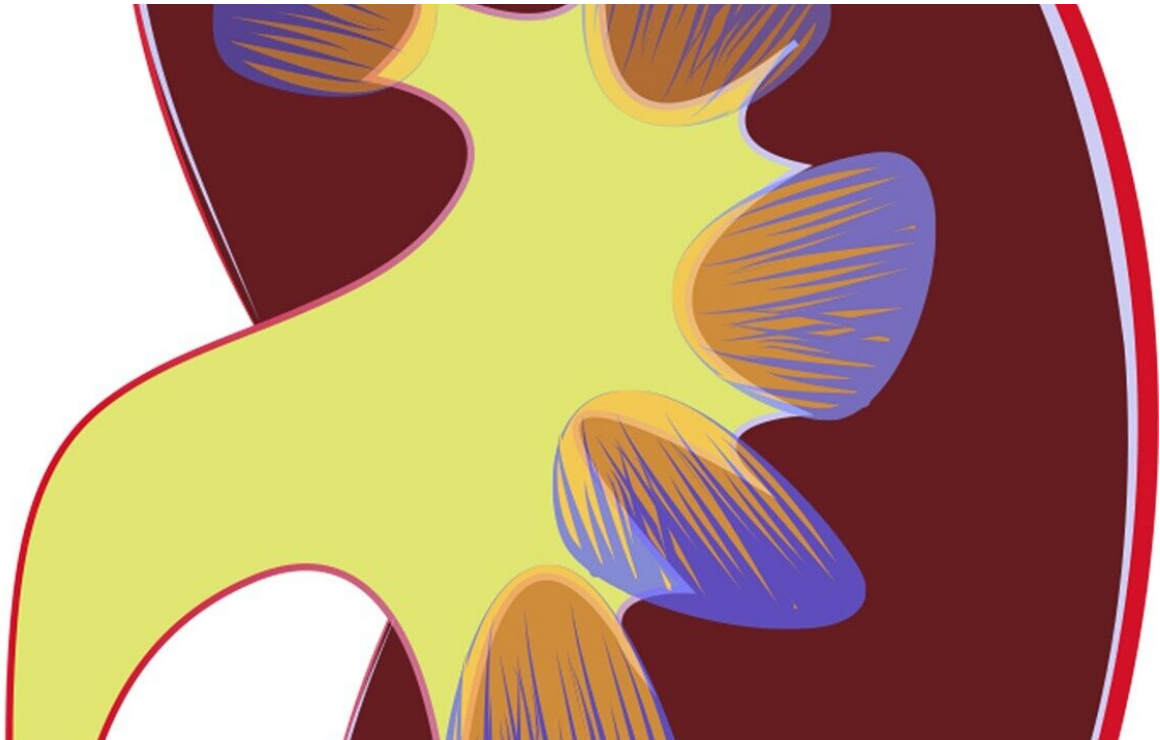


Most quality metrics for kidney disease fall short

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Chronic kidney disease (CKD) affects 14 percent of adults in the U.S. There are several stages of CKD, but when it progresses to kidney failure, outcomes are quite poor, with those patients dying at a higher rate than patients with most advanced cancers. Patients who go on dialysis face both an exhausting treatment regimen and a high rate of

death with 50 percent of patients dying within three years. Last July, the U.S. Department of Health and Human Services launched the Advancing American Kidney Health initiative to try to improve kidney care. But this raised an important question in the medical community: How do you measure the quality of kidney care and the success of new innovations? A study published in the *Journal of the American Society of Nephrology* evaluated national kidney disease quality metrics—the benchmarks used today to measure kidney disease progression, patient outcomes and more—and found that more than half were of middle or low quality.

"As a nephrologist, I see patients with [chronic kidney disease](#) and end-stage renal disease, and when we discuss dialysis, they ask me, 'Is that all there is? Why aren't there innovative treatments for kidney disease like there are for other diseases?'" said corresponding author Mallika Mendu, MD, MBA, medical director for Quality and Safety at Brigham and Women's Hospital, director of Quality for the Brigham Renal Division, and a practicing nephrologist. "One of the reasons is that success is contingent on getting the details right. When we measure quality of care to determine if a treatment is working for a patient, we need to be certain we're measuring the right thing."

Mendu and other members of the American Society of Nephrology Quality Committee evaluated 60 existing kidney quality metrics from multiple kidney and quality organizations. These included metrics for CKD prevention, slowing CKD progression, kidney replacement planning, and dialysis management, among others. The team evaluated the measures based on a set of criteria, including whether the metric led to meaningful improvements and appropriate care, whether it was based on high-quality evidence, and more. Based on their defined criteria, they found that 29 of the metrics (less than half) had high validity, 23 had medium validity and 8 had low validity.

The team advocates for shifting the focus to metrics that matter most to

the patient and most accurately reflect kidney health or [disease](#) progression, for example the "optimal starts" [metric](#) which measures how many patients start dialysis as an outpatient on home dialysis or receive a transplant before they need dialysis.

"We think about quality and safety metrics on a daily basis, but we need to understand which metrics truly reflect and drive the care improvements that matter to our patients," said Mendu. "Being in the quality and safety space has given me an appreciation for why defining metrics accurately matters so much. When done well, metrics can foster improvements in care. We think the findings from our study will help to inform policy, regulation and legislation moving forward. We believe that this study is timely in light of the Advancing American Kidney Health initiative, which has the potential to advance [kidney](#) care if success is defined and measured accurately."

More information: Mendu, M et al. "Measuring Quality in Kidney Care: An Evaluation of Existing Quality Metrics and Approach to Facilitating Care Delivery Improvements" *Journal of the American Society of Nephrology* (2020). [DOI: 10.1681/ASN.2019090869](https://doi.org/10.1681/ASN.2019090869)

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