

# Critical Care Nursing's Impact on Pediatric Patient Outcomes

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**Background.** Previous studies have demonstrated the effect of adult nursing skill mix, staffing ratios, and level of education on patient deaths, complication rates, and failure to rescue (FTR). To date, only one known study had examined the effect of nursing experience and education on postoperative pediatric cardiac operations.

**Methods.** Nursing survey data were linked to The Society of Thoracic Surgeons (STS) Congenital Heart Surgery Database for patients undergoing cardiac operations (2010 to 2011). Logistic regression models were used to estimate associations of nursing education and years of clinical experience with in-hospital mortality rates, complication rates, and FTR. Generalized estimating equations and robust standard error estimates were used to account for within-center correlation of outcomes.

**Results.** Among 15,463 patients (29 hospitals), the in-hospital mortality rate was 2.8%, postoperative complications occurred in 42.4%, and the FTR rate was 6.4%. After covariate adjustment, pediatric critical care units

with a higher proportion of nurses with a Bachelor of Science degree or higher had lower odds of complication (odds ratio for 10% increase, 0.85; 95% confidence interval, 0.76 to 0.96;  $p = 0.009$ ). Units with a higher proportion of nurses with more than 2 years of experience had lower mortality rates (odds ratio for 10% increase, 0.92; 95% confidence interval, 0.85 to 0.99;  $p = 0.025$ ).

**Conclusions.** This is the first study to demonstrate that higher levels of nursing education and experience are significantly associated with fewer complications after pediatric cardiac operations and aligns with our previous findings on their association with reduced deaths. These results provide data for pediatric hospital leaders and reinforce the importance of organization-wide mentoring strategies for new nurses and retention strategies for experienced nurses.

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The effect of nursing care on patient outcomes is well established [1–6]. Evidence demonstrating the effect of nursing skill mix, staffing ratios, and level of education on outcomes including patient deaths, complication rates, and failure to rescue (FTR), defined as the probability of death after a complication, has been reported from studies of a variety of adult patient populations [2, 6–17]. These outcomes have been a particular concern for the adult surgical population, citing a multitude of contributing factors, including patient, organizational, and human [10, 18, 19].

During the past decade, we have investigated the effect of pediatric nursing characteristics for children

undergoing congenital heart operations [3, 20–22]. Our initial examinations revealed a limited effect of nursing skill mix and staffing ratios on deaths for congenital heart surgical patients, despite a wide variation in staffing models across children's hospitals nationally [21]. We further documented the variation in pediatric nursing- and unit-based characteristics through development of a national survey of 43 pediatric cardiovascular programs in free-standing children's hospitals in the United States [20]. Linking this survey data to risk-adjusted outcomes for congenital heart surgical patients revealed a significant relationship between education and years of nursing experience and deaths [3]. This first-time finding in pediatric nursing showed that not only was years of nursing experience significantly associated with deaths, the level of nursing experience in a unit's staffing model was also associated with deaths [3].

New knowledge is being generated that relates patient factors to death, complications, resource utilization, and FTR for congenital heart surgical patients [23–30].

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# Patient Outcomes In Pediatric Nursing

**Jerry J. Zimmerman, Alexandre T. Rotta**

## **Patient Outcomes In Pediatric Nursing:**

Patient Outcomes in Pediatric Nursing Grace R. Whitis, Patricia W. Iyer, 1995 This guide helps nurses develop outcome standards to monitor patient care as required by JCAHO regulations Nurses learn how to develop plans of care that achieve outcomes for patients with chronic illness and impairment eye ear nose and throat disorders cardiovascular gastrointestinal hepatobiliary endocrine metabolic genitourinary hematologic immunologic musculoskeletal neurologic and respiratory system disorders and psychosocial and mental problems and those requiring developmental care trauma care or general hospital care Measurement criteria and interventions help ensure the desired outcomes Content is organized by body system and disorder

