

Who, What, When, Where, Why and How of Neonatal Infections

Objectives

- List the three options endorsed by the American Academy of Pediatrics Committee on Fetus and Newborn for identifying the presence of early-onset neonatal sepsis (EOS) in neonates greater than 35 weeks' gestation
- Review the characteristics and presentation that differentiate early-onset sepsis from hospital-acquired and community-acquired late-onset sepsis (LOS)
- Outline the risk factors, general clinical manifestations, frequent sites of infection, and common pathogens causing healthcare-associated infections in the neonatal period and include the recommended diagnostic approaches and treatment recommendations
- Describe the strategies, methods and technology presented as potential elements of support in the prevention of healthcare-associated infections

Content Outline

1. Definitions and Clinical Approach to Suspected Infection in the Neonate
 - 1.1 Risk assessment for early-onset sepsis in late preterm and term infants
 - 1.2 Overview of early-onset sepsis in preterm, late preterm and term infants
 - 1.3 Hospital-acquired late-onset sepsis
 - 1.4 Community-acquired late-onset sepsis
2. Healthcare-Associated Infections Occurring in the Neonate
 - 2.1 Epidemiology, anatomic sites of infection, and management
 - 2.1.1 Central-line associated bloodstream infections
 - 2.1.2 Late-onset meningitis
 - 2.1.3 Urinary tract infection
 - 2.1.4 Ventilator-associated events including VAP
 - 2.1.5 Intra-abdominal infection including NEC
 - 2.1.6 Viral infections
 - 2.1.7 Persistent bloodstream infections
 - 2.2 Pathogens commonly identified in LOS
 - 2.3 Clinical signs of sepsis and laboratory diagnostic approaches
 - 2.4 Preventive approaches aimed at healthcare-associated infections

Reading Material Resources

Module WB2554 Who, What, When, Where, Why and How of Neonatal Infections is based on the resources listed below. A copy of each resource is included with the module.

Chapter 90 Clinical Approach to the Neonate With Suspected Infection, Benitz WE in *Principles and Practice of Pediatric Infectious Diseases*, Sixth Edition, (2023), Elsevier, 561-564.e1

Chapter 94 Healthcare-Associated Infections in the Neonates, Cantey JB and Bizzarro MJ in *Principles and Practice of Pediatric Infectious Diseases*, Sixth Edition, (2023), Elsevier, 576-583. e5