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TITLE OF PRESENTATION: (type in ALL CAPITAL LETTERS)
ATYPICAL CYTOLOGY INDEXED TO NMP22: ROLE IN THE EARLY DETECTION AND MONITORING OF BLADDER CANCER

AUTHOR(S): (DO NOT type in all capital letters)
Complete name of all authors (first name, initial, last name, degrees)

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Ninety five patients at risk for bladder cancer, initially seen or followed in Urology clinic were identified to have atypical urine cytology. 54 were incident (screening) cases and 41 were prevalent (known) cases of bladder cancer. Cystoscopy was performed in all 95 cases and cancers were histologically confirmed. All patients had a negative upper tract study within 6 months. In the incident group, the 54 atypical cytologies detected 3 cancers, for a cancer detection rate or a positive predictive value (PPV) of 6% (or a false positive rate of 94%). When stratified by NMP22, 8 patients had values >10U/mL, and all 3 cancers were detected with a PPV of 38%. In the prevalent group, the 41 atypical cytologies detected 21 cancers, for a PPV of 51%. When stratified by NMP22, 20 cases had values >6U/mL, and 18/20 cancers were detected with a PPV of 90%, with a specificity of 92%. In incident group, the PPV of an atypical cytology was low at 6%, values similarly reported for microscopic hematuria. In prevalent group, the PPV or cancer detection rate of an atypical cytology improved considerably to 51%.

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