Est. 1841 YORK ST JOHN UNIVERSITY

Student Life
Library and Learning Services

Infusion Calculations

Study Development Quick Guide

Formulae

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

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

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

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

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

$$\frac{200 \text{ ml}}{5 \text{ hours} \times 60 \text{ minutes/hour}} = 0.67 \text{ ml/minute.}$$

Support: Study Development offers workshops, short courses, 1 to 1 and small group tutorials.

- Join a tutorial or workshop on the Study Development tutorial and workshop webpage or search 'YSJ study development tutorials.'
- Access our Study Success resources on the Study Success webpage or search 'YSJ study success.'

Library and Learning Services
Study Development
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