

## Supplementary

**Table S1** Reports of retroperitoneal robotic-assisted partial nephrectomy over the past 10 years (since 2012)

Reference	No. of patients	BMI, kg/m <sup>2</sup>	Tumor size, cm	Operating time, min	WIT, min	EBL, mL	LOS, days	90-day complication rate	Follow-up
Patel <i>et al.</i> 2013	68	27.5*	2.5*	125*	20.7*	97*	2.3*	5.8% ( $\geq$ grade 3)	NR
Tanaka <i>et al.</i> 2013	10	23.2†	2.2†	193†	10†	13.5†	NR	10% (all grades)	3 months*
Hu <i>et al.</i> 2014	227	28.2†	2.3†	165†	19†	75†	2†	1.3% ( $\geq$ grade 3)	2.7 months*
Choo <i>et al.</i> 2014	50	24.7*	2.8*	120†	22.6*	100†	NR	0% ( $\geq$ grade 3)	NR
Sharma <i>et al.</i> 2016	56	31†	2.3†	224†	27†	100†	3†	4% ( $\geq$ grade 3)	12 months†
Maurice <i>et al.</i> 2017	87	29.7†	2.4†	176*	21*	150*	2.3*	5.4% ( $\geq$ grade 3)	10.5 months†
Stroup <i>et al.</i> 2017	141	29.8*	2.9*	217.2*	22.8*	115†	2.2†	2.8% ( $\geq$ grade 3)	21.9 months†
Xia <i>et al.</i> 2018	26	23*	3.6*	96*	17.6*	45*	8.3*	3.8% ( $\geq$ grade 3)	NR
Arora <i>et al.</i> 2018	99	29†	2.9†	160†	17†	100†	1†	1.8% ( $\geq$ grade 3)	NR
Malki <i>et al.</i> 2019	110	33.1†	3.2*	130†	22†	94†	1†	1.2% ( $\geq$ grade 3)	33 months†
Mittakanti <i>et al.</i> 2020	166	29.7*	3.1*	162*	18*	134*	1.7*	28.6% ( $\geq$ grade 3)	NR
Abaza <i>et al.</i> 2020	30	30.6*	3	127.8*	10.8*	53.6*	0.7*	0% ( $\geq$ grade 3)	NR
Harke <i>et al.</i> 2021	203	27†	2.6†	120†	8†	NR	8†	3% ( $\geq$ grade 3)	NR
Current study	22	44.9†	2.6†	186†	23.5†	50.2†	2†	4.5% ( $\geq$ grade 3)	52 months†

\*, values reported mean; †, values reported as median. BMI, body mass index; WIT, warm ischemia time; EBL, estimated blood loss; LOS, length of stay; NR, not reported.