# 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 inhospital mortality rate was 2.5%, 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 fodds ratio for 10% increase, 0.85; 95% confidence interval, 0.76 to 0.96; p=0.0090. Units with a higher proportion of nurses with more than 2 years of experience had lower mortality rates fodds ratio for 10% increase, 0.92; 95% confidence interval, 0.85 to 0.99; p=0.0250.

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.

(Ann Thorac Surg 2016; m:m-m)
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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 nursingand 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].

Accepted for publication March 2, 2016.

Presented at the Fifteenth Annual International Symposium on Congenital Heart Disease, 5t. Petersburg, FL, Feb 6-9, 2015.

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# **Patient Outcomes In Pediatric Nursing**

**N Colangelo** 

#### **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 Wong's Clinical Manual of Pediatric Nursing Marilyn J. Hockenberry, David Wilson, 2011-08-18 system and disorder 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

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that must be considered in providing care Research Focus boxes emphasize research with concise reviews of important A Pediatric Nurse's Guide to Child Health Pasquale De Marco, 2025-07-14 This comprehensive guide to pediatric evidence 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 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 **Biomedical Index to** PHS-supported Research ,1991 Wong's Essentials of Pediatric Nursing - E-Book Marilyn J. Hockenberry, David Wilson, 2012-10-01 NEW Safety Alerts call your attention to important patient safety considerations and support the QSEN initiative for better outcomes of nursing care NEW Quality Patient Outcomes content in Nursing Care Management discussions for major diseases and disorders helps you understand how the care you provide impacts patient safety and promotes positive outcomes UNIQUE Critical thinking case studies allow you to test and develop your analytical skills in a variety of clinical situations NEW Drug Alerts throughout the text emphasize important drug information and point out potential issues NEW Pathophysiology Reviews highlight and clarify complex pathophysiology information Completely updated content focuses on timely practical topics including methods for measuring competency and outcomes the nurse s role in injury prevention shaken baby syndrome traumatic brain injury Healthy People 2020 car restraints immunizations late

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 **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

Maternal Child Nursing Care - E-Book Shannon E. Perry, Marilyn J. Hockenberry, Deitra Leonard Lowdermilk, David Wilson, Kathryn Rhodes Alden, Kitty Cashion, 2017-09-09 Maternal Child Nursing Care E Book Fundamentals of Nursing - E-Book Patricia A. Potter, Anne G. Perry, Patricia A. Stockert, Amy Hall, 2012-03-22 NEW and UNIQUE Building Competency boxes help you apply QSEN Quality Safety Education for Nurses competencies to realistic clinical situations NEW and UNIQUE Expanded Evidence Based Practice boxes highlight the importance of current clinical research in daily practice NEW Case studies in all clinical chapters allow you to practice using care plans and concept maps to perform clinical application exercises NEW and UNIQUE Clinical Application questions test your understanding of clinical practices NEW Skill guidelines for blood glucose monitoring help you ensure accurate readings when performing this common skill NEW Content on violence genetics genomics compassion fatigue bullying and the accreditation process addresses current concerns in nursing practice NEW More than 725 review questions test your retention of key chapter concepts NEW Three

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