

SterileProducts

certification course[®]

NAME: _____ **DATE:** _____

This packet is to be turned in at the completion of the course. Thanks!

LAB: gentamicin injection, USP

A 48 old male with a serious respiratory infection.

His height is 6'2"; his weight is 176 lbs.

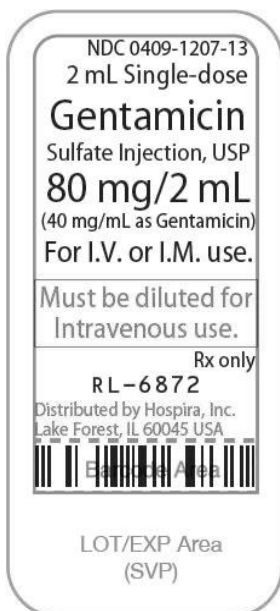
Rx: Administer 3mg/kg of gentamicin as an infusion, divided into three equal doses q8h, further diluted in 50mL of D5W.

Supplies Needed:

- (1) 2mL training liquid vial
- (1) 3mL luer lock syringe
- (1) 18G1" needle
- (1) 50mL of D5W
- (3) alcohol prep pads

Based on the prescribed dose & the information below, 1) how much gentamicin will the pt receive per dose? 2) How many mL of gentamicin will need to be added to 50mL of D5W?

1) _____ 2) _____



LAB: Venofer® (iron sucrose injection, USP)

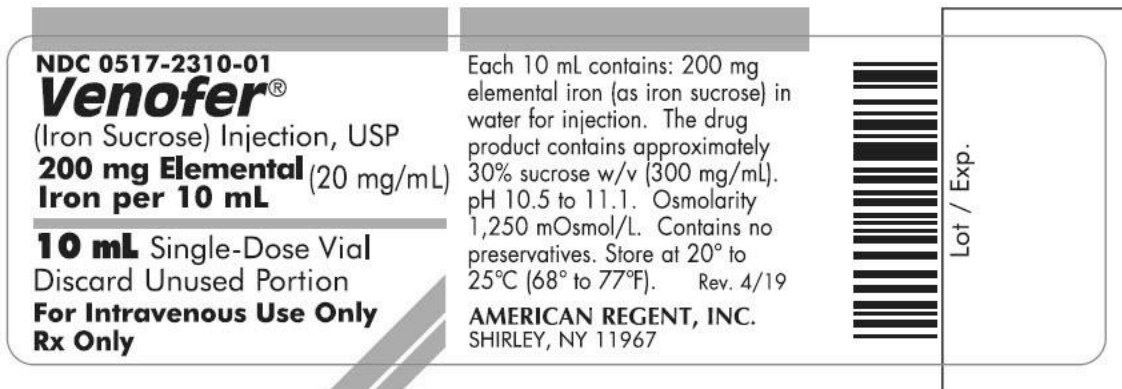
A 32 old female diagnosed with Hemodialysis Dependent-Chronic Kidney Disease (HDD-CKD). Her height is 5'5" and her weight is 144 lbs.

Rx: Administer 100mg of Venofer as an infusion diluted in a maximum of 100mL of 0.9% NaCl over a period of 15 minutes, per consecutive hemodialysis session.

Supplies Needed:

- (1) 10mL training liquid vial
- (1) 6mL luer lock syringe + 18G1" needle
- (1) 100mL of 0.9% NaCl
- (3) alcohol prep pads

Based on the prescribed dose and the information below, how many mL of Venofer will need to be added to 100mL of 0.9% NaCl? _____



LAB: Sodium Bicarbonate Injection, USP 8.4%

A 48-year-old male with metabolic acidosis caused by renal failure.

His height is 6' and his weight is 212 lbs.

Rx: Administer 50mEq of sodium bicarbonate as an infusion, diluted in 1L of D5W at a rate of 1L/hr.

Supplies Needed:

- (1) 50mL training vial
- (1) 60mL luer lock syringe + (1) 16G1" needle
- (1) 1000mL of D5W
- (3) alcohol prep pads

Based on the prescribed dose and the information below, how many mL of sodium bicarbonate will need to be added to 1000mL of 0.9% NaCl? _____

NDC 63323-089-50
Sodium Bicarbonate
Injection, USP, 8.4%

50 mEq
(1 mEq per mL)

For intravenous use only.

50 mL
Single Dose Vial Rx only

LAB: Zithromax® (azithromycin for injection)

A 71 old female with community-acquired pneumonia caused by certain bacteria.

Her height is 5'1" and her weight is 100 lbs.

Rx: Administer 500mg of azithromycin as an infusion diluted in 250mL of 0.9% NaCl over a period of 60 minutes.

Supplies Needed:

- (1) training powder vial
- (1) 10mL training liquid vial
- (1) 6mL luer lock syringe + 18G1" needle
- (1) 250mL of 0.9% NaCl
- (4-5) alcohol prep pads

Based on the prescribed dose and the information below, how many mL of the reconstituted azithromycin will need to be added to 250mL of 0.9% NaCl? _____



LAB: Rocephin © (ceftriaxone sodium, USP)

A 51 old male with a severe lower respiratory tract infection.

His height is 5'10" and his weight is 190 lbs.

Rx: Administer 1g of ceftriaxone sodium as an IV infusion, diluted in 50mL of 0.9% NaCl over a period of 30 minutes.

