# Objectives

- Outline the purpose and steps of the Grading of Recommendations, Assessment, Development and Evaluation (GRADE) System and describe its impact on the development of new neonatal resuscitation guidelines.

- Summarize the recommended changes to both the neonatal resuscitation algorithm and guidelines based on 2015 International Liaison Committee on Resuscitation (ILCOR) scientific evidence and review findings.

- Interpret study data as provided to gain knowledge about the infant characteristics, types of cardiopulmonary support required prior to cardiac arrest in the NICU and post resuscitation outcome findings.

# Content Outline

1. Update of Neonatal Resuscitation Guidelines
   1.1. Description & purpose of GRADE system
   1.2. Evidence impacting new neonatal resuscitation algorithm & guidelines
      1.2.1. Delayed cord clamping
      1.2.2. Assessment of heart rate
      1.2.3. Thermoregulation & related interventions
      1.2.4. Oxygen concentrations for preterm infants
      1.2.5. Initial sustained inflation to establish RFC
      1.2.6. Intubation & tracheal suction related to MSAF
      1.2.7. Apgar of 0 at 10 minutes of age and beyond

2. Cardiopulmonary Resuscitation Findings in Infants Admitted to NICU
   2.1. Overview of previous studies & purpose of study presented
   2.2. Description of material & methods used in study
   2.3. Results of study
      2.3.1. Characteristics of infants
      2.3.2. Description of cardiopulmonary support at time of CPR
      2.3.3. Outcomes
   2.4. Characteristics of infants who survived compared to those who died
   2.5. Discussion of study strengths and weaknesses

# Reading Material Resources

**Module WB1905: Neonatal Resuscitation Update** is based on the resources listed below. A copy of the resource is included with the module.

Highlights of the new neonatal resuscitation program guidelines, Perlman, *NeoReviews*, 18(8), Aug. 2016, pp. e435-e447