Infusion Calculations

Study Development Quick Guide

## Formulae

Volume of fluid given per hour (ml/hour) = $\frac{Volume of fluid (ml)}{Time (hours)}$

Volume of fluid given per minute (ml/minute) = $\frac{Volume of fluid (ml)}{Time (hours) × 60 (minutes/hour)}$

## Example

A patient must be given 200ml of fluid over 5 hours. What volume of fluid will they receive from an infusion each hour? What volume of fluid will they receive from an infusion each minute?

## Answer

Volume of fluid given per hour (ml/hour) = $\frac{Volume of fluid (ml)}{Time (hours)}$ = $\frac{200 ml}{5 hours}$ = 40 ml/hour

Volume of fluid given per minute (ml/minute) = $\frac{Volume of fluid (ml)}{Time (hours) × 60 (minutes/hour)}$ = $\frac{200 ml}{5 hours × 60 minutes/hour}$ = 0.67 ml/minute.

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