

## The Neonatal Head

### Objectives

- Identify the different approaches to evaluate neonatal head ultrasound imaging to obtain specific views
  
- Discuss the variations in normal head ultrasound images for various gestational age neonates and the expectant findings
  
- Summarize pathological findings of neonatal head imaging and discuss the clinical correlation and significance

### Content Outline

1. Techniques
  - A. Ultrasound positioning
  - B. Planes and views
  
2. Normal Head Ultrasound
  - A. By gestational age
  - B. Normal variants
  
3. Pathology
  - A. Germinal matrix hemorrhage
  - B. Intraparenchymal hemorrhage
  - C. Extra-axial fluid collection
  - D. Hydrocephalus
  - E. Hypoxic-Ischemic Injury (HIE)
  - F. Periventricular leukomalacia
  - G. Lenticulostriate vasculopathy
  - H. Corpus Callosum abnormalities
  - I. Congenital malformations
    1. Dandy Walker
    2. Arnold Chiari

### Reading Material Resources

**Module NX2804: The Neonatal Head** is based on the resource listed below. A copy of the resource is included with the module.

Chapter 3 The Neonatal Head, Neonatal Imaging, Eklund, et al., The National Certification Corporation, 2024, 201-244