

Table SI. Univariate and multivariate cox regression analysis for progression-free survival in all patients.

Variables	Univariate analysis			Multivariate analysis		
	HR	95% CI	P-value	HR	95% CI	P-value
Age, years						
<60	1					
≥60	0.761	0.464-1.247	0.278			
Sex						
Male	1					
Female	1.134	0.641-2.008	0.666			
Smoking history						
No	1					
Yes	0.796	0.48-1.319	0.376			
Histology						
Squamous	1					
Non-squamous	1.066	0.653-1.74	0.799			
TNM stage						
III	1			1		
IV	2.244	1.246-4.044	0.007	2.146	1.188-3.874	0.011
ECOG PS						
0	1					
≥1	1.466	0.702-3.063	0.309			
Therapy line						
1st	1			1		
≥2nd	1.53	0.954-2.454	0.078	1.393	0.862-2.254	0.176
Gene mutations						
Wild	1					
Mutant	1.712	0.809-3.62	0.16			
Expression level of FXR						
Low	1					
High	0.701	0.437-1.125	0.141			
Expression level of PD-L1						
Low	1					
High	0.575	0.339-0.974	0.040	0.653	0.382-1.117	0.120

The variables with univariate regression P-value <0.1 were included in multivariate regression analysis. CI, confidence interval; HR, hazard ratio; TNM, tumor-node-metastasis; ECOG PS, Eastern Cooperative Oncology Group performance status; FXR, farnesoid X receptor; PD-L1, programmed death-ligand 1.

Table SII. Univariate and multivariate cox regression analysis for overall survival in all patients.

Variables	Univariate analysis			Multivariate analysis		
	HR	95% CI	P-value	HR	95% CI	P-value
Age, years						
<60	1			1		
≥60	3.724	1.12-12.378	0.032	4.117	1.235-13.727	0.021
Sex						
Male	1					
Female	0.839	0.318-2.216	0.723			
Smoking history						
No	1					
Yes	1.441	0.581-3.574	0.430			
Histology						
Squamous	1					
Non-squamous	0.968	0.442-2.117	0.935			
TNM stage						
III	1			1		
IV	2.282	0.862-6.041	0.097	2.585	0.973-6.867	0.057
ECOG PS						
0	1					
≥1	2.387	0.565-10.079	0.237			
Therapy line						
1st	1					
≥2nd	1.107	0.513-2.387	0.795			
Gene mutations						
Wild	1					
Mutant	0.602	0.173-2.087	0.423			
Expression level of FXR						
Low	1					
High	0.553	0.255-1.201	0.134			
Expression level of PD-L1						
Low	1					
High	0.49	0.198-1.215	0.124			

The variables with univariate regression P-value <0.1 were included in multivariate regression analysis. CI, confidence interval; HR, hazard ratio; TNM, tumor-node-metastasis; ECOG PS, Eastern Cooperative Oncology Group performance status; FXR, farnesoid X receptor; PD-L1, programmed death-ligand 1.