

NICU Disease Process Map

D.O.B. <u>8/3/23</u>	APGAR at birth: <u>2</u>
Gestational Age <u>41WKS</u>	Adjusted Gestational Age <u>46WKS</u> <u>6d</u>
<i>forgot to record</i> → Birthweight _____ lbs. _____ oz. / _____ grams	
Current weight <u>9</u> lbs. <u>0</u> oz. / <u>4082</u> grams	

Disease Name: persistent pulmonary hypertension

What is happening in the body?

A respiratory issue due to the inability to adapt to breathing outside of the uterus because the pulmonary arteries do not open up enough to allow oxygen to the brain and other organs



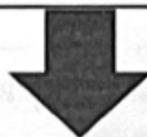
What am I going to see during my assessment?

- difficulty breathing or apnea
- grunts and stridor or other abnormal breath sounds
- cyanosis
- flaccid posture
- high heart rate
- Weak/feeble cry
- low pulse ox
- use of accessory muscles on inspiration



What tests and labs will be ordered?

- blood gasses
- CXR
- echocardiogram



What trends and findings are expected?

- low APGAR score
- low O₂ sats
- hearing complications
- can lead to learning disabilities and developmental delays later in life



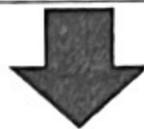
What medications and nursing interventions/treatments will you anticipate?

- Start on oxygen
- nitric oxide
- elevate head of bed and avoid laying flat
- intubation and mechanical ventilation can be expected



How will you know your patient is improving?

- increase in O₂ sats when ventilation is weaned
- decreased use of accessory muscles when breathing on their own
- decreased grunting when breathing on their own
- increased breath sounds in all lung lobes



What are risk factors for the diagnosis?

- meconium aspiration
- respiratory distress syndrome
- birth asphyxia
- diaphragmatic hernia
- congenital heart/lung malformations
- use of NSAIDs during pregnancy



What are the long-term complications?

- developmental delays
- learning disabilities
- decreased ability to participate in physical activities
- increased risk of respiratory illness



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

- avoid NSAIDs during pregnancy
 - avoid post-term delivery
- Overall, researchers don't know exactly what causes it which makes it hard to prevent

NO meds were given to pt. → NO med sheet submitted