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Robot-Assisted Ureteral Reimplantation in Children with Vesico-Ureteral Reflux

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Objective:

We report our initial experience on robot-assisted ureteral reimplantation in children with vesico-ureteral reflux (VUR).

Patients & Methods:

Two patients with VUR were referred to our unit for management. One patient had bilateral VUR (right grade IV and left grade II) and the other patient had right-sided grade III reflux. Both presented with UTI and prophylactic antibiotic was started. DMSA scan showed evidence of renal scars formation and breakthrough UTI were documented in both cases. Therefore, robot-assisted extra-vesical ureteral reimplantation was performed (at 16 and 25 months of age) in both patients. The surgical technique will be discussed.

Results:

There was no open conversion or intra-operative complication. The console time was 140 minutes for unilateral and 160 minutes for bilateral repair. Foley catheter was removed on post-operation day 1, and both voided well and were discharged after foley removal. Post-operative MCUG showed complete VUR resolution in all 3 ureters.

Conclusions:

Our initial results are encouraging. Robot-assisted extravesical ureteral reimplantation is another safe and effective option for repair of VUR.