

Dialysis dose, nutrition and growth among pediatric patients on peritoneal dialysis Dosis de diálisis nutrición y crecimiento en diálisis peritoneal pediátrica

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Background: Stunting is common among pediatric patients on peritoneal dialysis. **Aim:** To establish the best profile for urea kinetic variables associated to growth in children on chronic peritoneal dialysis (PD). **Patients and Methods:** Twenty patients, aged 1 month to 14 years, 23 males, were followed for 6-12 months, with monthly measurements of weight/age and height/age Z score; plasma creatinine, BUN, protein and albumin and urine and dialysate urea nitrogen, creatinine, protein and albumin. Minimum total Kt/V was 2.1. Dialysis dose (Kt/V), Protein Equivalent of Urea Nitrogen Appearance (PNA), Protein Catabolic Rate (PCR) and Nitrogen Balance (NB) were calculated. To identify the variable(s) associated to growth, the Tree Classification Model (CART) Enterprise Miner 8.1 was applied. **Results:** Mean total/residual Kt/V: $3.4 \pm 1.3 / 1.69 \pm 1.27$; Daily Protein Intake (DPI) was 3.25 ± 1.27 g/kg/day. nPNA, PCR and NB were 1.37 ± 0.44 , 0.84 ± 0.33 and 1.86 ± 1.25 g/kg/day, respectively. Mean height/age Z score