

# ~ Foundations of Neonatal Resuscitation ~

## Key Points

- In utero, fetal pulmonary blood vessels are tightly constricted and the alveoli are filled with fluid.
- Newborn resuscitation is most commonly needed d/t respiratory failure.
- The most important and effective NRP step is **ventilation**.

## Anatomy and Assessment

- **Respirations before birth:** determined by the placenta (carries O<sub>2</sub> and CO<sub>2</sub> between the fetus and mother) and breathing movements (increase lung growth)
  - **Placental respiratory failure:** insufficient oxygenation and CO<sub>2</sub> build up → hyperacidity; presents as decreased fetal activity, lack of FHR variability, decels, reflexive gasps, apnea, and bradycardia
- **Respirations after birth:** the lungs take over
  - **Respiratory failure:** d/t decreased gas exchange
- **Fetal circulation:** O<sub>2</sub> supplied by the mother's blood via the placenta → umbilical vein → foramen ovale and ductus arteriosus (L>R shunt that bypasses the lungs so most O<sub>2</sub> reaches the heart and brain)
- **Transition after birth:** deep breath/cry → fluid absorbed and air fills lungs → pulmonary vessels relax → blood reaches the lungs → adequate blood flow once cord is clamped → BP increases → less blood bypasses the lungs
  - **Poor transition:** poor oxygenation to organs, acid accumulation in tissues, vasoconstriction, organ damage; presents as irregular/absent/fast breathing, tachycardia or bradycardia, hypotonia, pallor or cyanosis, low SpO<sub>2</sub>, HoTN

## NRP Algorithm (See last page for NRP Algorithm Diagram)

1. **Rapid Evaluation:** Is the baby stable enough to remain with mom, or should they be brought to the **warmer**?
2. **Airway:** Open the **airway** and support spontaneous respirations
3. **Breathing:** Start **PPV** to assist breathing if there is apnea or bradycardia. Start **CPAP/O<sub>2</sub>** if breathing is labored or the SpO<sub>2</sub> is low
4. **Circulation:** Start chest **compressions** with PPV if severe bradycardia persists
5. **Drug:** Administer **Epi** with compressions and PPV if severe bradycardia persists

## Key Skills for NRP

- **Know the environment:** location of resuscitation equipment, how to get help
- **Use available information:** prenatal history such as maternal/fetal complications, meds, and risk factors
- **Anticipate and plan:** pre-brief, assign roles, form an action plan
- **Identify a team leader:** should clearly state goals, delegate tasks, monitor workloads, include others in planning, think out loud, have situational awareness, and hand over leadership if preoccupied
- **Communicate:** use names of team members, actively share information, clearly order meds, use concise and clear language, closed-loop communication, verify information, share changes with the whole team, include the family

# Neonatal Resuscitation Program Test Study Guide 2011

**JG Myers**



## **Neonatal Resuscitation Program Test Study Guide 2011:**

Issues in Pediatric and Adolescent Medicine Research and Practice: 2011 Edition ,2012-01-09 Issues in Pediatric and Adolescent Medicine Research and Practice 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Pediatric and Adolescent Medicine Research and Practice The editors have built Issues in Pediatric and Adolescent Medicine Research and Practice 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Pediatric and Adolescent Medicine Research and Practice in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Pediatric and Adolescent Medicine Research and Practice 2011 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

**AWHONN's Perinatal Nursing** Kathleen R. Simpson,2013-04-01 A comprehensive resource for practicing perinatal nurses Provides commonly accepted guidelines for practice as well as evidence based care Extremely useful as a clinical resource as well as staff educator s guide and textbook Co publishing with AWHONN provides additional credibility to this book

