#1

Order: 10 mg/Kg of Fortaz.
The child weighs 80 Kg.

$$80\ \text{Kg} \times \frac{10\ \text{mg}}{1\ \text{Kg}} = 800\ \text{mg}$$

#2

Order: 20 mg/kg Cefaclor

The child weighs 18 Kilograms.

How many milliliters should you prepare?

Label reads 125 mg per 5 mL.

$$18 \text{ Kg} \times \frac{20 \text{ mg}}{1 \text{ Kg}} = 360 \text{ mg}$$

$$360 \text{ mg} \times \frac{5 \text{ mL}}{125 \text{ mg}} = 14.4 \text{ mL}$$

#3

Order: morphine sulfate .3mg IM stat

The recommended dose is 0.01 mg/kg. Is this a safe dose for a child who weighs 31 kg?

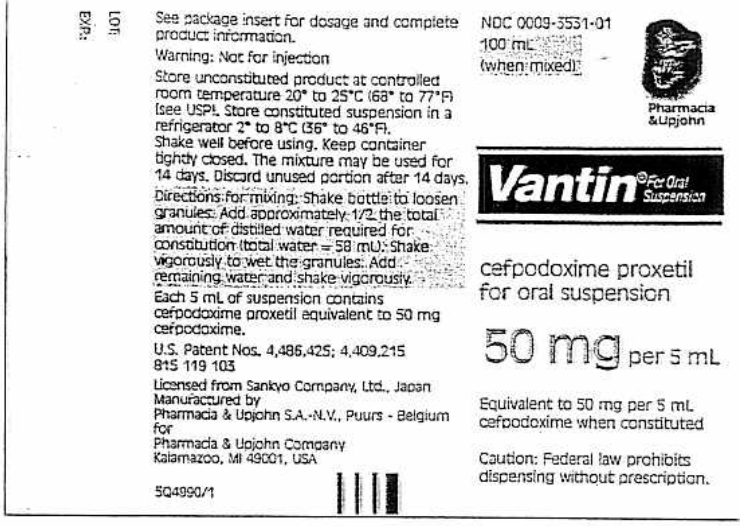
recommended:

$$31 \cancel{kg} \times \frac{.01 \text{ mg}}{1 \cancel{kg}} = .31 \text{ mg}$$

Safe!

#4

order: 4 mg/Kg
Child weighs 60 Kg.
How many mL?



See package insert for dosage and complete product information.
Warning: Not for injection
Store unconstituted product at controlled room temperature 20° to 25°C (68° to 77°F) [see USP]. Store constituted suspension in a refrigerator 2° to 8°C (36° to 46°F). Shake well before using. Keep container tightly closed. The mixture may be used for 14 days. Discard unused portion after 14 days.
Directions for mixing: Shake bottle to loosen granules. Add approximately 1/2 the total amount of distilled water required for constitution (total water = 58 mL). Shake vigorously to wet the granules. Add remaining water and shake vigorously.
Each 5 mL of suspension contains cefpodoxime proxetil equivalent to 50 mg cefpodoxime.
U.S. Patent Nos. 4,486,425; 4,409,215
815 119 103
Licensed from Sankyo Company, Ltd., Japan
Manufactured by
Pharmacia & Upjohn S.A.-N.V., Puurs - Belgium
for
Pharmacia & Upjohn Company
Kalamazoo, MI 49001, USA
5Q4990/1

NDC 0009-3531-01
100 mL
(when mixed)

Pharmacia
&Upjohn

Vantin® For Oral Suspension

cefpodoxime proxetil
for oral suspension

50 mg per 5 mL

Equivalent to 50 mg per 5 mL cefpodoxime when constituted

Caution: Federal law prohibits dispensing without prescription.

$$60\ \cancel{Kg} \times \frac{4\ mg}{1\ \cancel{Kg}} = 240\ mg$$

$$240\ \cancel{mg} \times \frac{5\ mL}{50\ \cancel{mg}} = 24\ mL$$

#5

Order: 2.5 mg/m^2

The child has a BSA of .9 square meters. How many milligrams do you prepare?

