


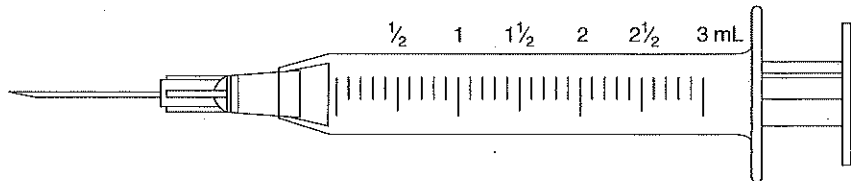


WORK SHEET 


DIRECTIONS: The medication order is listed at the beginning of each problem. Calculate the parenteral doses. Show your work. Shade the syringe when provided to indicate the correct dose.

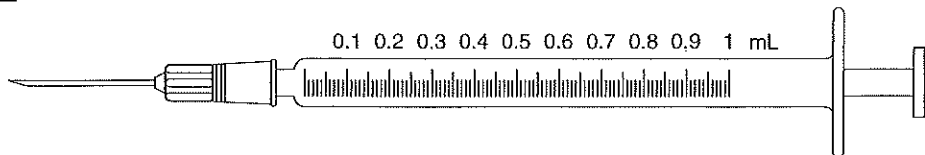
- The licensed prescriber orders streptomycin 500 mg IM q 12 h for your patient with an infection. How many milliliters will you administer? _____

2.5 mL Streptomycin Sulfate Injection, USP 1g/2.5 mL (400 mg/mL) (of streptomycin) <i>For IM use only</i> Store under refrigeration at 36° to 46°F (2° to 8°C) CAUTION: Federal law prohibits dispensing without prescription. LOT EXP  Roerig <small>Division of Pfizer Inc., NY, NY 10013</small>	2.5 mL Streptomycin Sulfate Injection, USP 1g/2.5 mL (400 mg/mL) (of streptomycin) <i>For IM use only</i> Store under refrigeration at 36° to 46°F (2° to 8°C) CAUTION: Federal law prohibits dispensing without prescription. LOT EXP  Roerig <small>Division of Pfizer Inc., NY, NY 10013</small>
--	--

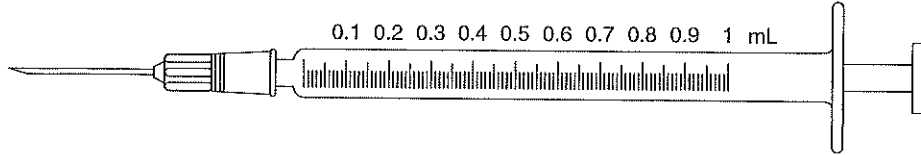
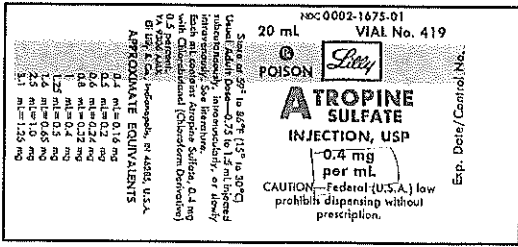


- Your patient with an atrial valve repair has Digoxin 110 mcg IV q 12 h ordered. How many milliliters will you prepare? _____

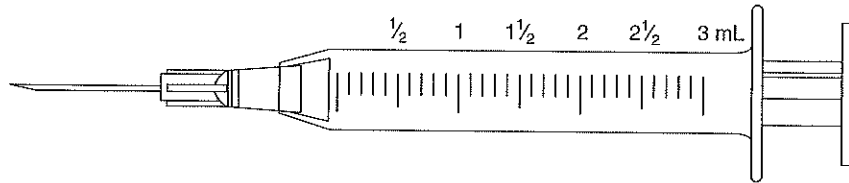
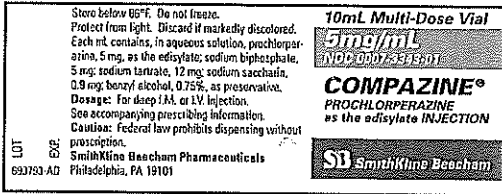
2 mL DOSETTE Ampul A-1410F DIGOXIN INJECTION, USP 500 mcg/2 mL 0.5 mg/2 mL (250 mcg/mL) FOR SLOW IV OR DEEP IM USE  ELKHIS-SINOR, INC. <small>CHERRY HILL, NJ 08003</small>



