

Predicted albumin-creatinine ratio useful for CKD screening

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(HealthDay)—Predicted albumin-creatinine ratio (ACR) calculated from



urine protein-creatinine ratio (PCR) or urine dipstick protein may be useful for chronic kidney disease (CKD) screening, staging, and prognosis, according to research published online July 14 in the *Annals of Internal Medicine*.

Keiichi Sumida, M.D., M.P.H., Ph.D., from the University of Tennessee Health Science Center in Memphis, and colleagues developed equations for converting urine PCR and dipstick protein to urine ACR and to test their diagnostic accuracy in CKD <u>screening</u>. Data were included from 12 research and 21 clinical cohorts, with 919,383 adults.

The researchers found that for PCR values 30 mg/g) and classification into stages A2 and A3, respectively, for higher PCR values. For screening for ACR values >30 mg/g and classification into stages A2 and A3, <u>urine</u> dipstick categories of trace or greater, trace to +, and ++, respectively, had moderate sensitivity (62, 36, and 78 percent, respectively) and high specificity (88, 88, and 98 percent). The estimated two-year four-variable kidney failure risk <u>equation</u> using predicted ACR from PCR had discrimination similar to that of observed ACR for individual risk prediction.

"Predicted ACR may be useful and informative for harmonization across research studies, CKD screening and classification efforts, and use in risk prediction equations," the authors write.

More information: <u>Abstract/Full Text (subscription or payment may</u> <u>be required)</u> <u>Editorial (subscription or payment may be required)</u>

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