

# CRITICAL CARE NURSING

## Circulatory Assist Devices

↓ workload on heart and ↑ perfusion

**IABP** → ↓ afterload + Systolic pressure

a sausage shaped balloon + pump that is controlled by a control panel. Balloon is inserted into the femoral artery and then moved to the descending thoracic artery.

Balloon inflates during diastole + deflates during Sys

- ↑ diastolic pressure
- ↑ coronary artery perfusion
- improved O<sub>2</sub> delivery + myocardium
- ↓ angina, ↓ ischemia
- ↓ afterload
- peak systolic pressure
- ↓ stroke volume
- ↓ cardiac output

**Ind:** unstable angina, up to 14 days of therapy  
Acute MI, bridge to cardiac surgery

**C/I:** irreversible brain injury, DMC, AAA, thoracic aortic aneurysm, peripheral vascular disease

**Complication:** dislodgement of plaque, aortic dissection, ↓ platelets, thrombocytopenia, infection

**VAD** → heart replaces action of Ventricle

**Ind:** failure to wean from CPB, HF caused by MI, patients awaiting heart transplant

**Nursing:** observe for bleeding, tamponade, infection, renal failure and thromboembolism.  
Implement activity plan. Provide teaching + emotional support to caregivers

## ET INTUBATION

**Ind:** upper airway obstruction, apnea, high risk of aspiration, ineffective secretion, severe respiratory distress

**Sign:** Humidifier tube placement, maintain proper cuff inflation, monitor oxygenation and ventilation, maintain patency + provide oral care  
Prevent unplanned extubation + aspiration

## SHOCK

↓ tissue perfusion

### Cardiogenic

Inadequate pumping of the heart that results in reduced cardiac output

Systolic dysfunction = ineffective pumping  
↳ ↓ SV and ↓ CO

diastolic dysfunction = ineffective filling  
↳ pulmonary edema + ↑ pulm. pressures

**S/Sx:** tachycardia, hypotension, crackles, cool clammy skin

### Hypovolemic

Loss of intravascular fluid volume

**Absolute** - hemorrhage, drainage, diuresis

**Relative** - fluid moves to extravascular space

**S/Sx:** ↑ HR, ↑ RR, ↓ SV, ↓ CVP, ↓ PAWP

## ACUTE RESPIRATORY FAILURE

Gas exchange is not functioning adequately

**Hypoxemia** = poor O<sub>2</sub> exchange → ↑ arterial O<sub>2</sub>  
PaO<sub>2</sub> < 60 mmHg

**V/Q** = ventilation vs. perfusion → Should be 1:1  
**V/Q mismatch** can impair gas exchange

**Diffusion limitation** = gas exchange is decreased due to a thickened or damaged alveoli

**Other causes:** shunt, alveolar hypoventilation

**Hypercapnia** = poor CO<sub>2</sub> removal → ↑ arterial CO<sub>2</sub>

# Icu Nurse Training Manual

**Marcel A. Müller**



## **Icu Nurse Training Manual:**

*Critical Care Manual of Clinical Nursing Procedures* Suzanne Bench, Nicki Credland, Chris Hill, 2024-10-30 Critical Care Manual of Clinical Nursing Procedures The second edition of Critical Care Manual of Clinical Nursing Procedures is a practical overview of essential procedures for the care of critically ill patients Beginning with chapters outlining the current scope of critical care the book adopts a systematic stage by stage approach from admission to discharge At each stage it provides insights into physiology key procedures and the relevant evidence base Now fully updated to incorporate the latest research and best practices this volume is poised to remain an indispensable resource for the next generation of critical care providers Readers of the second edition will find In depth beat by beat analysis of key procedures in critical care Interventions underpinned by the latest evidence Content aligned with the National Critical Care Competency Framework and endorsed by the British Association of Critical Care Nurses Critical Care Manual of Clinical Nursing Procedures is ideal for nurses working in a critical care unit nurses undertaking post qualification specialist courses in critical care or other healthcare professionals working as part of a critical care team

