

NICU Disease Process Map

D.O.B. <u>10/17/24</u>	APGAR at birth: <u>0/3/5/7</u>
Gestational Age <u>37 weeks</u>	Adjusted Gestational Age <u>39 and 5 weeks</u>
Birthweight <u>7</u> lbs. <u>5</u> oz. / <u> </u> 3400 grams	
Current weight <u>6</u> lbs. <u>13</u> oz. / <u>3090</u> grams	

Disease Name: Hypoxic Ischemic encephalopathy

What is happening in the body?

Brain damage caused by lack of oxygen to the brain. It affects the central nervous system. Babies born with HIE may have neurological or developmental problems.



What am I going to see during my assessment?

Breathing problems	slow heart rate	seizures or other neurological problems
Pale blue or grey tone skin	decreased reflexes	Trouble hearing
Irritability	difficult feeding	



What tests and labs will be ordered?

Fetal heart monitoring	An EEG
Placenta blood test	Lumbar puncture
Apgar score	
Ultrasound / MRI	



What trends and findings are expected?

Placenta blood tests- low percent of normal placentas	MRI- Increased lesions in the brain
Low heart rate	EEG- abnormal brain waves/ rhythm
Low Apgar score	



What medications and nursing interventions/treatments will you anticipate?

Therapeutic hypothermia- cooling the body

EEG – monitoring of seizures and giving anti-seizure medications.

Supportive therapy-Oxygen through mask or nasal cannula



How will you know your patient is improving?

Reduced seizure activity

normal heart rate and oxygen

Co-ordinated movements and normal muscle tone

reaching developmental milestones

Brain scans shows brain injury is stabilizing.



What are risk factors for the diagnosis?

Very low or high blood pressure in mother

Trauma

Heart problems in baby

Poor oxygen supply during pregnancy

Problems with the uterus or placenta

lack of blood flow to brain during birth



What are the long-term complications?

Learning problems

cerebral palsy

infections

Attention deficit

developmental delays

Epilepsy

growth problems



What patient teaching for management and/or prevention can the nurse do?

Avoid smoking, drinking alcohol and taking illegal drugs

Get regular prenatal care and vaccinated for diseases

Maintain good health before and during pregnancy

Proper care during delivery

