

IMPACT OF PERITONITIS EPISODES ON TRANSITION FROM PERITONEAL DIALYSIS TO HEMODIALYSIS

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Background and Aims:

Peritonitis is a frequent complication in peritoneal dialysis (PD) patients, which is associated with transfer to hemodialysis¹.

This study aims to quantify the effect of acute peritonitis episodes on the transition to hemodialysis.

Methods:

This retrospective cohort study included patients who started peritoneal dialysis from 1st January 2019 till 31st December 2023. Data were collected from the PD patient registry and were analyzed using Pearson Chi-squared test (IBM SPSS Statistics).

Results:

201 patients (112 male, median age 56 years (age range 20-87)) were included in the study. Most patients continued PD (n=82 (40.8%)), 53 (26.4%) died, 27 (13.4%) were switched to hemodialysis; and 39 (19.4%) received kidney transplants. Among those who were switched to hemodialysis, 11/27(40.7%) had no peritonitis episodes; 13/27(48.1%) had one peritonitis episode, and 3/27 (11.1%) had more than two peritonitis episodes. The Pearson Chi-Square test indicated significant association between number of PD peritonitis episodes and the transition to hemodialysis $\chi^2(2, N=109)= 11.96, p = 0.003$.

Conclusion:

A high proportion of patients who switched to hemodialysis experienced at least one episode of peritonitis. Even the one peritonitis episode may be the risk factor for transition to hemodialysis. Additionally, other clinical parameters may also play a role in transition to hemodialysis.