Aim: Standardize care for infants with neurological conditions through the use of interdisciplinary neuro rounds, standardization of care for seizure management and cooling protocol for transport by December 2014.

Setting: A Level IV, 49 bed NICU with approximately 740 infants admitted each year

Mechanism:
- Many infants admitted to the NICU each year have neurological conditions and concerns
- Care of these infants is complex and involve many services
- Care and communication with the health care team and family is not always consistent and coordinated
- Standardization of care and interdisciplinary neuro rounds will assist in the coordination of care

Methods: Multiple rapid cycle projects including:
- Cycle 1: Implementation of interdisciplinary neuro rounds.
  - Commitment from all services
  - Selection of time and date
  - Format developed
  - Implementation
  - Measure: Neuro rounds implemented twice a month (July 2014)
- Cycle 2: Development of a guideline for passive cooling on transport,
  - Determine baseline outcome data
  - Literature review
  - Development of guidelines and flow chart
  - Staff education
  - Implementation
  - Measure: Cooling protocol completed (July 2014)
    - Education begun (October 2014)
    - Plan monitoring (November 2014)
- Cycle 3: Seizure diagnosis and treatment protocol
  - Development of protocol
  - Approval of protocol
  - Education
  - Measure: Preliminary agreement (July 2014)
    - Final approval (October 2014)

Data/Results:
- Neuro rounds held twice a month; 5 to 6 patients are presented each session with discussion regarding diagnosis, prognosis, imaging and follow-up.
- Passive cooling on transport prior to guidelines resulted in inconsistent monitoring of vital signs and overcooling of some infants. Results with implementation of guidelines pending.
- Seizure guidelines standardize diagnostic work-up, monitoring and medication for treatment.

Discussion
Neuro rounds improve communication between health care team members and ordering appropriate diagnostic tests
Passive cooling guidelines for transport will improve standardization of care and patient safety
Neonatal seizure assessment and treatment guideline (includes assessment, monitoring, labs and medications) will improve standardization of care