$$.9\ \cancel{m^2} \times \frac{2.5\ mg}{1\ \cancel{m^2}} = 2.25\ mg$$

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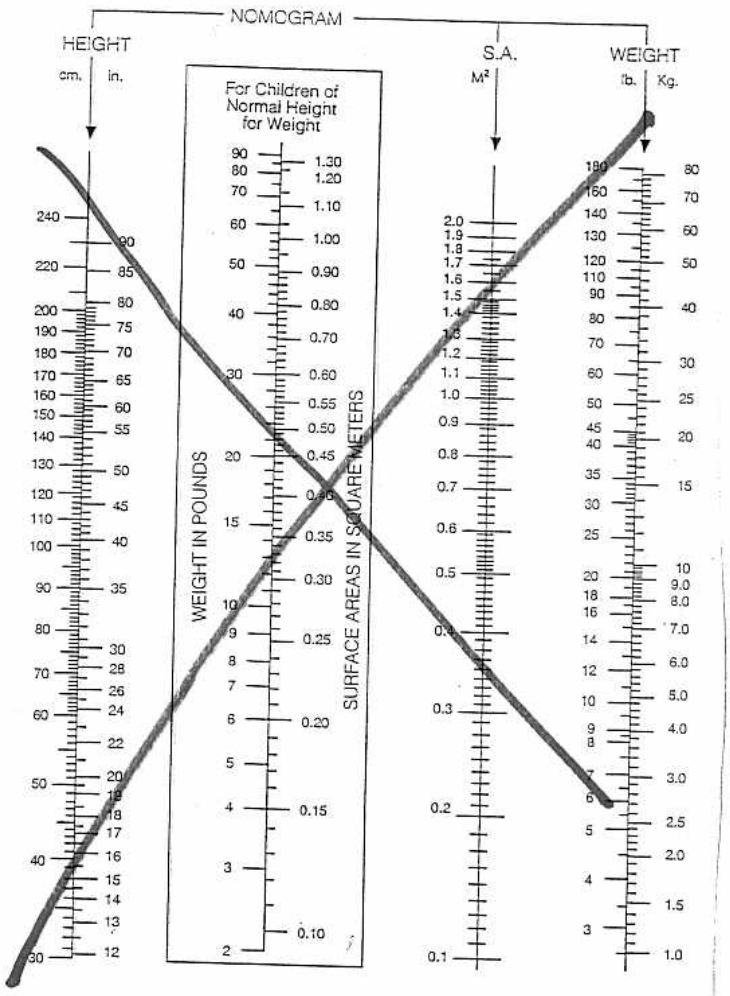
NOMOGRAM
HEIGHT
cm.
in.
For Children of Normal Height for Weight
WEIGHT IN POUNDS
SURFACE AREAS IN SQUARE METERS
S.A.
M²
WEIGHT
lb.
Kg.

#7

Order: 10 mg/m² Methylphenidate. Child is 45 inches and weighs 70 lbs. The label tells you each tablets have 5 mg. How many tablets do you give the patient?

BSA ≈ 1.04 m²

$$1.04 \cancel{m^2} \times \frac{10 \text{ mg}}{1 \cancel{m^2}} = 10.4 \text{ mg}$$

$$10.4 \text{ mg} \times \frac{1 \text{ tablet}}{5 \text{ mg}} = 2.08 \rightarrow 2 \text{ tablets}$$

#8

order: .2 mL/kg/min

the child weighs 38 kg

the drop factor is 15 drops per mL

Calculate the flow rate?

↑ $\frac{\text{drops}}{\text{min}}$

$$38\ \text{kg} \times \frac{.2\ \text{mL}}{1\ \text{kg} \times \text{min}} = \frac{7.6\ \text{mL}}{1\ \text{min}}$$

$$\frac{7.6\ \text{mL}}{1\ \text{min}} \times \frac{15\ \text{drops}}{1\ \text{mL}} = 114\ \frac{\text{drops}}{\text{min}}$$