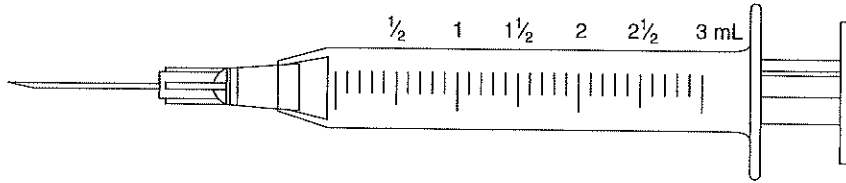
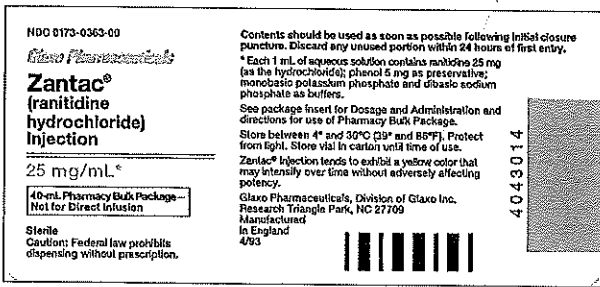
3. The licensed prescriber orders atropine 0.3 mg IM at 0615. How many milliliters will the nurse administer? _____



4. Your patient who has undergone pacemaker placement complains of nausea and has Compazine 10 mg IM q 6 h ordered. How many milliliters will you administer? _____



5. The licensed prescriber orders ranitidine hydrochloride 50 mg IM q 6 h. How many milliliters will the nurse administer? _____



6. The licensed prescriber orders piperacillin 3 g IV q 8 h for your patient with sepsis. You have piperacillin 1 g/2.5 mL available. How many milliliters will you prepare? _____

7. The licensed prescriber orders morphine 5 mg subcutaneous q 4 h. How many milliliters will the nurse administer? _____

LOT
EXP.

LIGHT SENSITIVE: Keep covered in carton until time of use. To open—Cut seal along dotted line.

25 DOSETTE® Vials
Each contains 1 mL

MORPHINE CIV
SULFATE INJECTION, USP

10 mg/mL

WARNING: May be habit forming.
FOR SC, IM OR SLOW IV USE
NOT FOR EPIDURAL OR INTRATHECAL USE
PROTECT FROM LIGHT — Store at 15°-30°C (59°-86°F). Avoid freezing.
USUAL DOSAGE: See package insert.

NDC 0841-0180-25
Each mL contains morphine sulfate 10 mg, monobasic sodium phosphate monohydrate 10 mg, dibasic sodium phosphate, anhydrous 2.8 mg, sodium formaldehyde sulfoxylate 3 mg and phenol 2.5 mg in Water for Injection, pH 2.5-8.5; sulfonic acid added, if needed, for pH adjustment. Seal under nitrogen. NOTE: Do not use if color is darker than pale yellow. If it is discolored in any other way or if it contains a precipitate, Caution: Federal law prohibits dispensing without prescription. Code: 0180-25 B-5018th

ESL ELKINS-SINN, INC. Cherry Hill, NJ 08003-4099
A Subsidiary of A.H. Robins Company

8. The licensed prescriber orders diazepam 4 mg IV q 12 h for your patient with anxiety. How many milliliters will you prepare? _____

LOT
EXP.

10 DOSETTE® Ampuls
NDC 0641-1408-33

Each contains 2 mL
6505-00-375-8955

DIAZEPAM CIV
INJECTION, USP

10 mg/2 mL (5 mg/mL)

For INTRAMUSCULAR or INTRAVENOUS Use
Each mL contains diazepam 5 mg, propylene glycol 0.4 mL, alcohol 0.1 mL, benzyl alcohol 0.015 mL and sodium benzoate/benzoic acid, a total of 50 mg, in Water for Injection, pH 6.2-6.9.
USUAL DOSAGE: See package insert for complete prescribing information.
PROTECT FROM LIGHT: Keep covered in carton until time of use. Store at controlled room temperature 15°-30°C (59°-86°F).
NOTE: Solution may appear colorless to light yellow.
Caution: Federal law prohibits dispensing without prescription.
Product Code: 1408-33 B-31408d

ESL ELKINS-SINN, Cherry Hill, NJ 08003-4099
A Subsidiary of A.H. Robins Company

9. Your patient with congestive heart failure requires furosemide 30 mg IV STAT. How many milliliters will you administer? _____

FUROSEMIDE INJECTION, USP

(10 mg/mL)
For IM or IV Use
4 mL Single Dose Vial

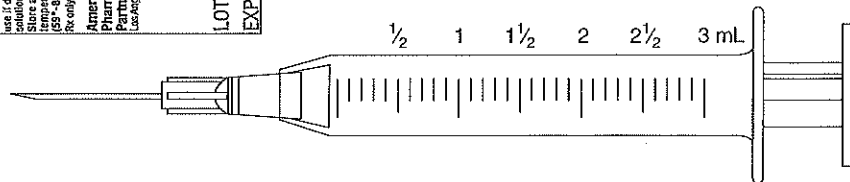
N 83323-280-04 Sterile, Nonpyrogenic 28004

