

Supplementary Table 1 Univariate and multivariate analyses of factors potentially related to esophageal squamous cell carcinoma patients' overall survival including the maximal voluntary ventilation and hemoglobin, albumin, lymphocytes and platelets score

Variable	Univariate analysis		Multivariate analysis	
	HR (95%CI)	P value	HR (95%CI)	P value
Gender		0.924		
Female	1			
Male	0.991 (0.831-1.183)			
Age at diagnosis (years)		< 0.001		0.001
< 60	1		1	
≥ 60	1.613 (1.355-1.920)		1.377 (1.150-1.650)	
Smoking history		0.760		
No	1			
Yes	0.974 (0.821-1.155)			
Drinking history		0.293		
No	1			
Yes	0.905 (0.752-1.090)			
Tumor length (cm)		< 0.001		0.013
< 4	1		1	
≥ 4	1.691 (1.419-2.016)		1.269 (1.051-1.532)	
Tumor location		0.064		
Upper	1			
Middle	0.782 (0.623-0.982)			
Lower	0.733 (0.549-0.979)			
Differentiation		< 0.001		0.309
Well	1		1	
Moderate	1.308 (0.839-2.039)		1.184 (0.756-1.856)	
Poor	1.829 (1.169-2.862)		1.330 (0.838-2.111)	

Invasion depth		< 0.001		0.001
pT1	1		1	
pT2		2.100 (1.491-2.958)		1.664 (1.168-2.371)
pT3		2.769 (2.007-3.819)		1.925 (1.370-2.706)
Lymph node metastasis		< 0.001		< 0.001
pN0	1		1	
pN1		1.803 (1.463-2.222)		1.693 (1.361-2.107)
pN2		2.809 (2.224-3.549)		2.275 (1.777-2.914)
pN3		3.857 (2.571-5.787)		2.921 (1.906-4.478)
Surgical approach		0.130		
Left	1			
Right		1.250 (0.936-1.669)		
Treatment type		0.512		
Surgery	1			
Surgery + adjuvant		1.072 (0.871-1.319)		
RT/CT				
coMVV-HALP score		< 0.001		< 0.001
2	1		1	
1		1.583 (1.285-1.949)		1.524 (1.232-1.885)
0		2.166 (1.716-2.734)		2.235 (1.757-2.844)
Overall complications		< 0.001		< 0.001
No	1		1	
Yes		1.456 (1.179-1.799)		1.515 (1.218-1.885)

HR: Hazard ratio; CI: Confidence interval; MVV: Maximal voluntary ventilation; HALP: Hemoglobin, albumin, lymphocytes and platelets; RT: Radiotherapy; CT: Chemotherapy; CoMVV-HALP: MVV and HALP.