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Infusion pump rate

Core Nursing Essentials Nursing Calculations

Pump rate in mL per hour equals volume in mL divided by time in hours. Confirm the pump library, tubing and prescribed limits independently.

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Introduction & key concepts

Pump rate in mL per hour equals volume in mL divided by time in hours. Confirm the pump library, tubing and prescribed limits independently.

Nursing responsibilities

- Check identity, consent, the relevant observations and the purpose of the assessment.
- Record the finding, context and response using the approved clinical record.
- Escalate uncertainty or deterioration to the responsible professional; do not use a study note as a standing treatment order.

Clinical example & examination focus

In a viva, explain infusion pump rate in your own words, identify the observations needed and state a limitation. Compare the finding with the patient's baseline rather than assuming one number or label gives a diagnosis.

Quick Revision

Pump rate in mL per hour equals volume in mL divided by time in hours. Confirm the pump library, tubing and prescribed limits independently.

Frequently asked question

Can this summary replace practical training?

No. Use your prescribed learning material and the institution's current protocol with qualified supervision.

References & review status

- Nurses Content - original dimensional arithmetic (https://nurses-content-anatomy-sam.tamenewt4.chatgpt.site/essentials/calculators/) - Arithmetic test suite, 26 November 2026. Formula derivations and unit identities only; no clinical dose range is certified.

Sources checked for the stated scope on 26 November 2026. Original study synthesis; independent clinical review is not claimed. Source attribution is not a copyright-clearance certificate.

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