| Clinical | pharmacokinetics | of furosemide in | children v | with nephrotic | syndrome |
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The pharmacokinetic disposition of furosemide has been investigated in seven children with nephrotic syndrome and in eight control children. Furosemide in plasma was analyzed by spectrofluorometry. After a single intravenous dose of furosemide (1 mg/kg body wt.) the nephrotic children showed lower initial plasma concentrations because of the larger volume of distribution. The mean half-life of furosemide in nephrotic children (38.5 ± 7.8 min) was significantly longer than in the control group (28.0 ± 7.7 min). The two groups did not differ in the body clearance of total furosemide. The average serum clearance was 4.95 ± 1.7 ml/min/kg body wt. in the control group and 5.10 ± 1.4 ml/min/kg body wt. in the nephrotic children. There was a significant reduction in urine sodium and distribution volume, whereas potassium excretion remained unchanged.