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Unit conversions

Core Nursing Essentials Nursing Calculations

One gram equals 1000 milligrams, and one milligram equals 1000 micrograms. Convert before dividing and do not mix mass with volume without a concentration.

For educational purposes only.

Introduction & key concepts

One gram equals 1000 milligrams, and one milligram equals 1000 micrograms. Convert before dividing and do not mix mass with volume without a concentration.

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 unit conversions 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

One gram equals 1000 milligrams, and one milligram equals 1000 micrograms. Convert before dividing and do not mix mass with volume without a concentration.

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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