

Student Name: Katy Needham

Unit: NICU

Pt. Initials: AD

Date: 11/15/23

Pediatric Medication Worksheet – Current Medications & PRN for Last 24 Hours

Allergies: NKDA

| Generic Name | Pharmacologic Classification | Therapeutic Reason | Dose, Route & Schedule | Therapeutic Range? | IVP – List solution to dilute and rate to push. IVPB – concentration and rate of administration | Adverse Effects | Appropriate Nursing Assessment, Teaching, Intervention (Precautions/Contraindications, Etc.) |
|--------------------|------------------------------|--------------------|------------------------|--|--|--|---|
| | | | | Is med in therapeutic range? | | | |
| | | | | If not, why? | | | |
| Polvisol with iron | multi vitamin | constipation | 0.2ml daily PRN PO | NO recommended amount is 1ml dose is low due to small baby | | black tarry stool fever diarrhea | 1. monitor GI 2. admin to side of mouth 3. do not give if on additional iron supplement 4. skin care |
| | | | | poor kidney excretion | | | 1. 2. 3. 4. |
| | | | | | | | 1. 2. 3. 4. |
| | | | | | | | 1. 2. 3. 4. |
| | | | | | | | 1. 2. 3. 4. |

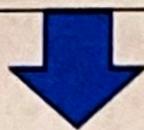
NICU Disease Process Map

| | |
|---|------------------------------------|
| D.O.B. <u>7/31/23</u> | APGAR at birth: <u>6</u> |
| Gestational Age <u>28</u> | Adjusted Gestational Age <u>44</u> |
| Birthweight <u>2</u> lbs. <u>4</u> oz. / <u>1020</u> grams | |
| Current weight <u>7</u> lbs. <u>5</u> oz. / <u>3390</u> grams | |

Disease Name: Trisomy 21 + ^{common} complications associated with it

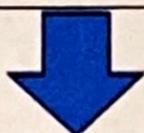
What is happening in the body?

Due to abnormal cell division, an extra chromosome develops on the twenty first chromosomes.



What am I going to see during my assessment?

Downs babies often have heart defects and are at a high risk to get Leukemia. A heart murmur will be present. Frequent infections and bruising may present with Leukemia. Labs would be the most resourceful in assessing Leukemia.



focusing on AVSD defect as it is the most common

What tests and labs will be ordered?

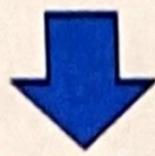
For heart defects an echocardiogram and an MRI is commonly ordered to confirm diagnoses.

For Leukemia a CBC, PET scan, and bone marrow aspiration would be ordered.
CBC → look @ blood count PET → where is the cancer?
bone marrow → cancer cells?



What trends and findings are expected?

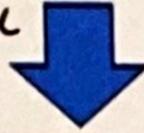
The CBC for Leukemia would show an abnormal WBC count, low RBC's and platelets. The bone marrow biopsy would confirm the diagnosis by showing these as well. The echo would reveal an opening between the atrium + ventricle as well as abnormal blood flow.



What medications and nursing interventions/treatments will you anticipate?

For AVSD, digoxin and furosemide are commonly prescribed. Digoxin will help the heart beat, furosemide will remove fluid that may be constricting the heart. The nurse should monitor for Digoxin toxicity & I⁺ to O².
For leukemia chemo & radiation can be expected. The nurse needs to initiate strict standard precautions to prevent pt from getting infections.

Also manage side effects of chemo like nausea by giving Zofran.



How will you know your patient is improving?

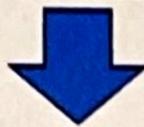
AVSD - CHF improves, urine output increases

Leukemia - blood count normal, immune system returns, child starts gaining weight, no or fewer symptoms (bruising, infections, fewer blast cells in a bone marrow biopsy)



What are risk factors for the diagnosis?

Trisomy 21 is a risk factor for an atrial ventricular heart defect and leukemia.



What are the long-term complications?

AVSD - CHF, pulmonary congestion, enlargement of atrium

Leukemia - profound immunosuppression, cancer recurrence



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

AVSD - teach s/s of heart failure (edema, decreased urine output), TCDB/IS for fluid in lungs, s/s of hypervolemia: bounding pulse, bulging fontanel

Leukemia - teach importance of vaccines for family, avoid crowds, strict hand washing, flush toilet x2 & limit contact if on chemo/radiation

Trisomy 21 - not preventable, support groups