UCSF Health
Center for Nursing Excellence and Innovation
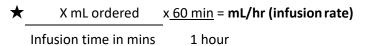
Nursing Orientation: Testing References

All RNs are required to take and pass medication calculation test with **100%** passing score.*

(*There will be an opportunity for remediation and re-test)

Notes, talking, and personal electronic devices are **NOT** allowed to use during tests.

$$\underline{\text{D (Desired dose)}} \quad \text{x} \quad \textbf{V}\text{ehicle}/\textbf{V}\text{olume} = \text{total mL or \# of tablets to administer}$$

H (Dose on hand)

Calculating an Infusion Rate:

★ $\dfrac{\text{X mL ordered}}{\text{Infusion time in mins}} \times \dfrac{60 \text{ min}}{1 \text{ hour}} = \textbf{mL/hr (infusion rate)}$

Calculating an Infusion Rate with a Weight-Based Dose: **Convert to the same dosing units!**

$\dfrac{\text{X } \textbf{mg} \text{ (in bag)}}{\text{X } \textbf{mL} \text{ (in bag)}} = \textbf{Bag Concentration}$ (X mg per 1 mL)

Conversions
1L = 1000 mL
1g = 1000 mg
1mg = 1000 mcg
1kg = 2.2 lbs

2. **Ordered Dose** (X **mg**) x **Patient's Weight** (X **kg**) = **Weight-Based Dose**

3. $\dfrac{\textbf{Weight-Based Dose}}{\textbf{Bag Concentration}} = \textbf{mL/hr (infusion rate)}$

Alternative:

★ $\dfrac{[\text{Ordered dose (mcg)} \times \text{patient's weight (kg)}]}{} \times \dfrac{60 \text{ min}}{1 \text{ hr}} \times \dfrac{1 \text{ mg}}{1000 \text{ mcg}} \times \dfrac{\text{Vol in bag (mL)}}{\text{drug in bag (mg)}} = \textbf{mL/hr}$

Mixture/Solution Volume = $\dfrac{\textbf{Desired Dosage}}{\textbf{Stock Strength}}$ x Stock Volume

Dilution:
(Quantity1) x (Concentration1) = (Quantity2) x (Concentration2)

♥ Cardiac Rhythm Review:

If you are working in the any of the following departments, please be prepared to take Tele Test:

Adult: Cath/EP Lab, IR, Endoscopy, Peri-Procedural Unit, all ICUs, all float pool RNs, ED & ED's Clinical Decision Unit, Hemodialysis, PACU, 8S, 6 & 10CVT, 12S, 13L, 14M, 15M

Peds: Cath/EP Lab, Hemodialysis, IR, Endoscopy, ED, all ICUs, Cardiac TCU, C5 TCUP, transport, critical care float pool

♥ Practice Rhythm Identification at this Website: http://www.skillstat.com/tools/ecg-simulator

♥ Test will cover lethal rhythms, atrial arrhythmias, normal cardiac conduction times, ECG caliper measurements, lead placement, and all parts of a normal ECG rhythm

UC Learning Center Website: **https://learningcenter.ucsfmedicalcenter.org/**

Modules & Links: Multiple modules with similar names exist, use the exact name or link

- **General Compliance Briefing: Ethical Values and Conduct: 30 minutes** https://courses.learning.ucsf.edu/?eCourse=327645&system=RNO

- **UC Cyber Security Awareness Training (English Only): 35 minutes** https://courses.learning.ucsf.edu/?eCourse=349433&system=RNO

- **UCSF Safe Patient Handling Training V1.0: 40 minutes** http://learningcenter.ucsfmedicalcenter.org/?activity=196672

- **UC Preventing Harassment & Discrimination: 60 minutes** https://training.ucsf.edu/news/harassment-prevention-training-re-released

- **Workplace Violence Prevention in Healthcare: 25 minutes** https://courses.learning.ucsf.edu/?eCourse=325736&system=RNO

- **SB 1152 Homeless Patient Discharge Planning Requirements: 15 minutes** https://courses.learning.ucsf.edu/?eCourse=374908&system=RNO

- **Hazardous Drugs USP 800: 30 minutes** https://courses.learning.ucsf.edu/?eCourse=497679&system=RNO

- **UCSF Foundations of Diversity, Equity, and Inclusion: 60 min** https://courses.learning.ucsf.edu/?eCourse=438000&system=RNO

- **COVID-19 Prevention Training: 25 minutes** https://courses.learning.ucsf.edu/?eCourse=436655&system=RNO

- ***Annual Safety Training: 30 minutes** https://courses.learning.ucsf.edu/?eCourse=392514&system=RNO

- ***Infection Prevention Training for Physicians, Nurses, and Licensed Independent Contractors (Clinical Staff): 30 minutes** https://courses.learning.ucsf.edu/?eCourse=481190&system=RNO

  Required Learning in Nursing Connect:

  Nova Statstrip Blood Glucose Glucometer: 15 minutes

> *Only Travel RN need to complete the modules with red asterisk;
> Annual Safety Training and Infection Prevention covered in
> New Employee Orientation for Career and Per Diem RNs

> **ATTN: BCH Nurses**
> **Pediatric nurses sign up for the HAC in Nursing Connect for training within the next 2 months**

> Login Here:
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> **UC LEARNING CENTER LOGIN**
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> Remote access for telecommuting is available 24/7 with or without VPN.
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> Check supported bowsers and disable popup blockers.
>
> If you continue to have issues, check our login issues page.

- You must set up your new password in order to access UC Learning (provided at orientation)
- Disable pop up blockers
- Use a compatible web browser (as listed)
- Contact IT for issues: (415) 514-4100