NICU Disease Process Map

D.O.B._____ APGAR at birth: **1 at 1 min, 5 at 5 mins, 7 at 10 mins**

Gestational Age **41** Adjusted Gestational Age **41 and 6 days**

Birthweight **8** lbs._____oz./_____grams

Current weight 9 lbs._____oz./_____grams

Disease Name: **_Hypoxic-ischemic encephalopathy (No medications were given)**

What is happening in the body?

A serious condition in newborns caused by a lack of oxygen and/or reduced blood flow to the brain around the time of birth.

What am I going to see during my assessment?

Weak suck reflex or poor feeding, hypotonia, seizures, apnea.

Bradycardia, hypotension, low O2 sat, irregular respiratory effort.

What tests and labs will be ordered? **EEG monitor seizure activity or abnormal brain funciton**

ABG – assess metabolic acidosis (a sign of oxygen deprivaiton)

Blood glucose – check for hypoglycemia, which can worsen brain injury.

CBC – evaluate anemia, infection, or polycythemia.

Coagulation profile – detect coagulopathy due to liver dysfunction or hypoxia

What trends and findings are expected? **Blood gas trends – metabolic acidosis. Blood**

What medications and nursing interventions/treatments will you anticipate? **Anticonvulsants (phenobarbital) – treat or prevent seizures. IVF and electrolyte management (D10W, NS) – maintain hydration, glucose, and organ perfusion. Abx (gentamicin) – empiric tx until sepsis is ruled out. Therapeutic hypothermia support – cooling initiated within 6 hours of birth. Glucose and electrolyte management – frequent glucose checks. Monitor and correct**