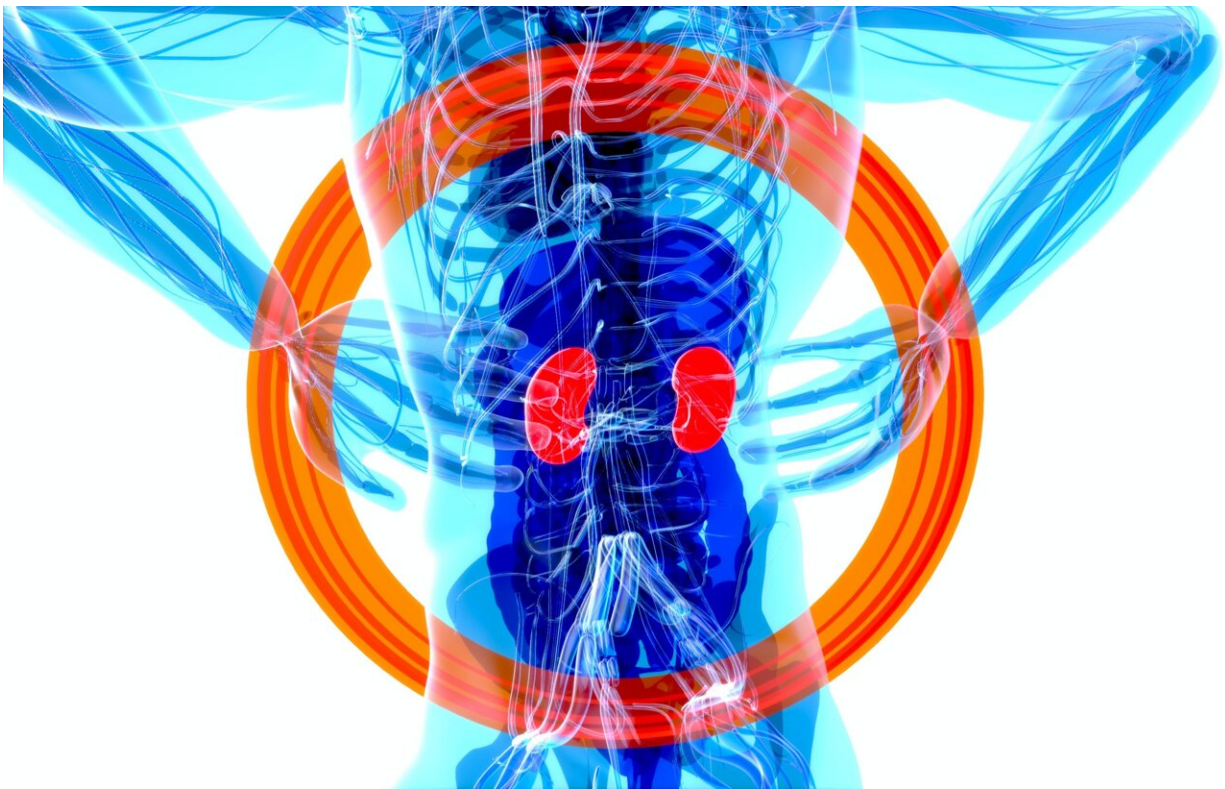


Acute kidney injury not associated with worsening kidney function in persons with CKD: Study

July 10 2023



Credit: Unsplash/CC0 Public Domain

A study of hospitalized persons with chronic kidney disease (CKD) found that acute kidney injury (AKI) did not predict worsening of

kidney function trajectory once difference in pre-hospitalization characteristically were fully accounted for. Instead, the authors suggest that much of determinants of faster kidney disease decline observed after AKI may already be present before AKI. The findings are published in *Annals of Internal Medicine*.

Many now believe that AKI is an [independent risk factor](#) for accelerated loss of kidney function. This has led to changes in research focus, practice patterns, and public health targets. However, prior studies associating AKI with more rapid subsequent loss of kidney function had methodological limitations, including inadequate control for differences between patients who had AKI and those who did not.

Researchers from the University of California, San Francisco and colleagues in the Chronic Renal Insufficiency Cohort (CRIC study) analyzed data from 3,150 persons with CKD to determine whether AKI is independently associated with subsequent kidney function trajectory.

The data showed 612 AKIs in 433 persons with CKD over a median follow-up of 3.9 years. After adjusting for patient characteristics, such as prehospitalization estimated glomerular filtration rate (eGFR) slope and level of proteinuria, AKI did not predict worsening of subsequent kidney function trajectory. Instead, the authors highlight that their results show that much of the [kidney disease](#) observed after AKI may already be present before AKI.

They recommend that clinicians instead focus on flattening the eGFR slope and treating proteinuria. The authors do acknowledge that a diagnosis of AKI does present an opportunity to identify [high-risk patients](#) and implement evidence-based interventions to slow CKD progression.

More information: Risk for Chronic Kidney Disease Progression

After Acute Kidney Injury: Findings From the Chronic Renal Insufficiency Cohort Study, *Annals of Internal Medicine* (2023). DOI: [10.7326/M22-3617](https://doi.org/10.7326/M22-3617)

Provided by American College of Physicians

Citation: Acute kidney injury not associated with worsening kidney function in persons with CKD: Study (2023, July 10) retrieved 29 April 2024 from <https://medicalxpress.com/news/2023-07-acute-kidney-injury-worsening-function.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.