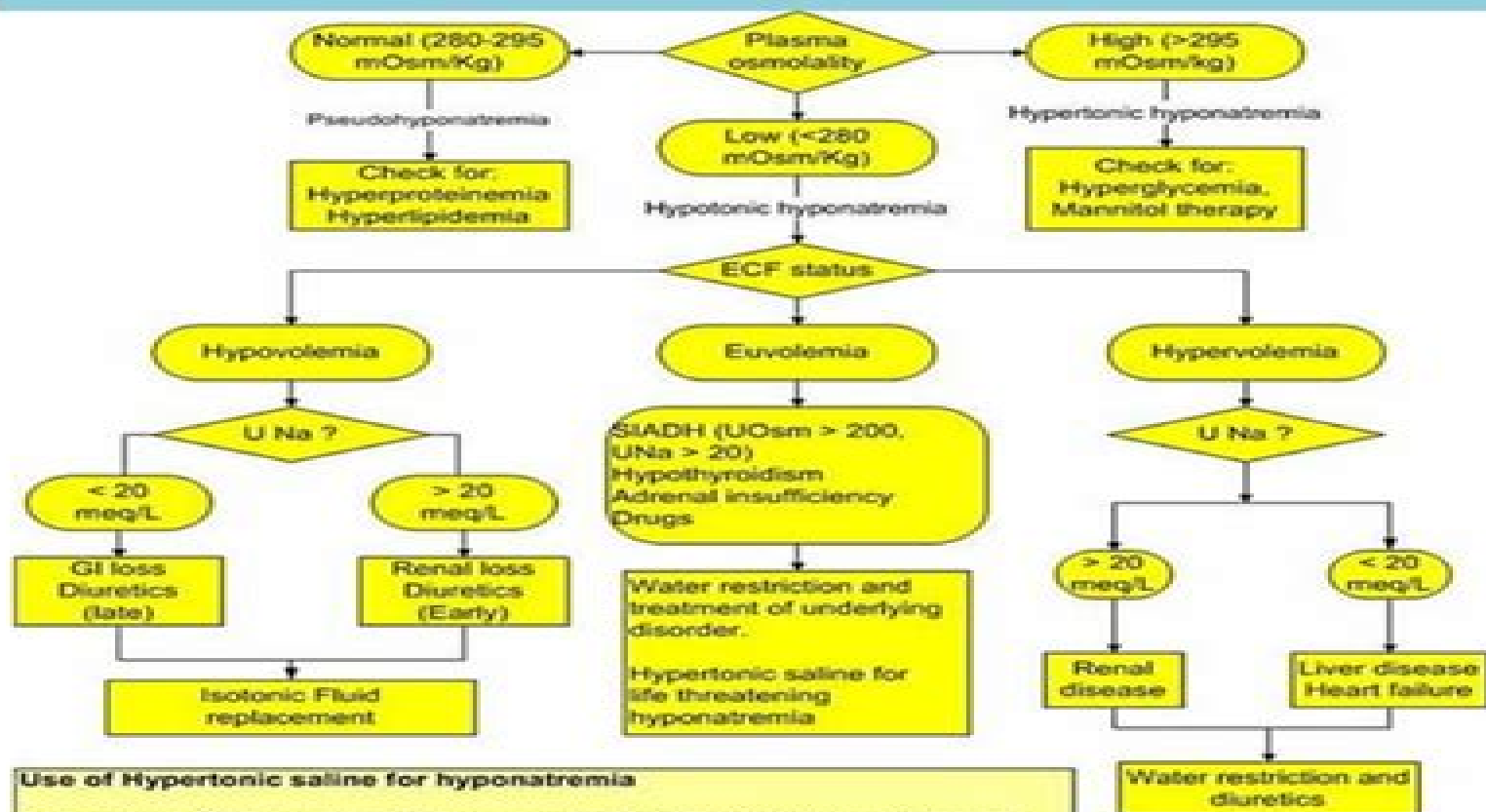


## Hyponatremia (Na < 135 meq/L)



### Use of Hypertonic saline for hyponatremia

**Indications:** Severe hyponatremia causing life-threatening symptoms e.g. seizures

**Rate of correction:** Not to exceed > 2.5 meq/l/hr or 15 meq/l/day

**Calculation:** meq NaCl needed =  $0.6 \times \text{Wt in Kg} \times (\text{Desired Na} - \text{Actual Na})$   
 1 Lit 3% NaCl = 513 meq NaCl  
 3% NaCl in ml needed =  $\frac{(\text{meq NaCl needed} \times 1000)}{513}$

