

# ~ 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

**Stephen F. Wehrman, Robert L.  
Wilkins, James K Stoller**

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

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**Instructor's Manual for Neonatal Resuscitation** American Academy of Pediatrics,2006 reflect new course content and instructor tips

*Saving mothers and babies for the new world* Zaleha Abdullah Mahdy,Azanna Ahmad Kamar,Hamizah Ismail,Fook-Choe Cheah,David Alan Ellwood,Ranjan Pejave,2023-10-25

Manual of Pediatric Emergency Nursing Treesa Etheredge Soud,Janice S. Rogers,1998

Essential information on nursing care of the most frequently encountered pediatric emergencies Its practical readily understood discussions are organized by body systems It covers current approaches to emergency treatment of children selected emergencies and pediatric trauma 202 illus

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**The Macmillan Guide to Correspondence Study** Modoc Press,1996

**Neonatal Resuscitation Success in Rural Hospitals** Angela McCaffrey

Jukkala,2005

**Resuscitation of the Newborn Infant and Related Emergency Procedures** Harold Alexander

Abramson,1966

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*Fetal and Neonatal Secrets* Alan R. Spitzer,2007

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