

# Many dialysis patients may not understand important health information

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Many patients on dialysis may not understand medical information critical to their wellbeing, according to a study appearing in an upcoming issue of the *Clinical Journal of the American Society Nephrology* (CJASN). The results suggest that clinicians must understand and address the limited health literacy of patients with kidney disease.

Patients with limited health literacy—the ability to obtain, process, and understand health information in order to make appropriate health decisions—may not fully understand written [medical information](#), may not be able to communicate effectively with healthcare providers, or navigate the increasingly complex healthcare system. Studies suggest that limited health literacy may negatively affect patients' wellbeing and increase healthcare costs.

Health literacy is particularly important for kidney patients undergoing [dialysis](#). They must attend treatment sessions several days a week, follow dietary and fluid restrictions, and adhere to complex medication regimens, all of which require patients to understand and act on complicated health-related information. Jamie Green, MD (University of Pittsburgh) and her colleagues tested 260 patients on long-term dialysis with a tool that assesses one's ability to read common medical words and lay terms for body parts and illnesses.

The investigators found that 16% of the patients on dialysis (41 of the 260 patients) had limited health literacy. There are currently more than 350,000 patients in the United States on dialysis, so this represents a

significant number of individuals who could benefit from being better able to understand and manage their kidney health. While limited health literacy was present in all subgroups of patients, those with lower educational levels, African Americans, and veterans were less likely to effectively obtain and process relevant health information.

Patients with less than a high school education exhibited more than a 12-fold increased risk of low health literacy, and African Americans and veterans had more than a 3-fold increased risk of having limited health literacy. The researchers are currently following these individuals to determine if limited health literacy affects how patients adhere to dialysis treatment, whether they undergo kidney transplantation, and whether they die prematurely.

"We anticipate our findings will increase awareness of the importance of health literacy in patients with [kidney disease](#), stimulate providers to consider literacy when communicating with patients, and lead to future studies to address limitations in health literacy," said Green.

**More information:** The article, entitled "Prevalence and Demographic and Clinical Associations of Health Literacy in Patients on Maintenance Hemodialysis" will appear online on May 5, 2011, [doi 10.2215/CJN.09761110](#)

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