

IV FLUIDS

Isotonic
Hypotonic
Hypertonic



Isotonic IV Fluid

Concentration of solutes equal to that of the serum. No movement of fluid in or out of cell.

**0.9% Sodium Chloride
Lactated Ringers**

Hypertonic IV Fluid

Concentration of solutes *higher* than that of the serum. Fluid leaves cell and enters vascular space.

**3% Sodium Chloride
Dextrose 10% in Water**

Hypotonic IV Fluid

Concentration of solutes *lower* than that of serum. Fluid leaves vascular space and enters cell.

**0.45% Sodium Chloride
0.225% Sodium Chloride**

KEY POINTS:

NO HYPOTONIC IVF for TBI- Will cause **cerebral swelling!!!**

Hypertonic IVF: Fluid volume overload! Assess lung sounds, daily weights, Is & Os