



<800 ml/day

- Decreased water
- increased insensible losses
- use of diuretics
- GI Loss
- Heat injury. (1)(3)

❖ Treatment: Replace free water\* (3)

>1000ml/day

- Osmotic Diuresis
- Mannitol use
- Hyperosmolar non ketotic coma
- Enteral feeding. (1)(3)

❖ Treatment: Address underlying cause  
❖ Correct glucose level  
❖ Reduce rate of enteral feeds  
❖ Replace free water (3)

NO

- Nephrogenic Diabetes Insipidus
- Renal tubular disease
- Chronic loop diuretics
- Electrolyte abnormalities
- Lithium toxicity
- Low sodium diet with thiazide diuretics
- Low protein diet
- NSAIDs. (3)

❖ Treatment: Address underlying cause if possible

YES

- Central Diabetes Insipidus
- ❖ Treatment: Dose arginine vasopressin at 10-40 µg intranasal TID in divided doses  
OR 1-2µg SC /IV BID (3)

❖ After Correction of all underlying causes \*

1) Total H<sub>2</sub>O deficit (L)= total body water ×  $1 - \left[ \frac{\text{desired Na}}{\text{serum Na}} \right]$

2) Adrogue Formula: Change in serum Na =  $\frac{(\text{Infusate Na} + \text{Infusate K}) - \text{Serum Na}}{\text{Total body water} + 1}$

3) The rate of correction should not exceed changes of 0.5 mEq/L/hr in plasma Na over 12-24 hrs. (4) (5)

❖ References:

- (1) AAFP
- (2) Medscape
- (3) The Washington Manual of Critical Care
- (4) Applied Therapeutics (The Clinical Use of Drugs)
- (5) Medcalc.com
- (6) Globalrph.com