# **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 mmSI = US1 mm = 0.04 in1 cm = 0.39 in1 cm = 0.03 ft1 m = 39.37 in1 m = 3.28 ft1 m = 1.09 yd1 km = 3,281 ft1 km = 1.094 yd1 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 cc1 mL = 1 cc SI = US1 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 gtts - drops (values are highly approximated) 1 gtt = 0.05 mL (cc) 1 mL (cc) = 20 gtts

#### Temperature

Metric (SI) Abbreviation c - celsius SI = US 0 c = 32 f 100 c = 212 f

#### Temperature conversion formulas

c = (f - 32) X (5/9) Example using 98.6 f c = (98.6 - 32) X (5/9) c = 66.6 X 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 inUS = SI1 in = 25.4 mm 1 in = 2.54 cm 1 in = 0.0254 m 1 ft = 304.8 mm 1 ft = 30.48 cm1 ft = 0.3 m1 yd = 914.4 mm1 yd = 91.44 cm 1 yd = 0.9144 m 1 mi = 1,609 m1 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 = 28,350 mg
1 oz = 28,35 g
1 oz = 0.028 kg
1 lb = 454 g
1 lb = 0.45 kg
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: 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 tbs = 3 tspUS = SI1 tsp = 5 mL (cc)1 tbsp = 15 mL (cc) 1 oz = 30 mL (cc) 1 oz = 0.03 L1 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) Abbreviation f - fahrenheit US = SI 0 f = -17.8 c 100 f = 37.8 c

f = c X (9/5) + 32 Example using 37 c f = 37 X (9/5) + 32 f = 37 X 1.8 + 32 f = 66.6 + 32 f = 98.6 98.6 f = 37 c



## **Medical Math Conversion Charts**

**Hutton, Meriel** 

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