



Endoscopic Management of Upper Tract Urothelial Cancer: Kidney Sparing at What Cost?

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UTUC: Kidney sparing at what cost?

Methods & Results

- Retrospective study
- 61 patients with low-grade, low stage unilateral UTUC: 44 (72%) male, mean age 71±10 years
- 24 underwent ureteroscopic treatment (**URS**) and 37 underwent radical nephroureterectomy (**RNU**)
- Baseline characteristics were similar except for tumor maximal length
- Mean follow up 4.9±3.4 years
- no significant differences in oncologic outcomes, surgical complications, renal function (marginal non-significant benefit for URS) or cardiovascular events.

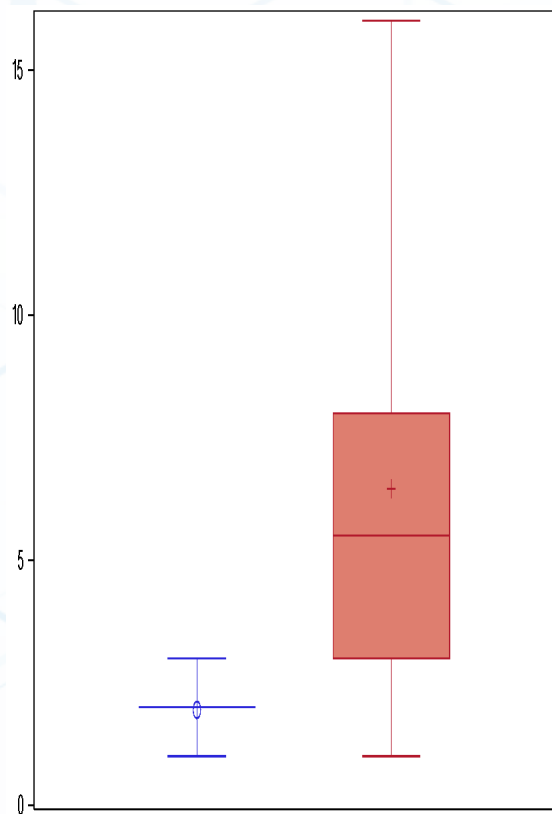
	Overall	RNU	URS	p=
n=	61	37	24	
Age	71.1±9.6	71.5±10.2	70.7±8.7	0.754
% Female	17 (28%)	9 (24%)	8 (33%)	0.443
Baseline GFR	66.6±22.4	65.3±23.2	69.0±21.2	0.554
Size (cm)	2.16±1.33	2.73±1.37	1.25±0.48	<0.0001
Unifocal	31 (65%)	18 (58%)	13 (77%)	0.202
Multifocal	17 (35%)	13 (42%)	4 (24%)	
Follow up (years)	4.86±3.43	4.75±3.12	5.02±3.92	0.76
5-yr Overall Surv.	84%	84%	85%	0.707
5-yr Met-free Surv.	83%	84%	81%	0.994
Received chemotherapy	3 (5%)	1 (3%)	2 (8%)	0.320
Complications	17 (28%)	9 (24%)	8 (33%)	0.443
CD ≥3 compl	2 (3%)	1 (4%)	1 (3%)	0.754
GFR at FU	52.8±22.2	49.2±22.1	58.7±21.5	0.115
CV events	4 (7%)	2 (5%)	2 (8%)	0.652



UTUC: Kidney sparing: procedure burden

No. of procedures

RNU URS

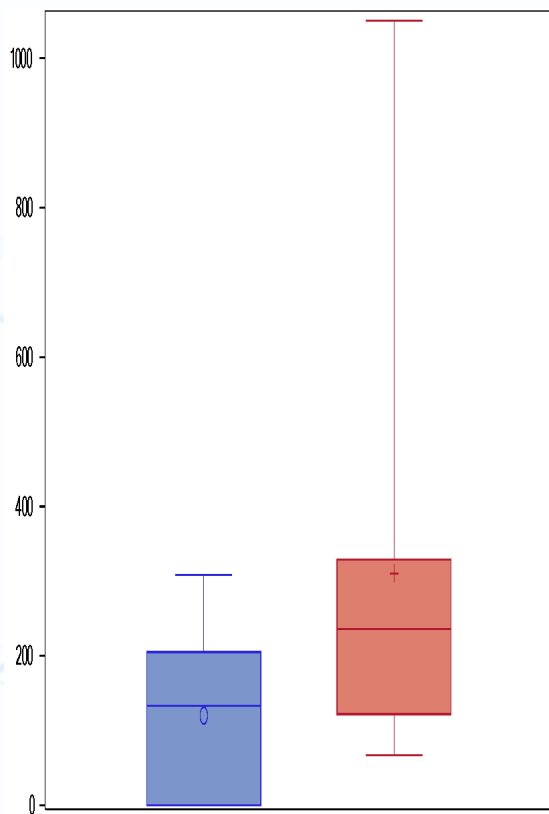


mean±SD: 1.9±0.4 6.5±4.4

p<0.0001

Time under Anesthesia (min)

RNU URS

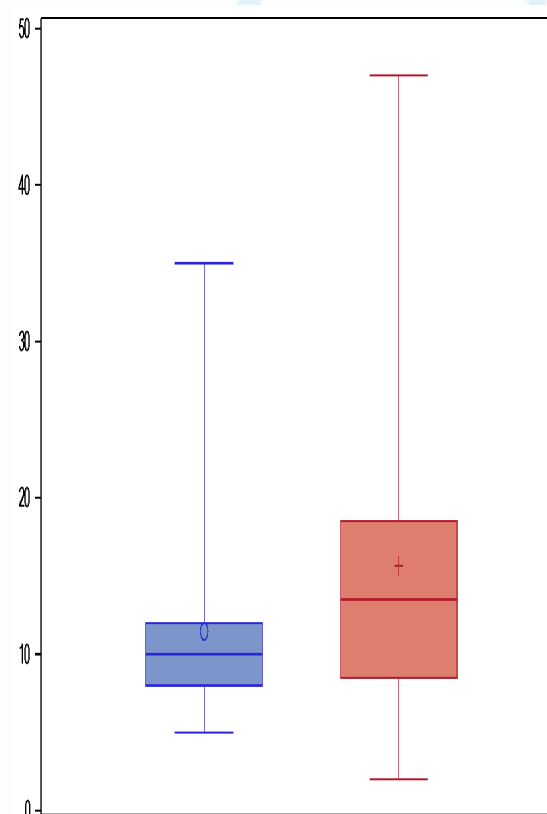


120±101 317±261

p=0.0015

Time in Hospital (days)

RNU URS



11.5±6.0 16.2±11.8

p=0.082

Conclusion:

A patient referred to endoscopic management of UTUC benefited from an **83% chance to preserve their kidney** and **81% 5-years metastasis free survival** (for a mean follow up of 4.8±3.4 years), **at the cost of 4.6±0.9 more operations** than if they were referred to RNU.