

Student Name:

NAME: John, Jimmy
DOB: 5/09/XXXX AGE: 7 YR/M
MR#: 0008685901
Dr. George

Situation

You are a nurse working in the pediatric intensive care unit (PICU). You just arrived for your shift and received report on Jimmy John who is under the care of Dr. George.

Jimmy John is a 7-year old male recovering from a motor vehicle collision where he sustained a severe closed head injury. He was on the ventilator for the past 2 weeks.

Background

Tracheostomy tube and feeding tube placed 2 weeks ago. Chest tube placed 3 days ago due to a pneumothorax.

Assessment

Jimmy currently has a tracheostomy and is on room air. He has spontaneous respirations. His lung sounds are clear and equal bilaterally. He responds only to painful stimuli. He receives nutrition via his feeding tube. Active bowel sounds X 4 quadrants. Pulse 2+ for all 4 extremities. Skin warm and dry.

Current vital signs: HR 120, RR 40, BP-not assessed for past 2 hours, T 99°
Urine output for the past 12 hours = 272 mL.
Allergy: NKDA Code status: Full Weight:50 lbs.

Physician Orders

NPO for a scheduled MRI of the head later today
HOB elevated 30° with head in midline position
Chest tube to gravity
Foley catheter to gravity
HME to trach as tolerated
Call for O2 saturation less than 90%
Ceftriaxone 575 mg IVPB every 12 hours
D51/4 NS + 20 mEq KCL/liter at 85 mL/hr
Strict I & O
Keep G Button site clean and closed when not in use

Recommendation

When completing the following assignment:

- You **must show** all of your med math calculations and calculate to the nearest 10th place.
- You **must use** a drug reference to look up each medication included.
- You **will want to refer** to the Assessment and Intervention Of the Child lecture powerpoint as it will be helpful as you complete this activity.

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- Are there any physician's orders that you would question and if so, why? (List at least 2 orders)

- Calculate Jimmy's weight in kilograms _____ kg

- Calculate maintenance fluid requirements for this patient _____ mL/hr.

- What amount should you set the "volume to be infused" on the IV pump? (Remember, this is a safety measure) _____ mL

- Calculate minimal urine output for this patient _____ mL/hr.
 - o Is the urine output appropriate for the last 24 hours? Yes No

- Jimmy has an order for Ceftriaxone 575 mg IVPB every 12 hrs. **The pharmacist has mixed the dose that is due now in 25mL Sodium Chloride 0.9%.**
 - o What is the therapeutic range for this medication per the drug reference?
 - Calculate the therapeutic range for this medication for the BID dose ordered
 - Is the dose ordered within your calculated therapeutic range?

 - o What is the recommended concentration per the drug reference?
 - Calculate the concentration of the prescribed medication (look above to see how much fluid the pharmacist sent this medication in).
 - Is the prescribed dose within the recommended concentration range?