

## Neonatal Transition: Differentiating It From Other Respiratory Complications

### Objectives

- Define the features of neonatal hypoxia
- Identify differential diagnoses with neonatal hypoxia
- Describe physiology of fetal lung dynamics
- Discuss the diagnosis, clinical features and treatment of transient tachypnea of the newborn
- Review the physiology of neonatal transition
- Summarize the normal neonatal transition findings

### Content Outline

1. Neonatal Hypoxia in the Term Infant
  - 1.1. Definition
  - 1.2. Features
  - 1.3. Initial Evaluation
2. Differential Diagnosis of Hypoxia
  - 2.1. Congenital heart disease
  - 2.2. Pulmonary hypertension
3. Transient Tachypnea of the Newborn
  - 3.1. Physiology of fetal lung fluid
  - 3.2. Diagnosis and clinical features
  - 3.3. Management of transient tachypnea of the newborn
4. Fetal to Neonatal Transition
  - 4.1. Physiology
    - 4.1.1. Cardiovascular
    - 4.1.2. Respiratory
    - 4.1.3. Thermal and Metabolic
  - 4.2. Normal Neonatal Transition Findings

### Reading Material Resources

This self assessment module is based on the resources listed below. A copy of each article is included with the module.

"Hypoxia in the Term Newborn: Part One--Cardiopulmonary Physiology and Assessment", Rohan, Annie J., et al., [Maternal Child Nursing](#), Volume 34, No. 2, March/April 2009, pp. 106-112

"Transient Tachypnea of the Newborn", Guglani, MD, Lokesh, et al., [Pediatrics in Review](#), Volume 29, No. 11, November 2008, pp. e58-e65

"Fetal-to-Neonatal Transitions--What is Normal and What is Not? Part 1: The Physiology of Transition", Askin, Debbie, [Neonatal Network](#), Volume 28, No. 3, May/June 2009, pp. e33-e36

"Fetal-to-Neonatal Transitions--What is Normal and What is Not? Part 2: Red Flags", Askin, Debbie, [Neonatal Network](#), Volume 28, No. 3, May/June 2009, pp. e37-e40