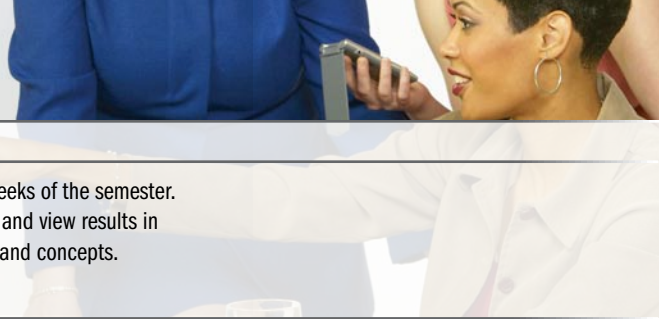




DOSAGE & CALCULATIONS MADE EASY ONLINE

MEDS Dosage & Calculations tutorial, with Q&A series, will teach students MEDS' 3-step approach to mastering medical math.



EASY STEPS TO INTEGRATION

1. Assign level 1 students Medication Administration and Safe Dosage modules during the first 2 weeks of the semester.
2. Assign the other modules to correspond with your curriculum. Assign exams in Assessment Mode and view results in TrackerPlus Online Management System to ensure students completed assignments and understand concepts.
3. Use the program as a remediation tool for students struggling with medical math.

MEDS DOSAGE & CALCULATIONS SERIES INCLUDES 10 MODULES TOTALING 36 HOURS OF LEARNING

TOPIC OUTLINE

MODULE 1:

CALCULATING CRITICAL CARE MEDICATIONS 3 hours of learning

- Calculate Flow Rates for Intravenous Pumps
- Calculate Fluid Boluses Over a Fraction of an Hour
- Calculate Flow Rates for Blood Products
- Identify Safety Concerns with a Fluid Bolus or a Blood Transfusion
- Calculate Flow Rates for IV Drip Medications That are Given in units/hr, mg/hr, mg/min, mg/kg/min, and mcg/kg/min
- Safely Titrate IV Drip Medications to Maintain Desired Parameters
- Select the Correct Syringe and Accurately Dilute Medications for IV Push
- Describe the Use of a Bristojet in the Administration of IV Medications
- 25 Q&A Exam

MODULE 2:

CALCULATING DOSAGES BY WEIGHT 3 hours of learning

- Module Objectives
- Finding Weight in Kilograms
- Calculating Dosages Ordered as "mg/kg/day"
- Calculating Dosages for Various Schedules
- Understanding Manufacturers' Labels
- Calculating Safe Dosages (mg/kg)
- 25 Q&A exam

MODULE 3:

CALCULATING INJECTABLE MEDICATIONS 4 hours of learning

- Module Objectives
- Administering Injectable Medications
- Use of Syringes
- Understanding Manufacturers' Labels
- Calculating Injectable Dosages
- Working with Insulin
- Insulin Syringes
- 25 Q&A exam

MODULE 4:

CALCULATING ORAL MEDICATIONS 3 hours of learning

- Module Objectives
- Administering Oral Medications
- The Pharmacy Bulk System
- The Unit Dose System
- The Medication Administration Record
- Understanding Manufacturers' Labels
- Understanding Solid Medications
- Calculating Solid Dosages
- Understanding Liquid Medications
- Calculating Liquid Medications
- 25 Q&A exam

MODULE 5:

CALCULATING PARENTERAL MEDICATIONS 4 hours of learning

- Module Objectives
- Introduction to IV Medication
- Types of IV Fluids
- Osmolarity
- Understanding Manufacturers' Labels
- IV Equipment
- Adding Medications to IV Solutions
- Calculating Intravenous Additive Dosages
- Adjusting for IV Additives
- The 10% Rule
- 25 Q&A exam

MODULE 6:

CALCULATING PEDIATRIC MEDICATIONS 3 hours of learning

- Identify Special Fluid Needs of Children
- Identify the Maintenance Fluid Requirements
- Calculate the Maintenance Fluid Rates Base of Weight in Kilograms
- Identify the Fluid Replacement Needs for Deficits
- Calculate Fluid Resuscitation Volumes Required by Children
- 25 Q&A exam

MODULE 7:

CALCULATING POWDERED MEDICATIONS 2 hours of learning

- Module Objectives
- Administering Powdered Medications
- Understanding Manufacturers' Labels
- Calculating Powdered Dosages
- 25 Q&A exam

MODULE 8:

MEDICATION ADMINISTRATION 4 hours of learning

- Module Objectives
- Working with Military Time
- Three Systems of Measurement
- The Metric System
- Finding Metric Equivalents
- The Apothecary System
- The Household System
- Other Systems of Measurement
- Common Latin Abbreviations
- Calculating Equivalent Dosages
- Rounding Rules
- 25 Q&A exam

MODULE 9:

SAFE DOSAGE 2 hours of learning

- Module Objectives
- 10 Rules for Safe Medication Administration
- Look Alike/Sound Alike Medications
- Common Medication Suffixes
- Transcribing Physicians' Orders
- Adverse Medication Reactions
- Reporting Adverse Reactions
- Steps to Reduce Client Risk
- 25 Q&A exam

MODULE 10:

COMPREHENSIVE EXAMS AND CASE STUDIES

5 hours of learning

- 3 comprehensive exams
- 3 case studies