

# Medical Conversions

## Length

### Metric (SI)

#### Abbreviations

mm - millimeter

cm - centimeter

m - meter

km - kilometer

#### Equal to

1 km = 1,000 m = 100,000 cm = 1,000,000 mm

1 m = 100 cm = 1,000 mm

1 cm = 10 mm

#### SI = US

1 mm = 0.04 in

1 cm = 0.39 in

1 cm = 0.03 ft

1 m = 39.37 in

1 m = 3.28 ft

1 m = 1.09 yd

1 km = 3.281 ft

1 km = 1.094 yd

1 km = 0.62 mi

## Mass

### Metric (SI)

#### Abbreviations

mcg - microgram

mg - milligram

g - gram

kg - kilogram

#### Equal to

1 kg = 1,000 g = 1,000,000 mg = 1,000,000,000 mcg

1 g = 1,000 mg = 1,000,000 mcg

1 mg = 1,000 mcg

#### SI = US

1 g = 0.035 oz

1 kg = 35.27 oz

1 kg = 2.2 lb

## Volume

### Metric (SI)

#### Abbreviations

mL - milliliter

L - liter

cc - cubic centimeter

#### Equal to

1 L = 1,000 mL = 1,000 cc

1 mL = 1 cc

#### SI = US

1 mL (cc) = 0.2 tsp

1 mL (cc) = 0.07 tbsp

1 mL (cc) = 0.03 fl oz

1 L = 203 tsp

1 L = 67.6 tbsp

1 L = 33.8 fl oz

1 L = 2.1 pt

1 L = 1.06 qt

1 L = 0.26 gal

#### No longer widely used

gts - drops

(values are highly approximated)

1 gtt = 0.05 mL (cc)

1 mL (cc) = 20 gts

## Temperature

### Metric (SI)

#### Abbreviations

C - celsius

SI = US

0 C = 32 F

100 C = 212 F

## Temperature conversion formulas

$$C = (F - 32) \times (5/9)$$

Example using 98.6

$$C = (98.6 - 32) \times (5/9)$$

$$C = 66.6 \times 0.556$$

$$C = 37$$

$$37 C = 98.6 F$$

### Imperial (US)

#### Abbreviations

in - inch

ft - foot

yd - yard

mi - mile

#### Equal to

1 mi = 1,760 yd = 5,280 ft = 63,360 in

1 yd = 3 ft = 36 in

1 ft = 12 in

#### US = SI

1 in = 25.4 mm

1 in = 2.54 cm

1 in = 0.0254 m

1 ft = 304.8 mm

1 ft = 30.48 cm

1 ft = 0.3 m

1 yd = 914.4 mm

1 yd = 91.44 cm

1 yd = 0.9144 m

1 mi = 1,609 m

1 mi = 1.6 km

### Imperial (US)

#### Abbreviations

oz - ounce

lb - pound

t - ton

#### Equal to

1 t = 2,000 lb = 32,000 oz

1 lb = 16 oz

#### US = SI

1 oz = 28.35 mg

1 oz = 0.028 g

1 lb = 454 g

1 lb = 0.45 kg

1 t = 907 kg

### Imperial (US)

#### Abbreviations

tsp - teaspoon

tbsp - tablespoon

fl oz - fluid ounce

pt - pint

qt - quart

gal - gallon

#### Equal to

1 gal = 4 qt = 8 pt = 128 fl oz = 256 tbsp = 768 tsp

1 qt = 2 pt = 32 fl oz = 64 tbsp = 192 tsp

1 pt = 16 fl oz = 32 tbsp = 96 tsp

1 fl oz = 2 tbsp = 6 tsp

1 tsp = 3 tsp

#### US = SI

1 tsp = 5 mL (cc)

1 tbsp = 15 mL (cc)

1 oz = 30 mL (cc)

1 oz = 0.03 L

1 pt = 473 mL (cc)

1 pt = 0.47 L

1 qt = 946 mL (cc)

1 qt = 0.95 L

1 gal = 3,785 mL (cc)

1 gal = 3.79 L

### Imperial (US)

#### Abbreviations

F - Fahrenheit

US = SI

0 F = -17.8 C

100 F = 37.8 C

$$F = C \times (9/5) + 32$$

Example using 37 C

$$F = 37 \times (9/5) + 32$$

$$F = 37 \times 1.8 + 32$$

$$F = 66.6 + 32$$

$$F = 98.6$$

$$98.6 F = 37 C$$

# Medical Math Conversion Charts

**William Swan Sonnenschein**

## **Medical Math Conversion Charts:**

**Henke's Med-Math** Susan Buchholz, Grace Henke, 2008-09-01 Now in its Sixth Edition this best selling text features a highly visual hands on approach to learning dosage calculations and principles of drug administration. It presents step by step approaches to solving problems and includes dosage problems that simulate actual clinical experience. Each chapter includes numerous examples, self tests, and proficiency tests. This edition presents all four methods of calculation side by side: ratio proportion, formula, and dimensional analysis. New material on enteral feedings, heparin infusions, and insulin infusions is included. Drug labels are current and problems use JCAHO approved abbreviations. A handy quick reference plastic pull out card shows conversions and formulas.

**Henke's Med-Math** Susan Buchholz, 2023-08-16 Henke's Med Math Dosage Calculation Preparation and Administration 10th Edition offers a highly visual hands on approach to mastering dosage calculation and the principles of drug administration. Rich with side by side comparisons, engaging animations, and dosage calculation problems, this dynamic new edition guides students step by step through the problem solving process and builds clinical proficiency for confident dosage calculation and medication administration.

