

Developing Nursing Standards for Maintaining Fluid and Electrolyte Balance for Critically Ill Patients in Intensive Care Units

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Abstract

Background: Fluid and electrolyte disturbances are the most frequently reported problems in intensive care units (ICUs). These disturbances are associated with high morbidity and mortality rate among critically ill patients. Early detection and management of fluid and electrolyte imbalance can improve patients' outcome, decrease the length of intensive care stay and reduce the cost of health care services.

Purpose: To develop nursing standard for maintaining fluid and electrolyte balance for critically ill patients in ICUs of Mansoura University Emergency Hospital.

Method: The study has a descriptive exploratory design. The study included a convenience sample of 40 critical care nurses who were involved in providing direct care for critically ill patients in the study setting. Additionally, 15 experts from the field of critical care were recruited in the study to evaluate the validity of data collection tools.

Results: The majority of the studied nurses had got somewhat a satisfactory practice level for fluid and electrolyte assessment and management in the study setting. No significant correlation was found between nurses' practices scores and their socio-demographic characteristics. Most items of the proposed nursing standard for maintaining fluid and electrolyte balance for critically ill patients were agreed upon by the expert group.

Conclusion: Nursing practice for maintaining fluid and electrolyte balance for critically ill patient in the studied setting was somewhat acceptable. The developed nursing standard can be used as a base for enhancing nursing practice and consequently improve patient outcome. Further research is needed to evaluate the effectiveness of the developed nursing standard in maintaining fluid and electrolyte balance for critically ill patients in ICUs.

Keywords: Critical care nurses; Critically ill patients; Fluid and electrolyte balance; ICU; Standard of nursing care

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Introduction

Critically ill patients are at high risk for developing fluid and electrolyte disturbances in ICUs which associated with increased morbidity and mortality rates [1,2]. Many factors can contribute to shifting in fluid and electrolyte levels among critically ill patients. Disease process in critically ill patients is the main factor that causes this imbalance. Another causing factor is

nurses' practice errors, such as inappropriate administration of fluid and electrolyte, and medications administration errors [3]. These factors are interfering with body absorption of electrolytes and having negative impact on the function of body organs that responsible for maintaining fluid and electrolyte balance [4].

To deliver optimal patient care, health care providers should be aware of all principles and practices of fluid and electrolyte

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Standards For Nursing Of The Critically Ill

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Richardson**



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Standards for Nursing Care of the Critically Ill American Association of Critical-Care Nurses, American Association of Critical-Care Nurses. Standards Committee, 1981 **Standards for Nursing Care of the Critically Ill** Sarah J. Sanford, Joanne Marilyn Disch, American Association of Critical-Care Nurses, 1989 **Aacn Scope and Standards for Acute and Critical Care Nursing Practice** American Association of Critical-Care Nurses, Linda Bell (RN.), 2008-01-01 Standards for Acute and Critical Care Nursing Practice describes the practice of the nurse who cares for an acutely or critically ill patient The measurement criteria which details how nurses meet each standard were evaluated and revised to reflect the unique aspects of acute and critical care nursing practice This volume has incorporated the AACN Synergy Model for Patient Care language within the Standards and Measurement Criteria **Essentials of Nursing Critically Ill Adults** Samantha Freeman, Claire Burns, Gregory Bleakley, 2025-03-14 Fully updated in line with contemporary policy and practice the second edition introduces core aspects of critical care from infection prevention and control to psychological care before introducing critical care as it relates to the pathophysiology of different systems of the body The book is packed full of practical learning features that have been specially designed to enhance your knowledge and test your understanding including Clinical case studies Theory stop points Critical thinking tasks Reflective practice exercises Written by a dedicated team of lecturers and practitioners with extensive experience in critical care nursing this essential guide will equip you with the skills and confidence needed to succeed in a critical care environment Ideal for nursing students studying critical care those undertaking clinical placements in intensive care settings or for nurses new to the critical care environment Lecturers and instructors can go online to access a testbank of multiple choice questions and links to relevant videos for each chapter as well as PowerPoints for each chapter that can be downloaded and customised as needed **Outcome Standards for Nursing Care of the Critically Ill** American Association of Critical-Care Nurses, 1990 Standards for Nursing Care of Critically Ill Patients , 19?? **Critical Care Nursing** Sheila Adam, Sue Osborne, John Welch, 2017-03-10 The third edition of the best selling Critical Care Nursing offers readers a fully up to date evidence based guide to the science and practice of nursing the critically ill patient Organised into 16 chapters this edition covers all essential aspects of critical care nursing from how to manage and monitor specific problems within organ systems to how to provide sympathetic and compassionate care A new chapter on Managing major incidents and preparing for pandemics has been introduced with an insight to this crucial aspect of contemporary global healthcare Written by a team of experienced nurses this textbook supports staff working across the continuum of critical care to deliver safe knowledgeable care that is rooted in a strong clinical evidence base **Monitoring the Critically Ill Patient** Philip Jevon, Beverley Ewens, 2012-04-16 Monitoring the Critically Ill Patient is an invaluable accessible guide to caring for critically ill patients on the general ward Now fully updated and improved throughout this well established and handy reference guide text assumes no prior knowledge and equips students and newly

