RESEARCH ARTICLE

Impact of the Revised NRP Meconium Aspiration Guidelines on Term Infant Outcomes

Patrick Myers, MD, Arika G, Gupta, MD

ABSTRACT

OBJECTIVES: To evaluate the association of the Neonatal Resuscitation Program, Seventh Edition changes on term infants born with meconium-stained amniotic fluid (MSAF).

STUDY DESIGN: We evaluated the effect of no longer routinely intubating nonvigorous term infants born with MSAF in 14322 infants seen by the resuscitation team from January 1, 2014 to June 30, 2017 in a large, urban, academic hospital.

RESULTS: Delivery room intubations of term infants with MSAF fell from 19% to 3% after the change in guidelines (P = <.0001). The rate of all other delivery room intubations also decreased by 3%. After the implementation of the Seventh Edition guidelines, 1-minute Apgar scores were significantly more likely to be >3 (P = .009) and significantly less likely to be <7 (P = .011). The need for continued respiratory support after the first day of life also decreased. Admission rates to the NICU, length of stay, and the need for respiratory support on admission were unchanged.

CONCLUSIONS: Implementation of the Neonatal Resuscitation Program, Seventh Edition recommendations against routine suctioning nonvigorous infants born with MSAF was temporally associated with an improvement in 1-minute Apgar scores and decreased the need for respiratory support after the first day of life. There was also a significant decrease in total intubations performed in the delivery room. This has long-term implications on intubation experience among frontline providers.

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Or Myers conducted the initial analyses, collected data, and drafted the initial manuscript, Dr Gupta reviewed and revised the manuscript, and both authors conceptualized and designed the study and approved the final manuscript as submitted.

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Tharpe, Cindy L. Farley, Robin G. Jordan

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WHO Technical Specifications of Neonatal Resuscitation Devices World Health Organization,2016-10-21 The WHO technical specifications for neonatal resuscitation devices were developed based on existing international standards evidence based publications from reliable sources and field expert experience For equipment without prior technical specifications recommendations were made based on a literature research depending on quality and significance of evidence The purpose of WHO technical specifications for Neonatal resuscitation devices is to provide a minimum standard baseline to meet the increasing demand to procure good quality affordable accessible and appropriate neonatal resuscitation devices The specifications are intended to support policy makers managers procurement officers manufacturers regulators and nongovernmental agencies especially in low and middle income countries to select procure use reprocess and decommission appropriate neonatal resuscitation equipment The end goal is to save the children particularly in low resource settings

Conn's Current Therapy 2012 Edward T. Bope, Rick D. Kellerman, 2011-12-09 Conn's Current Therapy 2012 by Drs Edward T Bope and Rick D Kellerman offers you expert guidance on the latest therapeutic options for common and not so common health concerns Hundreds of international contributors provide evidence based management options to help you make more effective diagnoses and achieve the best outcomes Find what you need quickly and easily with a totally reworked organization of topics and keep current with updated material throughout including brand new chapters on fatigue and migraines This practical guide is your ideal way to learn and apply the latest most effective therapeutic approaches Gain the most effective results for your patients with quick easy access to the latest evidence based treatments and therapies Apply the proven treatment strategies of hundreds of top experts in your field Optimize reimbursement using the latest ICD 9 codes Easily reference in depth topics such as metabolic conditions digestive diseases skin disorders and more with a reworked organization that lets you look up specific illnesses and find all the information you need in one place Get quick access to critical information with the new Current Diagnosis and Current Therapy boxes at the beginning of each chapter Broaden your range of treatment options for fatigue and migraines with the aid of two brand new chapters Keep up to date with Neonatology Case-Based Review Dara Brodsky, Elizabeth G. recently approved and soon to be discovered drugs Doherty, 2014-05-09 As a pediatric subspecialty neonatology poses a special challenge for residents rotations are short but care for preterm and critically ill patients is complex Despite residents brief exposure to neonatology they re expected to have a good understanding of key concepts diagnoses and therapies when they sit for the boards Attendings often struggle with how best to teach these concepts because residents don't always have exposure to the range of babies they need to see to have a good foundation in this area Neonatology Case Based Review addresses this information gap by presenting 112 case based multiple choice questions in neonatology Cases are mapped to the American Board of Pediatrics Content Specifications for pediatric residents the Review is appropriate for residents entering their neonatology rotation as an

introduction to the subspecialty and again as they study for their boards Answers include rationales so that the Review is a comprehensive teaching guide for attendings as well Core Curriculum for Maternal-Newborn Nursing E-Book AWHONN, 2015-05-12 NEW Focus on patient safety draws attention to developing competencies related to safe nursing practice NEW Content on medication safety including high alert medications emphasizes critical drug information that must be considered to provide safe patient care UPDATED Extensively revised case studies and review questions reflect the realities of practice and provide testing for certification examinations with realistic patient scenarios EXPANDED Updated content throughout gives you the most current practice guidelines to promote quality care **Clinical Practice Guidelines** for Midwifery & Women's Health Tharpe, Cindy L. Farley, Robin G. Jordan, 2016-05-20 Clinical Practice Guidelines for Midwifery Women s Health Fifth Edition is an accessible and easy to use quick reference guide for midwives and women s healthcare providers Completely updated and revised to reflect the changing clinical environment it offers current evidence based practice updated approaches and opportunities for midwifery leadership in every practice setting Also included are integrative alternative and complementary therapies The Fifth Edition examines the transition to the use of ICD 10 codes women's health policy and advocacy risk assessment and decision making in practice and inspiring trust in midwifery care New clinical practice guidelines include health promotion and primary care practice such as promoting restorative sleep optimizing or al health promoting a healthy weight and caring for the woman with a substance abuse disorder A Guide to Mastery in Clinical Nursing Joyce J. Fitzpatrick, Celeste M. Alfes, Ronald Hickman, 2017-12-28 Designed for both new registered nurses and nurses transitioning to a new clinical area this extensive clinical reference is the only resource to provide essential information on more than 300 topics from 11 specialty areas Concise and practical entries provide fundamental coverage of the most common clinical problems and issues encountered in nursing practice today Key leaders in clinical content areas authored content on emergency and critical care geriatric nursing health systems and health promotion medical surgical nursing neonatal nursing nurse anesthesia obstetrics and women s health palliative care perioperative nursing pediatric nursing and psychiatric mental health nursing Alphabetized for easy access each entry includes a definition and description of the clinical problem etiology nursing assessment related problems interventions nursing management and evaluation and safety considerations The Considerations section of each topic focuses on the role of the nurse throughout the treatment process and discusses the role of other health care providers with a focus on multidisciplinary treatment Intended primarily for university and hospital libraries A Guide to Mastery in Clinical Nursing will also be of value to nursing faculty undergraduate and graduate level nurses and nursing students at all levels Key Features Provides essential information on over 300 clinical topics from 11 specialty areas Offers key knowledge for nurses new to practice or working in an unfamiliar nursing area Presented in a consistent format for ease of use Includes an overview of each specialty area Focuses on the role of the nurse throughout the treatment process Written and edited by expert clinicians and educators in each clinical area

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