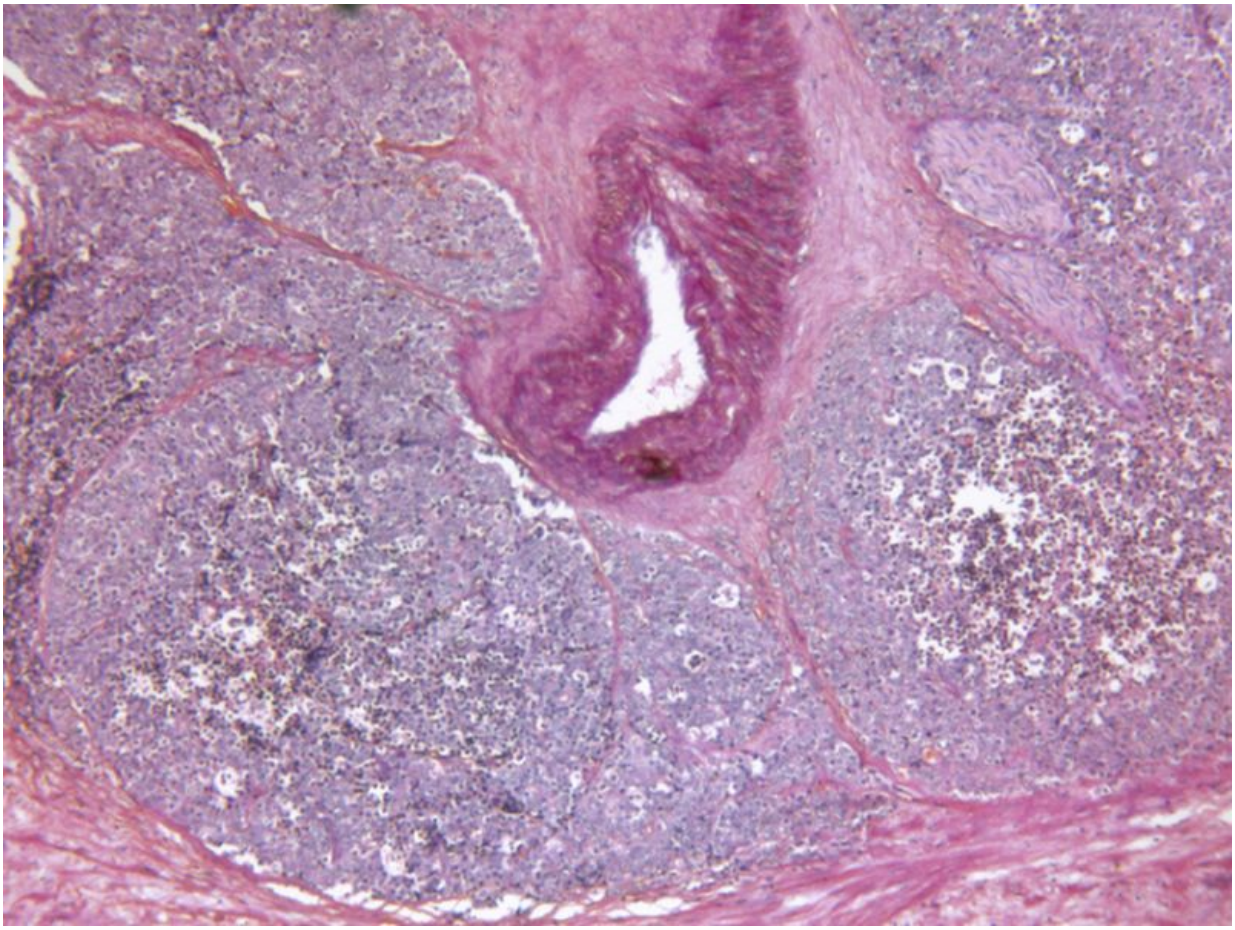
Diagnostic factors may help patients avoid prostate biopsy

January 4 2016



(HealthDay)—Initial diagnostic characteristics may be able to identify

men initiating active surveillance who could avoid confirmatory biopsy, according to a study published in the January issue of *The Journal of Urology*.

Prassannah Satasivam, M.D., from the Memorial Sloan Kettering Cancer Center in New York City, and colleagues assessed whether initial diagnostic parameters (prostate-specific antigen density, magnetic resonance imaging result, percent positive cores, percent cancer in positive cores, and total tumor length) could predict the confirmatory biopsy result in 392 men (with Gleason 6 prostate cancer on initial biopsy) undergoing confirmatory biopsy.

The researchers found that 11 percent of men had high-grade cancer on confirmatory biopsy. In univariate analysis, all predictors were significantly associated with high-grade cancer at confirmatory biopsy. However, only prostate-specific antigen density and total tumor length were significantly associated in the multivariable model (area under the curve, 0.85).

"Using this model to select patients for confirmatory biopsy would generally provide a higher net benefit than performing confirmatory biopsy in all patients, across a wide range of threshold probabilities," the authors write.

Several authors disclosed financial ties to the diagnostics and pharmaceutical company Opko.

More information: Abstract
Full Text
Editorial (subscription or payment may be required)