



Figure S1 Flow diagram of the study. RLAS, retroperitoneal laparoscopic adrenal surgery.

Table S1 Patient and tumor characteristics

Variables	Value (n=306)
Age (years)	49.25±12.36
Sex	
Male	142 (46.41)
Female	164 (53.59)
Tumor side	
Right	144 (47.06)
Left	162 (52.94)
Tumor diameter	2.20 (1.50, 3.40)
≤3 cm	208 (67.97)
>3 but ≤6 cm	66 (21.57)
>6 cm	32 (10.46)
Relationships to the upper poles of the kidneys and the renal hila	
Completely above the kidney	207 (67.65)
Crossing the upper pole but not reaching the upper polar line of the kidney	65 (21.24)
Reaching the renal hila	34 (11.11)
Periadrenal fat	
No cord-like change	174 (56.86)
Cord-like change with fewer and small textures	98 (32.03)
More cord-like changes with coarser texture and adhesion	34 (11.11)
Relationships to large abdominal vessels	
Clear boundary	233 (76.14)
Unclear boundary and adhesion	40 (13.07)
Compression and displacement	33 (10.78)
Relationships to the surrounding organs and tissues	
Clear boundary	180 (58.82)
Unclear boundary and adhesion	78 (25.49)
Compression and displacement	48 (15.69)
Tumor CT enhancement	
≤30 HU	95 (31.05)
>30 but ≤80 HU	131 (42.81)
>80 HU	80 (26.14)
Hypertension grade	
No hypertension	266 (86.93)
Grade 1 (SBP 140–159 mmHg or DBP 90–99 mmHg)	15 (4.90)
Grade 2 (SBP 160–179 mmHg or DBP 100–109 mmHg)	13 (4.25)
Grade 3 (SBP ≥180 mmHg or DBP ≥110 mmHg)	12 (3.92)
Hypokalemia	
No	274 (89.54)
Yes	32 (10.46)
Functional status of adrenal tumors	
Nonfunctional	257 (83.99)
Functional	49 (16.01)
Operative time (min)	80.00 (62.00, 105.00)
Intraoperative blood loss (mL)	50.00 (20.00, 100.00)
Postoperative length of stay (d)	7.00 (5.00, 8.00)
Postoperative drainage (mL)	32.50 (10.00, 70.00)
Clavien-Dindo grade (n=29)	
I	1 (3.45)
II	23 (79.31)
IIIa	4 (13.79)
IIIb	0
IIIc	0
IV	1 (3.45)

Values are presented as mean ± SD, n (%), or median (P25, P75). CT, computed tomography; HU, Hounsfield unit; SBP, systolic blood pressure; DBP, diastolic blood pressure; SD, standard deviation.