

# ~ 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

**Marilyn J. Hockenberry, David  
Wilson, Cheryl C Rodgers**



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

**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

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in the emergency department Comprehensive in scope and featuring a templated user friendly organization it remains a valuable reference      **Montana Code Annotated** Montana,2011      New York State Journal of Medicine ,1951

**Rudolph's Pediatrics, 24th Edition** Mark W. Kline,Jordan S. Orange,Angelo P. Giardino,Mahesh M. Rathore,Z Leah Harris,Antonio Cabrera,2026-01-30 The landmark pediatrics reference updated with timely new content and more clinically relevant than ever Rudolph s Pediatrics has virtually defined the pediatric field for over a century becoming one of the most important and well respected pediatrics texts ever published Renowned for its balance of clinical features and treatment of disease with underlying biological principles this classic sourcebook has helped generations of pediatricians optimize their care of infants children and adolescents This twenty fourth edition of Rudolph s Pediatrics continues a long tradition of adapting its content to changes in our understanding of children s health and disease providing an up to date in depth survey of pediatric medicine unmatched by any other text With its algorithmic approach to pediatric systems the book facilitates the diagnosis and treatment of both common and uncommon pediatric illnesses and it reflects new technologies and advances in molecular medicine that continue to evolve with current thinking about normal childhood development and pediatric disease processes Rudolph s Pediatrics 24th Edition features New chapters on telemedicine and pandemics and expanded section on behavioral health The most cohesive and consistent approach to clinical management of diseases and disorders of infants children and adolescents Unmatched coverage of signs and symptoms Expanded treatment algorithms Expert coverage of general pediatrics and all the pediatric sub specialties Streamlined and consistent format for most chapters outlining Pathogenesis and Epidemiology Clinical Manifestations Diagnosis Treatment and Prevention Hundreds of full color illustrations and tables      **Critical Thinking in Respiratory Care** Shelley C. Mishoe,2001-06 This basic text teaches respiratory therapy content in a framework that promotes students decision making skills The problem based learning approach relies on clinical cases and a systematic method in which students may develop a deep and broad understanding of respiratory care content on sound clinical decision making Topics covered include communication and negotiation skills patient assessment and writing care plans patient education and ethical and cost considerations      **Colorado Revised Statutes** Colorado,2012

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