

Formulae

$$\text{Tablet dose (tablets)} = \frac{\text{dose prescribed (mg)}}{\text{dose in stock (mg/tablet)}}$$

$$\text{Suspension dose (ml)} = \frac{\text{dose prescribed (mg)}}{\text{dose in stock (mg)}} \times \text{stock volume (ml)}$$

Tablet example

A patient is prescribed a dose of 50mg of a drug that comes in 10mg tablets. How many tablets should the patient be given for a single dose?

Tablet example answer

$$\text{Tablet dose (tablets)} = \frac{\text{dose prescribed (mg)}}{\text{dose in stock (mg/tablet)}} = \frac{50 \text{ mg}}{10 \text{ mg/tablet}} = 5 \text{ tablets}$$

Suspension example

A patient is prescribed 85mg of a drug to be given intravenously. The vials of the drug contain 40mg/ml. How many ml should be given to the patient?

Suspension example answer

$$\text{Suspension dose (ml)} = \frac{\text{dose prescribed (mg)}}{\text{dose in stock (mg)}} \times \text{stock volume (ml)} = \frac{85 \text{ mg}}{40 \text{ mg}} \times 1 \text{ ml} = 2.125 \text{ ml.}$$

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