# **Nursing Dosage Chart Cheat Sheet**

## **Dosage conversion chart**

## Milligrams (mg) and micrograms (mcg)

1 mg = 1000 mcg

1 mcg = 0.001 mg

# Grams (g) and milligrams (mg)

1 g = 1000 mg

1 mg = 0.001 g

## Milliliters (mL) and drops

1 mL = 20 drops (approximate for medical use)

1 drop = 0.05 mL

# Liquid volume: teaspoons, tablespoons, and milliliters

1 teaspoon (tsp) = 5 mL

1 tablespoon (tbsp) = 15 mL

1 oz = 30 mL

1 mL = 0.0338 oz

1 mL ≈ 20 drops (medical approximation)

# Liters (L) and milliliters (mL)

1 L = 1000 mL

1 mL = 0.001 L

## IV drip rate formulas

#### **Drops per minute**

Drops/min = (Total Volume in mL / Time in hours)
x Drop Factor

Drop Factor: commonly 10, 15, 20, or 60 drops/mL

#### IV flow rate

Flow Rate (mL/hr) = Total Volume in mL / Time in hours

#### Dosage based on drug concentration

Dosage (mg) = Volume (mL) x Concentration (mg/mL)

### Infusion rate (for medications in infusion)

Rate (mL/hr) = (Desired Dose / Drug Concentration) x 60

### Pediatric dosage calculations

## Based on weight:

- Dosage (mg/kg/day) = (Patient's weight in kg) x (Dosage per kg)
- Divide total daily dosage into appropriate frequency: Dosage (mg/kg/day) / Frequency of administration

## Body surface area (BSA) for dosage calculations

## Mosteller formula:

BSA (m<sup>2</sup>) =  $\sqrt{\text{[(Height in cm x Weight in kg)} / 3600]}$ 

