

Progression of T1 High Grade Bladder Tumour without A Gross Mucosal Lesion after Transurethral Bladder Tumour Resection



Uiju Cho¹ and Dong Sup Lee*²

¹Department of Pathology, The Catholic University of Korea, College of Medicine, South Korea

²Department of Urology, The Catholic University of Korea, South Korea

Received:  July 25, 2018; Published:  August 01, 2018

*Corresponding author: Dong Sup Lee, Department of Urology, St. Vincent's Hospital, The Catholic University of Korea, 93-6 Ji-dong Paldal-gu, Suwon, 16247, South Korea

Keywords: Bladder Tumour; Recurrence; Cystoscopy; Computed Tomography

Abbreviations: TURB: Transurethral Resection of Bladder Tumour; CT: Computed Tomography

Introduction

With respect to T1 high grade bladder tumour, 69% to 80% recurrence and 33% to 48% progression have been reported after transurethral resection of bladder tumour (TURB) alone [1,2]. Over half of recurrence after TURB for T1 bladder tumour occurred in the previous site that means incomplete TURB contributed to the recurrence [3]. Therefore, cystoscopy should be repeated every 3 months for 2 years in T1 tumour [4]. A 68-year old man complained of asymptomatic hematuria for 2 weeks. He had no underlying medical disease. He had never smoked. About a 2cm sized single papillary mass with wide base was located on the left lateral wall of urinary bladder (Figure 1). He underwent TURB, and T1 high-grade without carcinoma in situ was proven pathologically. A repeat TURB showed negative pathology. The patient did not want radical cystectomy at that time. 6 cycles of bacillus Calmette-Guérin

intravesical instillation were done. There was no abnormal lesion in cystoscopy at 3 and 6 months after TURB. However, the round mass was detected in dynamic computed tomography (CT) 6 months after TURB (Figure 2). In the specimen from radical cystectomy, the tumour was not seen on the mucosa but it had invaded into perivesical fat tissue (Figure 3). 6 cycles of adjuvant chemotherapy with Gemcitabine and Cisplatin were applied immediately after radical cystectomy. The patient has been followed up for 3 years with semi-annually CT after radical cystectomy without evidence of recurrence. Because of any possibility of incomplete TURB for pathological T1 high grade bladder tumor; or pathologically underestimated T stage of T2 bladder tumor; any imaging study such as CT scan or bladder ultrasonography should be considered for T1 high bladder tumor; although a guideline recommends imaging study yearly [5].

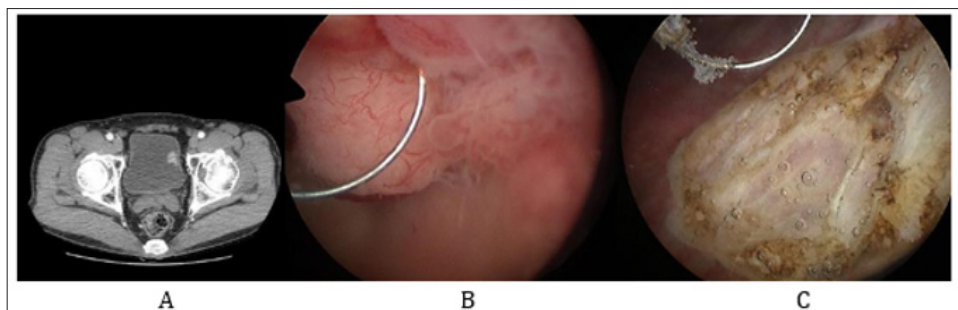


Figure 1 : Initial bladder tumour at computed tomography and cystoscopy.

Note:

- Computed tomography showed a protruding enhancing mass on the left lateral wall of urinary bladder.
- A papillary mass was on the left lateral wall of urinary bladder.
- The tumour was resected by electro-loop.

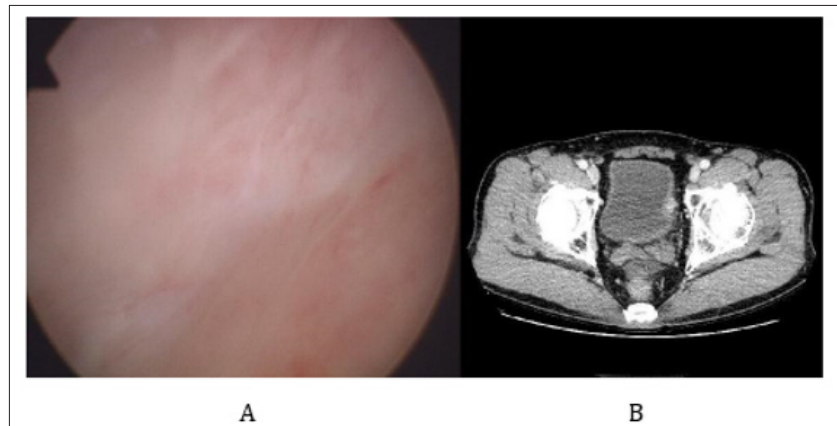


Figure 2 : Cystoscopy and computed tomography 6 months after initial transurethral resection of bladder tumour.