Preservative Free
Discard unused portion.
Each mL contains: Furosemide 10 mg, Water for Injection q.s. to 1 mL, Benzyl Alcohol 0.015 mL, Sodium Hydroxide and if necessary hydrochloric acid, necessary hydrochloric acid.
Do not use if color is darker than pale yellow. If it is discolored in any other way or if it contains a precipitate, Caution: Federal law prohibits dispensing without prescription.
Store at controlled room temperature 15°-30°C (59°-86°F).
Rx only

401736

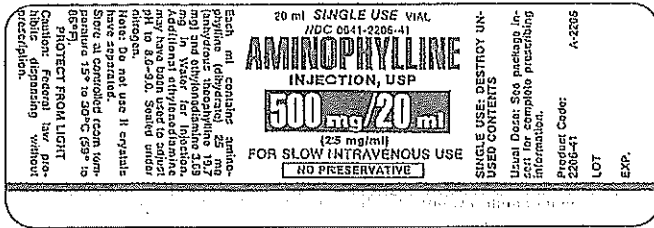
LOT
EXP.

American Pharmaceutical Partners, Inc. Los Angeles, CA 90024

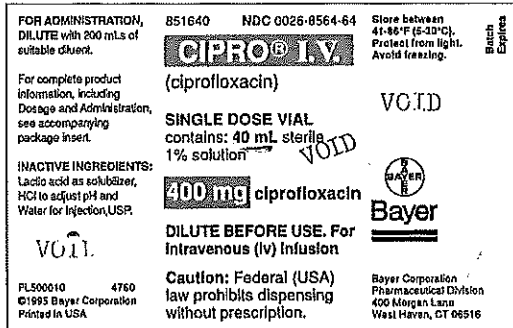


10. Your postoperative patient has Toradol 15 mg IM q 6 h for 3 days ordered. You have 30 mg/mL prefilled syringes. How many milliliters will you administer? _____

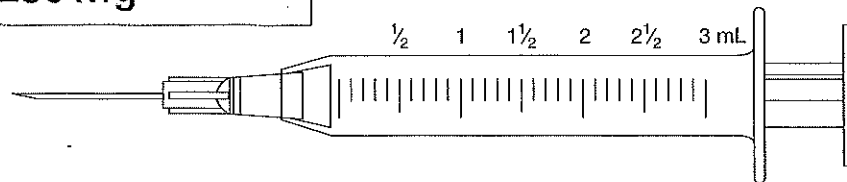
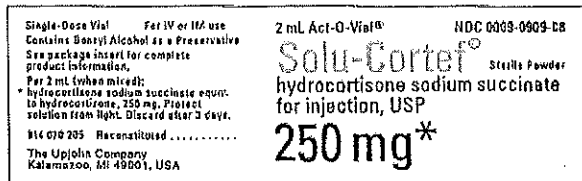
11. The licensed prescriber orders D₅W 1000 mL plus sodium bicarbonate (NaHCO₃) 25.8 mEq at 12 mL/h IV. NaHCO₃ is supplied in a 50-mL ampule containing 44.6 mEq. How many milliliters of NaHCO₃ will be added to the 1000 mL of D₅W? _____
12. Your patient with asthma requires aminophylline 100 mg IV q 6 h. How many milliliters will you prepare? _____



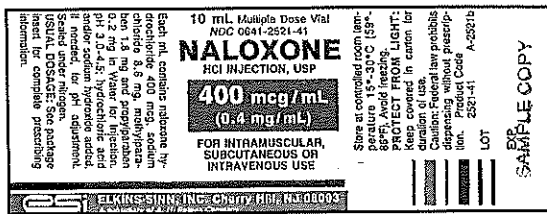
13. The licensed prescriber orders amphotericin B 350 mg IV every day. You have a 100-mg/20-mL vial. How many milliliters will you prepare? _____
14. The licensed prescriber orders Cipro 300 mg q 12 h IV. How many milliliters will you prepare? _____