Neonatal and Pediatric Cerebro-Cardiopulmonary Resuscitation Utpal Bhalala,Graeme Polglase,Eugene Dempsey,Michael Shoykhet,2018-11-16 Pediatric resuscitation medicine has witnessed significant advances with improved understanding of the pathophysiology of cardiac arrest and resuscitation Multiple mechanisms of neurological injury have been identified outlining potential avenues for neuroprotection following cardiac arrest Resuscitation science exists at multiple levels of analysis from biomechanics of chest compressions to implementation of best training procedures in real time from epidemiology of cardiac arrest survival to molecular mechanisms of cellular injury due to ischemia and reperfusion What next steps in research and in clinical practice will ensure the best possible neurologic outcome among children who survive cardiac arrest How can we leverage novel technologies in neuroimaging nanomaterials drug delivery biomarker based risk stratification and next generation sequencing among others to resuscitate and to protect the Central Nervous System CNS How can we improve clinical trial design and data analyses to maintain a robust clinical research infrastructure and to ensure validity and applicability These are just some of the questions will addressed in this Research Topic Using evidence based algorithms and public health approaches to disseminate them the last decade has seen a paradigm shift in pediatric resuscitation with significantly improved survival from pediatric cardiac arrests However neurologic outcome in survivors remains far from optimal High quality CPR is increasingly recognized as a key factor for improving neurologic outcomes Advanced technologies allow monitoring the quality of CPR and just in time feedback to improve the quality of CPR Further research is needed to evaluate impact of these technologies on neurologic outcome The recent American Heart

Association CPR guidelines emphasis on Circulation Airway Breathing CAB approach to CPR needs a careful evaluation in children in whom timely airway and breathing support are as important as circulation The growing controversy regarding use of epinephrine and alternative routes of administration of epinephrine during CPR warrants further evaluation in the setting of pediatric CPR Improved outcome of hemodynamic goal directed CPR over standard CPR in animal models of cardiac arrest has initiated interest in physiology based CPR especially in the in hospital cardiac arrest Basic and applied science research have become relevant for specific subpopulations of pediatric cardiac arrest victims and circumstances e g ventricular fibrillation neonates congenital heart disease extracorporeal cardiopulmonary resuscitation Just in time and just in place simulation training which have evolved as training strategies to improve quality of CPR are being evaluated for outcomes The concept of just in time and just in place coaching of CPR providers on high quality CPR is a novel concept which has emerged recently and remains unstudied Whilst there have been significant advances in newborn stabilization over the last decade many questions remain unanswered These include the role of delayed cord clamping in preterm infants and term newborns requiring resuscitation the role of sustained inflations as a method of respiratory support and the role of epinephrine and volume administration in neonatal resuscitation Novel methods of assessment including the use of end tidal CO<sub>2</sub> monitoring respiratory function monitoring and near infrared spectroscopy warrant further evaluation The use of transitioning animal models that accurately replicate the newborn circulation with patent fetal shunts are emerging but more assessments in these are required to better establish CPR strategies in newborn infants Newborn resuscitation training programs have resulted in a reduction in neonatal mortality in the developing world but key questions remain around the frequency of training team training methods and the role of simulation training Post resuscitation interventions in particular therapeutic hypothermia has resulted in significant improvements in long term outcome and there is now a growing interest in adjunct therapies such as use of melatonin erythropoietin or other neuroprotective molecules to improve therapeutic benefits of cooling Therapeutic hypothermia did not provide any higher benefit than normothermia in children following out of hospital cardiac arrest although there is considerable debate in the community whether 14% probability of observing a similar outcome if the study were repeated a 100 times applies to an individual child in the PICU Exciting research is occurring in unraveling connection between inflammation immune dysregulation and neuroinjury This will further support research on the use of anti inflammatory agents and immunomodulators for neuroprotection after cardiac arrest and birth asphyxia

*Merenstein & Gardner's Handbook of Neonatal Intensive Care - E-Book* Sandra Lee Gardner, Brian S. Carter, Mary I Enzman-Hines, Jacinto A. Hernandez, 2015-04-10 Merenstein maternal obesity hypotension and shock in premature infants pain and sedation dedicated feeding sets vs IVs for safety MRSA pediatric stroke autism screening discharge coordination and more NEW The latest AAP recommendations and guidelines for hypoglycemia jaundice herpes respiratory syncytial virus and neonatal transport team composition EXPANDED Revised Evidence Based Clinical Practice chapter focuses on evidence

