

SUPPLEMENTARY TABLE ST2.

Confounders and predictive factors associated with recovery to baseline or decreased HRQoL in localized renal masses or localized RCCs after management

Factors	Term	Pre-treatment factors (PROM)	Treatment factors (PROM)	Across follow-up (PROM)
Positively associated with recuperation of HRQoL	Up to 1 year	<ul style="list-style-type: none"> Younger age (SF-36)[18] Older age (IES)[22] Lower ECOG (EORTC QLQ-C30)[21] NYHA class at 1 yr (SF-36)[23] e-NSS indication (SF-36)[23] Time effect (IES)[22] 	<ul style="list-style-type: none"> NSS (SF-36)[23] elective -ONSS in tumor <4 cm[24] Laparoscopy in RN (SF-36)[18] Laparoscopy approach (on PCS) (SF-36)[22] Modality of surgery (RN) interaction with time[23] (CARES-SF) 	<ul style="list-style-type: none"> Time associated to age and gender (in AS older males better MCS) (SF-12)[16] Time interaction with approach (L) (SF-36)[22]
	Mid/Long-term	<ul style="list-style-type: none"> Higher educational & occupational level (SF-36)[23] 	—	—
Negatively associated with recuperation of HRQoL	Up to 1 year	<ul style="list-style-type: none"> Increasing ASA (EORTC QLQ-C30)[21] Lower preoperative eGFR (CARES-SF)[22] Smoking (EORTC QLQ-C30)[21] Increased CCI (SF-12)[16] Increased BMI (SF-12, EORTC QLQ-C30)[16, 21] Symptomatic presentation (EORTC QLQ-C30)[17] m- indication for NSS (EORTC QLQ-C30)[17] 	<ul style="list-style-type: none"> ORN (on GH status and fatigue) (EORTC QLQ-C30)[17, 24] Flank & abdominal approach (EORTC QLQ-C30)[21] Trend for postoperative complications (SF-36)[30] 	<ul style="list-style-type: none"> Tumor histopathology (size, stage & histology) (SF-36)[18,23] Lower postoperative eGFR (EORTC QLQ-C30, SF-36, CARES-SFIES, fear of recurrence)[21, 22] Diabetes mellitus (EORTC QLQ-C30)[21] Lung medication (EORTC QLQ-C30)[21] Cancer recurrence (EORTC QLQ-C30)[21]
	Mid/Long-term	<ul style="list-style-type: none"> Older age (lower PCS in AS) (SF-12)[16] Female gender (lower PCS) (EORTC QLQ-C30)[21] 	—	<ul style="list-style-type: none"> Time interaction with age (in AS worse PCS) (SF-12)[16] Tumor size >10 cm at long term (EORTC QLQ-C30)[21] Time 4 vs < 2yr (EORTC QLQ-C30)[17] Complications at surgery or during recovery, other cancers treated by surgery after renal intervention and diabetes correlated PCS (SF-36)[19] MCS correlated with function of the remaining kidney and hearth disease since surgery (SF36)[19] Pain of surgical scar associated to intrusive thoughts and avoidance behavior (IES)[19] Development of HT since renal surgery associated with avoidance behavior (IES)[19]

PCS: physical composite score; MCS: mental composite score.