

**IM5 (Pediatrics) Critical Thinking Worksheet****Patient Age:** 29.2 wks**Patient Weight:** 2.23 kg

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<b>1. Disease Process &amp; Brief Pathophysiology (Identify Key Concepts to Your Patient and Include Reference):</b> Respiratory Distress Syndrome (RDS) is the result of inadequate pulmonary surfactant. Surfactant is a mixture of fats and proteins that coat and prevent the alveoli from collapsing, making gas exchange easier. Surfactant is typically fully developed by 32 weeks of gestation, placing newborns born before this at great risk for inadequate gas exchange leading to hypoxemia and respiratory acidosis.	<b>2. Factors for the Development of the Disease/Acute Illness:</b> Prematurity (P) Male gender Caucasian race Cesarean delivery Maternal diabetes Perinatal depression	<b>3. Signs and Symptoms:</b> Tachypnea (P) Chest retractions (P) Nasal flaring (P) Grunting sounds with breathing (P) Cyanosis (P)
<b>4. Diagnostic Tests Pertinent or Confirming of Diagnosis:</b> Chest X-Ray (P) ABGs (P) Echocardiogram (P)	<b>5. Lab Values That May Be Affected:</b> ABGs: (P) PaO <sub>2</sub> PaCO <sub>2</sub> pH HCO <sub>3</sub> O <sub>2</sub> Sat	<b>6. Current Treatment (Include Procedures):</b> Endotracheal tube Supplemental oxygen (P) Ventilator CPAP Surfactant replacement Medications