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**Practice Guidelines for Midwifery & Women's Health** Nell L. Tharpe, Cindy L. Farley, Robin G. Jordan, 2012-05-09

**Pediatric Acute Care** Beth Nachtsheim Bolick, Karin Reuter-Rice, Maureen A. Madden, Paul N. Severin, 2020-06-20

Selected for Doody's Core Titles 2024 in Critical Care Stay up to date on the latest evidence and clinical practice in pediatric acute care with the definitive textbook in the field Now in its second edition *Pediatric Acute Care: A Guide for Interprofessional Practice* takes an evidence based interprofessional approach to pediatric acute care as it exemplifies the depth and diversity that's needed for the dynamic healthcare environments in which acutely ill children receive care Coverage includes how to work with the pediatric patient and family major acute care disorders and their management emergency preparedness common acute care procedures and much more With contributions from more than 200 practicing clinicians and academic experts it represents a wide variety of disciplines including medicine nursing pharmacy child life nutrition law integrative medicine education public health and psychology among others The second edition also features the addition of new physician and nurse practitioner co editors as well as extensive content updates including updated evidence based content throughout the text the integration of the 2016 IPEC Core Competencies for Interprofessional Collaborative Practice a new full color design and new vivid illustrations throughout UNIQUE Interprofessional collaborative approach includes contributions from more than 200 practicing clinicians and academic experts from the U.S. and Canada including nursing medicine pharmacy child life nutrition law integrative medicine education public health and psychology Consistent organization within disorder chapters begins with a section on Physiology and continues with sections on Pathophysiology Epidemiology and Etiology Presentation Differential Diagnosis Diagnostic Studies and a Plan of Care that include Therapeutic Management Consultation Patient and Family Education and Disposition and Discharge Planning Comprehensive content spanning five units divides coverage into introductory information the approach to the pediatric patient and family major acute care disorders and their management emergency preparedness and common acute care procedures NEW Updated evidence based content has been added throughout to ensure that you're up to date on all topics needed to provide care for pediatric patients in acute inpatient emergency transport and critical care settings NEW Full color design and illustrations enhance learning and make content easier to navigate and digest NEW Integration of the 2016 IPEC Core Competencies ensure that you're learning the professional skills and protocols required for effective contemporary interprofessional collaborative practice UPDATED Streamlined procedures unit focuses more sharply on need to know content Wong's Essentials of Pediatric Nursing - E-Book Marilyn J. Hockenberry, David Wilson, Cheryl C

Rodgers, 2016-09-01 NEW Updated content throughout notably methods of measuring competency and outcomes QSEN and others ambiguous genitalia pediatric measurements guidelines and standards as defined by the American Academy of Pediatrics and clear definitions of adolescent and young adult keeps you up to date on important topic areas NEW The Child with Cancer chapter includes all systems cancers for ease of access NEW and UPDATED Case Studies now linked to Nursing

