

3. A patient is to receive 40 mg of solumedrol injection daily. How many mL would be injected in a daily dose? Use the label below to calculate the dosage.

IMPRINT AREA

LOT/EXP
P A A 0 9 4 1 3 3

For Intramuscular or Intravenous Use Only
Store solution at controlled room temperature 20° to 25°C (68° to 77°F) [see USP] and use within 48 hours after mixing. Protect from light.
DOSAGE AND USE: See accompanying prescribing information.
Once reconstituted with 8 mL of the Diluent, the resultant concentration is 125 mg per mL.
Lyophilized in container.
Distributed by Pharmacia & Upjohn Co
Division of Pfizer Inc, NY, NY 10017

Single use vial. NDC 0009-0018-20
Discard unused portion.
8 mL Act-O-Vial®

Solu-Medrol®
(methylprednisolone sodium succinate for injection, USP)
1 gram* per vial
Preservative-Free Rx only

4. Norepinephrine is infusing at 30 ml/hr. The medication is supplied as 4 mg in 250 mL of D5W. The patient weighs 170 pounds. Calculate the dose in mcg/kg/min. Round to the nearest tenth. Enter numbers only.

5. The patient is to receive fentanyl 100 mcg now. How many mL should be delivered? (Enter numbers only)



6. A patient is receiving nicardipine at a rate of 10 mL/hr. The medication is supplied as 25 mg/250 mL. How many mg/hr are infusing? (Enter numbers only).

Med-Surg Math Practice Fall 2020

9. A patient is to receive promethazine 12.5 mg IV push now. The medication is supplied as 40 mg/10 mL. How many mL should be delivered? Round to the nearest hundredth.

10. Dopamine is to be give at a rate of 72 mg/hr. The drug is supplied as 400 mg/250 mL. Calculate the flow rate in mL/hr. (Enter numbers only)

11. A patient is currently receiving nitroglycerin at 10 mL/hr. The concentration of nitroglycerin is 50 mg/250 mL. The nurse receives a new order to increase the infusion rate to 15 mL/hr. How many mcg/min will the patient be receiving? (Round to the nearest whole number. Enter numbers only.)

12. A dehydrated patient is to receive a fluid bolus of 500 mL of NS in four hours. What rate (mL/hr) would you set the IV pump?

13. A patient is to receive ceftriaxone 250 mg intravenous injection daily. How many mL would be injected in a daily dose? Use the label below to calculate the dosage. Round to the nearest tenth.

NDC 0143-9857-01 **Rx only**

CEFTRIAXONE
FOR INJECTION, USP

1 gram/Vial

EQUIVALENT TO 1 GRAM CEFTRIAXONE

FOR IV OR IM USE
Single Dose Vial
PROTECT FROM LIGHT

For IM administration: Reconstitute with 2.1 mL 1% Lidocaine Hydrochloride Injection, USP or Sterile Water for Injection, USP. Each 1 mL of solution contains approximately 350 mg equivalent of ceftriaxone.

For IV administration: Reconstitute with 9.6 mL of an IV diluent specified in the accompanying package insert. Each 1 mL of solution contains approximately 100 mg equivalent of ceftriaxone. **Withdraw entire** contents and dilute to the desired concentration with the appropriate IV diluent.

USUAL DOSAGE and Storage After Reconstitution: See package insert. **Storage Prior to Reconstitution:** Store powder at 20° to 25°C (68° to 77°F) [See USP Controlled Room Temperature].

Mfd. by: HIKMA FARMACÉUTICA (PORTUGAL), S.A. Dist. by: WEST-WARD, Eatontown, NJ 07724 USA

PLB371-WES,6 NDC 0143-9857-01

Lot: Exp:

14. The patient is to receive ciprofloxacin 500 mg over two hours. It is supplied as 500 mg in 200 mL of D5W. The drip factor for the tubing is 15. How many gtt/min should be delivered? Round to the nearest whole number. Enter numbers only.

15. There is an order to give pantoprazole 10 mg IV now. The medication is 20 mg to be diluted in 10 mL of sterile normal saline. How many mL should be delivered? Round to the nearest whole number. Enter numbers only.

16. The order is to give morphine 4 mg IV push now. How many mL from this vial should be delivered? (Enter numbers only)



17. A patient is receiving nitroglycerin at 5 mL/hr. The concentration is 0.2 mg/mL. How many mcg/min is the patient receiving? Enter whole numbers only. No letters.

18. There is an order to give hydromorphone 1 mg IV now. The medication is supplied in a vial containing 2 mg of hydromorphone in 1 mL of solution. The nurse dilutes the entire contents of the vial by adding 4 mL of sterile normal saline. How many mL should be delivered in order to give the ordered dose of 1 mg?

19. Dobutamine is ordered to start at 5 mcg/kg/min. The drug is supplied as 250 mg/50 mL. The patient weighs 97 kg. At what rate in mL/hr should the pump be set? (Round answer to the nearest whole number)

20. The patient is to receive lincomycin HCL 3 grams over 3 hours. The drug is supplied as 3 grams/300 mL. The drop factor of the tubing is 20. How many gtt/min should be administered? Round to the nearest whole number.

21. Dexmedetomidine HCL is infusing at 150 mL/hr. The drug is supplied as 0.2 mg/50 mL. The patient weighs 175 pounds. How many mcg/kg/min is the patient receiving? (Round answer to the nearest tenth)