

WORK SHEET

Directions: The medication order is listed at the beginning of each problem. Calculate the child's weight in kilograms, determine the safe recommended dosage or range, determine the safety of the order, and calculate the drug dosage. Show your work.

- Ordered Keflex 250 mg PO qid for a child weighing 50 lb. You have Keflex 250-mg capsules. The recommended daily PO dosage for a child is 25 to 50 mg/kg/day in divided doses q6 h.
 - Child's weight is _____ kg.
 - What is the safe recommended dosage or range for this child? _____.
 - Is the order safe? _____.
 - If yes, how many capsules will you administer? _____.

NDC 0777-0869-02
100 PULVULES® No. 402

KEFLEX®
CEPHALEXIN
CAPSULES, USP
250 mg

CAUTION—Federal (U.S.A.) law prohibits dispensing without prescription. Keep tightly closed. Store at Controlled Room Temperature 59° to 86°F (15° to 30°C). WV 5473 07X. Manufactured by DISTA PRODUCTS CO., a Division of Eli Lilly Industries, Inc., Carolina, Puerto Rico 00680, a Subsidiary of Eli Lilly and Company, Indianapolis, IN 46160. Expiration Date/Control No.

Usual Adult Dose—One PULVULE every 6 hours. For more severe infections, dose may be increased, not to exceed 4 g a day. See literature. Each PULVULE contains Cephalixin Monohydrate equivalent to 250 mg Cephalixin. Dispense in a tight container.

- Ordered Lanoxin 12.5 mg PO qd for an infant weighing 6 lb 8 oz. You have Lanoxin 0.05 mg/mL. The recommended daily dosage for an infant is 0.035 to 0.06 mg/kg/day in divided doses q8 h.
 - Child's weight is _____ kg.
 - What is the safe recommended dosage or range for this child? _____.
 - Is the order safe? _____.
 - If yes, how many milliliters will you administer? _____.

60 mL NDC 0173-0264-27

LANOXIN®
(DIGOXIN)
ELIXIR
PEDIATRIC

Each mL contains
50 µg (0.05 mg)
PLEASANTLY FLAVORED

Alcohol 10%, Methylparaben 0.1% (added as a preservative)
For indications, dosage, precautions, etc., see accompanying package insert.
Store at 15° to 25°C (59° to 77°F) and protect from light.
CAUTION: Federal law prohibits dispensing without prescription.

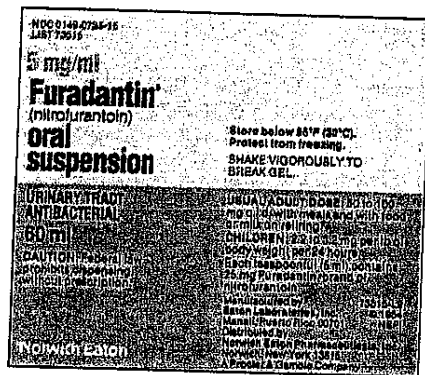
GlaxoWellcome
Glaxo Wellcome Inc.
Research Triangle Park, NC 27709
Made in U.S.A. Rev. 2/96 642404

3. Ordered Benadryl 25 mg IV q6 h for a child weighing 50 lb. You have Benadryl 10 mg/mL. The recommended daily dosage for a child weighing more than 12 kg is 5 mg/kg/day in four divided doses. a. Child's weight is _____ kg. b. What is the safe recommended dosage or range for this child? _____. c. Is the order safe? _____. d. If yes, how many milliliters will you prepare? _____.

4. Ordered Thorazine 10 mg IV q6 h for a child weighing 44 lb. You have Thorazine 25 mg/mL. The recommended daily dosage is 0.55 mg/kg/day q6 to 8 h. a. Child's weight is _____ kg. b. What is the safe recommended dosage or range for this child? _____. c. Is the order safe? _____. d. If yes, how many milliliters will you prepare? _____.

5. Ordered thioguanine 60 mg PO today for a child weighing 78 lb. You have thioguanine 40-mg tablets. The recommended PO dosage is 2 mg/kg/day. a. Child's weight is _____ kg. b. What is the safe recommended dosage or range for this child? _____. c. Is the order safe? _____. d. If yes, how many tablets will you administer? _____.

6. Ordered initial dose of Furadantin 10 mg PO qd for a child weighing 30.31 lb. You have Furadantin 5 mg/mL. The recommended PO dosage is 2 mg/kg/day. a. Child's weight is _____ kg. b. What is the safe recommended dosage or range for this child? _____. c. Is the order safe? _____. d. If yes, how many milliliters will you administer? _____.