Care Plans to personalize interventions while also providing questions to promote critical thinking      **The Comprehensive Textbook of Healthcare Simulation** Adam I. Levine, Samuel DeMaria Jr., Andrew D Schwartz, Alan J. Sim, 2013-06-18 The Comprehensive Textbook of Healthcare Simulation is a cohesive single source reference on all aspects of simulation in medical education and evaluation It covers the use of simulation in training in each specialty and is aimed at healthcare educators and administrators who are developing their own simulation centers or programs and professional organizations looking to incorporate the technology into their credentialing process For those already involved in simulation the book will serve as a state of the art reference that helps them increase their knowledge base expand their simulation program s capabilities and attract new additional target learners Features Written and edited by pioneers and experts in healthcare simulation Personal memoirs from simulation pioneers Each medical specialty covered Guidance on teaching in the simulated environment Up to date information on current techniques and technologies Tips from insiders on funding development accreditation and marketing of simulation centers Floor plans of simulation centers from across the United States Comprehensive glossary of terminology      **Respiratory Care: Principles and Practice** Dean R. Hess, Neil R. MacIntyre, Shelley C. Mishoe, William F. Galvin, 2011-02-24      **Simulation Scenarios for Nursing Educators, Third Edition** Suzanne Hetzel Campbell, Karen Daley, 2017-10-28 Second Edition was a winner of the AJN Award Unique to this book and what sets it apart from other books on simulations and clinical scenarios are the personal experiences that the authors bring to the chapters The authors passion enthusiasm and inspiration are truly reflected and demonstrated in each chapter Authors talk about lessons learned teaching strategies and in depth research Key highlights in the book include the practice application of how to develop implement and evaluate clinical simulations in your nursing program The authors make understanding simulation pedagogy an easy journey and one that is exciting that educators will want to try and embrace even when there is hesitation and uncertainty Pamela R Jeffries PhD RN FAAN ANEF Professor Dean George Washington University School of Nursing From the Foreword When employed as a substitute for real clinical time simulation scenarios have proven effective in bridging the gap between theory and practice Written by educators for educators this book provides all the knowledge skills and tools needed to make simulation feasible enjoyable and meaningful for students In this edition there are 25 new chapters 20 of them scenarios for all levels and specialties and 11 of those representing interprofessional education and team training This acclaimed text for nursing faculty provides detailed step by step guidance on all aspects of clinical simulation Each scenario is broken down into objectives pre scenario checklists implementation plans evaluation criteria debriefing guidelines and recommendations for further use Replete with diverse scenarios this comprehensive resource covers geriatric pediatric trauma obstetric and community based patient scenarios Chapters cover all levels of nursing students from pre licensure to doctoral level and contain the authors own advice and experiences working in simulation around the globe All scenarios have been updated to adhere to the new best practice simulation

standards for design facilitator and participant criteria interprofessional criteria and debriefing processes A template for creating scenarios spans the text and includes student preparation materials forms to enhance the realness of the scenario and checklists for practice assessment and evaluation The revised edition now includes scenarios easily adaptable to an instructor's own lab an international perspective and a section on graduate nursing education and eleven new interdisciplinary clinical scenarios New to the third edition 20 brand new scenarios in anesthesia midwifery pediatric disaster and other specialty focused situations plus five new chapters Updated to encompass new simulation pedagogy including best practice standards New scenarios easily adapted to an instructor's own lab Integrating disability into nursing education with standardized patients and the use of IV simulations Interprofessional and international scenarios focused on areas of global concern obstetric hemorrhage neonatal hypoglycemia deteriorating patients A new section on how to write like a nurse in clinical simulation environments Teaching and evaluating therapeutic communication with a review of instruments for assessment Key Features Includes information on how to integrate simulation into curricula Addresses conceptual and theoretical foundations of simulation in nursing education including an expanded chapter on the Framework for Simulation Learning in Nursing Education Includes a wide variety of practical scenarios in ready to use format with instructions Provides a template for scenario development Delivers recommendations for integration of point of care decision making tools Offers opportunities for enhancing complexity incorporating interprofessional competencies and debriefing guidelines Provides insight into pedagogical integration of simulation throughout every aspect of the nursing curriculum with scenarios mapped to North American standards and the NCLEX RN Blueprint Includes details on learning lab and staff development from fundraising and building a lab Ch 6 to placement of AV Ch 7 to faculty development Ch 5 and self assessment for certification and accreditation Ch 54 A trauma informed approach to women's health Ch 33 Scenarios with authors from North America USA Canada Brazil and Hong Kong

