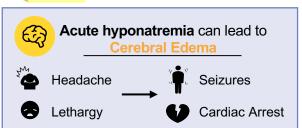


MAINTENANCE IV FLUIDS: Avoiding Hyponatremia





Acute: l Chronic:

Acute: Less than 48 hours **Chronic**: More than 48 hours

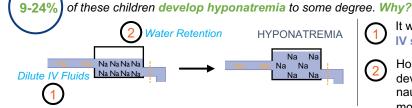
Hyponatremia

Hypernatremia

135 mmol/L 145 mmol/L

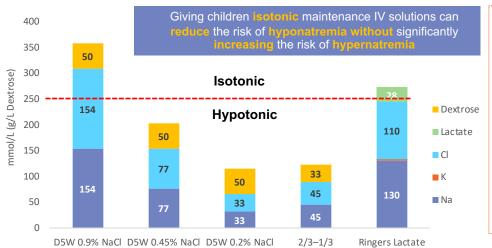
Hospitalized children who receive maintenance IV fluids are at an increased risk of hyponatremia





It was routine practice to give children hypotonic IV solutions with 20-30 mmol/L of Na.

Hospitalized children are at an increased risk of developing elevated ADH secretion due to nausea, stress, pain and medications like morphine



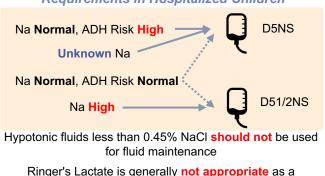


- Baseline Electrolytes
 Glucose, Urea, Creatinine
- Regular Electrolytes
- Intake, Output, Weights
- Symptoms of hyponatremia

Recommendations

- All hospitalized children receiving IV fluids are at risk for hyponatremia
- Oral fluids are generally hypotonic and should be accounted for when assessing total fluid intake
- Infants and young children require dextrose with maintenance fluids (eg. D5NS) as they have limited glycogen stores.
- Clinicians should be equally cautious when prescribing IV fluids as they are when prescribing medications.

Prescription of IV Fluids for Maintenance Requirements in Hospitalized Children



maintenance fluid in children