

**S1 Table.** Subgroup analysis of univariate and multivariate hazard ratio for overall death according to risk group

Variable	High risk				Low risk			
	IPTW-adjusted univariate HR		IPTW-adjusted multivariate HR		IPTW-adjusted univariate HR		IPTW-adjusted multivariate HR	
	HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value
Index surgery								
OS	-		-		-		-	
RS	0.614 (0.280-1.346)	0.223	0.635 (0.290-1.394)	0.258	0.101 (0.024-0.421)	0.002	0.104 (0.025-0.434)	0.002
LS	0.658 (0.471-0.919)	0.014	0.626 (0.447-0.875)	0.006	0.489 (0.366-0.652)	<0.001	0.484 (0.363-0.646)	<0.001
Age group (yr)								
< 55	-		-		-		-	
≥ 55	1.554 (1.072-2.254)	0.020	1.574 (1.083-2.287)	0.017	3.685 (2.628-5.167)	<0.001	3.612 (2.575-5.067)	<0.001
Health Insurance								
Health Insurance	-		-		-		-	
Medical Aid	1.246 (0.565-2.745)	0.586			1.319 (0.533-3.261)	0.549		
Income level								
High (> 25th percentile)	-		-		-		-	
Low (≤ 25th percentile)	0.860 (0.604-1.226)	0.404			1.018 (0.743-1.395)	0.911		
mCCI score								
0-1	-		-		-		-	
≥2	1.633 (1.183-2.254)	0.003	1.612 (1.167-2.227)	0.004	1.454 (1.092-1.937)	0.011	1.351 (1.014-1.801)	0.040
Hysterectomy year								
2012-2014	-		-		-		-	
2015-2016	0.887 (0.594-1.326)	0.559			1.372 (0.981-1.917)	0.064		
Geographical location								
Metropolitan	-		-		-		-	
Other	0.729 (0.522-1.018)	0.063			1.044 (0.768-1.420)	0.784		

CI, confidence interval; HR, hazard ratio; IPTW, inverse probability of treatment weighting; LS, laparoscopic surgery; mCCI, modified Charlson comorbidity index; OS, open surgery; RS, robotic surgery.