

Supplementary Table 1

Descriptive surgical and pathologic characteristics of the 1765 patients with clinical non-metastatic upper tract urothelial carcinoma treated with radical nephroureterectomy between 2000 and 2021

Variables	Total	Tetrafecta achievement		p value
		Yes	No	
Number of patients	1765	928 (53)	837 (47)	
Neoadjuvant chemotherapy, n (%)	43 (3)	12 (1)	31 (4)	
Surgical approach, n (%)				<0.001
Open	861 (50)	419 (46)	442 (55)	
Laparoscopic	707 (41)	394 (43)	313 (39)	
Robotic	149 (9)	100 (11)	49 (6)	
Pathologic tumor stage, n (%)				<0.001
pT0	52 (3)	40 (4)	12 (1)	
pTa	233 (13)	165 (18)	68 (8)	
pTis	189 (11)	129 (14)	60 (7)	
pT1	368 (21)	214 (24)	154 (19)	
pT2	305 (18)	139 (15)	166 (20)	
pT3	481 (28)	196 (22)	285 (35)	
pT4	106 (6)	26 (3)	80 (10)	
Pathologic tumor grade, n (%)				<0.001
Low grade	93 (8)	65 (11)	28 (5)	
High grade	1116 (92)	525 (89)	591 (95)	
Lymphovascular invasion, n (%)	328 (20)	131 (15)	197 (25)	<0.001
Concomitant CIS, n (%)	229 (14)	101 (12)	128 (17)	0.009
Lymph node status, n (%)				<0.001
Nx	970 (55)	458 (49)	512 (61)	
N0	580 (33)	386 (42)	194 (23)	
N+	215 (12)	84 (9)	131 (16)	
Adjuvant chemotherapy, n (%)	203 (12)	72 (8)	131 (16)	<0.001