2-9a Severe hyponatraemia v.1

Hyponatraemia is defined as a serum sodium less than 130 mmol/L; **treat as severe if less than 125 mmol/l or symptoms**. The management plan alters depending on the exact sodium level, oxytocin administration and if the woman has delivered. Ensure blood samples are taken from a limb free from IV infusions. Point of care testing e.g., blood gases can provide rapid sodium results. Risk factors for hyponatraemia include excessive water ingestion, oxytocin infusion, insulin/dextrose infusion, pre-eclampsia

START

- **Call for help** (obstetrician, anaesthetist)
- 2 Check for clinical signs of severe hyponatraemia (Box A)
 - If <u>no</u> clinical signs → go to 3
 - If clinical signs present 🗲
 - Call ICU for help
 - ▶ Give 150 ml 2.7% hypertonic saline IV over 20 min
 - Check sodium after 30 minutes

If sodium < 125 mmol/L -and- in labour -or- on IV oxytocin →

- ► If acute drop >10 mmol/L in < 24 hours → contact ICU -and- agree need for hypertonic saline infusion</p>
- Start fluid restriction to 30 ml/hr
- Stop all drugs causing hyponatraemia
- Check and record fluid balance hourly
- Check sodium 2 hourly
- Take paired blood and urine osmolalities
- 4 At birth, alert neonatal team to maternal hypnonatraemia

5 Once delivered *-or-* IV oxytocin discontinued **→**

- Check for signs of severe hyponatraemia (Box A)
- ► If signs of severe hyponatraemia present → give 150 ml 2.7% hypertonic saline IV over 20 minutes
- Start fluid restriction to 30 ml/hr
- Check and record fluid balance
- Check sodium 4 hourly

Box A: Signs of severe hyponatraemia

- Disorientation
- Agitation
- Seizures
- Depressed reflexes
- Focal neurological deficits
- Cheyne-Stokes respiration
- Coma

Box B: Critical changes
Sodium 125 – 129 mmol/L with no signs of severe hyponatraemia 🗲
Hyponatraemia (not severe) 2-9b