**Rate of infusion:** Adjust to increase Na at 1-2.5 meq/L/hr

**Check:** Na Q 4 hrs

# Icu Guidelines And Protocols

**Jean-Louis Vincent**



## **Icu Guidelines And Protocols:**

*ICU Protocols* Rajesh Chawla, Subhash Todi, 2012-10-10 The book describes step wise management of clinical emergencies seen every day in Intensive care units ICUs As a practical guide clinicians can refer to it on a day to day basis during their work hours or while in transit to update their knowledge Targeted readers are intensivists critical care specialists and residents involved in the care of patients admitted in ICUs This handbook covers an array of specialities such as cardiology pulmonology gastroenterology neurology nephrology traumatology and toxicology This monograph provides point of care treatment guidance and will serve as a ready reckoner for physicians to quickly learn the management steps in a methodical manner

*Critical Care* Narendra Rungta, Rajesh Pande, Manish Munjal, Sudhir Khunteta, 2015-02-20

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*Infectious Diseases in Critical Care* Jordi Rello, Martin H. Kollef, Emilio Díaz, Alejandro Rodríguez, 2010-05-28 Infections and their complications are a very important clinical area in the intensive care unit setting Community acquired infections and nosocomial infections both contribute to the high level of disease acquisition common among critically ill patients The accurate diagnosis of nosocomial infections and the provision of appropriate therapies including antimicrobial therapy effective against the identified agents of infection have been shown to be important determinants of patient outcome Critical care practitioners are in a unique position in dealing with infectious diseases They are often the initial providers of care to seriously ill patients with infections Additionally they have a responsibility to ensure that nosocomial infections are prevented and that antimicrobial resistance is minimized by prudently employing antibiotic agents It is the editors hope that this book will provide clinicians practicing in the intensive care unit with a reference to help guide their care of infected patients To that end they have brought together a group of international authors to address important topics related to infectious diseases for the critical care practitioner

**Critical Care Medicine** Joseph E. Parrillo, MD, FCCM, R. Phillip Dellinger, MD, MS, 2013-12-05 Take the best possible care of adult critical care patients with Critical Care Medicine Principles of Diagnosis and Management in the Adult Editors Dr Joseph Parrillo and Dr Phillip Dellinger two of the most respected names in critical care medicine combine their extensive knowledge with that of hundreds of top authorities in the field to bring you expert state of the art answers to any clinical question you may face in the intensive care unit Offer your adult critical care patients the most effective care with practical evidence based guidance from many of the most trusted experts in critical care medicine Learn from the best ICU specialists worldwide with contributions from an increased number of international authorities Effectively manage common complications in the ICU with updated coverage of severe sepsis septic shock surgical infections neurogenic and anaphylactic shock severe heart failure acute coronary syndromes and Acute Respiratory Distress Syndrome Access the complete contents online at Expert Consult along with an image bank and instructional videos

Principles of Critical Care in Obstetrics Alpesh Gandhi, Narendra Malhotra, Jaideep Malhotra, Nidhi Gupta, Neharika Malhotra Bora, 2016-03-02 Critical care in obstetrics is an upcoming specialty in the developing countries This book is first of its kind as there are very few books written on this subject with the South East Asian perspective The book discusses various aspects of critical care in obstetrics starting from the basic principles physiology ethics monitoring and organization of a

