Objectives

- Describe the physiology of the neonatal immune system
- Compare and contrast alterations between innate and adaptive immunity in the neonate
- Summarize gut host defense mechanisms
- List immune responses to varied infections
- Identify laboratory methods to diagnose neonatal infection
- Review maturational changes in infancy and childhood

Content Outline

1. Neonatal Physiology of the Immune System
   1.1 Transitional events
   1.2 Colonization
      1.2.1 Skin
      1.2.2 Intestine

2. Alterations in Innate Immunity
   2.1 Complement

3. Alterations in Adaptive Immunity
   3.1 Cell-mediated immunity
   3.2 Antibody-mediated immunity

4. Gut Host Defense Mechanisms

5. Neonatal Infection
   5.1 Vulnerability
   5.2 Immune responses
      5.2.1 Bacteria
      5.2.2 Viruses

6. Diagnosis of Infection

7. Maturation of Immune System in Infancy and Childhood

Reading Material Resources

Module WB1547: Neonatal Immune System and Host Defense Mechanisms is based on the resources listed below. A copy of each article is included with the module.

Chapter 13, Immune System and Host Defense Mechanisms