

Table S1 Cox multivariable analysis for OS and PFS in 366 cases sensitivity analysis

Characteristic	OS		PFS	
	HR (95% CI)	P value	HR (95% CI)	P value
SII				
Low	1 (reference)	NA	1 (reference)	NA
High	1.781 (1.474–2.310)	<0.001	1.562 (1.223–1.919)	<0.001
Sex				
Male	1 (reference)	NA	1 (reference)	NA
Female	0.601 (0.425–0.854)	0.01	0.801 (0.501–1.216)	0.21
Age, years				
<60	1 (reference)	NA	1 (reference)	NA
≥60	1.522 (0.179–1.918)	0.06	0.996 (0.919–1.224)	0.42
Smoking status				
Current or ex-smoker	1 (reference)	NA	1 (reference)	NA
Never smoker	1.423 (0.675–2.237)	0.43	1.025 (0.721–1.348)	0.65
ECOG score				
0–1	1 (reference)	NA	1 (reference)	NA
≥2	1.072 (0.787–1.390)	0.78	0.933 (0.647–1.011)	0.26
District				
Urban	1 (reference)	NA	1 (reference)	NA
Rural	0.899 (0.712–1.361)	0.83	0.881 (0.678–1.126)	0.21
Tumor location				
Central	1 (reference)	NA	1 (reference)	NA
Peripheral	0.924 (0.708–1.201)	0.55	0.820 (0.670–1.093)	0.20
T staging				
1–2	1 (Reference)	NA	1 (Reference)	NA
3–4	1.135 (0.899–1.624)	0.37	1.145 (0.872–1.536)	0.76
N staging				
0–1	1 (reference)	NA	1 (reference)	NA
2	1.683 (1.265–2.589)	0.001	1.584 (1.235–2.325)	0.003
3	2.771 (1.934–4.371)	<0.001	2.015 (1.237–2.793)	<0.001
Serum sodium				
Lower	1 (reference)	NA	1 (reference)	NA
Normal	0.866 (0.613–0.901)	0.02	0.787 (0.712–1.114)	0.21
Albumin level				
Lower	1 (reference)	NA	1 (reference)	NA
Normal	0.889 (0.7531–1.257)	0.42	0.918 (0.667–1.234)	0.41
Treatment modality				
Chemoradiotherapy	1 (reference)	NA	1 (reference)	NA
Chemotherapy	2.368 (1.283–4.432)	0.009	3.247 (1.822–5.781)	0.01
Radiotherapy	1.908 (1.572–6.363)	0.03	1.821 (0.634–5.132)	0.24
Cycles of chemotherapy				
<4	1 (reference)	NA	1 (reference)	NA
4–6	0.761 (0.611–1.151)	0.13	0.767 (0.554–0.955)	0.02
>6	0.933 (0.564–1.288)	0.45	0.658 (0.421–0.810)	0.02
Response				
CR + PR	1 (reference)	NA	1 (reference)	NA
SD	3.662 (2.354–4.014)	<0.001	2.998 (1.627–3.882)	<0.001
PD	7.821 (3.140–22.232)	<0.001	–	–
PCI				
Yes	1 (reference)	NA	1 (reference)	NA
No	1.447 (1.324–2.235)	0.001	2.101 (1.411–2.234)	<0.001
BM after treatment				
Yes	1 (reference)	NA	–	–
No	2.113 (1.146–2.105)	<0.001	–	–

OS, overall survival; PFS, progression free survival; 1 (reference), control; HR, hazard ratio; NA, not applicable; –, not counted; SII, systemic immune-inflammation index; ECOG, Eastern Cooperative Oncology Group; CR, complete response; PR, partial response; SD, stable disease; PD, progressive disease; PCI, prophylactic cranial irradiation; BM, brain metastasis.