**Oh's Intensive Care Manual E-Book** Andrew D Bersten, Neil Soni, 2008-12-05 The sixth edition of Oh's Intensive Care Manual provides practical concise information on all aspects of intensive care Written in a clear and accessible style and now for the first time presented in colour throughout this book enables the user to manage a patient in an ICU setting effectively without recourse to large text reference works or specialized monographs This thoroughly revised and updated edition reflects the best and most current practice from leading centres in Australia the UK and Western Europe Although primarily intended for the trainee and practitioner in intensive care nurses and other allied health professionals will find that this is an invaluable tool in helping to deal with a broad spectrum of conditions encountered in the ICU Represents a consensus of practice standard of care in Australia NZ UK and Europe Treatment guidelines are authoritative since they follow those that are Recommended laid down by Professional societies Comprehensive covers all important areas of intensive care medicine Provides a single resource that will cover everything that a user will need to know during the course of an ICU rotation No need to refer to a larger textbook Information on management and treatment of conditions is balanced by pathophysiological and pharmacological background This is not just a cook book of procedures It provides all of the essential information for candidates wishing to pass professional examinations Covers the paediatric as well as the adult patient in the ICU Provides quick access and practical guidance for all clinical scenarios Extensive list of key references most taken from the last three years Helps trainees and practitioners prepare for case conference presentations Addition of colour throughout to highlight summary boxes tables charts and flow diagrams Will make key information more accessible easier and faster to retrieve Line drawings extensively re done in colour throughout Will improve the user's understanding of the physiological processes under discussion 5 10 Key points added at end of chapters Will provide the user with a useful summary of the essential bottom line information Pitfalls

in treatment and management emphasized in each chapter Provides the user with expert advice on practical issues that will be encountered on a day to day basis in the ICU Includes the most current classification and clinical scoring schemes Keeps the user abreast of the latest developments in diagnosis and management

**Oh's Intensive Care Manual - E-BOOK**

Jonathan M. Handy, Bala Venkatesh, 2025-09-19 Significantly revised from cover to cover Oh's Intensive Care Manual 9th Edition is a must have quick reference resource for ICU physicians at all levels of experience New and updated topics cover all aspects of intensive care in sufficient detail for daily practice or exam preparation while also keeping you up to date with the latest innovations in the field All content has been thoroughly reviewed to ensure coverage of contemporary exam curricula and essential clinical topics resulting in a single convenient text that covers exactly the information you need to know in every key area of intensive care medicine Balances information on management and treatment of conditions with essential pathophysiological and pharmacological background all with an increased focus on clinical management strategies to optimise patient outcomes Offers authoritative treatment guidelines covering both adult and paediatric patients in the ICU Discusses the latest developments in such areas as ARDS sepsis neurological disorders and morbid obesity Provides an increased number of summary boxes tables and charts to facilitate quick retrieval of essential information Contains new sections on Decision Making Special Populations The Post Operative Patient and more Includes numerous new chapters Allied health professionals in ICU Clinical assessment of the critically ill patient Determination of death in ICU Mechanical cardiac supports Acute aortic syndrome Overview of respiratory failure in ICU COVID 19 Neuromonitoring Pre operative assessment of high risk patient Post operative thoracic surgical patient Post operative neuro surgical patient Principles of organ procurement and donation and more Shares the knowledge and global expertise of a who's who of international specialist ICU Consultants including new editor Professor Bala Venkatesh Universities of Queensland and New South Wales Australia Provides an extensive list of important up to date references Any additional digital ancillary content may publish up to 6 weeks following the publication date Brand new Editor Professor Bala Venkatesh University of Queensland Australia Increased focus on clinical management strategies to optimize patient outcome Latest developments in such areas as ARDS Sepsis Neurological disorders morbid obesity Increased number of summary boxes tables and charts to facilitate quick retrieval of essential information

*A Nurse's Survival Guide to Critical Care - Updated Edition* Sharon L. Edwards, Joyce Williams, 2019-04-17 Are you a starting work in critical care Are you an experienced nurse but need to check guidelines and best practices This is the indispensable guide to daily procedures and problems faced by nurses working in this specialty This book will help you to Organise your job and yourself Assess patients and communicate with them Get clinical information on a wide range of conditions What to do in emergency This UPDATED edition Completely updated and revised content written by authors with extensive nursing experience in the field Physiological psychological and social areas as well as legal issues ethical and moral dilemmas that critical care nurses and health care practitioners may face on a daily basis Boxes tips and

diagrams to help bridge the theory practice gap while embarking on your critical care career Part of the A Nurse s Survival Guide series Completely updated and revised content written by authors with extensive nursing experience in the field Physiological psychological and social areas as well as legal issues ethical and moral dilemmas that critical care nurses and health care practitioners may face on a daily basis Boxes tips and diagrams to help bridge the theory practice gap while embarking on your critical care career *Manual of Surgical Intensive Care* American College of Surgeons. Committee on Pre and Postoperative Care,1977

