Golden Hour in Neonatal Resuscitation

Content Outline

1. Thermoregulation in Very Low-Birth-Weight Infants During the Golden Hour
   1.1 Overview of morbidity, mortality and healthcare costs
   1.2 Physiology and pathophysiology of thermoregulation
   1.3 Relationship of mechanisms of heat Loss to developmental state
   1.4 Review of effectiveness of approaches to prevent heat loss
   1.5 MUSC “golden hour” guidelines and follow-up data

   2.1 Overview of guidelines and anticipation of resuscitation needs
   2.2 “The golden minute” approach and accompanying neonatal resuscitation algorithm
   2.3 Study results regarding administration of oxygen and assisted ventilation with assorted devices
   2.4 Study results regarding chest compressions
   2.5 Recommendations for medication use during neonatal resuscitation
   2.6 Attention to postresuscitation care
   2.7 Additional considerations
      2.7.1 Recommendations for use of induced therapeutic hypothermia
      2.7.2 Guidelines for withholding or discontinuing resuscitative efforts
      2.7.3 Best methodologies for structure of neonatal resuscitation education programs

Objectives

- Recall the four mechanisms of heat loss and relate them to potential consequences for thermal imbalance in the VLBW infant including preventive approaches appropriate for this population being cared for in the delivery room setting
- Discuss the physiology and pathophysiology of thermal regulation related to the developmental state of the VLBW infant
- Define the “golden hour” process for thermal management of the VLBW infant and identify the evidence-based findings related to various management techniques addressing thermoregulation for the VLBW infant in the immediate post-delivery period
- Outline the steps (in order) for assessment and resuscitation of the newborn at delivery and into the perinatal period based upon the 2010 recommendations of the American Heart Association (AHA) including the supportive role of equipment, supplies and medications used in this clinical activity
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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.


Objectives

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- Explain the evidence supporting recommendations for changes in current approaches to the process of neonatal resuscitation and in the design of the AAP/AHA Neonatal Resuscitation Program as well as the current clinical approaches to be continued based upon insufficient data to recommend change.

- Describe the guidelines recommended for withholding or discontinuing resuscitation including the role of parents in the decision-making process.