

# The Singapore General Hospital Early Clinical Experience with the 7.5F Flexible Ureterorenoscope

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## Abstract

**Introduction:** Reduced instrument size, increased flexibility, coupled with improved optics and larger working channels have enhanced the capabilities of the ureterorenoscope. **Materials and Methods:** We present our initial experience with the new 7.5F flexible ureterorenoscope. A total of 29 flexible ureterorenoscopies were performed from July 1995 to December 1997 by a single surgeon. The indications for flexible ureterorenoscopy was therapeutic in 10 (34.5%) patients (all had urolithiasis) whilst it was diagnostic in 19 patients (65.5%). For the diagnostic cohort, 9 (31.0%) patients had haematuria with radiological upper tract filling defect, 8 (27.6%) had radiological upper tract filling defect alone and 2 (6.9%) had ureteropelvic junction narrowing for evaluation. **Results:** Of the therapeutic cases, all 10 (100%) were stone free at 3 months. Of the diagnostic cases, 12 (63.2%) had normal findings, 4 (21.1%) had urolithiasis and 3 (15.8%) had transitional cell carcinoma (TCC). Of the 3 cases of TCC, one was managed endoscopically. **Conclusions:** The smaller calibre and actively deflectable 7.5F flexible ureterorenoscopes facilitate various endoscopic procedures thus broadening the diagnostic and therapeutic scope of the ureterorenoscope.

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**Key words:** Endoscopy, Ureteroscope, Urinary calculi, Urolithiasis

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