

Supplementary Table 5. The HRs with 95% CIs of the other covariates regarding 1-year all-cause mortality

Variable	HR (95% CI)	<i>P</i> -value
Age, year	1.04 (1.03, 1.04)	<0.001
Female sex	0.77 (0.75, 0.79)	<0.001
Having a job at surgery	0.96 (0.94, 0.99)	0.011
Residence at surgery		
Urban area	1	
Rural area	1.01 (0.98, 1.04)	0.502
Unknown	1.20 (1.06, 1.36)	0.004
Household income level		
Medical aid program	1.21 (1.14, 1.28)	<0.001
Q1	1	
Q2	0.98 (0.94, 1.03)	0.461
Q3	0.98 (0.94, 1.02)	0.343
Q4	0.97 (0.93, 1.01)	0.089
Unknown	1.07 (0.96, 1.20)	0.201
Type of cancer surgery		
Lung cancer surgery	1	
Gastric cancer surgery	0.69 (0.66, 0.72)	<0.001
Colorectal cancer surgery	1.06 (1.01, 1.11)	0.010
Esophageal cancer surgery	1.27 (1.17, 1.38)	<0.001
Small bowel cancer surgery	1.81 (1.70, 1.92)	<0.001
Liver cancer surgery	0.83 (0.78, 0.88)	<0.001
Pancreatic cancer surgery	1.09 (1.03, 1.15)	0.004
BD or GB cancer surgery	1.38 (1.31, 1.46)	<0.001
VATS or laparoscopy	0.51 (0.50, 0.53)	<0.001
Intraoperative remifentanyl infusion	1.00 (0.97, 1.03)	0.929

Neoadjuvant chemotherapy	2.09 (2.00, 2.18)	<0.001
Adjuvant chemotherapy	1.19 (1.16, 1.23)	<0.001
Adjuvant radiotherapy	2.87 (2.42, 3.41)	<0.001
Intraoperative pRBC transfusion	2.77 (2.69, 2.85)	<0.001
Tertiary general hospital (vs general hospital)	0.68 (0.58, 0.79)	<0.001
Annual case volumes of major cancer surgery		
Q1<361	1	
Q2: 362-758	0.97 (0.94, 1.00)	0.054
Q3: 759-2,718	0.89 (0.86, 0.93)	<0.001
Q4>2,718	0.80 (0.77, 0.83)	<0.001
Disability at surgery		
Mild to moderate	1.10 (1.06, 1.14)	<0.001
Severe	1.41 (1.33, 1.50)	<0.001
Preoperative comorbidities		
Myocardial infarction	1.21 (1.14, 1.29)	<0.001
Congestive heart failure	1.20 (1.16, 1.24)	<0.001
Peripheral vascular disease	1.22 (1.18, 1.27)	<0.001
Cerebrovascular disease	1.32 (1.27, 1.37)	<0.001
Dementia	1.38 (1.31, 1.44)	<0.001
Chronic pulmonary disease	1.17 (1.14, 1.20)	<0.001
Rheumatic disease	1.05 (0.99, 1.11)	0.125
Peptic ulcer disease	1.17 (1.14, 1.20)	<0.001
Mild liver disease	1.19 (1.16, 1.22)	<0.001
DM without chronic complication	1.26 (1.23, 1.30)	<0.001
DM with chronic complication	1.32 (1.26, 1.37)	<0.001
Hemiplegia or paraplegia	1.42 (1.29, 1.56)	<0.001
Renal disease	1.34 (1.27, 1.42)	<0.001

Moderate or severe liver disease	1.75 (1.62, 1.89)	<0.001
AIDS	1.53 (1.49, 1.57)	<0.001
Year of surgery		
2016	1	
2017	1.05 (1.01, 1.10)	0.015
2018	1.05 (1.01, 1.10)	0.014
2019	1.03 (0.99, 1.08)	0.115
2020	0.97 (0.94, 1.02)	0.218

HR, hazard ratio; CI, confidence interval; BD, bile duct; GB, gall bladder; VATS, video assisted thoracic surgery; pRBC, packed red blood cell ; DM, diabetes mellitus; AIDS, acquired immunodeficiency syndrome