**Priorities in Critical Care Nursing - E-Book** Linda D. Urden,Kathleen M. Stacy,Mary E. Lough,2019-01-09 NEW Updated evidence based content reflects the latest meta analyses systematic reviews evidence based guidelines and national and international protocols NEW Enhanced multimedia resources include 15 links to sample skills from Elsevier Clinical Skills and 25 3D animations NEW and UNIQUE Focus on interprofessional patient problems helps you learn to speak a consistent interprofessional language of patient problems and learn to work successfully as a team NEW and UNIQUE Integration of IPEC Core Competencies for Interprofessional Collaborative Practice incorporates the four IPEC Competencies Values Ethics Teams and Teamwork Roles Responsibilities and Interprofessional Communication into textbook content and case studies NEW Thoroughly updated case studies reflect the current flavor of high acuity progressive and critical care settings and now include questions specifically related to QSEN competencies NEW Additional content on post ICU outcomes has been added to chapters as they relate to specific disorders NEW Updated information on sepsis guidelines has been added to Chapter 26 NEW More concise boxes with new table row shading enhance the book s focus on need to know information and improve usability **Manual of Critical Care Nursing** Marianne Saunorus Baird,2015-10-01 The compact yet comprehensive Manual of Critical Care Nursing Nursing Interventions and Collaborative Management 7th Edition is your students a go to reference for to help you provide safe high quality nursing care in the clinicalcritical care settings Written in an abbreviated outline format this easy to use Manual presents essential information on more than 75 disorders and conditions as well as concepts relevant to caring for all critically ill patients and functioning in the critical care environment Award winning clinical nurse specialist Marianne Baird separates the content first by body system and then by disorder with each disorder including a brief description of pathophysiology assessment diagnostic testing collaborative management nursing diagnoses desired outcomes nursing interventions and patient teaching and rehabilitation With the latest NANDA I nursing diagnoses and new sections on Bariatric Considerations and Caring for the Elderly this practical manual is designed to help critical care nurses and nursing students better care for any critically ill patient Coverage of more than 75 disorders most commonly seen in critical care units Consistent easy to use format facilitates quick reference so you can find information exactly where you expect it to be Portable size makes it ideal for use in the unit or bedside and is also easy to carry on campus Research Briefs boxes present abstracts of selected research studies and emphasize the use of evidence to guide care recommendations NANDA approved diagnoses are marked with an icon to

familiarize you with NANDA terminology Chapters mirror a practicing nurse's approach to patient care making it quicker and easier to find information Diagnostic Tests tables highlight the definition purpose and abnormal findings for each test Collaborative Management tables concisely summarize relevant performance measures while incorporating the best available patient care guidelines Safety Alert and High Alert icons call attention to issues important to a patient's safety Chapter outlines display major heads care plans and their respective page numbers and provide easy access to disorders NEW Bariatric Considerations section added to assessment sections to help you assess and prevent complications and improve care in overweight and obese patients NEW Section on Caring for the Elderly added to assessment sections to provide you with tips and guidelines unique to elderly patients including recognizing differences in measuring pain providing appropriate nutritional support improving communication and preventing infection NEW Updated content throughout keeps you current in the field of critical care nursing NEW Geriatric icon highlights considerations relating to the care of older adults NEW The latest NANDA I nursing diagnoses ensure you stay up to date     Manual of Critical Care Nursing - E-Book Marianne Saunorus Baird, 2015-11-13 NEW Bariatric Considerations section added to assessment sections to help you assess and prevent complications and improve care in overweight and obese patients NEW Section on Caring for the Elderly added to assessment sections to provide you with tips and guidelines unique to elderly patients including recognizing differences in measuring pain providing appropriate nutritional support improving communication and preventing infection NEW Updated content throughout keeps you current in the field of critical care nursing NEW Geriatric icon highlights considerations relating to the care of older adults NEW The latest NANDA I nursing diagnoses ensure you stay up to date     **Core Curriculum for Critical Care Nursing - E-Book** JoAnn Grif Alspach, AACN, 2006-02-15 From the experts at the American Association of Critical Care Nurses AACN comes the definitive resource on administering quality nursing care to critically ill patients The 6th edition has been updated to reflect the current state of critical care nursing practice and includes new content on the AACN Synergy Model professional care and ethical practice and critical care patients with special needs as well as the most current literature and clinical studies The clear and logical format makes this book an ideal study tool for critical care nursing orientation and continuing education programs By covering the newest content on the CCRN exam it also serves as an important resource for nurses preparing for critical care certification Authored by the experts at the American Association of Critical Care Nurses Reflects the most recent blueprint of the CCRN examination Content spans basic to advanced levels with an emphasis on nursing practice Organized by body system and written in a concise outline format for ease of use Coverage of the AACN Synergy Model is featured in the new opening chapter Professional Care and Ethical Practice is integrated into the Core Curriculum series framework A new chapter on Critical Care Patients with Special Needs includes bariatric and geriatric patients in critical care as well as high risk obstetric patients Features new content on chest tubes liver transplantation for acute liver failure spirituality and spiritual aspects of care Integrates pain as

