

PARENTERAL FLUID THERAPY FOR CHILDREN & YOUNG PEOPLE (AGED OVER 4 WEEKS & UNDER 16 YEARS)

Essential Monitoring, **Observations & Reassessment** INITIALLY Admission Weight. U&E (unless child is well & for elective surgery) Each shift Handover and review fluid management plan. 12 Hourly -Clinical assessment, fluid balance, glucose 24 Hourly -Clinical reassessment. U&E (more often if abnormal; 4-6hourly if Na⁺ < 130 mmol/L). Weight and weight changes **ILL CHILDREN** Hourly - HR, RR, BP, GCS. Fluid balance (urine osmolality if volume cannot be assessed). 2 - 4 hourly – glucose, U&E, +/- blood gas. **Enteral Intake and Medications:** Assess and record the volume and type of enteral fluids and IV medications. If plasma Na⁺ < 130mmol/L or > 150mmol/L or plasma Na⁺ changes > 5mmol/L in 24 hours get senior help

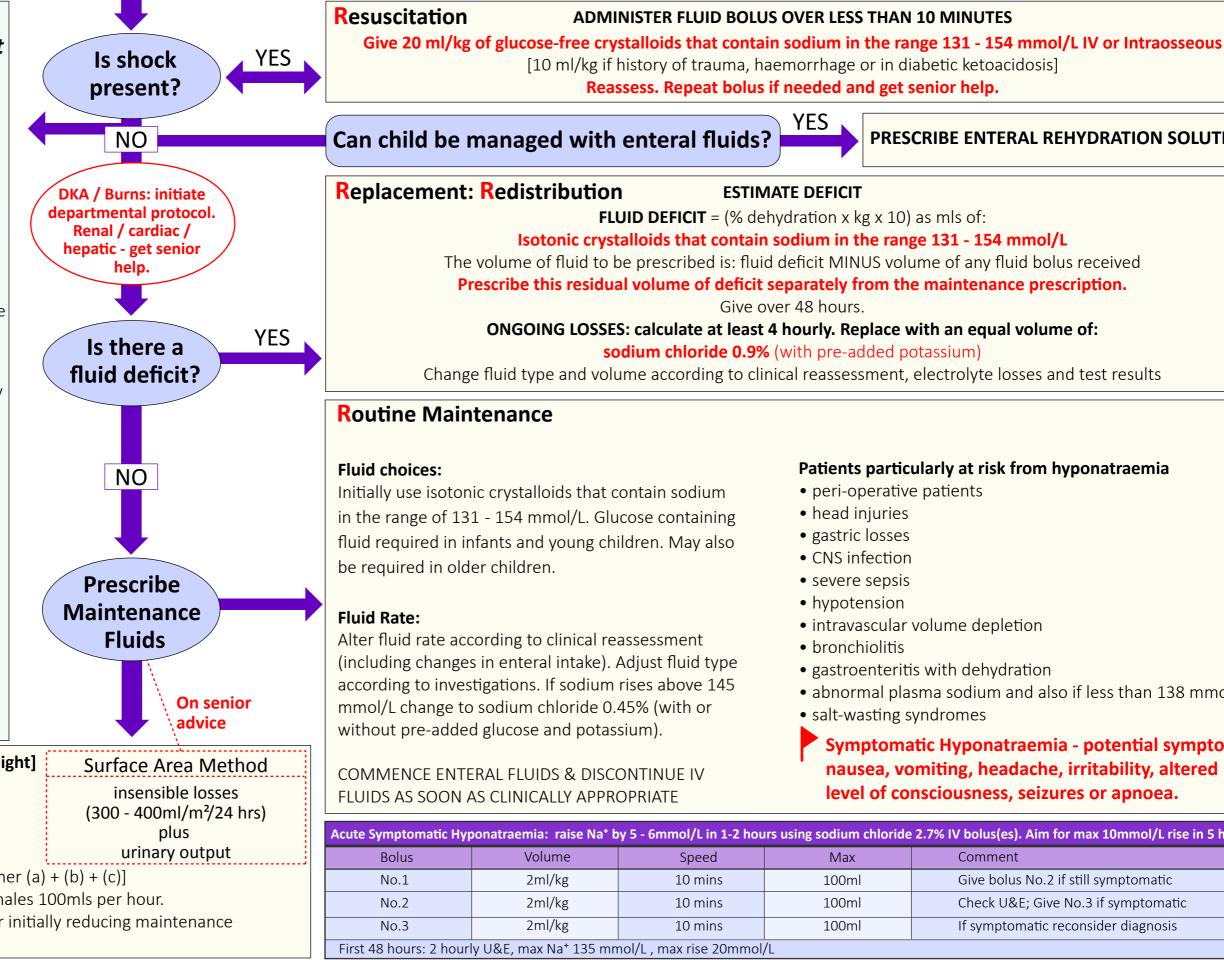
Routine Maintenance [Uses Weight]

CALCULATION OF 100% RATE 4ml/kg/hr (a) for first 10 kg: (b) for second 10 kg: 2ml/kg/hr

(c) for each kg over 20 kg: 1ml/kg/hr [for 100% daily maintenance add together (a) + (b) + (c)]

MAXIMUM: females 80 mls per hour; males 100mls per hour. If risk of hyponatraemia is high consider initially reducing maintenance

volume to two thirds of maintenance.



Hypokalaemia (< 3.5 mmol/L): Check for initial deficit. Maintenance fluid with pre-added potassium required. For concentration > 40mmol/L get senior help. Hypoglycaemia (< 3 mmol/L). Medical Emergency: give 2 ml/kg bolus of glucose 10%. Review maintenance fluid, consult senior and recheck level after 15-30 mins. INTRA-OPERATIVE PATIENTS: consider monitoring glucose.

PRESCRIBE ENTERAL REHYDRATION SOLUTION

Patients particularly at risk from hyponatraemia

- intravascular volume depletion
- gastroenteritis with dehydration

abnormal plasma sodium and also if less than 138 mmol/L

Symptomatic Hyponatraemia - potential symptoms: nausea, vomiting, headache, irritability, altered level of consciousness, seizures or apnoea.

loride 2.7% IV bolus(es). Aim for max 10mmol/L rise in 5 hours	
	Comment
	Give bolus No.2 if still symptomatic
	Check U&E Give No.3 if symptomatic
	If symptomatic reconsider diagnosis