

Kidney stones tied to increased renal cell carcinoma risk

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(HealthDay)—Kidney stones are associated with an increased risk for

renal cell carcinoma (RCC), specifically papillary RCC, and upper tract urothelial carcinoma (UTUC), according to a study published online Dec. 19 in the *British Journal of Cancer*.

Jeroen A.A. van de Pol, from Maastricht University in the Netherlands, and colleagues examined the correlation between [kidney stones](#) and RCC and UTUC among 120,852 participants aged 55 to 69 years. A case-cohort analysis was conducted among 4,352 subcohort members, 544 RCC cases, and 140 UTUC cases after 20.3 years of follow-up.

The [researchers](#) found that compared with no kidney stones, kidney stones correlated with increased RCC risk (hazard ratio [HR], 1.39; 95 percent confidence interval [CI], 1.05 to 1.84). The risk for papillary RCC was increased with kidney stones (HR, 3.08; 95 percent CI, 1.55 to 6.11), but the risk for clear-cell RCC was not (HR, 1.14; 95 percent CI, 0.79 to 1.65). Participants with kidney stones had an increased risk for UTUC (HR, 1.66; 95 percent CI, 1.03 to 2.86). There was no heterogeneity of correlations for UTUC in the ureter and renal pelvis. Compared with later diagnosis, early kidney stone diagnosis (≤ 40 years) correlated with increased RCC and UTUC risk.

"In light of the findings of this study, more research is needed to unravel the mechanisms behind the relation of kidney stones and RCC and UTUC," the authors write.

More information: [Abstract/Full Text \(subscription or payment may be required\)](#)

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