

MEDICATION

Math



DRUG CALCULATION FORMULAS

CONVERSION KEY

1 mL = 1 cc

1 L = 1,000 mL

1 mg = 1,000 mcg

1 gm = 1,000 mg

1 tsp = 5 mL

3 tsp = 1 tbspo

1 kg = 1,000 g

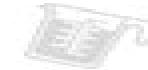
1 oz = 2 tbspo

50 mL = 1 oz

1 mcg = 1 mg

2.2 lbs = 2.2 kg

1 tbspo = 15 mL



MIXTURES & SOLUTIONS

$$\frac{\text{DESIRED DOSE}}{\text{STOCK STRENGTH}} \times \text{STOCK VOLUME} = \text{AMOUNT TO BE GIVEN}$$



TABLET DOSAGES

$$\frac{\text{DESIRED DOSE}}{\text{STOCK STRENGTH}} = \text{NUMBER OF TABLETS}$$



IV RATES

ML PER HR & MIN:

$$\frac{\text{TOTAL IV VOLUME}}{\text{TIME (HR or MIN)}} = \text{ML PER HOUR OR MINUTE}$$



DROPS PER MIN:

$$\frac{\text{TOTAL IV VOLUME}}{\text{TIME (MIN)}} \times \text{DROP FACTOR} = \text{DROPS PER MINUTE}$$

REMAINING INFUSION TIME:

$$\frac{\text{VOLUME REMAINING (ML)}}{\text{DROPS PER MINUTE}} \times \text{DROP FACTOR} = \text{MINUTES REMAINING}$$

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