Table S1 Multivariable Cox regression analysis in LUAD

Variables	OS		PFS		LCSS	
	HR [95% CI]	P value	HR [95% CI]	P value	HR [95% CI]	P value
FHC *vs.* non-FHC	1.11 [0.80, 1.54]	0.52	0.96 [0.75, 1.23]	0.72	1.23 [0.87, 1.73]	0.24
FEV1%	0.99 [0.99, 1.00]	0.16	1.00 [0.99, 1.00]	0.35	1.00 [0.99, 1.00]	0.41
DLCO%	0.99 [0.99, 1.00]	0.08	1.00 [0.99, 1.00]	0.21	0.99 [0.99, 1.00]	0.16
VATS (VATS *vs.* open)	0.66 [0.46, 0.94]	0.02	0.75 [0.56, 1.00]	0.054	0.62 [0.43, 0.90]	0.01
Tumor size	1.16 [1.08, 1.25]	<0.001	1.22 [1.16, 1.28]	<0.001	1.16 [1.08, 1.26]	<0.001
Stage						
I	Reference		Reference		Reference	
II	6.54 [4.52, 9.46]	<0.001	6.81 [5.24, 8.86]	<0.001	8.03 [5.35, 12.06]	<0.001
III	10.25 [7.39, 14.21]	<0.001	10.33 [8.19, 13.03]	<0.001	12.90 [8.97, 18.54]	<0.001
IV	15.31 [8.56, 27.40]	<0.001	12.72 [7.85, 20.63]	<0.001	18.10 [9.59, 34.16]	<0.001

LUAD, lung adenocarcinoma; OS, overall survival; HR, hazard ratio; CI, confidence interval; PFS, progression-free survival; LCSS, lung cancer-specific survival; FHC, family history of cancer; FEV1, forced expiratory volume in 1 second; DLCO, diffusing capacity of the lungs for carbon monoxide; VATS, video-assisted thoracic surgery.

Table S2 Multivariable Cox regression analysis in LUSC

Variables	OS		PFS		LCSS	
	HR [95% CI]	P value	HR [95% CI]	P value	HR [95% CI]	P value
FHC (yes *vs.* no)	2.16 [1.35, 3.44]	0.001	2.06 [1.34, 3.17]	0.001	2.32 [1.42, 3.78]	0.001
FEV1%	1.00 [0.99, 1.01]	0.78	1.00 [0.99, 1.01]	0.64	1.00 [0.99, 1.01]	0.88
DLCO%	0.99 [0.98, 0.99]	0.003	1.00 [0.99, 1.01]	0.51	0.99 [0.98, 1.00]	0.04
VATS (VATS *vs.* open)	1.22 [0.82, 1.82]	0.33	1.17 [0.81, 1.67]	0.41	1.22 [0.80, 1.87]	0.36
Tumor size	1.05 [0.96, 1.15]	0.30	1.03 [0.94, 1.12]	0.59	1.05 [0.95, 1.15]	0.35
Stage						
I	Reference		Reference		Reference	
II	1.45 [0.86, 2.42]	0.16	1.41 [0.89, 2.22]	0.15	1.63 [0.92, 2.88]	0.09
III	2.84 [1.68, 4.80]	<0.001	2.76 [1.72, 4.44]	<0.001	3.43 [1.94, 6.08]	<0.001
IV	12.91 [2.60, 64.20]	0.002	10.56 [2.18, 51.20]	0.003	18.13 [3.52, 93.21]	0.001

LUSC, lung squamous cell carcinoma; OS, overall survival; HR, hazard ratio; CI, confidence interval; PFS, progression-free survival; LCSS, lung cancer-specific survival; FHC, family history of cancer; FEV1, forced expiratory volume in 1 second; DLCO, diffusing capacity of the lungs for carbon monoxide; VATS, video-assisted thoracic surgery.