

Supplementary Table 2.

Results of Cox regression analyses for recurrence-free survival and overall survival in the propensity score-matched cohort

	Recurrence-free survival			Overall survival		
	Hazard ratio	95% confidence interval	P-value	Hazard ratio	95% confidence interval	P-value
Type of anesthesia						
Volatile anesthesia	ref			ref		
Total intravenous anesthesia	1.00	0.96–1.05	0.944	1.01	0.79–1.21	0.765
Age, years						
≤59	ref			1.00	ref	
60–69	1.23	1.14–1.32	<0.001	1.24	1.12–1.37	<0.001
70–79	1.53	1.43–1.64	<0.001	1.62	1.48–1.78	<0.001
≥80	2.38	2.18–2.58	<0.001	2.64	2.36–2.94	<0.001
Sex, male	1.41	1.34–1.48	<0.001	1.49	1.39–1.60	<0.001
Body mass index, kg/m ²						
<18.5	1.31	1.23–1.40	<0.001	1.37	1.26–1.48	<0.001
18.5–24.9	ref			1.00	ref	
25.0–29.9	0.89	0.84–0.95	<0.001	0.84	0.77–0.91	<0.001
30.0–34.9	1.06	0.89–1.26	0.498	0.92	0.72–1.17	0.497
≥35.0	1.17	0.75–1.82	0.488	0.94	0.51–1.75	0.849
Charlson comorbidity index						
2	ref			1.00	ref	
3	1.26	1.14–1.38	<0.001	1.48	1.32–1.66	<0.001
≥4	1.54	1.46–1.62	<0.001	1.38	1.29–1.48	<0.001
Cancer stage						
0 or I	ref			ref		
II	1.53	1.41–1.65	<0.001	1.66	1.50–1.85	<0.001
III	2.09	1.93–2.26	<0.001	2.67	2.41–2.95	<0.001
IV	4.71	4.32–5.13	<0.001	8.16	7.31–9.12	<0.001
Preoperative adjuvant therapy	1.63	1.48–1.79	<0.001	1.46	1.29–1.65	<0.001
Postoperative adjuvant therapy	2.94	2.78–3.12	<0.001	1.71	1.59–1.84	<0.001
Preoperative renal replacement therapy	2.52	1.93–3.30	<0.001	2.88	2.12–3.89	<0.001
Smoking	1.11	1.05–1.16	<0.001	1.08	1.01–1.15	0.023

Preoperative or intraoperative blood transfusion	1.69	1.61–1.79	<0.001	1.80	1.69–1.93	<0.001
Preoperative use of morphine or oxycodone	1.25	0.96–1.62	0.103	1.36	0.99–1.87	0.058
Academic hospital	1.16	1.08–1.24	<0.001	0.95	0.86–1.05	0.293
Year of surgery						
2010 (Jul–Dec)	ref			ref		
2011 (Jan–Dec)	0.96	0.89–1.03	0.286	0.96	0.88–1.05	0.410
2012 (Jan–Dec)	0.96	0.88–1.04	0.267	0.87	0.79–0.96	0.006
2013 (Jan–Dec)	0.96	0.88–1.04	0.304	0.85	0.76–0.95	0.004
2014 (Jan–Dec)	0.82	0.75–0.90	<0.001	0.72	0.64–0.81	<0.001
2015 (Jan–Dec)	0.87	0.79–0.95	0.002	0.77	0.68–0.87	<0.001
2016 (Jan–Dec)	0.88	0.79–0.97	0.011	0.67	0.58–0.78	<0.001
2017 (Jan–Dec)	0.81	0.71–0.93	0.003	0.63	0.51–0.78	<0.001
2018 (Jan–Mar)	0.66	0.28–1.61	0.364	0.92	0.34–2.47	0.869
Barthel index						
100	ref			ref		
0–95	1.38	1.26–1.50	<0.001	1.48	1.34–1.64	<0.001
Hospital volume						
Low (<125)	ref			ref		
Medium (125–245)	0.99	0.94–1.05	0.778	0.89	0.83–0.95	0.001
High (>245)	0.92	0.86–0.98	0.011	0.69	0.63–0.75	<0.001
At least one postoperative complication	1.48	1.37–1.60	<0.001	1.78	1.63–1.95	<0.001