

S.I.U. ABSTRACT ON LINE Riccione -2013

Termine di presentazione: 30/04/2013

**ANTEPRIMA: controllare bene eventuali simboli e caratteri speciali.
NON INVIARE NULLA ALLA SEGRETERIA!**

Tipologia Abstract

Poster

Argomento

Cancro della Prostata: Diagnosi e Stadiazione

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Longitudinal percent free PSA and prostate cancer diagnosis

Relatore

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Presentazione in Inglese

Si

Scopo del lavoro

There are limited data on the predictive value of longitudinal percent free PSA measurements (%freePSA) for subsequent prostate cancer detection. To evaluate the clinical importance of %freePSA kinetic before 12 core prostate biopsy, we compared it in patients with prostate cancer and in controls

Materiali e metodi

A prospective, institutional review board approved database of 2208 twelve core prostate biopsy performed at our institution from February 2002 to January 2009 was searched for patients with 4 or more total and free PSA measurements (done in our centralized laboratory) within 1 year or more before biopsy. The slope of %freePSA was calculated with linear regression analysis.

Risultati

256 men entered the study. A total of 79 cancers (30.8%) were found at the ultrasound guided prostate biopsies. The median PSA before the biopsy was 7.05 ng/ml (range 1.4 to 52.7), median age was 62 years (range 36 to 84). Median %freePSA was 16.6 (range 1.48 to 50). Median PSA density was 0.14 ng/ml (range 0.03 to 0.99). Median %freePSA slope was -0.45 for prostate cancer patients and 0.28 for controls ($p < 0.001$). On univariate and multivariate analysis percent free PSA, and %freePSA slope showed a significant ability to predict the outcome of a 12 - core prostate biopsy.

Discussione

At the Receiver Operating Characteristic (ROC) analysis the area under the curve (AUC) of %freePSA slope was 0.659 (95% confidence interval 0.597 to 0.717) better than that of PSA (0.555 and 95% confidence interval 0.492 to 0.617). A value of %freePSA slope equal to zero corresponded to a sensitivity of 65% and a specificity of 60%.

Conclusioni

We found that %freePSA slope was an independent predictor of prostate cancer at 12 core prostate biopsy. Although this predictive tool performed well, additional studies are warranted in external populations to confirm the clinical utility.

Finanziamento

No

Conflitto d'Interesse

No

