CYCLIC AMP AND SOME RENAL TUBULAR DYSFUNCTION

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Cyclic adenosine 3',5'-monophosphate(c-AMP) and its dibutyryl derivative (DBc-AMP) were given intravenously, either as a single shot in two different dosages (c-AMP: 6 and 10 mg/kg, DBc-AMP 5 mg/kg) or as an infusion for 45 to 60 minutes (c-AMP: 0.5 mg/kg/min, DBc-AMP: 0.2 mg/kg/min) to six patients with nephrogenic diabetes insipidus (NDI), to one boy with cystinosis and to one girl with Bartter's syndrome. c-AMP as a single shot or as an infusion was unable to reduce, in a constant and reproducible manner, urine volume (V) and free water clearance (C_{H_2O}) in NDI patients and in the cystinosis patient. DBc-AMP given to the same patients regularly did increase these parameters. In contrast to this, in the patient with Bartter's syndrome, both c-AMP and DBc-AMP reduced V and C_{H_2O} significantly.

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ALPHA₁ ANTITRYPSIN (α_1 AT) AND LIVER DISEASE.

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