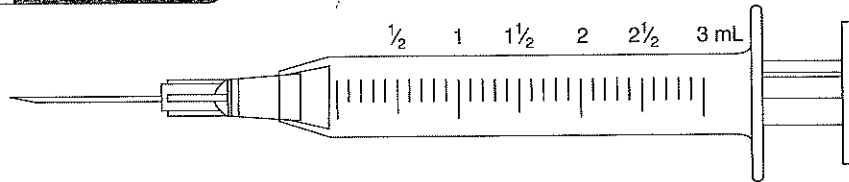
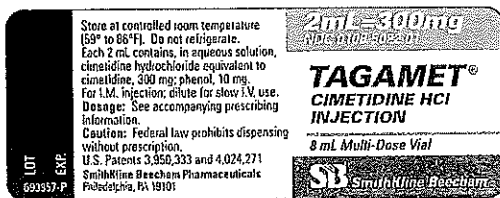
15. The licensed prescriber orders Solu-Cortef 0.05 g IM q 6 h for your patient with scleroderma. How many milliliters will you administer? _____



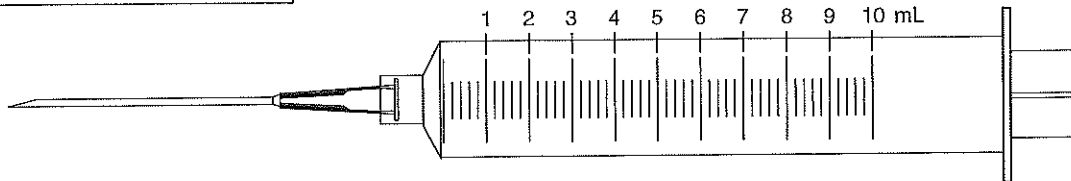
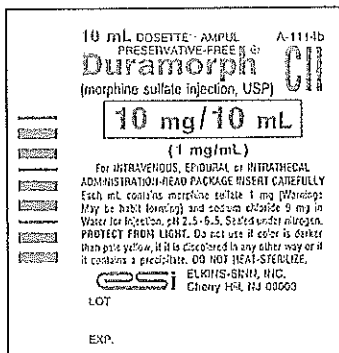
16. The licensed prescriber orders naloxone 0.6 mg IV STAT. How many milliliters will you administer? _____



17. The licensed prescriber orders Tagamet 300 mg IV q 6 h. How many milliliters will the nurse prepare? _____

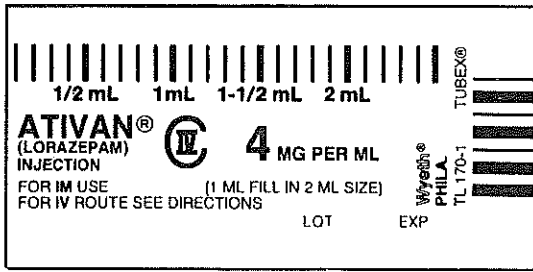


18. Mrs. Andis requires Duramorph 6 mg IV q 4 h for pain. How many milliliters will the nurse administer? _____

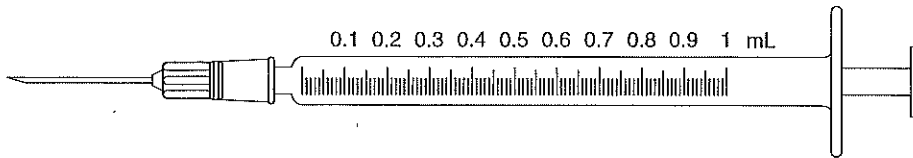


19. Loxapine 25 mg IM now is ordered for Mrs. Switzer, who has been diagnosed with a psychotic disorder. Loxapine 50 mg/mL is available. How many milliliters will the nurse administer? _____

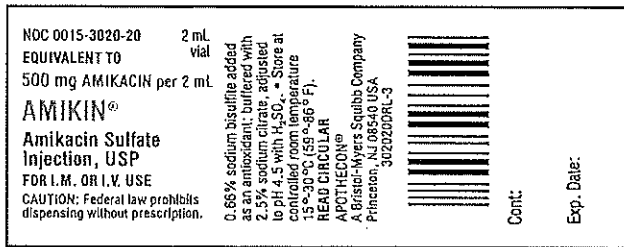
20. Mr. Lewis requires Ativan 1 mg IM STAT for severe agitation. How many milliliters will the nurse administer? _____



