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Kyoto University
BENIGN POLYP WITH PROSTATIC-TYPE EPITHELIUM OF THE URINARY BLADDER: A CASE REPORT

Jiro Ishikawa, Hirohiko Yasuno, Akihiro Higuchi and Sadao Kamidono
From the Department of Urology, Kobe University School of Medicine
Satoshi Okada
From the Laboratory of Pathology, Kobe University Hospital

We report a case of benign polyp with prostatic-type epithelium of the urinary bladder. A 58-year-old male presented with gross hematuria. Cystoscopic examination revealed a 2-mm polypoid lesion in the mid trigone. Immunohistochemical demonstration of prostatic acid phosphatase and prostatic specific antigen in the urothelial cells as well as the prostatic-type epithelial cells suggested the histogenesis of this polyp to be metaplasia of the urothelium.

Key words: Benign polyp of prostatic-type epithelium, Ectopic prostatic tissue, Bladder

INTRODUCTION

Ectopic prostatic tissue is occasionally observed in the urethra, and less commonly observed in the urinary bladder as a polypoid lesion. Experimental studies showed that mouse embryonic mesenchymal cells can induce prostate-like acini formation of the adult mouse bladder epithelium, which suggests that human urothelial cells can develop into prostatic metaplasia in response to certain stimuli. We report a case of benign polyp of the prostatic-type epithelium (BPPE) of the urinary bladder which is likely metaplastic in origin.

CASE REPORT

A 58-year-old male presented with painless gross hematuria. Cystoscopic examination revealed a 2 mm polypoid lesion in the mid trigone, which was resected transurethrally. Microscopic examination of the polypoid lesion revealed a submucosal nodule of glands consisting of simple columnar epithelial cells covered by a flattened normal urothelium. The immunoperoxidase studies by a conventional avidin-biotin-complex technique, using antibodies raised against prostatic acid phosphatase (PSA) and prostatic specific antigen (PSA), gave a positive immunoreaction for PAP and PSA in the glandular cells as well as scattered urothelial cells (Fig. 1A & B). Diagnosis of BPPE of the urinary bladder was established.

DISCUSSION

Several hypotheses have been proposed for the histogenesis of the benign polyp with the prostatic-type epithelium (BPPE) including the prolapse of the prostatic ducts, developmental abnormality, pubertal stimulation of a vestigial remnant and the metaplasia of the urothelium.

As for the BPPE of the urinary bladder, metaplasia of the urothelium is the most likely, because many cases of cystitis cystica/glandularis show positive immunoreaction for PAP and PSA, which suggests the functional or antigenic differentiation of the urothelial cells toward the prostatic cells. Our case further supports the metaplastic origin of the BPPE of the urinary bladder, since scattered urothelial cells as well as submucosal prostatic-type cells showed positive immunoreaction for PAP and PSA.
Since intestinal metaplasia may be associated with malignant transformation of the urothelium\textsuperscript{8)}, careful follow up of the case of BPPE of the urinary bladder, which is also likely to be metaplastic in origin, may be important.

REFERENCES


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