



Hypertonic Saline Formulations

1.8% Saline (Double Strength)

How to Prepare: Add **20mls** of Sodium Chloride 23.4% to 500mls of Sodium Chloride 0.9% IV bag.

Total Volume: 520mls

Calculations:

$$\begin{array}{rcl} 500\text{mL IV Bag} & & = 4.50\text{g Sodium Chloride} \\ \underline{20\text{mL of 23.4\% conc.}} & & = \underline{4.68\text{g Sodium Chloride}} \\ 520\text{mL total volume} & & 9.18\text{g Sodium Chloride} \end{array}$$

$$\frac{9.18\text{g}}{520\text{mL}} \times 100\% = 1.76\%$$

3% Saline (Hypertonic)

How to Prepare: Add **26mls** of Sodium Chloride 23.4% to 250mls of Sodium Chloride 0.9% IV bag.

Total volume: 276mls

Calculations:

$$\begin{array}{rcl} 250\text{mL IV Bag} & & = 2.25\text{g Sodium Chloride} \\ \underline{26\text{mL of 23.4\% conc.}} & & = \underline{6.084\text{g Sodium Chloride}} \\ 276\text{mL total volume} & & 8.334\text{g Sodium Chloride} \end{array}$$

$$\frac{8.334\text{g}}{276\text{mL}} \times 100\% = 3.02\%$$