

DOSAGE CALCULATION

Conversions:

- 1 kg = 2.2 lbs
- 1 L = 1,000 mL
- 1 mg = 1,000 mcg
- 1 tsp = 5 mL
- 1 g = 1,000 mg
- 1 tsp = 15 mL
- 1 oz = 30 mL
- 1 tsp = 3 tsp

Rounding:

- Less than .5 = round to nearest whole
- Greater than .5 = round to nearest tenths



Dimensional Analysis:

- **Given:** 50mg concentration q 6 hrs PRN
- **Assess:** 50mg orders

1. Determine the unit that you are calculating.
• Tablets
2. Determine the quantity available.
• 1 tablet
3. Determine the dose available.
• 500 mg
4. Determine the desired dose.
• 500 mg
5. Do you need to convert units?
• No
6. Set up the problem and solve.



$$\frac{\text{Quantity}}{\text{Assess dose}} \times \frac{\text{Desired dose}}{1} = \frac{1 \text{ Tablet}}{500 \text{ mg}} \times \frac{500 \text{ mg}}{1} = 1 \text{ tablet}$$

Solid Dosages:

- **Given:** Percocet 50mg PO q 4 hours a day
- **Assess:** 100mg orders
- **Goal:** how many orders per dose?

$$\frac{1 \text{ Tablet}}{100 \text{ mg}} \times \frac{50 \text{ mg}}{1} = 0.5 \text{ Tablets}$$

Liquid Dosages:

- **Given:** 50mg Percocet PO qday
- **Assess:** Percocet 100mg per 5mL
- **Goal:** how many mL should be administered?

$$\frac{1 \text{ mL}}{100 \text{ mg}} \times \frac{50 \text{ mg}}{1} = 0.5 \text{ mL}$$



Injectable Dosages:

- **Given:** Demerol 50mg IM Four times day
- **Assess:** Demerol 100mg per mL
- **Goal:** how many mL will be administered?

$$\frac{1 \text{ mL}}{100 \text{ mg}} \times \frac{50 \text{ mg}}{1} = 0.5 \text{ mL}$$



Weight-Based Dosages:

- **Given:** Amoxicillin 10mg weight based and 2 days
- **Assess:** Amoxicillin suspension 100mg 5mL
- **Goal:** how many mL given per dose for a 22lb child?

1. Convert lb to kg $22 \text{ lb} / 2.2 = 10 \text{ kg}$
2. Calculate dose in mg $\frac{10 \text{ kg}}{1 \text{ kg}} \times \frac{10 \text{ mg}}{1} = 100 \text{ mg}$
3. Check dose by frequency $100 \text{ mg} / 2 = 50 \text{ mg per dose}$
4. Convert mg to mL

$$\frac{1 \text{ mL}}{100 \text{ mg}} \times \frac{50 \text{ mg}}{1} = 0.5 \text{ mL per dose}$$

IV Flow Rate with Electronic Pump:

- **Given:** 500 mL of D5W in 8 hours

$$\frac{\text{Volume}}{\text{Time}} = 8 \text{ mL/hr} \quad \frac{500 \text{ mL}}{8 \text{ hours}} = 62.5 \text{ mL/hr}$$

Manual IV Infusions:

- **Given:** 500mL to be infused over 8 hours
- **Goal:** how many grams of the drug factor is 5 grams/mL?

$$\frac{\text{Volume}}{\text{Total Drug Factor}} \times \text{Drug} = \frac{500 \text{ mL}}{100 \text{ mg}} \times \frac{5 \text{ grams}}{1 \text{ mL}} = 25 \text{ grams}$$

Nursing Calculations

F Rizvi



Nursing Calculations:

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