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Comparison of short and long-term survival of PD and HD: 10-year Experience from a Single Center

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Objectives: Survival comparison between peritoneal dialysis (PD) and hemodialysis (HD) is a controversy. We compared 10-year survival rate between PD and HD patients.

Methods: Retrospective analysis were done with patients initiating PD or HD between August 1st, 2005 and November 30th, 2021 in Konkuk University Medical Center. Primary outcome was survival rate by Kaplan-Meier method, and main predictor was dialysis modality. Sensitivity analysis was performed with multivariable cause-specific hazard model. Analysis was done by censored and as-treated model. In the censored model, switching to a different dialysis modality was censored. In the as-treated model, patients switching to a different dialysis modality was re-enrolled to the changed dialysis modality. In the censored model, 331 HD patients and 134 PD patients were analyzed. In the as-treated model, 364 HD patients and 136 PD patients were analyzed.

Results: Median follow up was 3.42(1.36-5.63) years in PD and 3.82(4.56-3.67) years in HD. In censored model, PD survival rate of 1, 3, 5, 10-year were 95.0%, 86.0%, 75.5%, and 46.6, respectively, and HD survival rate of 1, 3, 5, 10-year were 91.4, 78.7%, 68.6%, and 46.3% (Log-rank test, $P=0.28$), respectively. In as-treated model, PD survival rate of 1, 3, 5, 10-year were 95.1%, 86.3%, 76.1%, and 46.5%, respectively and HD survival rate of 1, 3, 5, 10-year were 91.9%, 80.0%, 70.2%, and 45.1% ($P=0.39$), respectively. In censored model, hazard ratio of PD survival rate compared to HD in 1, 3, 5, 10-year were 0.95(0.50-1.79), 1.01(0.55-1.84), 1.02(0.56-1.86), and 1.03(0.58-1.85), respectively. In as-treated model, hazard ratios of PD survival rate compared to HD in 1, 3, 5, 10-year were 0.97(0.52-1.83), 1.03(0.56-1.91), 1.07(0.59-1.94), and 1.03(0.57-1.85), respectively.

Conclusions: Short and long-term survival analysis was comparable in the PD patients and HD patients in this single center analysis. However, more patients switched from PD to HD, compared HD to PD.