

SODIUM : OSMOLALITY RATIO, SERUM (Indirect ISE, Freezing point depression)		
Sodium	mEq/L	
Osmolality	mOsm/Kg H ₂ O	(278 – 298)
Sodium : Osmolality Ratio		(0.43 – 0.50)

Comments

The ratio between serum sodium and serum osmolality is helpful in predicting prognosis in many conditions. Detection of low ratio in certain conditions like Lymphoma, Cancer, Liver failure, Acute infections & Myocardial infarction is predictive of unfavourable prognosis. In cases of acute toxicity due to drug overdose like Salicylate poisoning, the finding of normal serum sodium & high serum Osmolality may often be considered as an indication for dialysis. In dehydration when water loss exceeds salt loss, the serum osmolality and sodium level increases but the ratio remains normal.