

복막투석 환자의 예후를 예측하는 인자로서 총 단백 복막 청소율의 의의

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Significance of Peritoneal Protein Clearance in Peritoneal Dialysis Patients

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Purpose: Recently, it has been reported that peritoneal protein clearance (Pcl) is a marker of endothelial dysfunction and cardiovascular disease in peritoneal dialysis patients. We evaluated whether baseline or longitudinal follow-up Pcl is a factor to predict outcome in peritoneal dialysis patients for follow up period.

Methods: Patients who initiated continuous ambulatory peritoneal dialysis at our center from September 1994 to January 2006 and had a baseline peritoneal equilibration test, measurement of dialysis adequacy, and 24-h dialysate Pcl (24hr dialysate protein loss/ [serum albumin/0.4783]) were included. Demography, comorbidities, and biochemical data were retrospectively collected. Follow-up was until death or the end of the period studied (November 2009).

Result: A total of 203 patients (56% men, mean age 55.0 ± 12.5 ; 55.2% with diabetes; 22.2% with cardiovascular disease) were included. Mean follow up period was 38 months (3–170 months). Baseline Pcl was 128.2 ml/day. Follow up data of Pcl were not changed from baseline period. Cox's analysis revealed the predictors of mortality (and technical failure) were age and diabetes mellitus but not dialysate/plasma creatinine ratio (D/Pcr) and Pcl. On multivariate analysis, Pcl was negatively correlated with serum albumin and triglyceride and positively correlated with D/Pcr and peritoneal creatinine clearance.

Conclusion: Our study showed that the changes in Pcl with time were not significant from baseline up to 53 months. Neither baseline nor mean Pcl during the follow-up period were independent predictors for technical or patient survival.

Key Words: 복막액, 복막투석, 예후

Peritoneal fluid, Peritoneal dialysis, Treatment outcome