**Ambulatory Pediatric Nursing** Meg Gulanick, Michele Knoll Puzas, Deidra Gradishar, 1994 **Wong's Clinical Manual of Pediatric Nursing** Marilyn J. Hockenberry, David Wilson, 2011-08-18 UNIQUE Modifiable Nursing Care Plans for 24 pediatric conditions are included in the care plan constructor on the companion Evolve website UNIQUE Patient teaching instructions on Evolve allow you to print and disseminate sets of easy to understand instructions to caregivers with 15 translated into Spanish NEW Pain Assessment and Management unit presents pain management strategies for the neonate child and adolescent NEW Full color photos of dermatologic conditions help you diagnose the pediatric dermatologic problems most commonly seen in practice

Wong's Nursing Care of Infants and Children - E-Book Marilyn J. Hockenberry, David Wilson, 2014-08-28 The leading text in pediatric nursing Wong's Nursing Care of Infants and Children takes a unique easy to understand developmental approach to describe the care of children at each age and stage of development Childhood diseases and disorders are organized by age groups and body systems and described through the nursing process framework This edition includes updates on topics such as the new CPR guidelines immunizations and pain assessment and management Written by pediatric experts Dr Marilyn Hockenberry and David Wilson each with nearly 30 years of hands on experience this bestseller provides an evidence based clinical perspective that shows how the quality of nursing care can impact quality patient outcomes A good neonatal and paediatric reference and textbook Reviewed by Jo Wilson on behalf of Nursing Times March 2015 A developmental approach addresses the differences at each stage of the child's growth and enables you to individualize care at the appropriate level for each child UNIQUE Quality Patient Outcomes are discussed for major childhood diseases and disorders showing how nursing care directly impacts patient outcomes Nursing Care Plans provide models for planning patient care with rationales explaining why specific nursing interventions have been chosen and include nursing diagnoses patient family goals nursing interventions rationales expected outcomes and NIC and NOC guidelines A focus on family centered care emphasizes the role and influence of the family in health and illness with a separate chapter and Family Centered Care boxes Critical thinking exercises use case studies to help you test and develop your own analytical skills Nursing Care Guidelines provide clear step by step detailed instructions on performing specific skills or procedures Nursing Tips include helpful hints and practical clinical information and Nursing Alerts provide

critical information that must be considered in providing care An emphasis on wellness includes principles of health promotion and injury prevention for each age group Drug Alerts highlight important drug related information for safe appropriate care Pathophysiology Reviews explain complicated disease processes with illustrated summary boxes Complementary Alternative Therapy boxes include timely information on alternative medicine as a part of complete comprehensive care Atraumatic Care boxes contain techniques for care that minimize pain discomfort or stress and provide guidance for performing procedures in a caring manner Emergency Treatment boxes serve as a quick reference in critical situations

*Fuhrman & Zimmerman's Pediatric Critical Care E-Book* Jerry J. Zimmerman,Alexandre T. Rotta,2021-02-05 In the highly specialized field of caring for children in the PICU Fuhrman and Zimmerman s Pediatric Critical Care is the definitive reference for all members of the pediatric intensive care team Drs Jerry J Zimmerman and Alexandre T Rotta along with an expert team of editors and contributors from around the world have carefully updated the 6th Edition of this highly regarded text to bring you the most authoritative and useful information on today s pediatric critical care everything from basic science to clinical applications Contains highly readable concise chapters with hundreds of useful photos diagrams algorithms and clinical pearls Uses a clear logical organ system approach that allows you to focus on the development function and treatment of a wide range of disease entities Features more international authors and expanded coverage of global topics including pandemics sepsis treatment in underserved communities specific global health concerns by region Covers current trends in sepsis related mortality and acute care after sepsis as well as new device applications for pediatric patients Provides ultrasound videos and more than 500 board style review questions and answers on Expert Consult 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

