

DI and SIADH Cheat Sheet

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D

DECREASED ADH

Causes: Neurogenic - hypothalamus or pituitary lesion causes decreased synthesis, transport and release of ADH. Nephrogenic - inadequate response at the kidney tubules to ADH. Results in dilute urine.

Signs and Symptoms: polydipsis, polyuria, hypernatremia, change in mental status, fatigue, weakness, hemodynamic instability.

Diagnosis: DDAVP test. A pt with neurogenic DI will respond by having an increase in urine osmolality concentration.

Treatment: *Neurogenic* - 100-200 mU/h DDAVP with isotonic crystalloid. *Nephrogenic* - Chlorpropamide, clofibrate and thiazide diuretics.

SIADH

INCREASED ADH RELEASE

Cause: small cell lung carcinoma - (50% of these pt's develop SIADH). Medications that stimulate the release of ADH: chlorpropamide (sulfonylurea), clofibrate (fibrate), thiazide diuretics, antineoplastic agents.

Signs and symptoms: Nausea, weakness, lethargy, confusion, depressed mental status, seizures

Lab values: hyponatremia, decreased serum osmolality, normal/increased Na+ excretion, normal/increased urine osmolality

Treatment: Surgery to treat primary malignancy. Free water restriction (500-1000mL/day). Demeclocycline: inhibits ADH at distal tubule. Convaptan: V2R antagonist (vasopressin 2 receptor). Severe hyponatremia (<115mEq): 3% NS or 0.9% NS with furosemide.

Anesthetic considerations: Replacement Na+ slowly to prevent *pontine myelinolysis*



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Published 4th March, 2020. Last updated 4th March, 2020. Page 1 of 1. Sponsored by **CrosswordCheats.com**Learn to solve cryptic crosswords!
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