

Hyponatremia

Check Serum
Osmolality

Isotonic
(280-290 mOsm/kg)

Pseudohyponatremia:
hypertriglyceridemia,
hyperglobulinemia,
hyperproteinemia

Bladder Irrigation

Hypertonic
(>295 mOsm/kg)

Hyperglycemia
Mannitol
Sorbitol
Glycine
IV immunoglobulin

Hypotonic
(<280 mOsm/kg)

Clinical
Assessment
of Volume
Status

Hypovolemic

GI Losses
Third Spacing
Cerebral Salt Wasting
Renal Tubular Acidosis
Ketonuria

Euvolemic

SIADH
Adrenal Insufficiency
Hypothyroidism
Postoperative (pain, opioids, drugs)
Water Intoxication
Thiazide Diuretics

Hypervolemic

Heart Failure
Cirrhosis
Renal Failure