the 5th vital sign and includes JCAHO HCFA and AHCPR guidelines relating to pain management Features AHRQ evidence based practice guidelines as reference sources for practice interventions New organization for Patient Care presents patient problems needs etc in order of clinical priority Expanded Nursing Interventions includes considerations related to patient family education patient transfer and discharge planning Web based resources for CDC AHA NINR National Guideline Clearinghouse NIH Consensus Conference Proceedings ADA

**ACCCN's Critical Care Nursing - E-Book** Leanne Aitken,Andrea Marshall,Wendy Chaboyer,2011-11-21 A revised new edition of this comprehensive critical care nursing text developed with the Australian College of Critical Care Nurses ACCCN This second edition of ACCCN s Critical Care Nursing has been fully revised and updated for critical care nurses and students in Australia and New Zealand As well as featuring the most recent critical care research data current clinical practice policies procedures and guidelines specific to Australia and New Zealand this new edition offers new and expanded chapters and case studies The ultimate guide for critical care nurses and nursing students alike ACCCN s Critical Care Nursing 2e has been developed in conjunction with the Australian College of Critical Care Nurses ACCCN As with the first edition the text in ACCCN s Critical Care Nursing 2e reflects the expertise of ACCCN s highly qualified team of local and international critical care nursing academics and clinicians This authoritative nursing resource takes a patient centred approach encouraging practising critical care nurses and students to develop effective high quality critical care nursing practice ACCCN s Critical Care Nursing 2e outlines the scope of critical care nursing before detailing the core components and specialty aspects of critical care nursing such as intensive care emergency nursing cardiac nursing neuroscience nursing and acute care Specific clinical conditions such as emergency presentations trauma resuscitation and organ donation are featured to explore some of the more complex or unique aspects of specialty critical care nursing practice expanded chapters for cardiovascular respiratory and neurological contentnew chapters on Quality and Safety Recovery and Rehabilitation Psychological care and Obstetric emergenciesnew case studies elaborate on relevant care issuescritiques of recent research publications explore related topicspractice tips highlight areas of care particularly relevant to daily clinical practicelearning activities support knowledge reflective learning and understanding

**Acute Care Handbook for Physical Therapists E-Book** Jaime C. Paz,Michele P. West,2019-10-12 NEW Revised content throughout the text reflects the latest information on the complex and fast paced acute care setting NEW Expanded chapters on outcome measures mechanical circulatory support and chest pain NEW Redesigned airway clearance chapter NEW Reformatted nervous system chapter to enhance clinical integration of content NEW Enhanced access to information on lines and tubes

