Hypernatremia





Causes

- diabetes insipidus (lack of ADH or lack of renal response to ADH)
- diarrhea
- Vomiting
- Diuretics
- hypertonic saline
- sodium bicarbonate administration
- Cushing's syndrome.



Treatment

 Do not correct Na+ concentration faster than 1mmol/L/hr.

•Use 0.9% saline to correct hypovolaemia (patients who have tachycardia, hypotension, or postural hypotension).





Treatment

• Once the patient is euvolaemic, use an infusion of 0.45% saline or 5% glucose. The *free water deficit* can be calculated using the formula:

Freewater deficit (L)= 0.6* weight (kg)* [(serum Na +/ 140)-1]

 Replace the deficit over 48hr (in addition to normal maintenance fluids).

Check serum Na+ after 2-3hr to monitor correction rate.





Complications

- Seizures
- subdural and intracerebral haemorrhages
- ischaemic stroke
- dural sinus thrombosis.
- Rapid correction of Na+ levels (particularly in chronic hypernatraemia) can cause cerebral oedema and further neurological complications.





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