

# ~ 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 Study Guide

**Michal Rosen-Zvi**

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

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Emergency Medicine: A Comprehensive Study Guide, 9th edition Judith E. Tintinalli, O. John Ma, Donald Yealy, Garth D. Meckler, J. Stephan Stapczynski, David M. Cline, Stephen H. Thomas, 2019-10-22 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product. The long awaited new edition of the world's most widely used and highly regarded textbook and reference of emergency medicine A Doody's Core Title for 2019 Tintinalli's Emergency Medicine is THE essential resource for everyone working in and teaching emergency medicine. The Ninth Edition provides the depth and breadth of coverage that reflects the complexity and expertise needed to practice emergency medicine in today's fast paced environments. This comprehensive text is an important clinical resource for physicians, residents, and students, advance practice providers, emergency nurses, EMTs, and paramedics. It is a necessary resource for in training and board examinations and recertification. Tintinalli's Emergency Medicine covers everything from prehospital care, disaster preparedness, and basic and advanced resuscitative techniques to all the significant medical, traumatic, and environmental conditions requiring emergency treatment in adults, children, and neonates. Highlights of the Ninth Edition: Full color design with more tables than ever to succinctly present key information. Extensive updates to all sections incorporating the latest clinical and evidence based information. Online access to over 100 videos covering a wide range of diagnostic and therapeutic procedures and POCUS for obstetric, gynecologic, pediatric, musculoskeletal, and vascular conditions. World class pediatric section on the care of neonates, infants, and children. Expanded chapters on the management of gynecologic and obstetric conditions and emergencies. Updated information on toxicologic and environmental emergencies. Contemporary, concise discussion of ED identification and treatment of opioid use disorders. Updated information on procedural sedation. Expert advice on the management and care of transgender patients. Latest information available on neurologic and cardiac emergencies. From the reviews of the seventh edition: Collectively they have once again produced an excellent text that manages to cover the broad scope of emergency medicine while remaining an easily readable and practical resource. Last for the inevitable comparison of this current edition of Tintinalli's Emergency Medicine with other available emergency medicine textbooks available in my opinion Tintinalli's still comes out on top. It is more concise and easier to read than some yet it covers the breadth of emergency medicine practice more comprehensively than others. Just as previous editions did the seventh presents all of the most pertinent and up to date information in a well organized format that is comprehensive yet easy to read. That and many of the attractive new features in this current edition will ensure its place on my bookshelf for years to come.

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**Procedures for Primary Care Pediatricians** Julius G. Goepp,Mark A. Hostetler,2001 This comprehensive new manual provides step by step guidance for performing a wide variety of pediatric procedures It equips readers to safely and effectively provide numerous services traditionally offered only by specialists from venous sampling to managing toxicologic emergencies Conveniently organized by procedure type and body system it covers everything from indications and contraindications through modifications based on a child's age informed consent and documentation aftercare instructions and much more

**The Macmillan Guide to Correspondence Study** Modoc Press,1996 *Neonatal Resuscitation Success in Rural Hospitals* Angela McCaffrey Jukkala,2005

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