**Wong's Essentials of Pediatric Nursing9** Marilyn J. Hockenberry,David Wilson,2013-01-01 When it comes to caring for children no other resource better prepares you for practice than Wong s Essentials of Pediatric Nursing Authored by Marilyn Hockenberry and David Wilson two of the most well known and respected names in the field Wong s features the most readable up to date and accurate content available An abundance of full color illustrations helps you visualize key concepts and highlighted boxes and tables offer quick access to vital facts and information Plus when you buy this book you get unlimited access to hands on study tools that help you learn pediatric nursing essentials with ease Developmental approach clearly identifies key issues at each stage of a child s growth to help you provide appropriate individualized care for each child UNIQUE Family focus includes a separate chapter on the role of the family in child health family content throughout the text and Family Centered Care boxes that highlight information on patient teaching home care and incorporating the family in the child s care An emphasis on wellness offers health promotion and injury prevention strategies for each age group UNIQUE Evidence Based Practice boxes demonstrate how research is applied to nursing care in the clinical setting UNIQUE Atraumatic Care boxes provide guidance for

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Wong's Nursing Care of Infants and Children Marilyn J. Hockenberry, David Wilson, 2018-10 Wong's Nursing Care of Infants and Children E-Book *Wong's Nursing Care of Infants and Children - E-Book* Marilyn J. Hockenberry, 2022-12-23 American Journal of Nursing AJN Book of the Year Awards 1st Place in Child Health Provide quality nursing care through each stage of child development Wong's Nursing Care of Infants and Children 12th Edition uses an easy to follow family centered approach to describe the care of children at each age and stage of development The book begins with a discussion of the influences on and assessment of child health then provides chapters on child health promotion and health problems all organized by age groups and body systems Up to date evidence based information helps you develop critical thinking skills along with the sensitivity needed to become a compassionate caring pediatric nurse Written by a team of experts led by Marilyn J Hockenberry Wong's continues to be the leading text in pediatric nursing Focus on family centered care emphasizes the role and influence of the family in child health and illness with a separate chapter and Family Centered Care boxes Full color drawings and photographs reflect the latest in nursing care Nursing Care Guidelines boxes offer clear step by step instructions for interventions in a variety of situations and conditions and Nursing Care Plan boxes included expected patient outcomes and rationales for nursing interventions Nursing Tips include helpful hints and practical clinical information Translating Evidence into Practice and Applying Evidence to Practice boxes help you apply research to improve the outcomes of nursing care Atraumatic Care boxes contain techniques for care that manage pain discomfort or stress along with approaches to promote self esteem and prevent embarrassment Emergency Treatment boxes serve as a quick reference for interventions in critical situations Cultural Considerations and Cultural Competence content provides tips from clinical experts Community and Home Health Considerations boxes address issues such as increasing immunization rates decreasing smoking among teens and preventing lead poisoning Drug Alerts highlight important drug related information for safe appropriate care Nursing Alerts call out critical considerations such as key assessment data risk factors and danger signs

that must be considered in providing care Research Focus boxes emphasize research with concise reviews of important evidence

**Children and Families in Health and Illness** Marion Broome,1998-03-09 Written and edited by leading pediatric and family nurse researchers this book provides a synthesis of the research literature in nursing and health promotion of children pediatric acute and chronic conditions and children and families in the health care system Children and Families in Health and Illness will prove an excellent shelf reference for researchers and a thought provoking read for advanced level practitioner in child or family nursing

