Syndrome of inappropriate antidiuretic hormone secretion diagnosis

Essential features

- decreased effective serum osmolality (<275 mOsm/kg of water)
- simultaneous urine osmolality>100 mOsm/kg of water
- clinical euvolemia
- a) no clinical signs of extracellular (EC) volume orthostatic hypotension (orthostasis, tachycardia, decreased skin turgor, dry mucous membranes...)
- b) no clinical signs of excess EC volume (edema, ascites...)
- urinary [Na]>40 mEq/L with normal dietary Na intake
- normal thyroid and adrenal function
- no recent diuretic use

Supplemental features

- plasma [uric acid]<4mg/dl
- [BUN]<10mg/dl
- ♠ fractional Na excretion >1%; fractional urea excretion >55%
- NS infusion test:failure to correct hyponatremia with IV infusion of 2L 0.9% saline over 24-48hrs
- correction of hyponatremia with fluid restriction
- abnormal result on water load tests:
- a) <80%excretion of 20 ml of water/kg body weight over 5 hours, or
- b) inadequate urinary dilution (<100 mOsm/kg of water) elevated plasma [ADH] with hyponatremia and euvolemia
- a effective osmolality (AKA tonicity)=(measured osmolality) [BUN]/2.8 with [BUN] measured in mg/dl
- b this test is used in uncertain cases (corrects volume depletion) and is usually safe when baseline urine osmolality is<500 mOsm/L
- c water load test & [ADH] levels are rarely recommended.

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