

Factors Impacting Term Newborn Level of Care Needs at Birth

Objectives

- Describe the benefits to both newborns and their families when the appropriate level of care can be determined at the time of birth
- Identify clinical findings persisting after initial stabilization at birth that may be indicative of the need for care in a neonatal intensive care unit (NICU)
- Discuss the common metabolic, infectious disease, hematologic, and neurologic conditions, and special situations that warrant ongoing evaluation to establish the appropriate level of care and treatment needed for the individual newborn
- List the key trends that have impacted the increase in neonatal intensive care unit (NICU) admissions of newborns greater than 34 weeks gestation
- Explain the role and challenges of existing neonatal datasets and registries in the process of identifying care needs of more mature newborns and outline the gaps identified for future research related to the needs of this population

Content Outline

1. Evaluating Appropriate Level of Care for Term Newborns At Birth
 - 1.1 Overview of newborn level of care classifications
 - 1.2 Evaluation of post-resuscitation care needs
 - 1.3 Common disorders requiring NICU admission
 - 1.3.1 Respiratory disorders
 - 1.3.2 Related to hypoglycemia
 - 1.3.3 Infectious diseases
 - 1.3.4 Hematologic diseases
 - 1.3.5 Neurologic diseases
 - 1.3.6 Special situations
2. Evaluation of Neonatal Intensive Care Unit Use and Needs of Mature Newborns
 - 2.1 Trends underlying increased NICU bed utilization for mature newborns
 - 2.2 Current rate of mature newborn NICU admissions and patient days
 - 2.3 Interventions aimed at reducing NICU admissions and patient days
 - 2.4 Use of current neonatal datasets and registries to understand care needs
 - 2.5 Gaps in knowledge and research opportunities for this population's needs

Reading Material Resources

Module WB2441: Factors Impacting Term Newborn Level of Care Needs at Birth is based on the resources listed below. A copy of the resources is included with the module.

The Term Newborn-Delivery Room Triage and Transitions of Care, Leone TA and Abreu WJ, Clinics in Perinatology 48(2021), 431-445

Choosing wisely for the other 80%: What we need to know about the more mature newborn and NICU care, Braun D, et al., Seminars in Perinatology, 45(2021), Article 151395, 1-8