

Low blood pressure during hemodialysis may indicate peripheral vascular disease

11 December 2020



frequent IDH warrant careful examination for PAD such as foot examinations or other diagnostic evaluations.

More information: Eun Young Seong et al, Intradialytic Hypotension and Newly Recognized Peripheral Artery Disease in Patients Receiving Hemodialysis, *American Journal of Kidney Diseases* (2020). [DOI: 10.1053/j.ajkd.2020.10.012](https://doi.org/10.1053/j.ajkd.2020.10.012)

Provided by National Kidney Foundation

Credit: CC0 Public Domain

Using a large nationwide registry of patients receiving maintenance hemodialysis, this study published in the *American Journal of Kidney Diseases* found that higher frequency of low blood pressure episodes during hemodialysis was associated with a higher incidence of diagnosed peripheral arterial disease.

Peripheral artery disease (PAD) is a condition characterized by progressive atherosclerotic narrowing or occlusion of the arteries, particularly to the lower extremities. PAD often goes undiagnosed in patients with kidney failure who may not experience traditional symptoms of claudication. It is plausible that sudden reductions in [blood pressure](#) as occurs during intradialytic hypotension (IDH) could reduce limb perfusion and lead to more PAD events or exacerbate PAD symptoms. Using a large nationwide registry of hemodialysis patients and the electronic health records of a large dialysis provider, researchers found that more frequent IDH was associated with a [higher incidence](#) of recognized PAD.

These results suggest that patients with more

APA citation: Low blood pressure during hemodialysis may indicate peripheral vascular disease (2020, December 11) retrieved 29 May 2021 from <https://medicalxpress.com/news/2020-12-blood-pressure-hemodialysis-peripheral-vascular.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.