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.

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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].

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Patient Outcomes In Pediatric Nursing

Bernadette Melnyk, Dianne Morrison- Beedy

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 Wong's Clinical Manual of Pediatric Nursing Marilyn J. Hockenberry, David Wilson, 2011-08-18 UNIQUE and disorder 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 **Pediatric Nursing** Naina D. Chohan, Julie Munden, 2006 Designed for quick easy point of care reference this spiralbound pocket quide covers every aspect of pediatric nursing in a concise format that is packed with bulleted facts tables and illustrations Five tabbed distinctively colored sections cover Disorders Diagnostic Tests Treatments Procedures and Clinical Tools such as growth and development assessment parameters developmental milestones drug calculations infusion therapy quidelines immunization schedules and weight and temperature conversions Topics in each section are arranged alphabetically and follow a consistent format Recurring icons highlight key points such as life threatening disorders interdisciplinary care patient teaching topics and color illustrations of pathophysiology 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 **Ambulatory Pediatric Nursing** Meg Gulanick, Michele Knoll Puzas, Deidra Gradishar, 1994 Wong's Essentials of Pediatric Nursing 9 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 administering nursing care with minimal pain or stress to the child family and nurse 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 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 Maternal Child Nursing Care - E-Book Shannon E. Perry, Marilyn J. Hockenberry, Deitra Leonard variety of devices Lowdermilk, David Wilson, Kathryn Rhodes Alden, Kitty Cashion, 2017-09-09 Maternal Child Nursing Care E Book **Patient Safety and Quality: Patient safety and quality** Ronda Hughes, 2008 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 Nursing Care of Infants and Children Marilyn J. Hockenberry, David Wilson, 2018-10 Wong's Nursing Care of Infants and Wong's Essentials of Pediatric Nursing - E-Book Marilyn J. Hockenberry, David Wilson, Cheryl C Children E Book Rodgers, 2021-03-05 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Pediatrics As the 1 title in the pediatric nursing market for over 40 years Wong s Essentials of Pediatric Nursing 11th Edition continues to leverage its trademark developmental approach as it equips readers with the very latest research and guidelines for treating children today The text utilizes a highly readable writing style and encourages a whole body approach beginning with child development and health promotion to better understand the later chapters on specific health problems This new eleventh edition also features Next Generation NCLEX style case studies and questions a new chapter covering all systems cancers additional case studies within the nursing care plans and updated and expanded evidence based content throughout to best reflect the latest standards and trends impacting pediatric nursing care today Developmental approach clearly identifies developmental tasks and influences at each stage of a child's growth Emphasis on wellness features health promotion chapters for each developmental stage of childhood Critical thinking case studies with answers are found throughout the text Quality patient outcomes are highlighted within nursing management discussions for major diseases and disorders Drug alerts draw attention to potential safety issues reflecting QSEN safety initiative Family focus includes a separate family chapter as well as family content and Family Centered Care boxes integrated throughout the text Community Focus boxes provide resources and guidance on caring for children outside the clinical setting Evidence Based Practice boxes focus attention on the application of research and critical thought processes to support and guide the outcomes of nursing care Chapter on complementary alternative therapy cover timely topics to aid in providing complete comprehensive care Nursing care plans provide a model for planning patient care and include rationales that provide the why Research Focus boxes highlight current studies that impact pediatric nursing today Cultural content and Cultural Considerations boxes are integrated throughout the text to draw attention to customs and beliefs of different cultures that influence childcare Atraumatic Care boxes contain techniques for care that minimize pain discomfort or stress Nursing tips offer helpful hints and practical clinical information of a non emergency nature Nursing alerts feature critical information that MUST BE considered in providing care Emergency Treatment sections provide a quick reference in critical situations Nursing care quidelines provide clear step by step instructions for performing specific skills or procedures Wong's Nursing Care of <u>Infants and Children - E-Book Marilyn J. Hockenberry, 2022-12-23 American Journal of Nursing AJN Book of the Year Awards</u>

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 Pediatric Critical Care E-Book Jerry J. Zimmerman, 2016-11-29 Still the 1 resource for today s pediatric ICU teams Pediatric Critical Care 5th Edition covers the entire field from basic science to cutting edge clinical applications Drs Bradley P Fuhrman and Jerry J Zimmerman accompanied by an expert team of editors and contributors from around the world bring you today s best information on the current and future landscape of pediatric critical care so you can consistently deliver optimum care to your young patients Boasts highly readable concise chapters with hundreds of useful photos diagrams algorithms and clinical pearls Clear logical organ system approach allows you to focus on the development function and treatment of a wide range of disease entities Includes new content on the expanding use of ultrasound at the bedside and the increase in nursing responsibilities in the PICU Eighteen new chapters cover topics such as delirium metabolism endocrinology nutrition nursing and much more Features expanded and updated information on critical communication professionalism long term outcomes palliative care ultrasonography PCCM in resource limited settings ventilator induced lung injury non invasive ventilation updated CNS pathophysiology the Erythron and immunity and infection **Index Medicus**, 2004 Vols for 1963 include as pt 2 of the Jan

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