**A Pediatric Nurse's Guide to Child Health** Pasquale De Marco,2025-07-14 This comprehensive guide to pediatric nursing provides nurses with the knowledge and skills necessary to deliver exceptional care to children from infancy through adolescence With a focus on evidence based practices the book covers a wide range of topics including Understanding child development and common childhood illnesses Assessing pediatric patients and developing nursing care plans Managing common pediatric conditions including chronic illnesses and mental health issues Promoting child health and preventing illness Addressing the unique challenges of caring for children with special needs The book begins by introducing the principles of pediatric nursing emphasizing the importance of family centered care and cultural sensitivity It then delves into the assessment of pediatric patients discussing techniques for conducting physical exams gathering patient history and interpreting signs and symptoms Subsequent chapters provide detailed guidance on developing nursing care plans implementing interventions and managing common pediatric conditions The book also addresses the unique challenges of caring for children with special needs such as those with disabilities or chronic illnesses Throughout the book emphasis is placed on promoting child health and preventing illness Topics such as nutrition physical activity and immunization are covered in depth along with strategies for addressing mental health concerns and providing support to children and families With its comprehensive coverage of pediatric nursing topics this book is an indispensable resource for nurses seeking to provide the best possible care to their young patients It is also an excellent reference for students enrolled in pediatric nursing programs If you like this book write a review

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preterm infants and childhood obesity Expanded and updated coverage of genetics addresses the latest advances in the field as it relates to children in health and illness

**Managing Pain in Children** Alison Twycross, Stephanie Dowden, Jennifer Stinson, 2013-10-10 Providing an evidence based practical guide to care in all areas of children s pain management Managing Pain in Children offers nurses and other healthcare professionals an introduction to the skills and expertise to manage children s pain effectively This fully updated second edition first explores the relevant anatomy and physiology of children the latest policy guidelines surrounding pain management and ethical issues involved in managing children s pain Various pain assessment tools available for children and non drug methods of pain relief are then explored and applied to practice in relation to acute pain chronic pain palliative care and the management of procedural pain The evidence base assessment techniques pain relieving interventions and guidance for best practice in both hospital and community settings are covered throughout making this title an ideal resource for all nurses and healthcare professionals working with children

**Index Medicus**, 2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings

Contemporary Issues in Lung Cancer Marilyn Haas, 2010-10-25 In the United States lung cancer is the second most commonly diagnosed cancer and the leading cause of cancer death Even more devastating is its five year survival rate of only 15 8% Despite these dismal facts lung cancer receives little national attention and research and funding for lung cancer lags behind other cancers The intent of Contemporary Issues in Lung Cancer A Nursing Perspective Second Edition is to provide oncology nurses and healthcare professionals with in depth information on the issues that surround this disease so that they might impact both education and research and provide better care for their patients

**Intervention Research** Bernadette Melnyk, Dianne Morrison-Beedy, 2012-04-23 Print CourseSmart

**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

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latest clinical equipment NEW Glossary provides quick convenient access to definitions for all key terms      **Synergy for Clinical Excellence** Roberta Kaplow, 2005 An essential reference for nursing students in developing and implementing the competencies necessary in caring for critically ill patients Includes sample test questions relevant to the model that will assist nursing students in preparing for certification through AACN      Pediatric Cardiac Surgery Constantine Mavroudis, Carl L. Backer, 2013-02-04 Pediatric cardiac surgery is a dynamic fast moving field Busy practitioners like you need clear and comprehensive guidance you can rely on to ensure optimal patient care For over 25 years Pediatric Cardiac Surgery has been the gold standard reference for pediatric and adult congenital heart surgeons pediatric and congenital cardiologists intensivists anesthesiologists residents and nurses Now in this thoroughly revised fourth edition you again get trusted complete coverage of the field with timely new features and expert reviews of critical topics including heart transplantation emerging modalities for diagnosing congenital heart and tracheal defects the surgical technique of Fontan conversion with arrhythmia surgery the medical challenges of managing adult CHD patients and more This new edition includes Contributions from over 65 world renowned experts More beautiful illustrations by renowned medical illustrator Rachid Idriss which have brought acclaim to previous editions Reviews of the embryology physical findings diagnostic criteria and therapeutic choices for each disease entity and describes the latest in surgical techniques in each chapter All new chapters that guide readers through new treatment options and other key developments since the publication of the third edition highlighting recent advances in congenital heart surgery All new new chapters that review advances in right ventricular to pulmonary artery conduits arrhythmia surgery double outlet ventricles and adult congenital heart disease among other key topics



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