qualified staff with the clinical skills and knowledge they need to confidently monitor patients at risk identify key priorities and provide prompt and effective care This new edition includes the following five new chapters Monitoring the critically ill child Monitoring the critically ill pregnant patient Monitoring the patient with infection and related systemic inflammatory response Monitoring a patient receiving a blood transfusion Monitoring pain *Intensive and Critical Care Medicine* José Besso, Philip D. Lumb, Ged Williams, 2009-11-21 The World Federation of Societies of Intensive and Critical Care Medicine WFSIC CM has reached the age of maturity Physicians nurses and many others associated with the field of Intensive and Critical Care Medicine will be coming from all corners of the world to Florence Italy in August 2009 to celebrate the 10th quadrennial congress Every 4 years for the last 36 years congresses in the magnificent venues of London 1973 Paris 1977 Washington 1981 Jerusalem 1985 Kyoto 1989 Madrid 1993 Ottawa 1997 Sydney 2001 and Buenos Aires 2005 have signified an ever developing process which has resulted in the four pillars of the field of Intensive and Critical Care Medicine namely partnership ethics professionalism and competence The first pillar is based on a stronger interdisciplinary collaboration and a mutual professional partnership in the field of Intensive and Critical Care Medicine In recent decades professional activity in medicine has been regulated by well defined universal principles such as the welfare of the patient autonomy social justice and the patient physician relationship The second pillar ethics has offered welcomed assistance to all these principles in establishing an ethics curriculum Standards for Nursing Care of the Critically Ill Sarah J. Sanford, Joanne Marilyn Disch, American Association of Critical-Care Nurses, 1989 *Critical Care Medicine E-Book* Joseph E. Parrillo, R. Phillip Dellinger, 2013-10-16 Here is the most clinically oriented critical care text focusing on the adult patient In full color and superbly illustrated with clinical photographs imaging studies and management algorithms and with a broad multidisciplinary focus this text will help you enhance your skills at any level of training Stands alone as a clinically oriented comprehensive reference Completely updated and authorship expanded to reflect the evolution in critical care practice In color for the first time with new color schematics and treatment algorithms for greater ease of reference Utilizes key points lists at the end of chapter to help you make decisions rapidly and easily Delivers key references that list other useful resources for information 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 *Occupational Compensation Survey*, 1995 Occupational Compensation Survey--pay Only, 1992 **Occupational Compensation Survey--pay and Benefits**, 1996 *Bulletin of the United States Bureau of Labor Statistics*, 1994 *Slee's Health Care Terms* Debora A. Slee, Vergil N. Slee, H. Joachim Schmidt, 2007-11-07 *Critical Care Nursing - E-Book* Linda D. Urden, Kathleen M. Stacy, Mary E. Lough, 2021-02-18 Winner of the 2nd place American Journal of

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Critical Care Manual of Clinical Procedures and Competencies Jane Mallett, John Albarran, Annette Richardson, 2013-05-15 This manual is

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