**Clinical Procedures for Medical Assistants - E-Book** Kathy Bonewit-West, 2022-09-03 Master the foundational concepts and skills necessary to become a successful clinical medical assistant. Written using clear and accessible language, Clinical Procedures for Medical Assistants 11th Edition guides you through essential medical assisting clinical procedures such as taking vital signs, collecting, processing, and testing laboratory specimens, preparing patients for examinations and procedures, administering medications, and assisting with office surgeries. This edition is thoroughly updated throughout to align with 2022 medical assisting competencies and includes a new art program plus updated coverage of the medical record, nutritional guidelines, OSHA standards for infection control and prevention, emergency preparedness, and the latest medical assisting clinical guidelines. More than 90 procedures help you learn key medical assisting skills with step by step instructions and clear illustrations. Learning features throughout focus on case based critical thinking, patient education, legal issues, practice tips, and documentation exercises, and a full complement of online resources provides practice for classroom and board exams. EHR documentation exercises, video procedures with evaluation questions, and a variety of interactive exercises to reinforce comprehension and content mastery. This thorough text ensures you have the clinical skills needed to succeed in today's fast-paced medical office. Consistent, meticulous coverage ensures alignment of all content throughout the text on the Evolve companion website and in the study guide. More than 90 illustrated procedures offer step by step guidance with many featuring accompanying online videos. Learning features focus on case based critical thinking, patient education, legal issues, practice tips, and documentation examples. Student resources on Evolve include video procedures with evaluation quizzes, case based quizzes, SimChart for the Medical Office, documentation exercises, sample certification exams, practicum activities, and interactive activities. NEW 2022 medical assisting competencies throughout represent the latest educational standards.

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understanding of personal safety following the OSHA standards Pronunciation section in the Terminology Review gives you confidence with pronunciation and medical knowledge Application to EMR where appropriate prepares you for the real world by dealing with electronic medical records     *Attorneys Medical Deskbook* Dan J. Tennenhouse,1983     **Clinical**

**Procedures for Medical Assistants** Kathy Bonewit-West,2004 Encompassing all of the back office hands on concepts and skills that medical assistants need to know this popular in depth resource of clinical procedures covers essential topics such as taking vital signs and lab specimens processing lab specimens as well as preparing patients for examinations surgeries and other office treatments and procedures The book s current expert accessible coverage addresses all aspects of back office duties with certain transdisciplinary themes legal ethical patient education documentation woven throughout the chapters where appropriate This edition continues to feature profiles of real medical assistants who are currently practicing in the clinical area sharing their most memorable or influential on the job experiences Instructor resources are available please contact your Elsevier sales representative for details Expert reputation of both the text and author Kathy Bonewit West reassures readers that all information is accurate and follows the national curriculum guidelines Medical assistant profiles provide unique and memorable biographical profiles of real life MAs sharing their fears likes hopes and aspirations designed to help readers connect with their future career goals in a concrete way End of chapter procedures with steps rationales and charting examples clearly show how a particular procedure would be documented in the medical record Patient Teaching boxes present patient education in the context of the medical assistant s role making it more immediate and relevant Terminology Review boxes identify key terms for a valuable terminology overview in each chapter Certification Review boxes provide a bulleted summary review of important points to know after each chapter that may be covered in the medical assisting certification exam Medical Practice and the Law boxes describe legal issues that are important for medical assistants to understand On the Web boxes list websites for further student study and research relevant to each chapter Reorganized table of contents presents a more logical progression of material beginning with the medical record and followed by medical asepsis and sterilization and disinfection so readers have the foundation of basic clinical knowledge before delving into more complicated procedural concepts Apply Your Knowledge sections offer case based multiple choice questions at the end of each chapter to help strengthen critical thinking and application skills A table correlating Cognitive Learning Objectives with Performance Skills Learning Objectives clearly identifies the cognitive basis for each clinical skill The Administration of Medication chapter has been extensively revised to include the most current and commonly used drugs exposing readers to medication names most likely encountered in the medical office What Would You Do What Would You Not Do case study boxes and responses profile real world cases throughout the chapter English to Spanish medical terms appendix covers glossary terms used by medical assistants when interacting with Spanish speaking patients     **Ernsting's Aviation and Space Medicine** David P. Gradwell,Elizabeth S. Wilkinson,2025-05-30 Ernsting s Aviation and Space Medicine

applies current understanding in medicine physiology and the behavioural sciences to the medical challenges and stresses that are faced by both civil and military aircrew and their passengers on a daily basis The sixth edition of this established textbook and clinical reference has been revised and updated by a multidisciplinary team of experienced contributors many new to this edition The structure of the book has been refined bringing related chapters together where appropriate while the clinical content has been carefully streamlined in line with the specific requirements of the aviation medicine practitioner and adviser with new chapters added on Commercial Space Travel Skin Disease and Women s Health Key Features

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**Assisting** Gail A. Chester,1998 This text provides the most comprehensive practical guidance on every aspect of medical assisting It complies fully with the new AAMA Role Delineation Study objectives It employs bulleted lists charts graphs and outlines to provide information on the profession the essentials of a professional administrative responsibilities fundamentals of medical science clinical responsibilities the job search and more Step by step procedures are provided with rationales and charting examples Accompanying software contains over 1 000 questions in electronic format *Finding the Source of Medical Information* Barbara S. Shearer, Geneva L. Bush,1985-04-25 Product information not available The Bookseller,1968 Vols for 1871 76 1913 14 include an extra number The Christmas bookseller separately paged and not included in the

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