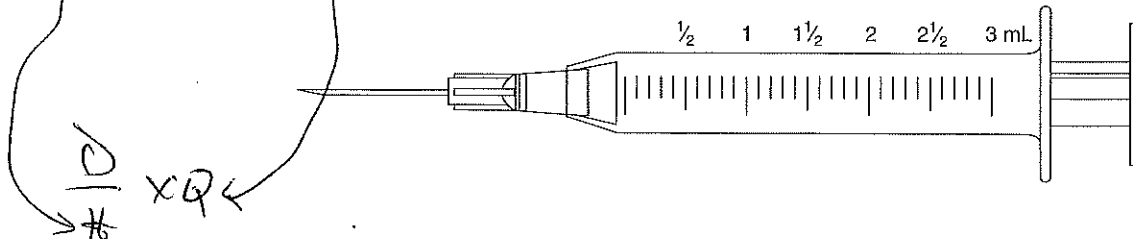
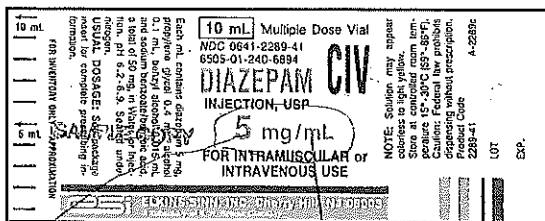
21. Mrs. Carroll requires Apresoline 10 mg IM q 6 h for high blood pressure. Apresoline is supplied in 1-mL ampules containing 20 mg. How many milliliters will the nurse prepare? _____



22. Mr. Fry has amikacin sulfate 400 mg IV q 8 h ordered. You have amikacin sulfate for injection 500 mg/2 mL. How many milliliters will you administer? _____

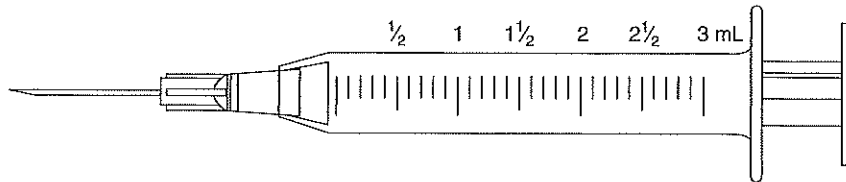


23. The licensed prescriber orders diazepam 7.5 mg IM q 6 h for your anxious patient. How many milliliters will you administer? _____



24. Mr. Keesling is diagnosed with an acoustic neuroma and complains of pain. He has codeine 15 mg IM q 3 h prn ordered. How many milliliters will the nurse administer? _____

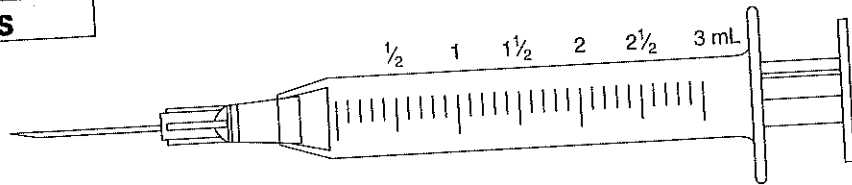
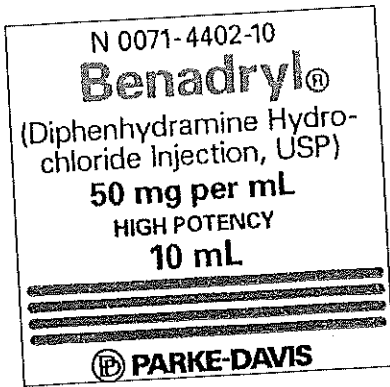
25. The licensed prescriber orders AquaMEPHYTON 0.01 g IM every morning. How many milliliters will the nurse administer? _____



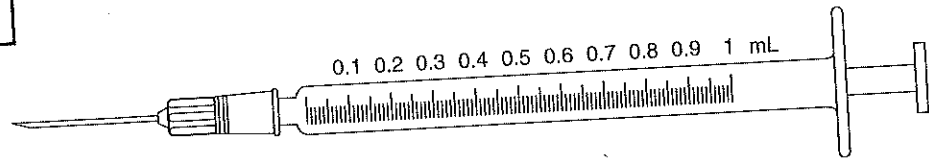
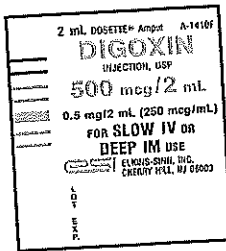
26. The licensed prescriber orders Cipro 0.2 g IV q 12 h. How many milliliters will the nurse prepare? _____

27. Mrs. Ring, who has undergone a hysterectomy, has morphine 6 mg IV q 4 h prn ordered for pain relief. How many milliliters will the nurse administer? _____

