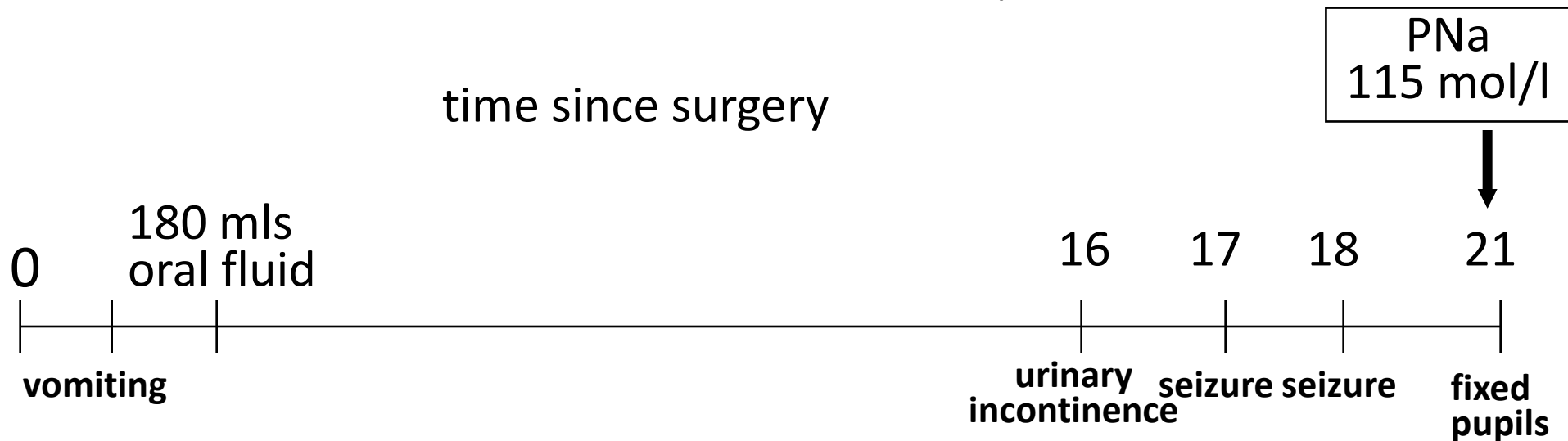


Case number 1: 16 kg previously healthy child post tonsillectomy

Post op fluid order 0.3 NaCl 3.3% dex at 55 mls/hr

0.3 NaCl contains 50 mmol/l sodium

time since surgery



55 mmol Na 700 mls iv EFW + 180 mls oral

Notes on cases

4 surgical cases of acute hyponatraemia.

3 admitted to the PICU at The Hospital for Sick Children following brain stem coning. The fourth was reviewed by the Paediatric Death Review Committee at the Office of the Chief Coroner of Ontario. All autopsies performed at the Hospital for Sick Children

All were previously healthy

All had received substantial amounts of hypotonic saline either as 0.2 or 0.3 NaCl

All died within 48 hrs of presentation with apnoea

All had full autopsy and neuro-imaging review

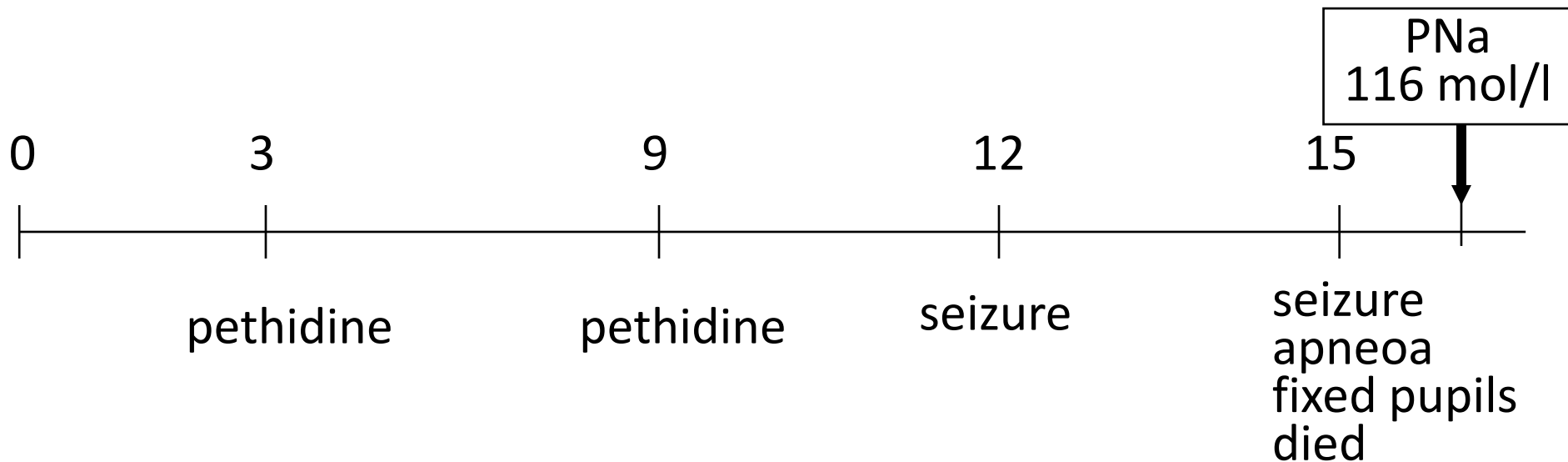
No other neurological abnormalities were found

