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Currently, urea kinetic modeling is routinely accepted to evaluate peritoneal dialysis (PD) through the calculation of Kt/V (normalized whole body urea clearance) and nPNA (normalized protein equivalent of total nitrogen appearance). In paediatrics, the exact meaning and target values for these parameters are still under debate. Objective: to evaluate the mean values and correlations between ureaKt/V and nutritional parameters in chronic paediatric peritoneal dialysis. Patients and Methods: 186 nitrogen balance studies in a 6-12 month period were prospectively performed in patients on PD. Daily protein intake (DPI) was assessed by nutritional evaluation. Protein, albumin, urea and creatinine were analysed in dialysate and urine, collected once a month. Dialysis adequacy was evaluated through monthly measurements of ureaKt/V and creatinine clearance (CCr) in urine and dialysate. All statistical comparisons were done with paired t-test, and 2 way ANOVA for repeated measures was used to