Supplementary Material

Supplementary Table S1. Interactions of Prognostic predictors for overall survival among patients with esophageal cancer (n=352).
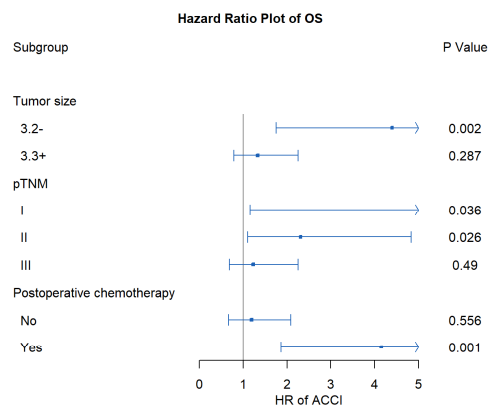
Model	B	SE	Wald	df	P	HR	95.0% CI Lower	95.0% CI Upper
ACCI*Tumor size[#]	-1.153	0.516	4.999	1	0.025	0.32	0.12	0.87
ACCI group*pTNM[#]			5.078	2	0.079			
ACCI group*pTNM(1) [#]	-1.261	0.996	1.603	1	0.205	0.28	0.04	2.00
ACCI group*pTNM(2) [#]	-1.948	0.978	3.969	1	0.046	0.14	0.02	0.97
ACCI group*Postoperative chemotherapy[#]	1.128	0.477	5.599	1	0.018	3.09	1.21	7.87

[#]Adjusted to gender, ACCI, tumor size, pTNM, degree of differentiation, postoperative chemotherapy, and postoperative complications.
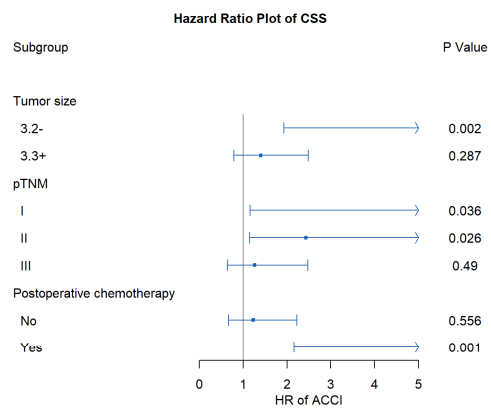
Supplementary Table S2. Interactions of Prognostic predictors for cancer-specific survival among patients with esophageal cancer (n=343).

Model	B	SE	Wald	df	P	HR	95.0% CI Lower	95.0% CI Upper
ACCI*Tumor size[#]	-1.099	0.545	4.065	1	0.044	0.33	0.11	0.97
ACCI group*pTNM[#]			4.804	2	0.091			
ACCI group*pTNM(1) [#]	-1.282	0.999	1.646	1	0.200	0.28	0.04	1.97
ACCI group*pTNM(2) [#]	-1.962	0.987	3.951	1	0.047	0.14	0.02	0.97
ACCI group*Postoperative chemotherapy[#]	1.154	0.498	5.366	1	0.021	3.17	1.19	8.42

[#]Adjusted to gender, ACCI, tumor size, pTNM, degree of differentiation, postoperative chemotherapy, and postoperative complications

Hazard Ratio Plot of OS

Subgroup		P Value
Tumor size		
3.2-		0.002
3.3+		0.287
pTNM		
I		0.036
II		0.026
III		0.49
Postoperative chemotherapy		
No		0.556
Yes		0.001

HR of ACCI

Supplementary Figure S1. Subgroup analysis of ACCI hazard ratio plot of overall survival.

Hazard Ratio Plot of CSS

Subgroup		P Value
Tumor size		
3.2-		0.002
3.3+		0.287
pTNM		
I		0.036
II		0.026
III		0.49
Postoperative chemotherapy		
No		0.556
Yes		0.001

HR of ACCI

Supplementary Figure S2. Subgroup analysis of ACCI hazard ratio plot of cancer-specific survival.