*Nursing Care of the Pediatric Neurosurgery Patient* Cathy C. Cartwright, Donna C. Wallace, 2017-04-28 xxxThis updated third edition is a detailed reference for nurses and other health care providers who care for children with neurosurgical conditions The explanations of pathophysiology anatomy neurodiagnostic imaging and treatment options for each neurosurgical diagnosis will help to clarify the rationale behind the nursing care Descriptions of presenting symptoms history and findings on neurological examination will help nurses understand the neurological disorder and identify problems New chapters have been added on skull and scalp anomalies pediatric concussion abuse head trauma and on neuroimaging Each chapter includes case studies impact on families patient and family education and practice pearls Staff and student nurses working in clinics critical care units pediatric units operating rooms post anesthesia care units emergency departments and radiology departments will benefit from the information presented Although this book is written for nurses child life therapists physical and occupational therapists medical students and neurosurgery residents will also find it helpful Parents of children with neurosurgical disorders will



also find it a useful resource in understanding their child's condition Cathy C Cartwright and Donna C Wallace have been awarded third place in the 2017 American Journal of Nursing Book of the Year Awards in CHILD HEALTH category

**Merenstein y Gardner. Manual de cuidados intensivos neonatales** Sandra Lee Gardner, Brian S. Carter, Mary I Enzman-Hines, Susan Niermeyer, 2021-10-15 Contenido ampliado acerca de los cuidados en la sala de partos Explicación de los nuevos paquetes de medidas basados en la evidencia Información sobre nuevas herramientas clínicas para la valoración del dolor Cobertura ampliada de los cuidados paliativos en la unidad de cuidados intensivos neonatales Información ampliada sobre cómo atender a padres con depresión duelo o duelo complicado Textos destacados en azul con información de aplicación clínica Cuadros Información para los padres y Signos clave Casos clínicos

**Risk Management in Healthcare Institutions** Florence Kavalier, Raymond S. Alexander, 2014 The completely revised and updated Third Edition of Risk Management in Health Care Institutions Limiting Liability and Enhancing Care covers the basic concepts of risk management employment practices and general risk management strategies as well as specific risk areas including medical malpractice strategies to reduce liability managing positions and litigation alternatives This edition also emphasizes outpatient medicine and the risks associated with electronic medical records Risk Management in Health Care Institutions Limiting Liability and Enhancing Care Third Edition offers readers the opportunity to organize and devise a successful risk management program and is the perfect resource for governing boards CEOs administrators risk management professionals and health profession students

**Advancing Health Education With Telemedicine** Lopez, Mildred, 2021-12-10 While telemedicine was not a new concept before the COVID 19 pandemic it has certainly helped to propel telehealth as a popular solution and tool for patients to continue to use well after the impacts of COVID 19 have been felt However telehealth also provided solutions for health institutions faced with the challenge of preparing the next generation of medical professionals remotely Telemedicine allowed medical educators to accompany students in their first encounters with patients and to simulate practical scenarios Through the pandemic educators have striven to be more creative and propose solutions to overcome adversities such as language barriers access to technological infrastructure and lack of legal framework Advancing Health Education With Telemedicine discusses and presents alternatives on taking advantage of available technologies and infrastructure of telemedicine and e health to advance health professionals education This need emerged amid the pandemic to provide patients and their families with support and guidance but it also brought opportunities to students to continue their training and be involved in this once in a lifetime experience Covering topics such as disease awareness campaigns medical education and online clinical simulation this book serves as a dynamic resource for medical students medical professionals medical directors educational software developers researchers communications experts professors and academicians

**Interdisciplinary Pediatric Palliative Care** Joanne Wolfe, 2022 We hope that the lives of all children will be filled with possibility with open horizons and rainbows into the future Children with serious illnesses their families and those who care

for them confront the realization that not everything is possible that despite dramatic scientific and medical advances the lifespan of some children will be shortened This threat of premature loss heightens the sense of time for children and families alike and challenges clinicians to create new pathways of hope for them

**Future medical education in pediatrics and neonatology** Michael Wagner,Philipp Deindl,Georg Schmölzer,2023-03-01

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