

Stabilisation for Neurological Testing (Adults)

For use once sedation is discontinued and testing for death using neurological criteria is planned.

CVS

Cardiovascular instability is expected with brainstem dysfunction.

- Correct any instability.
- Ensure central access.
- Start Noradrenaline as needed.
- Low threshold to start vasopressin.



DIABETES INSIPIDUS

Urine output more than 200mls/hr with rapidly rising sodium?

- Is this diabetes insipidus?
- If yes, treat with DDAVP.
- Do not wait for osmolarities.
- Low threshold to start vasopressin.



Na^+

ELECTROLYTES

Aim for normal levels. Disturbances are common.

Testing requires:

- Sodium 125 – 160 mmol/L
- Potassium over 2.0 mmol/L
- Magnesium 0.5 – 3.0 mmol/L
- Phosphate 0.5 – 3.0 mmol/L (Low or unavailable phosphate delays testing)
- Glucose 3 – 20 mmol/L

PO_4^{3-}

TEMPERATURE KEEP OVER 36°C

Hypothermia can delay the return of brainstem function.

- Commence hourly (and consider continuous) temperature monitoring.
- Only transient (less than 6-hours in total) reductions in temperature below 36°C are allowed in the 24-hours before testing.



DRUGS

- DDAVP (desmopressin) 0.5 – 4 mcg intravenous. If two doses required in a short time frame, low threshold to start vasopressin.
- Vasopressin 20 units in 50mls 5% dextrose; rate 1.2 to 10mls/hr.
- Follow unit drug dosing if different to above.

OTHER CONSIDERATIONS

- In hypoxic brain injury, observation before neurological testing is at least 24 hours following the loss of the last observed brainstem reflex or spontaneous breath.
- Target normal respiratory parameters. Bronchoscopy as required. Continue physiotherapy.
- If testing is planned, check ears for wax.