

## Neonatal-Perinatal Medicine Focus On Improving Patient Safety and Quality

### Objectives

- Define quality of care delivery and discuss how the variations documented in relation to neonatal intensive care unit (NICU) care processes and outcomes suggest differences in the quality of care delivery supporting opportunities for quality improvement initiatives
- Recall the evolution of quality improvement from the realm of industry to its current place in the health care environment and outline the conceptual frameworks for quality that provide the foundation for current quality improvement projects
- Explain how conceptual quality improvement frameworks are translated into a practical application of quality improvement within the health care setting supported by multiple sources of data and approaches to quality measurement and improvement
- Provide examples of the improvement projects presented to reflect individual unit level work as well as collaboration of broader networks and discuss the need for strategies for sustainability

### Content Outline

1. Evaluating and Improving the Quality and Safety of Neonatal Intensive Care
  - 1.1 Overview of the history of industrial quality improvement and the case for quality, safety, and efficiency of clinical care in health care practice
  - 1.2 Conceptual frameworks for quality
    - 1.2.1 Process and examples of frameworks translated into action
  - 1.3 Data elements and approaches to ensure that quality improvement is data driven
    - 1.3.1 Structure and institutional context
    - 1.3.2 Processes
    - 1.3.3 Outcomes
    - 1.3.4 Balancing measures
    - 1.3.5 Risk adjustments/fair comparisons
  - 1.4 Various roles for and sources of data
  - 1.5 Selecting appropriate measures for assessment and quality improvement
  - 1.6 Detailed example of a real-world quality improvement project

### Reading Material Resources

**Module WB2435: Neonatal-Perinatal Medicine Focus on Improving Quality and Safety** is based on the resource listed below. A copy of the resource is included with the module.

Chapter 5 Evaluating and Improving the Quality and Safety of Neonatal Intensive Care, Profit J et al., in *Fanaroff and Martin's Neonatal-Perinatal Medicine, Eleventh Edition*, (2020), Elsevier, 67-101