7. Ordered theophylline 16 mg PO q6 h for a child weighing 28 lb. You have theophylline elixir 11.25 mg/mL. The recommended PO dosage should not exceed 12 mg/kg/24 h.
 a. Child's weight is _____ kg. b. What is the safe recommended dosage or range for this child? _____. c. Is the order safe? _____. d. If yes, how many milliliters will you administer? _____.
8. Ordered Dilantin 75 mg PO q12 h for a child weighing 66 lb. You have Dilantin chewable 50-mg tablets. The recommended PO dosage for a child is 5 to 7 mg/kg/day in divided doses q12 h. a. Child's weight is _____ kg. b. What is the safe recommended dosage or range for this child? _____. c. Is the order safe? _____. d. If yes, how many tablets will you administer? _____.
9. Ordered Kantrex 250 mg IV q12 h for a child weighing 78 lb. You have Kantrex 75 mg/2 mL. The recommended daily IV dosage for a child is 15 mg/kg/day in divided doses q8 to 12 h. a. Child's weight is _____ kg. b. What is the safe recommended dosage or range for this child? _____. c. Is the order safe? _____. d. If yes, how many milliliters will you prepare? _____.

NDC 0016-3512-20
 8505-00-926-9202

Kantrex®
 KANAMYCIN SULFATE
 PEDIATRIC INJECTION
 FOR I.M. OR I.V. USE

EQUIVALENT TO

75 mg KANAMYCIN
 per 2 mL

BRISTOL LABORATORIES
 Div of Bristol-Myers Company
 Syracuse, NY 13221-4755

0.099% sodium bisulfite added as an antioxidant, buffered with 0.33% sodium citrate. • Adjusted to pH 4.5 with H₂SO₄. • Kantrex Pediatric Injection should not be physically mixed with other antibacterial agents.

READ ACCOMPANYING CIRCULAR

CAUTION: Federal law prohibits dispensing without prescription.

©Bristol Laboratories
 3512200RL-13

MAXIMUM DOSE: 16 MG/KG/DAY

Lot _____ Exp. Date _____

10. Ordered Amoxil 375 mg PO q8 h for a child weighing 42 lb. You have Amoxil 125 mg/5 mL. The recommended daily PO dosage for a child is 20 to 50 mg/kg/day in divided doses q8 h. a. Child's weight is _____ kg. b. What is the safe recommended dosage or range for this child? _____. c. Is the order safe? _____. d. If yes, how many milliliters will you administer? _____.

11. Ordered Compazine 2.5 mg PO tid for a child weighing 63 lb. You have Compazine 5 mg/5 mL. The recommended PO dosage for a child is 2.5 mg tid or 5 mg bid. a. Child's weight is _____ kg. b. What is the safe recommended dosage or range for this child? _____. c. Is the order safe? _____. d. If yes, how many milliliters will you administer? _____.

Store between 15° and 30° C (59° and 86°F). Dispense in a tight, light-resistant glass bottle. Each 5 mL (1 teaspoon) contains prochlorperazine, 5 mg, as the edisylate.

Usual Dosage: Children: 5 to 15 mg daily; Adults: 10 to 30 mg daily. See accompanying prescribing information.

Important: Use child-resistant closures when dispensing this product unless otherwise directed by physician or requested by purchaser.

Caution: Federal law prohibits dispensing without prescription.

SmithKline Beecham Pharmaceuticals
Philadelphia, PA 19101 692778-W

5mg/5mL
NDC 0007-3363-44

COMPAZINE®
PROCHLORPERAZINE
as the edisylate SYRUP

4 fl oz (118 mL)

SB SmithKline Beecham

LOT
EXP

12. Ordered Tegretol 150 mg PO tid for a child weighing 58 lb. You have Tegretol 100 mg/5 mL. The recommended daily PO dosage for a child is 10 to 20 mg/kg/day in divided doses bid or tid. a. Child's weight is _____ kg. b. What is the safe recommended dosage or range for this child? _____. c. Is the order safe? _____. d. If yes, how many milliliters will you administer? _____.

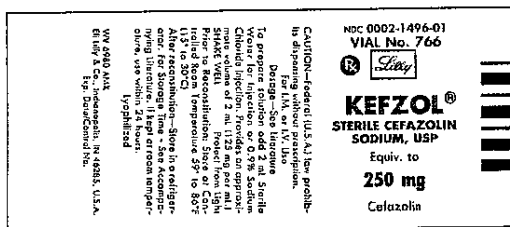
NDC 68887-019-76 FSC 1841
6305-01-902-4467