Supplies Needed:

- (1) training powder vial
- (1) 10mL training liquid vial
- (2) 12mL luer lock syringe + (2) 18G1" needle
- (1) 50mL of 0.9% NaCl
- (5) alcohol prep pads

Based on the prescribed dose and the information below, how many mL of the reconstituted solution will need to be added to 50mL of 0.9% NaCl? _____



The image shows a vial label for Ceftriaxone for Injection, USP. The label includes the following information:

- NDC 0143-9857-01
- CEFTRIAOXONE** FOR INJECTION, USP
- 1 gram/Vial**
- EQUIVALENT TO 1 GRAM CEFTRIAOXONE
- FOR IV OR IM USE**
- Single Dose Vial
- PROTECT FROM LIGHT
- Mfd. by: HIKMA FARMACÉUTICA (PORTUGAL), S.A. Dist. by: WEST-WARD, Eatontown, NJ 07724 USA
- 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].
- Lot: _____
- Exp: _____

LAB: Cubicin RF © (daptomycin for injection)

A 38-year-old female with complicated skin and skin structure infection (cSSSI).

Her height is 5'4" and her weight is 154 lbs.

Rx: Administer 4mg/kg daptomycin in a 50mL IV infusion bag containing 0.9% NaCl for a period of 30 minutes.

• Final concentration to be 50mg/mL; there are two formulations that have differences concerning storage/reconstitution – Cubicin vs. Cubicin RF.

Supplies Needed:

- (1) training powder vial
- (1) 10mL training liquid vial
- (2) 12mL luer lock syringe + (2) 18G1" needle
- (1) 250mL of 0.9% NaCl
- (4) alcohol prep pads

Based on the prescribed dose and the information below, how many mL of the reconstituted solution will need to be added to 50mL of 0.9% NaCl? _____

NDC 69097-807-37 Rx Only
**Daptomycin
for Injection**
500 mg per vial
MUST BE REFRIGERATED
For Intravenous Infusion.
Single-dose vial-
Discard Unused Portion
Cipla

Use 10 mL 0.9% Sodium Chloride Injection for reconstitution only. See package insert for complete information on dosage and administration. **Must be refrigerated, store at 2°C to 8°C (36°F to 46°F).** Mfd. by: **Biological E. Limited**, Shameerpet, Telangana, India Distributed by: **Cipla USA, Inc.** 1560 Sawgrass Corporate Parkway, Suite 130, Sunrise, FL 33323

Iss. 7/2019
M.L.No.: 13/MDC/HL/TS/2017/B&F/G
Lot:
Exp.:

3 69097 80737 5
20001677
NVZ:
W19.1 X H10 mm

LAB: Lanoxin © (digoxin injection, USP)

A 52-year-old male with congestive heart failure.

His height is 5'7" and his weight is 165 lbs.

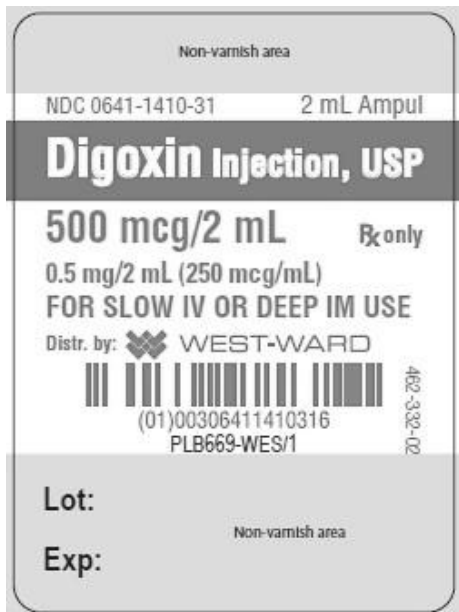
Rx: Administer digoxin 8 mcg/kg, in divided doses q4h over 12h, diluted in 50mL of 0.9% NaCl over a period of 15 minutes.

Supplies Needed:

- (1) 2mL training ampule
- (1) 3mL luer lock syringe + 18G1" needle
- (1) 18G1.5" filter needle
- (1) 50mL of 0.9% NaCl
- (3) alcohol prep pads

Based on the prescribed dose and the information below, 1) how much digoxin will the patient receive per dose? 2) How many mL of digoxin will need to be added to 50mL of 0.9% NaCl?

1) _____ 2) _____



LAB: Ferrlecit® (sodium ferric gluconate complex in sucrose injection)

A 26-year-old female with iron deficiency anemia.
Her height is 5'3" and her weight is 110 lbs.

Rx: Administer 125mg of Ferrlecit as an infusion, diluted in 100mL of 0.9% NaCl for a period of 60 minutes.

Supplies Needed:

- (2) 5mL training ampules
- (1) 12mL luer lock syringe + (1) 18G1" needle
- (1) 18G1.5" filter needle
- (1) 100mL of 0.9% NaCl
- (4) alcohol prep pads

Based on the prescribed dose and the information below, how many mL of Ferrlecit will need to be added to 100mL of 0.9% NaCl? _____

Rx Only NDC 0024-2791-50 **INTRAVENOUS
USE ONLY**
Ferrlecit®
sodium ferric gluconate complex in sucrose injection
**62.5 mg elemental iron/
5 mL Sterile Single-use Ampule**
Each mL contains: See package insert
12.5 mg elemental iron for complete
195 mg sucrose in water for complete
for injection and prescribing
9.0 mg benzyl alcohol information.
For inquiries call **Store at 20-25°C
(68-77°F);**
1-800-446-6267 **excursions permitted**
sanofi-aventis U.S. LLC to 15-30°C (59-86°F)
Bridgewater, NJ 08807 50090313
Origin: United Kingdom **sanofi aventis**