critical care unit The various chapters cover management of life threatening illnesses involving various organ systems of the body of a pregnant woman Furthermore the management of a pregnant woman is unique as it involves not only management of the patient but the developing fetus in her womb as well This book aims to help the obstetricians postgraduate students and critical care providers with the management protocols in dealing with critically ill pregnant women *Intensive Care Medicine* Jean-Louis Vincent,2009-02-20 Intensive Care Medicine compiles the most recent developments in experimental and clinical research and practice in one comprehensive reference book The chapters are written by well recognized experts in the field of intensive care and emergency medicine It is addressed to everyone involved in internal medicine anesthesia surgery pediatrics intensive care and emergency medicine Evidence-Based Practice of Critical Care E-Book Clifford S. Deutschman,Patrick J. Neligan,2019-08-29 Approach any critical care challenge using a practical consistent strategy based on best practices with Evidence Based Practice of Critical Care 3rd Edition Unique question based chapters cover the wide variety of clinical options in critical care examine the relevant research and provide recommendations based on a thorough analysis of available evidence Drs Clifford S Deutschman and Patrick J Nelligan along with nearly 200 critical care experts provide a comprehensive framework for translating evidence into practice helping both residents and practitioners obtain the best possible outcomes for critically ill patients Covers a full range of critical care challenges from routine care to complicated and special situations Helps you think through each question in a logical efficient manner using a practical consistent approach to available management options and guidelines Features revised and updated information based on current research and includes all new cases on key topics and controversies such as the use overuse of antibiotics drug resistance in the ICU non invasive mechanical ventilation frequency of transfusions and duration of renal replacement therapies Provides numerous quick reference tables that summarize the available literature and recommended clinical approaches Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices **Critical Care Medicine** John J. Marini,Arthur P. Wheeler,2012-03-28 Ideally suited for students in critical care rotations and residents this concise practical handbook presents the essentials of medical and surgical critical care in an easy to read format The authors succinctly explain the pathophysiology underlying clinical disorders and the key principles of diagnosis and patient management emphasizing cost effective approaches The Fourth Edition includes Controversies in Critical Care boxes in many chapters which briefly summarize opposing arguments on controversial points Other highlights include enhanced discussion of CT for abdominal disorders new ACLS guidelines and new material on removable IVC filters interventional radiologic techniques for GI bleeding and use of vascular ultrasound Concepts and Principles in Critical Care Nursing Mr. Rohit Manglik,2024-03-22 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and

well structured content tailored to meet the needs of students across various streams and levels      *Critical Care Administration* Jorge Hidalgo, Javier Pérez-Fernández, Gloria Rodríguez-Vega, 2020-01-10 This book provides a state of the art overview on critical care administration The text reviews important aspects and considerations involved in developing an efficient cost effective critical care program while maintaining a safe and high quality work environment Major topics covered include different models of critical care services planning and budgeting administration support staffing models tele smart ICU protocols and guidelines and disaster preparedness and management Written by experts in the field Critical Care Administration A Comprehensive Clinical Guide is a practical handy resource for critical care professionals involved in the administration and management of ICUs      **IAP Textbook of Pediatric ICU Protocols** Praveen Khilnani, Santosh T Soans, Vinayak Patki, 2019-05-31 Section 1 Basic and Advanced Life Support 1 Approach to a Sick Child 2 Choking 3 Approach to a Child with Respiratory Insufficiency 4 Airway Management 5 Rapid Sequence Intubation 6 Tachyarrhythmias 7 Bradycardia 8 Cardiac Arrest 9 Cardiopulmonary Resuscitation 10 Cardioversion and Defibrillation 11 Postresuscitation Management Section 2 Shock 12 Assessment of Shock in Children 13 Approach to Management of Shock in Child 14 Management of Septic Shock 15 Anaphylactic Shock in Children Section 3 Basic Mechanical Ventilation 16 Noninvasive Ventilation 17 High flow Nasal Cannula 18 Disease specific Mechanical Ventilation 19 Troubleshooting in Mechanical Ventilation 20 Weaning from Ventilation 21 Extubation in Children 22 Prone Positioning 23 Recruitment Maneuvers 24 Tracheostomy in Children Section 4 Advanced Ventilation 25 High Frequency Ventilation 26 Inhaled Nitric Oxide 27 Extracorporeal Membrane Oxygenation in Pediatric Intensive Care Unit Section 5 Central Nervous System 28 Coma 29 Raised Intracranial Pressure 30 Pediatric Head Trauma 31 Status Epilepticus Section 6 Infections and Antimicrobials in Pediatric Intensive Care Unit 32 Tropical Fever in Pediatric Intensive Care Unit 33 Dengue 34 Malaria 35 Enteric Fever 36 Japanese Encephalitis 37 Leptospirosis 38 Antibiotics in Pediatric Intensive Care Unit 39 Antifungals in Pediatric Intensive Care Unit Section 7 Hospital acquired Infections in Pediatric Intensive Care Unit 40 New Fever in Intensive Care Unit 41 Ventilator associated Pneumonia 42 Catheter associated Urinary Tract Infections CAUTI 43 Central Line associated Bloodstream Infections CLABSI Section 8 Metabolic and Endocrine System 44 Diabetic Ketoacidosis 45 Hypoglycemia 46 Acute Adrenal Insufficiency in Critically Ill Child 47 Syndrome of Inappropriate Antidiuretic Hormone and Cerebral Salt Wasting Syndrome 48 Metabolic Encephalopathies and Inborn Error of Metabolism 49 Hyperammonemia Section 9 Arterial Blood Gas 50 Interpretation of Arterial Blood Gas 51 Acidosis 52 Alkalosis Section 10 Fluids 53 Fluid Therapy in Pediatric Intensive Care Unit Section 11 Electrolytes 54 Hyponatremia 55 Hypernatremia 56 Hypokalemia 57 Hyperkalemia 58 Hypocalcemia 59 Hypercalcemia 60 Hypomagnesemia Section 12 Hematology 61 Bleeding Child 62 Disseminated Intravascular Coagulation 63 Transfusion Guidelines in Pediatric Intensive Care Unit 64 Transfusion Reactions 65 Oncological Emergencies Section 13 Poisoning Envenomation 66 Approach to a Child with Poisoning 67 Paracetamol

