

High systemic immune-inflammation index tied to higher mortality with peritoneal dialysis

September 22 2023, by Lori Solomon



An elevated systemic immune-inflammation index (SII) is independently associated with increased risks for all-cause and cardiovascular-specific mortality in patients undergoing peritoneal dialysis, according to a study published online Aug. 31 in the *Journal of Inflammation Research*.

Guanglan Li, from the First Affiliated Hospital at Sun Yat-sen University in Guangzhou, China, and colleagues investigated the relationship between the SII and all-cause and cardiovascular-specific mortality in patients undergoing [peritoneal dialysis](#). The analysis included 1,419 patients receiving peritoneal [dialysis](#) (2007 through 2019) with a median follow-up of 42 months.

The researchers found that each one standard deviation increase in the SII was associated with increased all-cause mortality (hazard ratio, 1.202) and cardiovascular-specific mortality (hazard ratio, 1.280) in an adjusted analysis. Compared with low SII, high SII was significantly associated with increased risks for all-cause mortality (hazard ratio, 1.391) and cardiovascular-specific mortality (hazard ratio, 1.637). In subgroup analyses of participants younger than 65 years, results were similar.

"Elevated SII level was independently associated with increased risks of all-cause and cardiovascular disease mortalities in patients undergoing peritoneal dialysis, especially for those younger than 65 years old," the authors write. "Application of the SII in [clinical practice](#) in predicting mortality for patients undergoing peritoneal dialysis requires further multicenter prospective studies."

More information: Guanglan Li et al, Systemic Immune-Inflammation Index Was Significantly Associated with All-Cause and Cardiovascular-Specific Mortalities in Patients Receiving Peritoneal Dialysis, *Journal of Inflammation Research* (2023). [DOI: 10.2147/JIR.S426961](#)

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