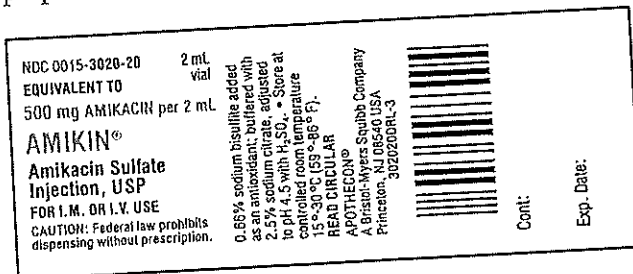
28. The licensed prescriber orders Benadryl 100 mg IM four times a day. How many milliliters will the nurse administer? _____



29. Mr. Fields requires digoxin 100 mcg IM daily for his cardiac dysrhythmia. How many milliliters will the nurse administer? _____



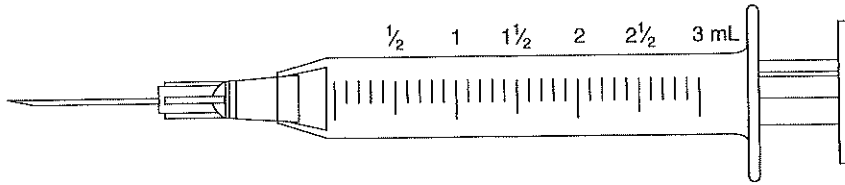
30. The licensed prescriber orders Amikin 700 mg IV q 12 h. How many milliliters will the nurse prepare? _____



Cont:

Exp. Date:

36. Your patient admitted with neuroleptic disorder has Valproate 150 mg IM at bedtime prn ordered. The drug is available for injection at 100 mg/mL. How many milliliters will you administer? _____



37. Ms. Barry has orders for bumetanide 0.5 mg IV q 3 h for edema caused by congestive heart failure. How many milliliters will the nurse administer? _____

NDC 10019-506-10

Bumetanide Injection, USP

0.25 mg/mL Rx only
FOR IV OR IM USE
10 mL Multiple Dose Vial

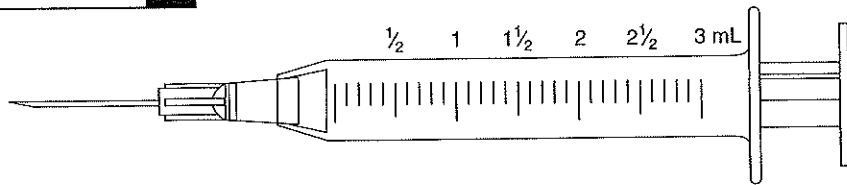
Baxter
Div. of Baxter Healthcare Corporation
Baxter Division, Deerfield, IL 60015
Baxter Healthcare Corporation, Deerfield, IL 60015

Each mL contains: Bumetanide 0.25 mg, Sodium Chloride 8.5 mg, and Ammonium Acetate 4.0 mg, as buffers, Disodium Edetate 0.1 mg, Benzyl Alcohol 10 mg, as preservative, Water for Injection q.s. pH adjusted with Sodium Hydroxide, pH 6.5-7.8.

Usual Dosage:
For dosage recommendations and other important prescribing information, see package insert.

Store at controlled room temperature 15°-30°C (59°-86°F).

Y29-064-002 400-588-01



38. Your patient with chronic obstructive pulmonary disease receives aminophylline 75 mg IV q 6 h. How many milliliters will you prepare? _____

20 mL SINGLE USE VIAL
NDC 0641-2306-41

AMINOPHYLLINE INJECTION, USP

500 mg / 20 mL
(25 mg/mL)

FOR SLOW INTRAVENOUS USE
NO PRESERVATIVE

Each mL contains: aminophylline (hydrated) 25 mg, sodium hydroxide 1.5 mg, and water for injection 1.9 mg. Additional divalent cations may be present. See package insert for complete prescribing information.

Protect from light. Store at controlled room temperature 15°-30°C (59°-86°F).

Do not use if crystals have separated. Shake well before use.

Caution: Federal law prohibits dispensing without prescription.

SINGLE USE: DESTROY UN-USED CONTENTS

Usual Dosage: See package insert for complete prescribing information.

Product Code: 2306-41
LOT
EXP.

A-25205

39. The licensed prescriber orders naloxone 0.6 mg IM STAT. How many milliliters will the nurse prepare? _____

10 mL Multiple Dose Vial
NDC 0041-2521-41

NALOXONE HCl INJECTION, USP

400 mcg/mL (0.4 mg/mL)

FOR INTRAMUSCULAR, SUBCUTANEOUS OR INTRAVENOUS USE

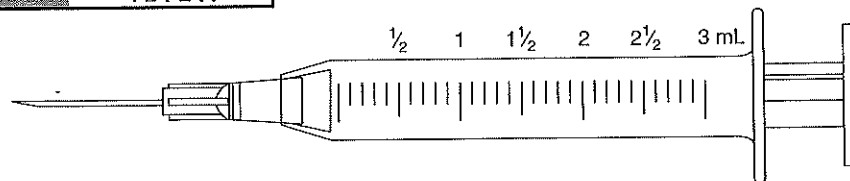
Each mL contains naloxone hydrochloride 400 mcg, sodium chloride 8.5 mg, methylene blue 0.1 mg, and water for injection q.s. pH 3.0-4.5. Hydrochloric acid is added for adjustment.

