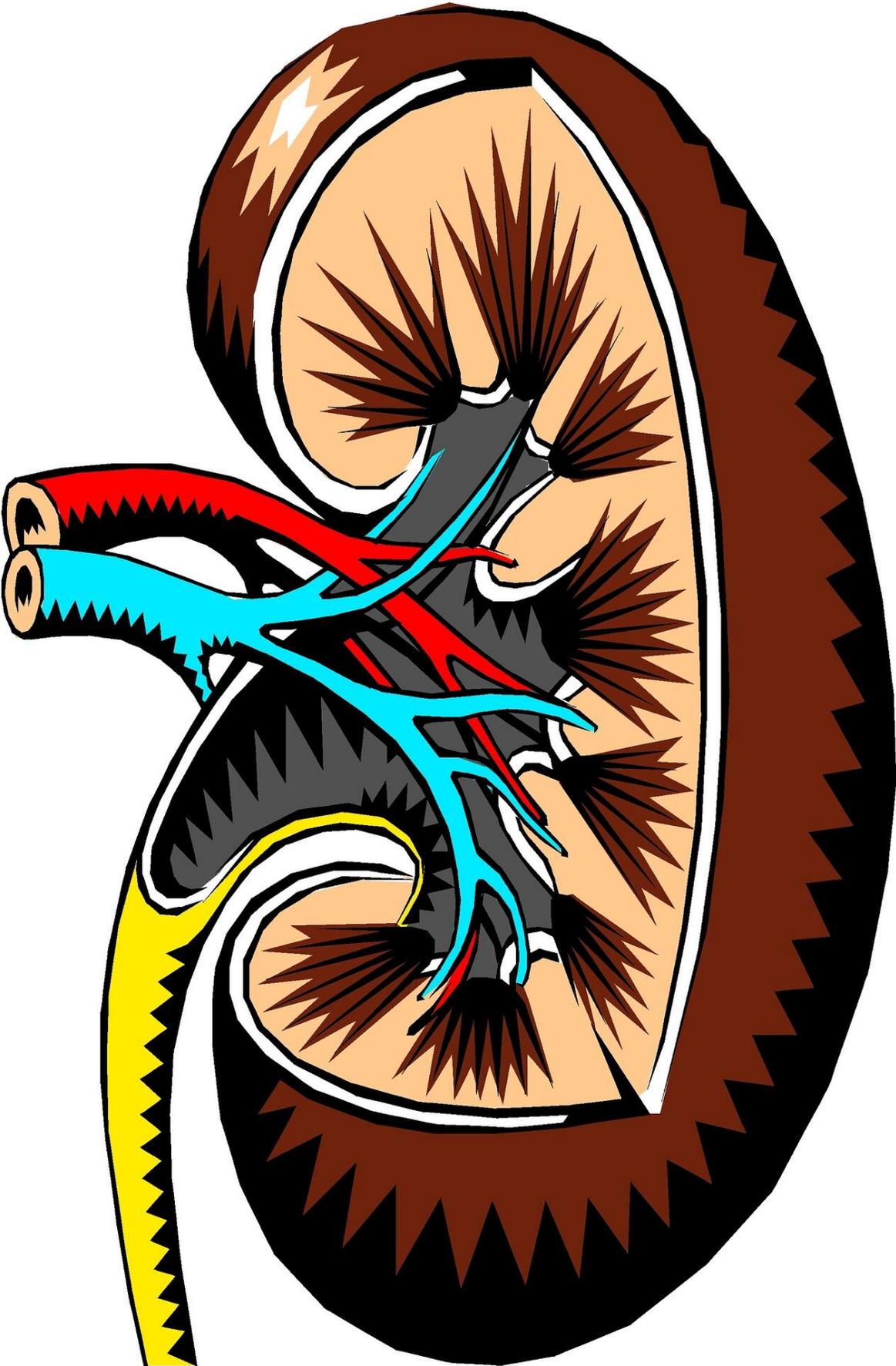


# Diabetes medication class tied to lower risk of kidney stones

January 31 2024

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Rates of kidney stones are on the rise in the United States and around the world. Type 2 diabetes is associated with increased risk of kidney stones, but some forms of treatment for this condition may also have the benefit of lowering risk of kidney stones.

In a study led by investigators from Mass General Brigham, researchers found that there was an association between the use of sodium-glucose cotransporter 2 (SGLT2) inhibitors and a lower risk of developing [kidney stones](#). Their findings are [reported](#) in *JAMA Internal Medicine*.

Researchers from Brigham and Women's Hospital and Massachusetts General Hospital worked together to conduct the analysis. The study included data from three nationwide databases of patients with type 2 [diabetes](#) who were seen in routine clinical practice. The team analyzed information from 716,406 adults with type 2 diabetes who had started taking an SGLT2 inhibitor or two other classes of diabetes medications known as GLP1 receptor agonists or dipeptidyl peptidase 4 (DPP4) inhibitors.

Patients who began taking SGLT2 inhibitors had a 30% lower risk of developing kidney stones than those taking GLP1 agonists and about a 25% lower risk than those taking DPP4 inhibitors. The findings were consistent across sex, race/ethnicity, history of chronic kidney disease and obesity.

"Our findings could help inform clinical decision making for patients with diabetes who are at risk for developing kidney stones," said

corresponding author Julie Paik, MD, ScD, MPH, of the Division of Pharmacoepidemiology and Pharmacoeconomics and the Division of Renal (Kidney) Medicine at Brigham and Women's Hospital.

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**More information:** Julie M. Paik et al, Sodium-Glucose Cotransporter 2 Inhibitors and Nephrolithiasis Risk in Patients With Type 2 Diabetes, *JAMA Internal Medicine* (2024). [DOI: 10.1001/jamainternmed.2023.7660](https://doi.org/10.1001/jamainternmed.2023.7660)

Provided by Mass General Brigham

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