

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

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### 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  $64.1 \pm 9.9$  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  $27.1 \pm 29.7$  months (range, 1 to 137 months). The mean time to recurrence was  $26.0 \pm 29.5$  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.

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

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