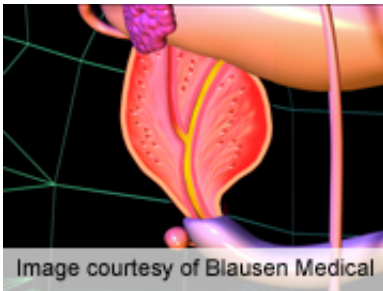


PCA3 assay ups predictive accuracy for repeat biopsy

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For men with at least one prior negative biopsy, urinary PCA3 scores, together with serum prostate-specific antigen and other clinical information, improve the prediction accuracy for repeat biopsy outcome, according to a study published in the July issue of *The Journal of Urology*.

(HealthDay)—For men with at least one prior negative biopsy, urinary PCA3 scores, together with serum prostate-specific antigen and other clinical information, improve the prediction accuracy for repeat biopsy outcome, according to a study published in the July issue of *The Journal of Urology*.

Marc C. Gittelman, M.D., from South Florida Medical Research in Sarasota, and colleagues examined the clinical utility of the PROGENSA PCA3 Assay for predicting repeat [prostate biopsy](#) outcome. A total of 466 men with at least one prior negative prostate biopsy were enrolled in the study.

The researchers identified [prostate cancer](#) in 21.9 percent of participants. Sensitivity and specificity were 77.5 and 57.1 percent, respectively, for a PCA3 score cut-off of 25, with negative and positive predictive values of 90 and 33.6 percent, respectively. Compared to men with a score of 25 or more, those with a PCA3 score of less than 25 were 4.56-fold more likely to have a negative repeat biopsy on multivariate analysis. The predictive accuracy of the logistic regression model was improved significantly with PCA3 score. Relative to a model without PCA3 score, the addition of PCA3 score increased the specificity, positive and negative predictive values by 22.6, 6.4 and 7.1 percent, respectively, with a 90 percent sensitivity.

"The PCA3 assay supplements [serum](#) prostate-specific antigen and other clinical information for more accurately predicting repeat biopsy outcome," the authors write. "The PCA3 assay provides [clinicians](#) and patients with independent, clinically useful information to make more informed repeat biopsy decisions."

Two authors disclosed financial ties to EDAP and to Gen-Probe, which manufactures the PROGENSA PCA3 Assay and funded the writing of the manuscript.

More information: [Abstract](#)
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