

Sammie Mills 12 mo. F
DOB 08/11/20XX
MR 0065245878

Pediatric IVPB Sim Activity - STUDENT

Situation

- **Chief Complaint:** Patient is recovering from an open reduction and internal fixation (ORIF) of the right femur performed this morning. Spica cast to right lower extremity.

Background

- **Admission Data:** Child involved in MVC with parents and older brother while in route to Children's ED due to excessive vomiting and diarrhea for 24 hours. X-ray performed in ED confirmed fractured right femur. To OR for ORIF of right femur fracture. Returned to pedi floor 1 hour ago.
- **Allergies:** NKDA **Code Status:** Full **Weight:** 19 lbs.
- **Pertinent Medical History:** None
- **Pertinent Psychosocial History:** Unremarkable

Assessment

- **Vital Signs:** HR 150, RR 34, temp 98.6F, BP 100/50, O2 sat 96%, pain rating 9/10 (FLACC)
- **Pertinent Assessment:**
 - Awake, alert, crying, grimacing, difficult to console, restless. Spica cast to RLE with extremity elevated. Toes pink with brisk cap refill and pulse 2+. Pulse ox to right great toe. No vomiting or diarrhea noted since admission to pedi floor.
- **Physician Orders:**
 - Vital signs with neurovascular checks every 4 hours
 - Diet for age
 - Strict I&O
 - IVF: D5 1/4NS + 20 mEq KCL/liter at 36 ml/hour
 - Morphine 0.8 MG IV q 4 hours prn severe pain
 - Ceftriaxone 450 MG IV every 24 hours
 - Daily CBC and electrolytes

Recommendation

- No pain meds administered for past 4 hours, antibiotic just arrived from pharmacy and is due now

Calculate the child's weight in kilograms: 19 lbs = _____kg

Calculate the maintenance fluid requirements for this child _____

Calculate the minimum acceptable urine output for this child _____

Morphine:

- What is the therapeutic range?
- Is the dose ordered within the therapeutic range?
- How many mL of medication should you draw out of the vial?
- Does the medication need to be diluted?
- What is the recommended rate of administration?

Administer the pain medication NOW

Ceftriaxone:

- Why was Ceftriaxone prescribed for this child?
- What type organism does the antibiotic target?
- What part(s) of the body does the antibiotic target?
- What is the therapeutic range?
- Is the dose ordered within the therapeutic range?
- What is the recommended concentration for the medication per the drug reference?

- Based on the IVPB pharmacy sent, what is the concentration of the medication?
- What is the recommended rate of administration?

Administer the IVPB antibiotic NOW