Store as controlled room temperature, 15°-30°C (59°-86°F). **PROTECT FROM LIGHT.** Keep covered in carton for duration of use.

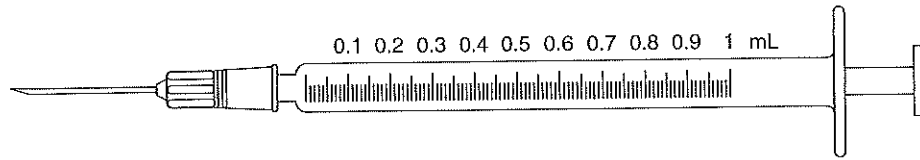
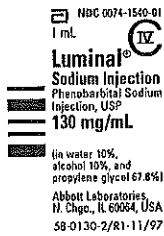
Caution: Federal law prohibits dispensing without prescription.

Product Code: 2521-41
LOT
EXP.

SAMPLE COPY



45. The licensed prescriber orders phenobarbital sodium 70 mg IV q 8 h for your patient with epilepsy. The drug is supplied in a 1-mL ampule containing 130 mg. How many milliliters will you administer? _____

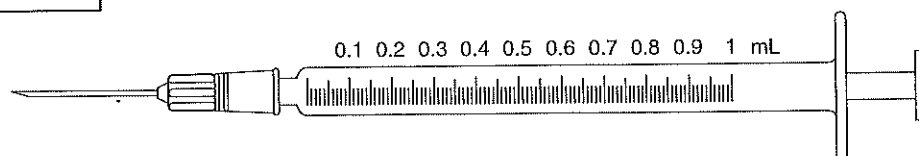
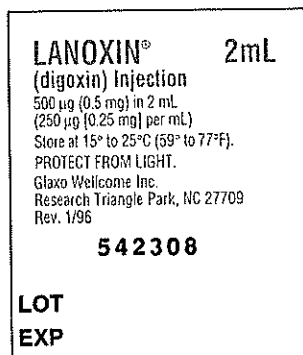


46. The licensed prescriber orders Vibramycin 200 mg IV daily. You have Vibramycin 10 mg/mL after reconstitution. How many milliliters will you prepare? _____

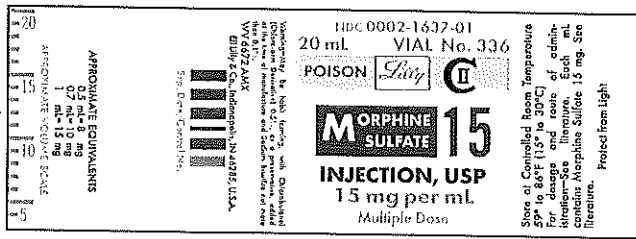
47. The licensed prescriber orders Dilaudid 2 mg IV q 4 h prn for pain. How many milliliters will the nurse administer? _____



48. Your patient with atrial fibrillation has digoxin 0.2 mg IM daily ordered. How many milliliters will you administer? _____



49. The licensed prescriber orders morphine 10 mg subcutaneous q 3 h. How many milliliters will the nurse administer? _____



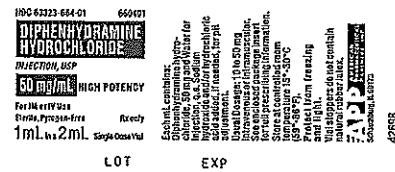
NDC 0002-1637-01
20 mL VIAL No. 336
POISON *Lilly* **II**
MORPHINE 15
INJECTION, USP
15 mg per mL
Multiple Dose

Store at Controlled Room Temperature 20° to 25°C (68° to 77°F). Excursions permitted to 15° to 30°C (59° to 86°F) (15° to 30°C) for design and rate of administration—see literature. Each mL contains Morphine Sulfate 15 mg. See literature. Protect from light.

