Children who lost weight, regardless of therapeutic regimen, showed a reduced growth velocity (90·1 ± 22·2%) compared to those who gained weight (99·6 ± 24·5%) but the difference was not statistically significant and did not correlate with the amount of weight lost. Children who received diet plus fenfluramine showed a mean growth velocity of 82·3 ± 23·6% compared to diet alone and 99·9 ± 26·4% for diet plus chlorphentermine or diethyl propion. The difference was only significant at the 10% level.

In view of the doubtful value and possible dangers of anorectic drugs in childhood, careful monitoring of the growth of obese children treated with these agents is indicated.

British Association of Paediatric Nephrology

C. Chantler, J. S. Cameron, R. H. R. White, and C. S. Ogg. Guy's Hospital, London and Birmingham Children's Hospital. 'Long-term stability of remission in the nephrotic syndrome after treatment with cyclophosphamide'. 57 children with the nephrotic syndrome and minimal changes on renal biopsy, who had relapsed repeatedly, were treated with cyclophosphamide from 1966 to 1969. At that time an initial dose of 5 mg/kg per day was used, and leucopenia maintained for an average of 12 weeks. All these children have now been followed for more than 4 years since the end of their treatment, some for 7 years.

At present, 18 children still remain in remission, 35 have relapsed, and 4 are dead, 2 in relapse. One child died of measles pneumonia shortly after treatment with cyclophosphamide, and another died of cerebral tumour in 1973. One other child developed Hodgkin's disease also in 1973, aged 19.

The rate of relapse has been exponential over the first 5 years after treatment with a half-time of 3 years. This compares favourably with the near 100% relapse rate in similar children treated with corticosteroid withdrawal alone, but it is no better over the first 2 years than cyclophosphamide treatment at 3 mg/kg per day for 8 weeks. There was no suggestion that remissions were more stable in those treated for longer periods, nor did stability of remission relate to age or the duration of disease before treatment. These data permit a better assessment of benefit versus toxicity in the treatment of relapsing nephrotic children.

S. R. Meadow. Department of Paediatrics and Child Health, Leeds. 'Poststreptococcal nephritis—a rare disease?'. (To be published in full in the Archives.)

M. J. Dillon and Jennifer Ryness. The Hospital for Sick Children and Institute of Child Health, London. 'Plasma renin activity and aldosterone concentration in children'. The central role of the renin angiotensin aldosterone system in the control of salt balance and blood pressure is well established. However, only limited data are available in children because of the large volumes of blood hitherto required for the estimation of plasma renin activity and aldosterone concentration.

For this reason, semimicro methods for the measurement of plasma renin activity (PRA) by radioimmunoassay (angiotensin I generation rate) and plasma aldosterone concentration (PA1do) by radioimmunoassay have been developed utilizing 0·5 ml and 1·0 ml plasma, respectively.

It was found that in healthy children on free diets the PRA varied inversely with age. In infants the mean value was 1392 pgAI/ml per hr with a progressive decrease through childhood to the mean adult value of 87 pgAI/ml per hr. There was some evidence of a negative correlation between PRA and sodium turnover, estimated from the urinary sodium/creatinine ratio. The mean value for PA1do in children over the age of 1 year was 6·2 ng/100 ml, but in infants was 20·2 ng/100 ml.

PRA was in the range from 1000–200 pgAI/ml per hr in several hypertensive children, without PA1do necessarily being above the upper limit of normal. On the other hand, in children with salt-losing states PRA was much greater, usually over 10,000 pgAI/ml per hr, and in the majority of these children PA1do was over 30 ng/100 ml.

S. Meller. Queen Mary's Hospital for Children, Carshalton. 'Significance of bacteriuria in Cardiff schoolgirls'. Over a 2-year period all infant and junior schools in the City of Cardiff were visited by a mobile bacteriuria screening laboratory. 11,939 girls aged 5 to 11 (89% of the total population) were screened, at an estimated cost of 75 pence per child. Bacteriuria was confirmed in 207 girls, a prevalence of 1·7%. Full clinical and radiological data were obtained in 180 children who are participating in a randomized controlled trial of treatment.

Although some urinary symptoms were common, notably incomplete bladder control and offensive urine, few children had a history suggestive of serious infection past or present. As a group, their general health was good and they were of normal stature. However radiological evidence of pyelonephritis was found in 26% and vesicoureteric reflux in 34%. 74 children have completed the first year of follow-up. In the control group, 24% had a spontaneous bacteriological remission without treatment. In the treatment group, 19% had a recurrence within 6 months and 54% within 12 months of a successful short course of appropriate antibiotic: 11% continued to have bacteriuria despite repeated courses of treatment.

Although screening for bacteriuria in this age group identifies one child with pyelonephritis out of every 260 girls examined, it has yet to be shown that a treatment programme can influence the natural history of the condition.

Anna Murphy. Royal Hospital for Sick Children, Glasgow. 'Renal venous thrombosis in hypertonic dehydration'. Renal venous thrombosis is a well-recognized clinical entity of early infancy. The typical case is characterized by renal enlargement, haematuria, uraemia, and thrombocytopenia. In the Royal Hospital
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