

**IM5 (Pediatrics) Critical Thinking Worksheet****Patient Age:** 8 y/o**Patient Weight:** 26kg

<b>Student Name:</b> Brooke Jones	<b>Unit:</b> Pedi Floor <b>Pt. Initials:</b>	<b>Date:</b> 1/12/2022
<b>1. Disease Process &amp; Brief Pathophysiology (Identify Key Concepts to Your Patient and Include Reference):</b> Sickle Cell disease is a red blood cell disorder in which hemoglobin S (HbS) replaces hemoglobin A (HbA) as the dominant hemoglobin. When exposed to dehydration, acidosis, hypoxia, and temperature elevations, HbS changes its structure and forms a crescent or sickle-shaped cell. The abnormal cell shape causes occlusion of small blood vessels, ischemia, and damage to affected organs. It is autosomal recessive. Swearingen, P. L., & Wright, J. (2019). All-in-One nursing care planning resource - E-book: Medical-surgical, pediatric, maternity, and psychiatric-mental health. Elsevier Health Sciences.	<b>2. Factors for the Development of the Disease/Acute Illness:</b> Both parents have the sickle cell trait  African Americans  Hispanic-Americans  Middle Eastern, Asian, Indian, and Mediterranean descent	<b>3. Signs and Symptoms:</b>  Dark urine  Yellow eyes  Painful swelling in hands and feet  Pain episodes  Stunted growth  Stroke

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<b>4. Diagnostic Tests Pertinent or Confirming of Diagnosis:</b>  Chorionic villus sampling from prenatal tissue  Amniocentesis  Newborn screening  Sickledex  CBC  BMP	<b>5. Lab Values That May Be Affected:</b>  Hgb  Hct  Reticulocyte count  Platelets  WBC	<b>6. Current Treatment (Include Procedures):</b>  Medications  Blood transfusions  Stem cell transplant
<b>7. Pain &amp; Discomfort Management: List 2 Developmentally Appropriate Non-Pharmacologic Interventions Related to Pain &amp; Discomfort for This Patient.</b>  1. Distraction: While experiencing pain or discomfort, the child could be provided with a game or watch TV.  2. Relaxation: Patient can use breathing exercises or listen to music while experiencing pain or discomfort.  <b>*List All Pain/Discomfort Medication on the Medication Worksheet</b> Click here to enter text.	<b>8. Calculate the Maintenance Fluid Requirement (Show Your Work):</b> $10 \text{ kg} \times 100 = 1000\text{mL}$ $10 \text{ kg} \times 50 = 500\text{mL}$ $6 \text{ kg} \times 20 = 120\text{mL}$ . total= 1620mL/day, 67.5mL/hr  <b>Actual Pt MIVF Rate:</b>  <b>Is There a Significant Discrepancy?</b> <input type="text"/>  <b>Why?</b>	<b>9. Calculate the Minimum Acceptable Urine Output Requirement (Show Your Work):</b> $0.5 \times 26\text{kg} = 13\text{mL/hr}$  <b>Actual Pt Urine Output:</b>

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	<p><b>10. Growth &amp; Development: List the Developmental Stage of Your Patient For Each Theorist Below and Document 2 OBSERVED Developmental Behaviors for Each Theorist. If Developmentally Delayed, Identify the Stage You Would Classify the Patient:</b></p> <p><b>Erickson Stage:</b> Industry vs. Inferiority</p> <ol style="list-style-type: none"> <li>1. Patient may exhibit low self-esteem due to not being able to participate in the same activities as their friends due to their disease.</li> <li>2. The child might be working on their homework while in the hospital because they are beginning to understand the importance of work.</li> </ol> <p><b>Piaget Stage:</b> Concrete Operational Period</p> <ol style="list-style-type: none"> <li>1. The patient could show they have an understanding of logic by noticing they get tired faster or have trouble breathing when they exercise.</li> <li>2. The patient might understand that a small cup of juice that is filled to the top has the same amount of juice as a big cup that is filled half-way.</li> </ol>	
<p><b>11. Focused Nursing Diagnosis:</b> Ineffective tissue perfusion</p>	<p><b>15. Nursing Interventions related to the Nursing Diagnosis in #11:</b></p> <ol style="list-style-type: none"> <li>1. Elevate head of bed to comfortable level for the child.</li> </ol> <p><b>Evidenced Based Practice:</b> Promotes chest expansion by decreasing pressure on the diaphragm.</p>	<p><b>16. Patient/Caregiver Teaching:</b></p> <ol style="list-style-type: none"> <li>1. Teach patient and caregivers the importance of immunizations and preventing affections</li> <li>2. Drink plenty fluids</li> <li>3. Avoid demanding physical activities</li> </ol>
<p><b>12. Related to (r/t):</b> Vasooocclusion and anemia</p>	<ol style="list-style-type: none"> <li>2. Maintain adequate fluid intake and monitor urine output.</li> </ol> <p><b>Evidenced Based Practice:</b> Dehydration causes an increase in sickling and occlusion of capillaries. Decrease in urine output</p>	

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<b>13. As evidenced by (aeb):</b> Diminished peripheral pulses/capillary refill Pallor Palpitations Tingling in extremities, bone pain	may indicate vascular occlusion.  <b>3.</b> Administer oxygen as prescribed  <b>Evidenced Based Practice:</b> Delivering oxygen when a child is hypoxic eases WOB.	<b>17. Discharge Planning/Community Resources:</b> <b>1.</b> Follow-up appointment  <b>2.</b> Call 911 if child is experiencing fever of 100.4 or higher, difficulty breathing, chest pain, or sudden weakness  <b>3.</b> Medical alert ID band
<b>14. Desired patient outcome:</b> Within 2 hours after treatment or intervention, the patient's oxygen saturation is maintained at 95% or greater.		