APPROXIMATE EQUIVALENTS
1 mL = 15 mg
0.2 mL = 3 mg
0.7 mL = 10.5 mg

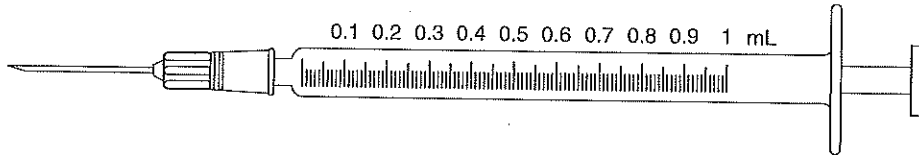
Manufactured by Lilly, Inc., Indianapolis, IN 46205, U.S.A.
WV 4472 AXK
Exp. Date/Control No.

50. Mr. Lee is receiving Benadryl 25 mg IV q 6 h for severe itching. How many milliliters will the nurse administer? _____

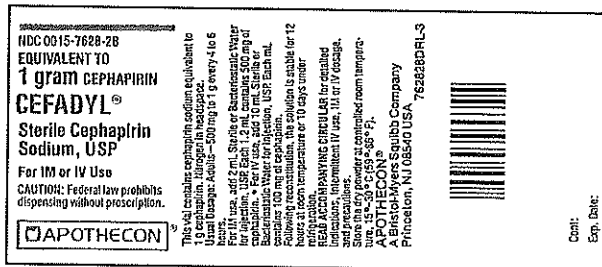


NDC 63223-654-01 650121
DIPHENHYDRAMINE HYDROCHLORIDE
INJECTION, USP
50 mg/mL HIGH POTENCY
For IM or IV Use
Sterile, Pyrogen-free Ready to Use
1 mL in 2 mL Single Dose Vial

Exp. Date/Control No.



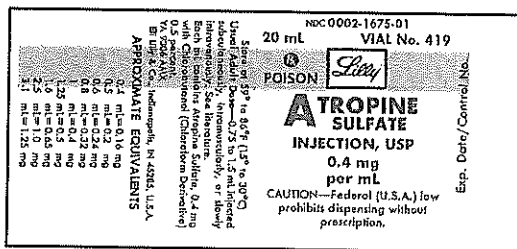
51. The licensed prescriber orders Cefadyl 600 mg IM q 6 h. How many milliliters will the nurse administer? _____



NDC 0015-7628-28
EQUIVALENT TO
1 gram CEPHAIRIN Sodium, USP
CEFADYL®
Sterile Cephalrin Sodium, USP
For IM or IV Use
CAUTION: Federal law prohibits dispensing without prescription.

APOTHECON
Princeton, NJ 08540 U.S.A. 762828DRLS

52. Your preoperative patient needs atropine 0.9 mg IM at 0615. How many milliliters will you administer? _____

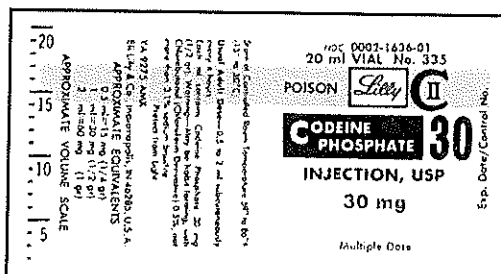


NDC 0002-1675-01
20 mL VIAL No. 419
POISON *Lilly*
ATROPINE SULFATE
INJECTION, USP
0.4 mg per mL
CAUTION—Federal (U.S.A.) law prohibits dispensing without prescription.

Exp. Date/Control No.

APPROXIMATE EQUIVALENTS
1 mL = 0.4 mg
0.2 mL = 0.08 mg
0.3 mL = 0.12 mg
0.4 mL = 0.16 mg
0.5 mL = 0.2 mg
0.6 mL = 0.24 mg
0.7 mL = 0.28 mg
0.8 mL = 0.32 mg
0.9 mL = 0.36 mg
1.0 mL = 0.4 mg
1.1 mL = 0.44 mg
1.2 mL = 0.48 mg
1.3 mL = 0.52 mg
1.4 mL = 0.56 mg
1.5 mL = 0.6 mg

53. The licensed prescriber orders codeine 30 mg subcutaneous q 4 h for your patient after a lumbar laminectomy for pain relief. How many milliliters will you administer? _____



NDC 0002-1636-01
20 mL VIAL No. 335
POISON *Lilly* **II**
CODEINE PHOSPHATE 30
INJECTION, USP
30 mg
Multiple Dose

Exp. Date/Control No.

APPROXIMATE EQUIVALENTS
1 mL = 30 mg
0.2 mL = 6 mg
0.3 mL = 9 mg
0.4 mL = 12 mg
0.5 mL = 15 mg
0.6 mL = 18 mg
0.7 mL = 21 mg
0.8 mL = 24 mg
0.9 mL = 27 mg
1.0 mL = 30 mg