Tegretol®
carbamazepine USP
Suspension
100 mg/5 ml

EXP
LOT

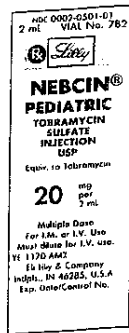
BASEL
Pharmaceuticals

13. Ordered Dilaudid 1.5 mg PO q6 h for a child weighing 36 lb. You have Dilaudid oral solution 5 mg/mL. The recommended daily PO dosage for a child is 0.03 to 0.08 mg/kg in divided doses q4 to 6 h (maximum of 5 mg/dose). a. Child's weight is _____ kg. b. What is the safe recommended dosage or range for this child? _____. c. Is the order safe? _____. d. If yes, how many milliliters will you administer? _____.
14. Ordered Naprosyn 150 mg PO bid for a child weighing 66 lb. You have Naprosyn 125 mg/5 mL. The recommended daily PO dosage for a child is 10 mg/kg/day in two divided doses. a. Child's weight is _____ kg. b. What is the safe recommended dosage or range for this child? _____. c. Is the order safe? _____. d. If yes, how many milliliters will you administer? _____.
15. Ordered Kefzol 350 mg IV q8 h for a child weighing 81 lb. You have Kefzol 125 mg/mL. The recommended daily IV dosage for a child is 25 to 50 mg/kg/day in divided doses q6 to 8 h. a. Child's weight is _____ kg. b. What is the safe recommended dosage or range for this child? _____. c. Is the order safe? _____. d. If yes, how many milliliters will you prepare? _____.



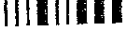
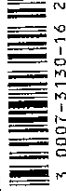
16. Ordered Diuril 100 mg PO bid for a child weighing 16 lb 8 oz. You have Diuril 250 mg/5 mL. The recommended daily PO dosage for a child is 10 to 20 mg/kg/day in divided doses bid. a. Child's weight is _____ kg. b. What is the safe recommended dosage or range for this child? _____. c. Is the order safe? _____. d. If yes, how many milliliters will you administer? _____.

17. Ordered Nebcin 16 mg IV q6 h for a child weighing 13 lb. You have Nebcin 20 mg/2 mL. The recommended daily IV dosage for a child is 6 to 7.5 mg/kg/day in divided doses q6 to 8 h. a. Child's weight is _____ kg. b. What is the safe recommended dosage or range for this child? _____. c. Is the order safe? _____. d. If yes, how many milliliters will you prepare? _____.



18. Ordered prednisone 8 mg PO q12 h for a child weighing 19 lb. You have prednisone syrup 5 mg/5 mL. The recommended daily PO dosage for a child is 0.05 to 2 mg/kg/day in divided doses q6 to 12 h. a. Child's weight is _____ kg. b. What is the safe recommended dosage or range for this child? _____. c. Is the order safe? _____. d. If yes, how many milliliters will you administer? _____.
19. Ordered erythromycin 75 mg PO q6 h for a child weighing 22 lb. You have erythromycin 125 mg/5 mL. The recommended daily PO dosage for a child is 30 to 50 mg/kg/day in divided doses q6 h. a. Child's weight is _____ kg. b. What is the safe recommended dosage or range for this child? _____. c. Is the order safe? _____. d. If yes, how many milliliters will you administer? _____.

20. Ordered Ancef 400 mg IV q8 h for a child weighing 32 lb. You have Ancef 330 mg/mL. The recommended daily IV dosage for a child is 100 mg/kg/day in divided doses q6 to 8 h.
- a. Child's weight is _____ kg. b. What is the safe recommended dosage or range for this child? _____ . c. Is the order safe? _____ . d. If yes, how many milliliters will you prepare? _____ .

E.P.	equivalent to 1 gram cefazolin	NSN 6505-01-262-9508 Before reconstitution protect from light and store between 15° and 30°C (59° and 86°F). Usual Adult Dosage: 250 mg to 1 gram every 6 to 8 hours See accompanying prescribing information. For I.M. administration add 2.5 mL of Sterile Water for Injection. SHAKE WELL. Withdraw entire contents. Provides an approximate volume of 3.0 mL (330 mg/mL). For I.V. administration see accompanying prescribing information. Reconstituted Ancef is stable for 24 hours at room temperature or for 10 days if refrigerated (5°C or 41°F). SmithKline Beecham Pharmaceuticals Philadelphia, PA 19101	  3 0007-3130-16 2
	ANCEF® CEFAZOLIN FOR INJECTION (LYOPHILIZED) Formerly sterile cefazolin sodium (lyophilized)		

21. Infuse 250 mL of D₅W over 3 hours to an 11-year-old child. How many mL/h should the IV pump be programmed for? _____ .

22. A 25-kg child has an order for gentamicin 40 mg IVPB bid over 20 minutes. The concentration of the vial states 10 mg/mL. The recommended infusion concentration is 2 mg/mL. Step 1: How many milliliters of medication will provide 40 mg of gentamicin? _____. Step 2: How many milliliters of IV solution needs to be added to the medication to equal the recommended final concentration? _____. Step 3: How many gtt/min of gentamicin should be infused? _____ .

Answers on pp. 511-514.