Content Outline

1. Pharmacological Management of Neonatal Acute and Chronic Kidney Disease
   1.1 Approach to managing acute kidney injury (AKI) including fluid balance
   1.2 Addressing electrolyte balance in situations of AKI
   1.3 Drug dosing and therapeutics for the neonate with AKI
   1.4 Adjustments to management plan for chronic kidney disease in neonates

2. The Use of Antiviral Drugs in Neonates
   2.1 Categories of antiviral drugs
   2.2 Selection of alternate agents for antiviral resistance
   2.3 Use of Oseltamivir (Tamiflu) in the neonatal period
   2.4 Drug therapies for specific neonatal viral disease
      2.4.1 Neonatal herpes simplex virus disease
      2.4.2 Congenital cytomegalovirus
      2.4.3 Perinatal varicella-zoster viral infections
   2.5 Recommended drugs for acyclovir-resistant viral strains

3. Managing Acute Pain in Neonates
   3.1 Pain mechanisms
   3.2 Assessing pain & analgesic planning
   3.3 Multimodal analgesia including non-pharmacologic interventions
   3.4 Pharmacological interventions
      3.4.1 Sucrose
      3.4.2 Paracetamol
      3.4.3 Opioids
      3.4.4 Use of local anesthetics

Reading Material Resources

Module WB2009: Pharmacologic Support for Select Neonatal Disorders is based on the resources listed below. A copy of each resource is included with the module.

Pharmacologic Support for Select Neonatal Disorders

Antiviral Drugs in Newborn and Children. Poole CL and Kimberlin DW, *Pediatric Clinics of North America*, (2017), 64, 1403-1415