

Med Math Made Easy

Standard Conversion Factors

1 mg = 1,000 mcg

1g = 1000 mg

1kg = 1000g

1oz = 30ml

1L = 1000 ml

1kg = 2.2 lb

1 tsp = 5ml

1 tbsp = 3 tsp (15ml)

1kg = 2.2 lb

1 cup = 8 fl oz = 240 ml

Converting lbs to kg

Clients weight = 44lb

Conversion rate is 2.2lb = 1kg

$\frac{\text{clients weight in lbs}}{\text{divided by 2.2}} = \text{kg}$

$$\frac{44 \text{ lbs}}{2.2} = 20 \text{ kg}$$

Clients weight divided by 2.2 =

Converting kg to lbs.

Clients weight = 20kg

Conversion rate is 2.2lb = 1kg

clients weight in kg x 2.2

$$20 \text{ kg} \times 2.2 = 44\text{lbs}$$

Clients weight times 2.2 = 44lb

Rounding

Round up if the number to the right is 5 or higher

$$4.5 = 5$$

$$0.737 = 0.74$$

Round down if the number to the right is 4 or less

$$4.4 = 4$$

$$0.732 = 0.73$$

* Always look at what the problem is asking you to round to!

Ex: round to the nearest whole number

$$2.369 = 2$$

Round to the nearest 10th

$$7.369 = 7.4$$

Round to the nearest 100th

$$7.369 = 7.37$$

Solid doses (Tablets)

1. Find the desired dose
2. What dose the medication come in
3. Convert if needed (mcg to mg to g)
4. Use equation and solve for x

Available: 100mg tablets

Needed: 0.2 g PO q 8 hr

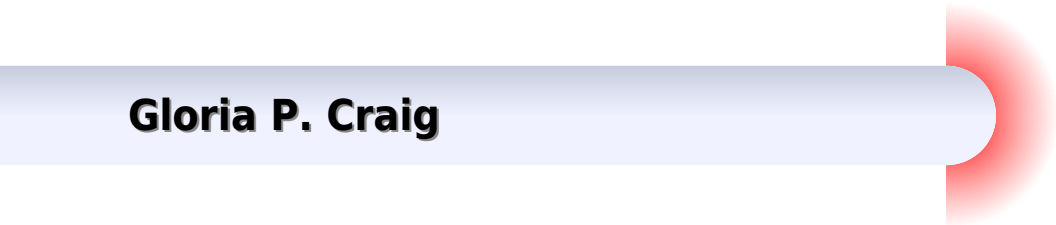
Question: how many tablets does the nurse give per dose.

Grams to mg 0.2g x 1000 = 200mg (need dose)

$$\frac{\text{have}}{\text{quantity}} = \frac{\text{desired}}{\text{X}} \quad \frac{100\text{mg}}{1 \text{ tablet}} = \frac{200\text{mg}}{\text{X}} \quad \text{X} = 2 \text{ Tabs}$$

Pharmacology Math Made Easy

Gloria P. Craig



Pharmacology Math Made Easy:

Dosage Calculations Made Easy Gloria Pearl Craig, 2024-01-19 Straightforward approachable and rich with practice opportunities *Dosage Calculations Made Easy Solving Problems Using Dimensional Analysis* 8th Edition trains students to confidently calculate accurate medication dosages and fosters the critical thinking capabilities essential to their clinical success From basic math functions and measurement systems to complex problem solving methods this up to date simple to use skill building guide provides a proven framework for understanding and makes it easier than ever to master effective dosage calculation and drug administration processes

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