

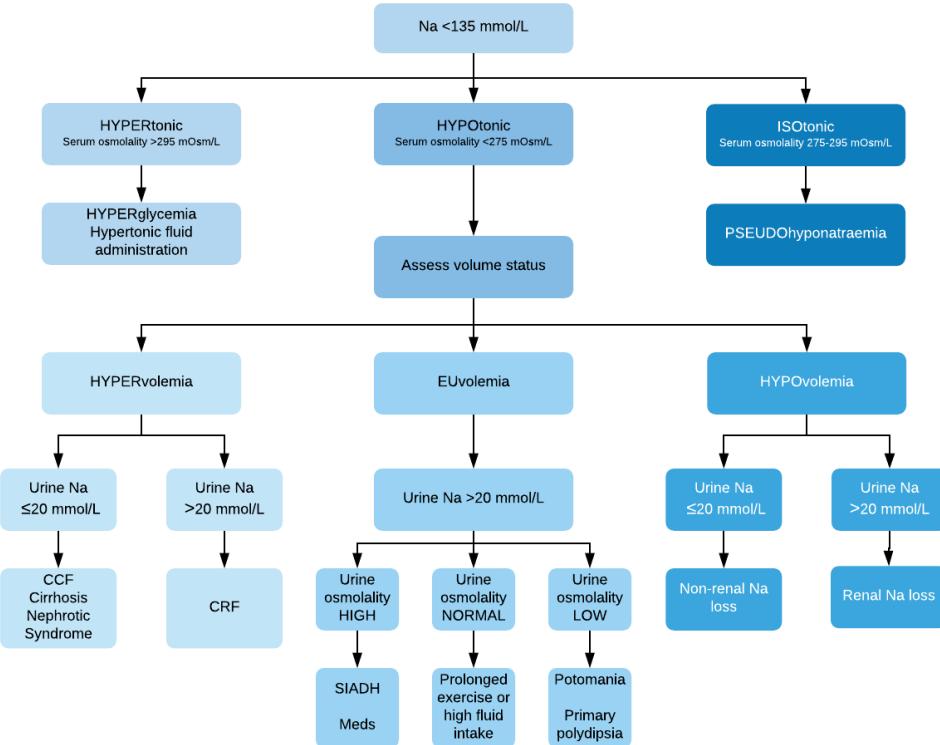


SCGH ED Adult Hyponatraemia Management Guidelines

Hyponatraemia Causes

Be aware of spurious causes of hyponatraemia: hyperglycaemia, hyperproteinaemia, hypercholesterolemia, lab error, collection error (IV fluid administration).

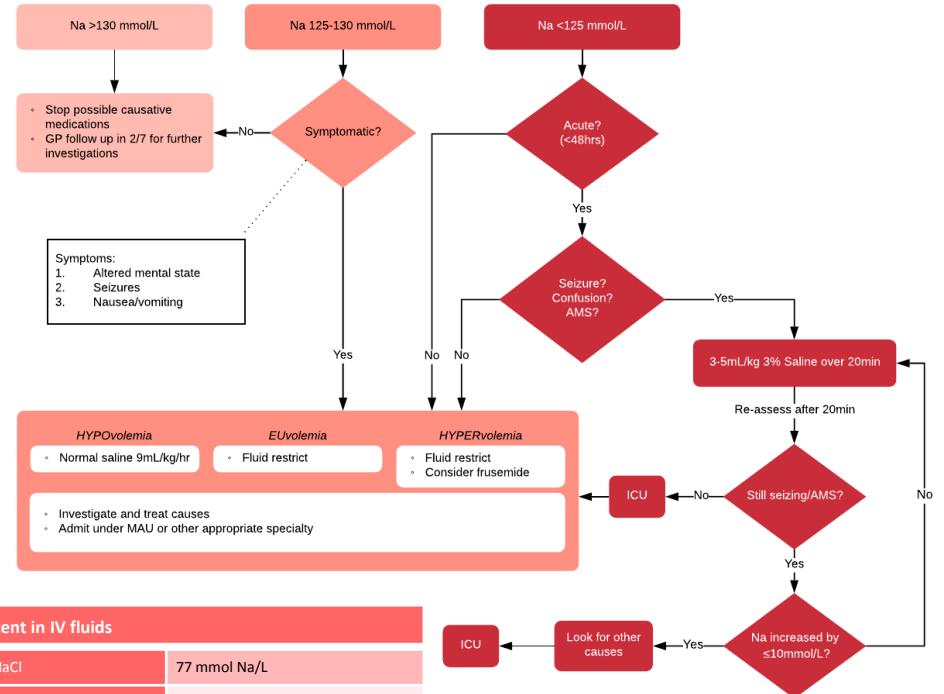
Investigations should be tailored, but *ALL* patients require a plasma osmolality, urine Na and urine osmolality.



Hyponatraemia Management

Avoid overcorrection

Aim to increase by 2-3 mmol/L in the 1st hour, 6-8 mmol/L in 24 hours.



| Na content in IV fluids | |
|-------------------------|----------------|
| 0.045% NaCl | 77 mmol Na/L |
| 0.9% NaCl | 154 mmol Na/L |
| CSL | 131 mmol Na/L |
| 1.8% NaCl | 308 mmol Na/L |
| 3% NaCl | 513 mmol Na/L |
| 8.4% NaHCO ₃ | 1000 mmol Na/L |
| 20% NaCl | 3400 mmol Na/L |
| 23.4% NaCl | 4000 mmol Na/L |

Making 3% saline: add 26mL of 23.4% NaCl to 250mL normal saline (total volume 276mL, total Na is 142.5 mmol).

Dextrose solutions *DO NOT* contain Na and should be avoided in patients with hyponatraemia.

Regardless of cause, Na replacement should not exceed 10 mmol/L in the first 24 hrs, and 8 mmol/L/24 hrs for subsequent days until Na level is \geq 130 mmol/L.