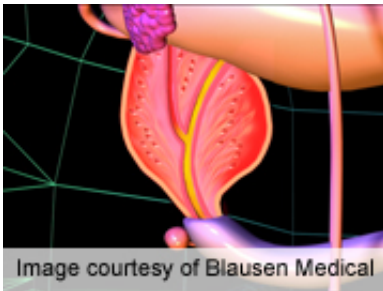


PCA3 assay ups predictive accuracy for repeat biopsy

June 13 2013



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](#)
[Full Text](#)

[Health News](#) Copyright © 2013 [HealthDay](#). All rights reserved.

Citation: PCA3 assay ups predictive accuracy for repeat biopsy (2013, June 13) retrieved 23 April 2024 from <https://medicalxpress.com/news/2013-06-pca3-assay-ups-accuracy-biopsy.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.