

Туре	Description	Osmolality	Use	Misc.
Saline (NS)	0.9% NaCl in water crystalloid solution	Isotonic (308 mOsm)	Increases circulating plas- ma volume when red cells are adequate	<ul> <li>Replaces losses without altering fluids concentrations</li> <li>Helpful for Na+ replacement</li> </ul>
½ Normal Saline (½ NS)	0.45% NaCl in water crystalloid solution	Hypotonic (154 mOsm)	Raises total fluid volume	<ul> <li>Useful for daily maintenance of body fluid, but is of less value for replacement of NaCl deficit</li> <li>Helpful for establishing renal function</li> <li>Fluid replacement for clients who don't need extra glucose (diabetics)</li> </ul>
Lactated Ringer's (LR)	Normal saline with electrolytes and buffer	Isotonic (275 mOsm)	Replaces fluid buffers pH	<ul> <li>Normal saline with K+, Ca++, and lactate (buffer)</li> <li>Often seen with surgery</li> </ul>
D <sub>5</sub> W	Dextrose 5% in water crystalloid solution	Isotonic (in the bag)  *Physiologically hypotonic (260 mOsm)	Raises total fluid volume. Helpful in rehydrating and excretory purposes	<ul> <li>Provides 170 – 200 calories / 1,000cc for energy</li> <li>Physiologically hypotonic – the dextrose is metabolized quickly so that only water remains – a hypotonic fluid</li> </ul>
D <sub>5</sub> NS	Dextrose 5% in 0.9% saline	Hypertonic (560 mOsm)	Replaces fluid sodium, chloride, and calories	Watch for fluid volume over- load
D <sub>5</sub> ½ NS	Dextrose 5% in 0.45% saline	Hypertonic (406 mOsm)	Useful for daily mainte- nance of body fluids and nutrition, and for rehy- dration	Most common postoperative fluid
D <sub>5</sub> LR	Dextrose 5% in Lactated Ringer's	Hypertonic (575 mOsm)	Same as LR plus provides about 180 calories per 1000cc's	Watch for fluid volume over- load
Normosol-R	Normosol	Isotonic (295 mOsm)	Replaces fluid and buffers pH	<ul> <li>pH 7.4</li> <li>Contains sodium, chloride, calcium, potassium and magnesium</li> <li>Common fluid for OR and PACU</li> </ul>