

Mean platelet volume linked to mortality in peritoneal dialysis patients

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For patients treated with peritoneal dialysis (PD), mean platelet volume (MPV) is associated with all-cause mortality and cardiovascular mortality, according to a study published online Nov. 8 in *BMC Cardiovascular Disorders*.

Jianghai Wang, from the Dongying People's Hospital in China, and colleagues estimated the relationship between MPV and all-cause and cardiovascular mortality among 1,322 [patients](#) treated with PD. The associations were assessed in three models: Model 1 was unadjusted; model 2 was adjusted for age, gender, Charlson comorbidity index, diabetes, hypertension, premorbid cardiovascular diseases, body mass index, and antiplatelet medication; and model 3 had further adjustment for hemoglobin, albumin, triglyceride, [high-density lipoprotein cholesterol](#), and low-density lipoprotein cholesterol.

A total of 360 deaths were recorded during a median follow-up of 50 months. The researchers found that the risk for all-cause mortality was considerably higher among patients with MPV ≥ 10.2 fL in all three models (hazard ratios, 0.68, 0.70, and 0.73, respectively). The risk for cardiovascular mortality was also higher among patients with MPV ≥ 10.2 fL in models 1, 2, and 3 (hazard ratios, 0.63, 0.66, and 0.69, respectively).

"Our findings suggest that high levels of MPV (MPV ≥ 10.2 fL) is an independent hazards and biological marker for all-cause and [cardiovascular mortality](#) in patients treated with PD," the authors write.

More information: Jianghai Wang et al, Mean platelet volume and the association with all-cause mortality and cardiovascular mortality among incident peritoneal dialysis patients, *BMC Cardiovascular Disorders* (2023). [DOI: 10.1186/s12872-023-03551-x](https://doi.org/10.1186/s12872-023-03551-x)

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