

Neonatal Medication Calculations

Neonatal medication calculations are a critical skill for healthcare providers. The following examples illustrate how to calculate dosages for neonates based on weight and concentration.

Example 1: Calculating Dosage

Order: 0.1 mg/kg of medication

Weight: 3.5 kg

Concentration: 10 mg/mL

Calculation:

$$\text{Dosage (mL)} = \frac{\text{Weight (kg)} \times \text{Order (mg/kg)}}{\text{Concentration (mg/mL)}}$$
$$\text{Dosage (mL)} = \frac{3.5 \text{ kg} \times 0.1 \text{ mg/kg}}{10 \text{ mg/mL}}$$
$$\text{Dosage (mL)} = \frac{0.35 \text{ mg}}{10 \text{ mg/mL}}$$
$$\text{Dosage (mL)} = 0.035 \text{ mL}$$

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