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**Civetta, Taylor, & Kirby's Critical Care** Joseph M. Civetta, 2009 Now in its fourth edition this leading critical care textbook contains more than 30 new chapters and completely updated information The book addresses every problem encountered in the intensive care unit and covers surgical critical care more thoroughly than any other text

**Advanced Monitoring and Procedures for Small Animal Emergency and Critical Care** Jamie M. Burkitt Creedon, Harold Davis, 2023-05-16 Advanced Monitoring and Procedures for Small Animal Emergency and Critical Care Detailed standardized step by step protocols for easy access to essential information in small animal emergency rooms and intensive care units Advanced Monitoring and Procedures for Small Animal Emergency and Critical Care Second Edition offers a complete and clinically oriented reference for step by step detail on a wide range of procedures in the small animal emergency room and intensive care unit Each protocol provides detailed instructions grounded in the evidence The book is carefully designed for ease of use with concise but comprehensive explanations useful equipment lists protocols called out in boxes and extensive reference lists In the revised and expanded Second Edition information has been updated and expanded throughout and information and chapters have been added in many important areas including veterinary point of care ultrasound VPOCUS veterinary CPR blood banking and transfusion medicine advanced techniques for mechanical ventilation and veterinary health care team wellbeing A companion website offers the protocols in Word for editing and use in practice and the figures from the book in PowerPoint Specific topics covered in Advanced Monitoring and Procedures for Small Animal Emergency and Critical Care include The cardiovascular system covering catheterization of the venous compartment arterial puncture and catheterization cardiac VPOCUS principles of electrocardiography and electrocardiogram interpretation The respiratory system covering oxygen therapy pulse oximetry and CO oximetry blood gas analysis pleural space and lung VPOCUS tracheal intubation and temporary tracheostomy The urinary and abdominal systems covering urethral catheterization abdominal VPOCUS peritoneal dialysis technical management of hemodialysis patients and peritoneal evaluation Transfusion medicine covering blood banking blood typing cross matching and administration of blood and other biological products Advanced Monitoring and Procedures for Small Animal Emergency and Critical Care presents invaluable and accessible information for emergency situations making it a highly useful reference for veterinary practitioners veterinary technicians and nurses veterinary students small animal emergency and critical care residents small animal emergency and critical care specialists and emergency and critical care