Electrolyte Free Water (EFW) is the amount of iv fluid given that has no sodium in it – equivalent in volume terms to 5% dextrose

Case number 2: 15 kg previously healthy child post tonsillectomy

Post op fluid order 0.2 NaCl 5% dex at 80 mls/hr

Received 1200mls fluid and 42 mmol sodium
Approx 1000 mls EFW



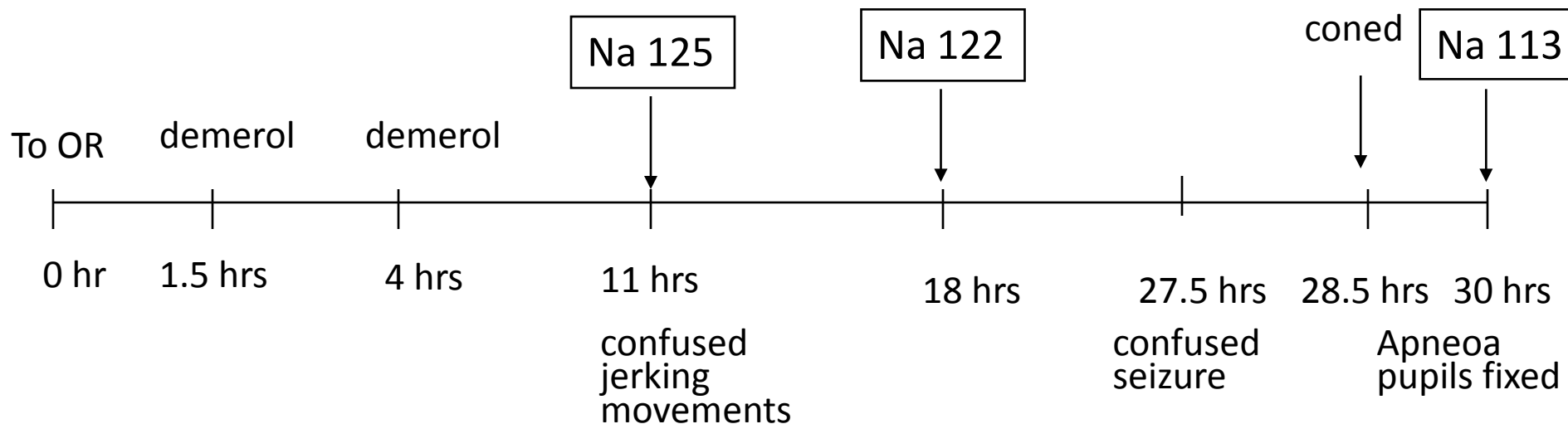
Case number 3: 9 year old child post appendicectomy

Intra op Ringer's lactate, post op 0.3 NaCl, 3.3% dextrose

total fluid in 2600
Na in 234 mmol
1000 mls EFW

positive balance 1750 mls
10% increase in TBW

total fluid out
urine 150 mls
vomit 700 mls



Case number 4: 50 kg previously healthy child post op fracture fixation

Received 2500 mls fluid and 42 mmol sodium
Approx 1000 mls EFW

