Original Article

A Twelve-year Review of Radical Cystectomies in Singapore General Hospital

H G Sim,* MRCS, M Med, W K O Lau,** FAMS, FRCS, C W S Cheng,*** FAMS, FRCS, M Med

Abstract

Introduction: Bladder carcinoma is the tenth most common cancer affecting men in Singapore. This study reviews the complication rates and long-term outcome after radical cystectomy for bladder carcinoma. Patients and Methods: A retrospective case-record review of 90 consecutive radical cystectomies in the Department of Urology at the Singapore General Hospital from 1 January 1989 to 31 December 2000 was performed. Patients were included if they were operated for muscle-invasive tumour, high-grade tumour with carcinoma in-situ (CIS), recurring multifocal high-grade tumour, CIS unresponsive to intravesical therapy, or endoscopically uncontrollable tumour. Patients were excluded if they had metastatic disease or non-bladder primary carcinomas. Results: The patients were predominantly male (M:F, 80:10) and Chinese (Chinese:Malay:Indian:Others, 70:10:3:7) with a mean age of 64.1 ± 9.9 years (range, 39 to 83 years). Fifty-one patients underwent ileal conduit creation, 36 had ileal neobladder creation, 2 had ureterosigmoidostomies and 1 had Mainz II pouch creation following radical cystectomy. Perioperative mortality was 2.2% (n = 2). Early complications constituted 39% (n = 35), whilst late complications constituted 14% (n = 13) of cases. The mean follow-up was 27.1 ± 29.7 months (range, 1 to 137 months). The mean time to recurrence was 26.0 ± 29.5 months (range, 3 to 137 months). The overall survival was 70%, 43% and 37% at 1, 3 and 5 years, respectively. The disease-free survival was 64%, 35% and 32% at 1, 3 and 5 years, respectively. Conclusion: The results of our radical cystectomies for bladder carcinoma are comparable to other established urology units although the morbidity remained significant.

Key words: Complications, Muscle-invasive bladder carcinoma, Outcome, Risk factors

* Registrar
** Consultant
*** Senior Consultant and Head
Department of Urology
Singapore General Hospital

Address for Reprints: Dr Sim Hong Gee, Department of Urology, Singapore General Hospital, Outram Road, Singapore 169608.
E-mail: hgsim@pacific.net.sg