veterinary technicians and nurse specialists      **ICU Protocols** Rajesh Chawla, Subhash Todi, 2020-04-01 The second edition of this highly successful book includes up to date notes on the step wise management of clinical emergencies encountered in everyday intensive care units ICU Each thoroughly revised chapter provides concise information for point of care treatment making it a practical guide clinicians can refer to on a daily basis at work or while traveling or just to expand their knowledge Volume 2 of ICU Protocols covers topics in the endocrine and metabolic systems oncology trauma toxicology envenomation and thermoregulation obstetrics perioperative care pediatrics and ICU procedures Pulmonology cardiology neurology gastroenterology nephrology and infectious diseases are covered in the first volume of ICU Protocols This two volume book is a must read for intensivists critical care specialists junior trainees and residents working in ICUs It is also relevant as course material for workshops on critical care and essential for all hospital based libraries This book provides junior trainees with an introduction to the management of problems common to the critical care unit David J Dries Doody's Book Reviews March 2013 for the first edition of ICU Protocols      **Critical Care Nursing** Leanne Aitken, Andrea Marshall, Thomas Buckley, 2023-12-19 The internationally acclaimed text Critical Care Nursing is designed to support undergraduate and postgraduate students and critical care nurses in practice to develop the knowledge and skills necessary to deliver high quality patient care to contribute to improved patient outcomes The fifth edition has been fully updated with the latest evidence resources and tools designed to help you master a range of competencies from patient monitoring to delivering multidimensional interventions using complex lifesaving equipment and managing the deteriorating patient There is a focus on the scope and principles of practice quality and safety standards ethical considerations and increased support for nurses Highly regarded by clinicians and students around the world this book will encourage and challenge you to develop world class practice and ensure the delivery of the highest quality care Latest research technologies and care considerations collated by an internationally respected team of editors and contributors Case studies research vignettes and learning activities to support further learning Practice tips case studies and learning activities link theory to practice Endorsed by the Australian College of Critical Care Nurses ACCCN the peak professional organisation representing critical care nurses in Australia Accompanying adaptive quizzing to support students with assessment preparation Instructor resources on Evolve Case Study suggested responses Learning Activity suggested responses Additional Case Study answers Image Table Box collection Student and Instructor resources on Evolve Additional Case Studies Fully updated with the most recent research data procedures and guidelines from expert international critical care nursing clinicians and academics Increased focus on pandemic related considerations including COVID 19 woven throughout all chapters      **Intensive and Critical Care Medicine** Antonio Gullo, Philip D. Lumb, 2007-04-03 This volume is published under the auspices of the World Federation of Societies of Intensive Care Medicine which consists of 48 members societies both medical and nursing a truly world wide organisation and whose aim is to promote excellence in the care of critically ill patients The volume will be distributed to delegates on



occasion of the 9th International Congress of the World Federation of Societies of Intensive and Critical Care Medicine to be held in Buenos Aires at the end of August 2005

*Principles of Adult Surgical Critical Care* Niels D. Martin, Lewis J. Kaplan, 2016-10-08 This text provides a high level comprehensive but concise review of adult surgical critical care It can be used to review complex topics of critical illness in surgical patients as a reference tool or as preparation for a board examination It is focused on the surgical patient including high yield facts evidence based guidelines and critical care principles To remain succinct it concentrates on surgically relevant care Further the text is written with an expectation that reader already possesses a basic understanding of critical care pathophysiology and clinical practices such as those acquired during residency Organized by organ system each section contains several chapters addressing relevant disorders monitoring and treatment modalities and outcomes *Principles of Adult Surgical Critical Care* will be of use to intensivists caring for surgical patients regardless of parent training domain Additionally this work is intended to be used by surgical critical care fellowship trainees as well as other advanced practice providers such as nurse practitioners and physician assistants who provide care in ICUs and emergency departments alike

*Nutrition in Critical Care* Peter Faber, Mario Siervo, 2014-03-06 The association between poor nutrition and disease is well established Integrating nutritional sciences into clinical practice offers a valuable tool to improve patient care and prognosis particularly within the critical care environment where nutrition is often overlooked However optimizing nutritional support offers a safe and simple adjunct to more expensive and technologically challenging treatments for these complex patients This volume provides comprehensive guidelines for the nutritional support of critically ill patients and is valuable reading for doctors nurses dietitians and practitioners working within the critical care environment It begins by discussing nutritional physiology and patient assessment providing an essential foundation for planning and managing the dietary requirements of critically ill patients Internationally recognized authors present evidence based guidelines for managing various groups including surgical patients patients with burns and patients with renal failure The implications of enteral vs parenteral nutrition timing of nutritional support therapeutic strategies and management of complications are discussed

*Nutrition Support for the Critically Ill Patient* Gail A. Cresci PhD, 2015-04-23 Completely revised and updated *Nutrition Support for the Critically Ill Patient* A Guide to Practice Second Edition presents an unbiased evidence based examination of critical nutrition across the life cycle Taking a multidisciplinary approach each chapter has been carefully designed to provide a comprehensive review of the literature and a de

**Monitoring in Neurocritical Care E-Book** Peter D. Le Roux, Joshua Levine, W. Andrew Kofke, 2013-02-01 Ideal for neurosurgeons neurologists neuroanesthesiologists and intensivists *Monitoring in Neurocritical Care* helps you use the latest technology to more successfully detect deteriorations in neurological status in the ICU This neurosurgery reference offers in depth coverage of state of the art management strategies and techniques so you can effectively monitor your patients and ensure the best outcomes Understand the scientific basis and rationale of particular

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