

## The Neonatal Genitourinary System

### Objectives

- Understand the techniques and positioning used to evaluate the neonatal genitourinary tract system with ultrasound
- Discuss the characteristics of normal genitourinary ultrasound
- Review the differences in the appearance of genitourinary structures by gender and special considerations
- Identify general pathologic findings of neonatal genitourinary system images and discuss the clinical correlation associated with the findings
- Identify specific pathologic findings that affect the female pelvis and neonatal scrotum

### Content Outline

1. Technique and Positioning
  - A. Lateral view
  - B. Prone view
  - C. Pelvic positioning
2. Normal Genitourinary Ultrasound
  - A. Female pelvis ultrasound
  - B. Neonatal scrotal ultrasound
  - C. Kidney ultrasound
  - D. Adrenal gland ultrasound
3. General Genitourinary Pathology
  - A. Hydronephrosis
  - B. Ureteropelvic junction obstruction
  - C. Duplicated collecting system
  - D. Posterior urethral valves
  - E. Multicystic dysplastic kidney
  - F. Autosomal recessive polycystic kidney disease
  - G. Stasis nephropathy
  - H. Adrenal hemorrhage
4. Female and Male Genitourinary Pathology
  - A. Neonatal female pelvis
    1. Congenital vaginal obstruction
    2. Ovarian cysts
    3. Ovarian torsion
    4. Canal of Nuck hernia
  - B. Neonatal Scrotum
    1. Undescended testicle
    2. Hydrocele
    3. Testicular torsion

### Reading Material Resources

**Module NX2805: The Neonatal Genitourinary System** is based on the resource listed below. A copy of the resource is included with the module.

Chapter 4 The Neonatal Genitourinary System, Neonatal Imaging, Eklund, et al., The National Certification Corporation, 2024, 245-296