**Critical Care Nursing - E-Book** Linda D. Urden,Kathleen M. Stacy,Mary E. Lough,2013-04-26 Praised for its comprehensive coverage and clear organization Critical Care Nursing Diagnosis and Management 7th Edition is the go to critical care nursing text for both practicing nurses and nursing students preparing for clinicals Nine sections highlight the alterations seen in critical care and make it easy to understand the unique challenges of

critical care nursing An abundance of learning tools such as Patient Safety Alerts Evidence Based Practice boxes NIC interventions case studies Pharmacologic Management boxes and more give you a better understanding of clinical practice and help you reference vital information quickly and easily Consistent organization within each body system unit allows you to use this book as a one stop resource for your critical care nursing education as well as a reference for the relevant assessment techniques lab values and patient management principles needed by practicing nurses Evidence Based Practice boxes reinforce practice guidelines for both collaborative and nursing care Case studies in each chapter help you internalize and apply chapter content to clinical situations Pharmacologic Management tables offer quick summaries of the drugs most often used in critical care Patient Safety Alerts provide key information for special safety issues to keep safety in the forefront of your mind Nursing Management Plans of Care appendix provides detailed clinically relevant care plans tied to 35 different NANDA nursing diagnoses Highlighted QSEN content makes it easy to identify QSEN competencies as they relate to critical care nursing Internet Resources box provides a list of key websites from leading organizations in critical care Combined chapter on shock sepsis and multiple organ dysfunction syndrome makes understanding similar physiologic processes easier Chapter summaries provide quick study guides by organizing key information in the chapter New 6 second standard ECG strips help you learn to identify wave forms and accurately reflect what you ll use in practice New equipment information and photos accurately depicts what you ll encounter in a modern critical care unit

**Clinical Engineering Handbook** Joseph Dyro, 2004-09-15 As the biomedical engineering field expands throughout the world clinical engineers play an evermore important role as translators between the medical engineering and business professions They influence procedure and policy at research facilities universities as well as private and government agencies including the Food and Drug Administration and the World Health Organization The profession of clinical engineering continues to seek its place amidst the myriad of professionals that comprise the health care field The Clinical Engineering Handbook meets a long felt need for a comprehensive book on all aspects of clinical engineering that is a suitable reference in hospitals classrooms workshops and governmental and non governmental organization The Handbook s thirteen sections address the following areas Clinical Engineering Models of Clinical Engineering Practice Technology Management Safety Education and Training Design Manufacture and Evaluation and Control of Medical Devices Utilization and Service of Medical Devices Information Technology and Professionalism and Ethics The Clinical Engineering Handbook provides the reader with prospects for the future of clinical engineering as well as guidelines and standards for best practice around the world From telemedicine and IT issues to sanitation and disaster planning it brings together all the important aspects of clinical engineering Clinical Engineers are the safety and quality facilitators in all medical facilities The most definitive comprehensive and up to date book available on the subject of clinical engineering Over 170 contributions by leaders in the field of clinical engineering

*Advanced Critical Care Nursing - E-Book* Vicki S. Good, Peggy L. Kirkwood, 2017-01-22 Awarded third place in the 2017



AJN Book of the Year Awards in the Critical Care Emergency Nursing category Learn to effectively address life threatening and potentially life threatening patient conditions with Advanced Critical Care Nursing 2nd Edition Endorsed by the American Association of Critical Care Nurses AACN this comprehensive nursing focused text centers on the clinical reasoning process as it helps you comprehend analyse synthesize and apply advanced critical care knowledge and concepts The book is organized within the structure of body systems along with synthesis chapters that address patient conditions involving multiple body systems Numerous illustrations and graphs plus unfolding case studies further aid your understanding and help you apply text content In all Advanced Critical Care Nursing is the must have resource dedicated to helping you oversee or care for critical care patients in any practice setting Body systems organization emphasizes core systems and advanced concepts Consistent chapter format features numerous illustrations charts and graphs in each chapter to enhance understanding Synthesis chapters address patient conditions that involve multiple body systems a common occurrence in critical care nursing Unfolding case studies with decision point questions are included at the end of all disorders chapters providing opportunities to apply advanced critical care content to actual scenarios Medication tables incorporate common classifications of critical care drugs for specific disorders including drugs actions and special considerations NEW Updated information throughout reflects the latest evidence based content as well as national and international treatment guidelines NEW Streamlined content places a greater focus on the need to know information for today s high acuity progressive and critical care settings NEW Expanded coverage of emerging and infectious diseases and multidrug resistant infections keep readers up to date with the most topical diseases such as the Zika virus NEW Additional content on alternative settings for critical care now includes the eICU and remote monitoring NEW Full color design clarifies important concepts and improve the book s usability **Fast Facts for the Critical Care Nurse** Michele Angell

