

## ANTIINFECTIVE MATH CALCULATIONS for PEDIATRICS

Using the Pediatric Dosage Handbook or the Antimicrobial Order Form as indicated by each question, look up the following medications and answer these questions. Show ALL calculations. Put answers in blanks. There are numerical answers for each blank. Answer even if (c) is 'NO'.

- a. What is the appropriate dosage range for this child, based on his weight? \_\_\_\_ - \_\_\_\_mg/day  
Write lowest possible to highest possible dosage.
- b. How much has been ordered per day for this child? \_\_\_\_\_ mg/day
- c. Has an appropriate dose been ordered for this child? Yes or No (circle)
- d. How much medication will you give? \_\_\_\_\_ ml

1. Clindamycin 600 mg IV q 8h (600 mg/4 ml vial) wt 64.5 kg 15 y

- a. \_\_\_\_\_ - \_\_\_\_\_ mg/day
- b. \_\_\_\_\_ mg/day
- c. Yes or No
- d. \_\_\_\_\_ ml

2. Clindamycin 40 mg IV q 8h (600 mg/4 ml vial) wt 36.9 kg 7y

- a. \_\_\_\_\_ - \_\_\_\_\_ mg/day
- b. \_\_\_\_\_ mg/day
- c. Yes or No
- d. \_\_\_\_\_ ml

3. Nafcillin 780 mg IV q 6h (1 gm/3 ml vial) wt 38 kg 6y

- a. \_\_\_\_\_ - \_\_\_\_\_ mg/day
- b. \_\_\_\_\_ mg/day
- b. Yes or No
- d. \_\_\_\_\_ ml

4. Ceftriaxone 1700 mg IV q 24h (2 gm/4 ml vial, Rocephin) wt 66kg 17y
- \_\_\_\_\_ - \_\_\_\_\_ mg/day
  - \_\_\_\_\_ mg/day
  - Yes or No
  - \_\_\_\_\_ ml
5. Meropenem 780 mg IV q 8h (500 mg/2 ml vial, Merrem) wt 25 kg 6y
- \_\_\_\_\_ - \_\_\_\_\_ mg/day
  - \_\_\_\_\_ mg/day
  - Yes or No
  - \_\_\_\_\_ ml
6. Acyclovir 430 mg IV q 8h (500 mg/3 ml vial, Zovirax) wt 44 kg 13 y
- \_\_\_\_\_ - \_\_\_\_\_ mg/day
  - \_\_\_\_\_ mg/day
  - Yes or No
  - \_\_\_\_\_ ml
7. Ampicillin 1 gm IV q 6h (1 gm/2 ml vial, Polycillin) wt 39 kg 10y
- \_\_\_\_\_ - \_\_\_\_\_ mg/day
  - \_\_\_\_\_ mg/day
  - Yes or No
  - \_\_\_\_\_ ml
8. Cefuroxime 20 mg IV q 8h (750 mg/4 ml vial, Zinacef) wt 3.84 kg 2.5 m
- \_\_\_\_\_ - \_\_\_\_\_ mg/day
  - \_\_\_\_\_ mg/day
  - Yes or No
  - \_\_\_\_\_ ml

9. Cefuroxime 1.5 gm IV q 8h (1.5 gm/2 ml vial, Kefurox) wt 42 kg 11y

a. \_\_\_\_\_ - \_\_\_\_\_ mg/day

b. \_\_\_\_\_ mg/day

b. Yes or No

d. \_\_\_\_\_ ml

10. Ampicillin 1 gm IV q 8h (1 gm/1.5 ml vial, Polycillin) wt 49 kg 12 y

a. \_\_\_\_\_ - \_\_\_\_\_ mg/day

b. \_\_\_\_\_ mg/day

b. Yes or No

d. \_\_\_\_\_ ml

11. Cefazolin 75 mg IV q 8h (1 gm/2 ml vial, Ancef) wt 23.63 kg 6y

a. \_\_\_\_\_ - \_\_\_\_\_ mg/day

b. \_\_\_\_\_ mg/day

b. Yes or No

d. \_\_\_\_\_ ml

12. Gentamicin 125 mg IV q 8h (80 mg/2 ml, Garamycin) wt 50.4 kg 10y

a. \_\_\_\_\_ - \_\_\_\_\_ mg/day

b. \_\_\_\_\_ mg/day

b. Yes or No

d. \_\_\_\_\_ ml