

1. Patient weighs 12kg. Calculate the hourly maintenance fluid requirement for this patient. Round to the nearest whole number.
46 ml/hr
2. Patient weighs 28kg. The physician orders state to run the fluids at twice the hourly maintenance fluid rate. What would the nurse set the pump to run at? Round to the nearest whole number. 138 ml/hr
3. The adolescent weighs 57kg. How much fluid should this patient get in a 24-hour day? What is the hourly rate to be set at? Round to the nearest whole number.
24 hours: 2240 mls
Hourly: 93 ml/hr
4. Administer IV fluids at two times the maintenance fluid requirement. The patient weighs 17 kg. The nurse will set the IV pump at how many milliliters per hour? (Round answer to the nearest whole number.) $56 \text{ ml/hr} \times 2 = 112.5$ (113 ml/hr)
5. The nurse receives an order to administer 200 mL of normal saline over 2 hours. The nurse should administer the normal saline bolus at how many milliliters per hour via an IV pump? 100 ml/hr
6. The nurse is to administer 180 mg of acetaminophen elixir PO. The nurse has acetaminophen 120 mg/5 mL available.
How many milliliters should the nurse draw up in the PO syringe?
7.5 mL
7. The nurse is to administer Ampicillin 125 mg mixed in 8 milliliters of NS through an IV pump over 20 minutes. The nurse should set the pump at how many milliliters per hour.
24 ml/hr
8. Prescribed Medication: 640 mg meropenem, IVPB every 8 hours for a 16 kg child
Label on IVPB: Meropenem 640 mg in 25 ml normal saline.
Medication Reference
Recommended Dose: 40 mg/kg every 8 hours

The most appropriate nursing action is to do which of the following?
a) Contact the pharmacist
b) Contact the charge nurse
c) Administer the medication
d) Contact the primary care provider

9. **Patient:** 10 kg infant

Prescribed Medication: Administer 7 mg of ketorolac tromethamine, IV, every 6 hours

Medication Reference

Recommended Dose: 0.5 mg/kg/dose every 6 hours.

Concentration Stated On The Ketorolac Vial: 15 mg/mL

What would the prudent nurse do?

- a) administer 0.46 mL.
- b) administer 0.5 mL.
- c) contact the primary care provider regarding a dose below the recommended range.
- d) contact the primary care provider regarding a dose above the recommended range.

10. Medication order: 20 mg of a medication by mouth tid
Patient weight: 132 pounds
Recommended dose range: 1 to 3 mg/kg/day
Is this a safe medication order?

Yes Safe Range is 60-180/ Day

Safe Range/Recommended Dose Range: 20 – 60 TID

Patient will be receiving 60 mg/Day of medication

11. Patient: A 16 kg child
Prescribed Medication: Administer 150 mg of erythromycin by mouth every 6 hours for 10 days
Medication Reference
Recommended Dose: 30 to 50 mg/kg/day divided every 6 hours
Concentration: 200 mg/5 mL
How many milliliters will the nurse administer per dose?
- A. 3 mL
 - B. 3.75 mL**
 - C. 5 mL
 - D. 7.5 mL

12. Medication order: 35 mg of a medication by mouth tid
Patient weight: 99 pounds
Safe dose range: 2 to 4 mg/kg/day
Is this a safe medication order?

Yes 90-180/24 HR

30-60 mg TID

13. A 15 kg child is to receive cefotaxime, IVPB

Medication Reference:

Recommended Dose: Cefotaxime 50 to 180 mg/kg/24 hours in 4 or 6 equally divided doses.

Which dose falls within the recommended range?

- A. 100 mg every 6 hours.
- B. 2 gm every 6 hours.
- C. 190 mg every 4 hours.
- D. 750 mg every 4 hours.

14. The nurse is caring for a patient who has an order for 500 mg azithromycin IVPB once a day.

An IVPB of 500 mg azithromycin mixed in 500 ml normal saline is in the patient's medication drawer.

The IVPB is to be administered over 3 hours on an IV Pump. At what rate should the nurse administer the medication? (Round answer to the nearest whole number.)

- A. 50 mL/hr
- B. 167 mL/hr
- C. 500 ml/hr
- D. 1500 mL/hr

15. The medication order is to administer naloxone (Narcan) 1.5 mcg/kg STAT. The child weighs 36.3 pounds. How many mg of Narcan will the nurse give to the child?

The prescribed medication is lansoprazole, 30 mg, IVPB.

Medication Reference

Dilution: Each 30 mg dose must be diluted in 50 mL of normal saline

Rate of Administration: A 30 mg dose is to be evenly distributed over 30 minutes.

The nurse will administer the medication at how many milliliters per hour on an IV Pump?

- A. 30
- B. 50

- C. 60
- D. 100

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Medication Reference

Dilution: Each 30 mg dose must be diluted in 50 mL of normal saline

Rate of Administration: A 30 mg dose is to be evenly distributed over 30 minutes.

The nurse will administer the medication at how many milliliters per hour on an IV Pump?

- A. 30
- B. 50
- C. 60
- D. 100

17. The nurse is to administer 50ml IVPB over 1 hour using IV tubing drop factor of 30 gtt/mL. The tubing should be set at ____ drops per minute? (Round answer to the nearest whole number.)

- A. 10
- B. 25
- C. 50
- D. 100