

VNSG 2561 LVN Clinical Training III
Dosage Calculation Classroom Assignment

1. Order: Digoxin 18 mcg po bid.

The safe range is 10 – 12 mcg/kg/day. Child weighs 7 lbs.

- a. Calculate the minimum recommended dose per day. 32 mcg/day
- b. Calculate the minimum recommended single dose. 16 mcg/dose
- c. Calculate the maximum recommended dose per day. 38.4 mcg/day
- d. Calculate the maximum recommended single dose. 19.2 mcg/dose
- e. Is the order within the recommended range for this child? Yes

2. Order: Phenytoin 40 mg po q 8 hr.

The safe range is 8–10 mg/kg/day. Child weighs 27 lb.

- a. Calculate the minimum recommended dose per day. 98.4 mg/day
- b. Calculate the minimum recommended single dose. 32.8 mg/dose
- c. Calculate the maximum recommended dose per day. 123 mg/day
- d. Calculate the maximum recommended single dose. 41 mg/dose
- e. Is the order within the recommended range for this child? Yes

3. Order: Prednisone 150 mg po bid.

The safe range is 0.5-40 mg/kg/day. Child weighs 21 lb.

- a. Calculate the minimum recommended dose per day. 4.8 mg/day
- b. Calculate the minimum recommended single dose. 2.4 mg/dose
- c. Calculate the maximum recommended dose per day. 380 mg/day
- d. Calculate the maximum recommended single dose. 190 mg/dose
- e. Is the order within the recommended range for this child? Yes

4. The recommended dosage for Augmentin is 30mg/kg/day given every 12 hours. The Healthcare Provider has prescribed Augmentin 375 mg PO every 12 hours. The child weighs 25000 gram. Augmentin must be reconstituted with 0.8 mL of diluent to yield 125 mg/mL.

- a. What is the recommended daily dosage this child could receive? 750 mg/day
- b. What is the recommended single dose this child could receive? 375 mg/dose
- c. Is the order within the recommended range? Yes
- d. If so, compute the number of milliliters of Augmentin that should be administered per dose.
3 mL

5. Order: Cefaclor 67.5 mg po q 8 hr.

Child weighs 10 lb. The safe dose is 15 mg/kg/dose.

- a. What is the safe dose for this child? 67.5 mg/dose
- b. Is the ordered dose safe? Yes
- c. If the medication is supplied 125 mg/ 5 ml, how many ml will you administer?
2.7 mL

6. A patient has a Morphine PCA prescription for pain.

Prescription reads:

Basal rate: 4 mg/hour

PCA dose: 2 mg/15 minutes

How many mg can the patient receive in 8 hour? 96 mg

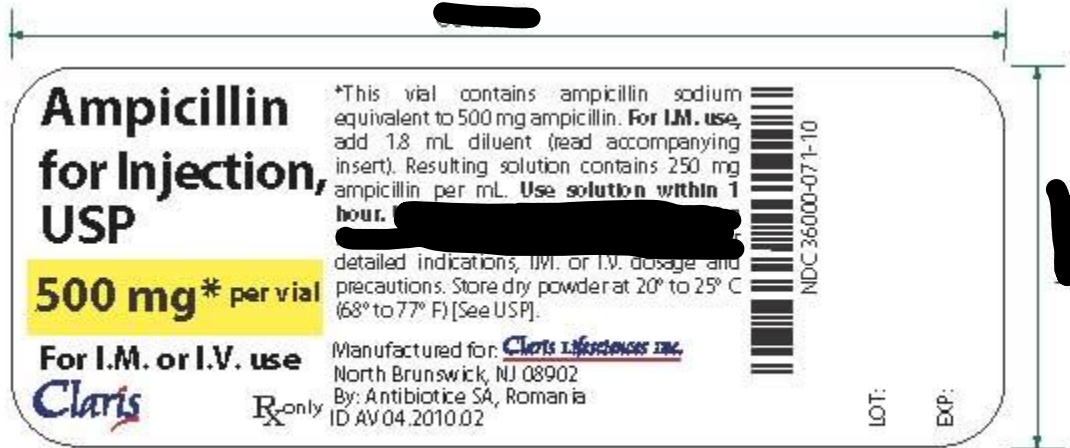
7. The Healthcare Provider prescribes 500 mL of LR solution to infuse over 2 hours for a patient. The drop factor is 20 gtt/mL. What is the correct mL/hr and gtt/min? (round to whole #)

- a. 250 mL/hr
- b. 83 gtt/min

8. The Healthcare Provider prescribes 1500 mL of LR solution to infuse over 6 hours for a patient. The drop factor is 15 gtt/mL. What is the correct mL/hr and gtt/min? (round to whole #)

- a. 250 mL/hr
- b. 63 gtt/min

9. A child weighs 46 lb. The prescription reads Ampicillin 1045 mg po every 6 hours.
Recommended dosage: 200-400 mg/kg/day every 4-6 hours.
- How many kg does the child weigh? (round to the tenth) 20.9 kg
 - What is the minimum recommended single dose this child can receive? 1045mg/dose
 - What is the maximum recommended single dose this child can receive? 2090 mg/dose
 - Is the order within the recommended range? Yes
 - If so, compute the number of milliliters of Ampicillin that should be administered per dose. 4.2 mL



10. The Healthcare Provider has prescribed sliding scale insulin for the patient. You perform a chemstick at 1200 and the glucose level is 159. Based on the chart below, how much regular insulin will the patient receive? **Circle your answer on the chart and mark the syringe below to indicate the correct dosage.**



Sliding Scale	Insulin Dosage
Blood Sugar: 0-150	Zero unit
Blood Sugar: 151-250	8 unit
Blood Sugar: 251-350	13 unit
Blood Sugar: 351-400	18 unit
Blood Sugar: >400	Call Doctor

