

Objectives

- Describe the spectrum of considerations necessary to provide optimal surgical support in the neonatal period.
- Define the classifications of neonatal surgery and explain the accompanying preparatory and intraoperative approaches to address thermoregulation, fluid and electrolyte balance, glucose homeostasis and the use of drugs
- Relate the recommended postoperative care approaches to specific neonatal disorders that frequently require surgical intervention

Content Outline

1. Overview of Neonatal Surgical Aspects
 - 1.1 Antenatal considerations
 - 1.1.1 Antenatal transport
 - 1.2 Surgical NICUs (SNICUs)
 - 1.2.1 Staffing
 - 1.2.2 Family support
 - 1.3 Classification of neonatal surgery
2. Preparation for Surgery
 - 2.1 Consent
 - 2.2 Thermoregulation
 - 2.3 Fluid and electrolyte balance
 - 2.4 Glucose homeostasis
 - 2.5 Acid-base balance
 - 2.6 Intravascular lines and the role of drugs
 - 2.7 Preoperative assessment and the use of monitoring
3. Intraoperative Considerations
 - 3.1 Anesthesia
 - 3.2 Thermoregulation
 - 3.3 Fluid and electrolyte balance
4. Postoperative Care
 - 4.1 Oxygenation and ventilation
 - 4.2 Pain management
 - 4.3 Fluid and electrolyte balance
 - 4.4 Nutrition
 - 4.5 Wound care
5. Outcomes

Reading Material Resources

This self assessment module is based on the resources listed below.

The reading materials are in the form of a PDF file and can be accessed from the online testing center once the module is purchased.

Chapter 19: Surgical Considerations, Comprehensive Neonatal Care: An Interdisciplinary Approach, Kenner, et al., Saunders, 2007, pages 385-391.