Note:

- A. No definite mass lesion on follow-up cystoscopy.
- B. Computed tomography showed that the enhancing mass was outside the left lateral mucosal wall of the urinary bladder.

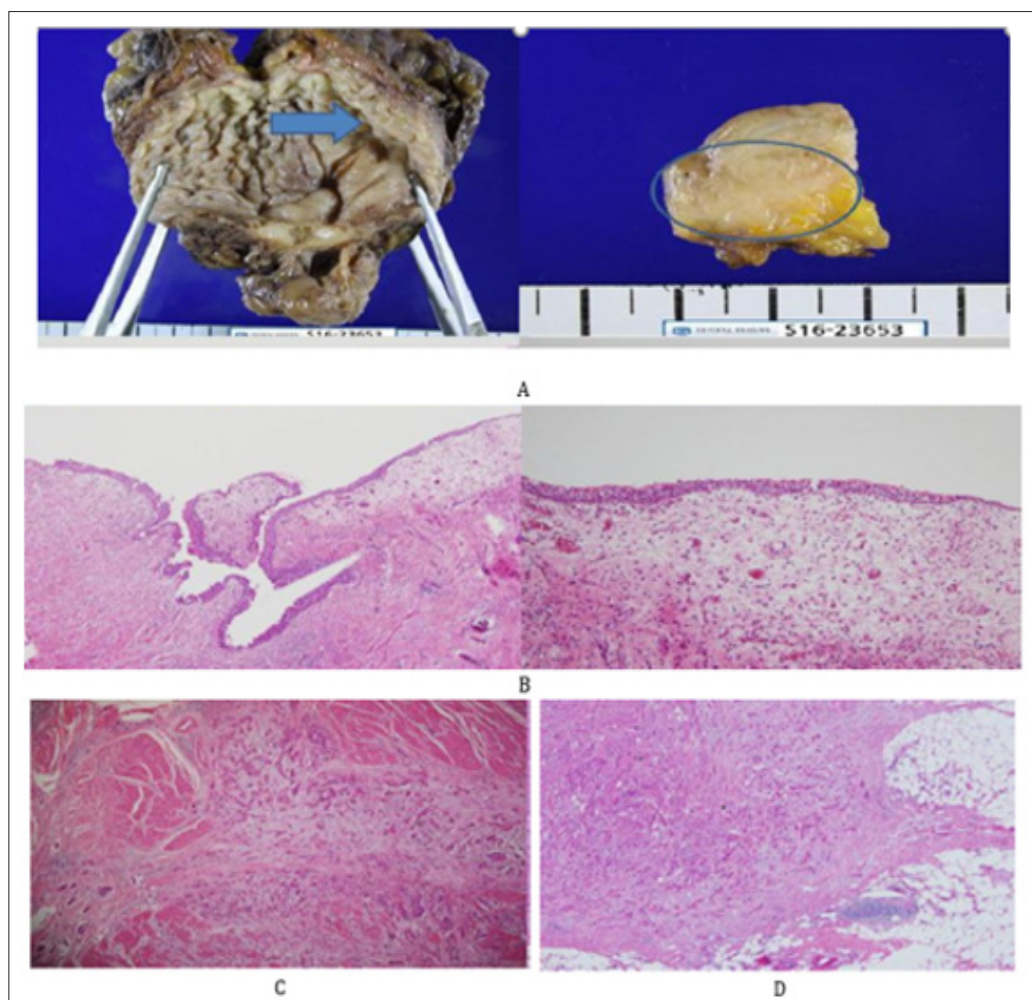


Figure 3 : Pathological review.

Note:

- A. Gross anatomy showed that the tumour lesion was embedded in the left lateral wall of urinary bladder with intact mucosa (Arrow and Circle indicates the tumour).
- B. Intact mucosal surface (x40, H&E), mucosal surface (x100, H&E).
- C. Tumour cells invading the muscle proper (x100, H&E).
- D. Perivesical fat invasion (x40, H&E).

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ISSN: 2574-1241

DOI: [10.26717/BJSTR.2018.07.001518](https://doi.org/10.26717/BJSTR.2018.07.001518)

Dong Sup Lee. Biomed J Sci & Tech Res



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