Appendix: 1: Algorithm for Continuous EEG Monitoring in Neonatal Hypothermia Protocol

Neonate screened for Therapeutic Hypothermia (TH) - monitored with aEEG

Neonate meets criteria for Therapeutic Hypothermia (TH)

aEEG transitioned to Continuous EEG (cEEG)

Baseline cEEG Report within 1 hr

Baseline relayed to Neurology ICU Resident and NICU Fellow

Baseline cEEG Report within 1 hr

After 24 hrs, if any of the following are met:
- Seizure detected
- Patient receiving paralytic agent
- cEEG deemed high risk by Epilepsy/Neurology;
  1. Focal attenuation
  2. Focal sharp waves/PLEDs
  3. Burst suppression

Monitor with cEEG

Seizures detected

Continue cEEG until off paralytic, and 6 hr post re-warming completed

After 24 hrs, if all of the following situations are met:
- No concern for seizures
- Not on paralytic agent
- cEEG deemed low to moderate risk by Epilepsy/Neurology

Transition to aEEG

Daily formal read

Concern for Seizure

Yes

No

Re-start cEEG

Continue cEEG until off paralytic, and 6 hr post re-warming completed - whichever is longer

Continue cEEG for 24 hrs after last seizure or until off paralytic, and 6 hr post re-warming completed - whichever is longer

Continue aEEG until 6 hr after re-warming completed