Landrum,2011-07-27 This pocket sized reference for new and seasoned intensive care unit ICU nurses contains critical knowledge presented in the clear precise Fact Facts format It provides quick access to a broad array of guidelines procedures and equipment used by ICU nurses daily as well as on a less frequent basis The book covers assessment and procedural skills medications intravenous IV therapy nutrition wound care sterile field setup and patient preparation It facilitates equipment mastery for respiratory and cardiac care along with troubleshooting tips for monitoring and mechanical devices Also included is information on specific types of critical care units such as cardiac surgical neuro and the burn unit Documentation advance directives organ donations palliative and end of life care are also discussed The resource addresses the requirements of The Joint Commission and recommendations of the Centers for Disease Control and Prevention such as isolation precautions and use of personal protective equipment Other important information is provided such as normal hemodynamic measurements basic electrocardiographic EKG rhythms 12 lead EKG electrode placement and a Do Not Use abbreviation list in the appendix that will help prevent medication errors Key Features Provides quick access to information

needed on a daily basis Covers equipment medications procedures and specialty care Includes reliable data for basic EKG rhythms IV therapy expected treatments and patient care abbreviation list and troubleshooting tips Targeted to new ICU nurses and experienced critical care nurses alike Helps nurses quickly access information with the Fast Facts in a Nutshell feature     **Acute and Critical Care in Adult Nursing** Desiree Tait,Jane James,Catherine Williams,David

Barton,2015-12-26 This book helps adult nursing students to competently manage care of critically and acutely ill patients and to recognize and deal with the early signs of deterioration The book takes a practical real life approach to care with each chapter focusing on patients with specific problems then interweaving the knowledge and skills needed to care for that patient New to this edition two new chapters focusing on the renal system and endocrine system updates to include the latest evidence and guidelines from NICE refreshed activities and scenarios reflecting current nursing practice     *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     **Intensive Care Unit Manual E-Book** 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 Syndromes chapters     **The Ultimate Guide to Competency Assessment**

**in Health Care** Donna Wright,2005-07-01 It is time to move your competency assessment process beyond meeting regulatory standards to creating excellence The Ultimate Guide to Competency Assessment in Health Care is packed with ready to use tools designed to help you develop implement and evaluate competencies More than that you will find a new

way of thinking about competency assessment a way that is outcome focused and accountability based With over 20 000 copies sold world wide it is the most trusted resource on competency assessment available     Introduction to Critical Care Nursing - E-Book Mary Lou Sole,Deborah Goldenberg Klein,Marthe J. Moseley,2012-10-29 User friendly and easy to understand Introduction to Critical Care Nursing 6th Edition offers clear concise coverage of essential critical care concepts technology and procedures Completely updated evidence based content addresses the latest advances in high acuity care and emphasizes patient safety and optimum patient outcomes Plus an abundance of active learning resources and realistic case studies enables you to apply your knowledge and strengthen your critical thinking and clinical decision making skills Case studies challenge you to apply concepts from the book to real life patient specific cases with lab results and accompanying questions to test your critical thinking skills Critical thinking questions in every chapter encourage you to apply the concepts presented throughout the chapter Evidence Based Practice boxes illustrate how research and evidence are used to address problems in patient care and their implications for nursing practice Boxes include the AACN s new system for Level of Evidence A B C D E and M Nursing care plans provide nursing diagnoses expected patient outcomes and interventions with rationales to prepare you for clinical practice Clinical Alerts promote patient safety and better clinical care by highlighting potential problems and concerns for a variety of settings Laboratory Alerts discuss both common and cutting edge tests and procedures emphasizing the importance of laboratory test results to critical nursing care Pharmacology tables detail the actions usage indications dosages routes side effects and nursing implications of commonly used critical care drugs A new chapter on Solid Organ Transplantation provides information on caring for both donors and recipients receiving these increasingly common procedures emphasizing the commonalities and unique attributes for the various transplantations Enhanced ECG measurement coverage helps you master this complex area with standardized ECG strips that are 6 seconds long and computer rendered for clarity An emphasis on QSEN competencies enables you to gain the knowledge skills and attitudes needed for providing high quality safe health care NEW Bariatric Considerations boxes highlight the effects of obesity on critical illness as well as important safety alerts and interventions for the morbidly obese NEW Colorful design includes full color illustrations that visually clarify key concepts and revised algorithms that use color to enhance your understanding of the latest American Heart Association guidelines

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