

**Figure S1** Kaplan-Meier curves of OS according to baseline (A) NLR (≥3 vs. <3), (B) NLR ≥5 vs. <5, and (C) PLR (≥180 vs. <180). OS, overall survival; NLR, neutrophil-to-lymphocyte ratio; PLR, platelet-to-lymphocyte ratio; CI, confidence interval; NR, not reached.

Table S1 Logistic regression of irAE development within 6 months of pembrolizumab initiation

Variables	Univariable		Multivariable	
	OR (95% CI)	Р	OR (95% CI)	Р
Age (≥75 vs. <75)	0.52 (0.25–1.05)	0.07	0.57 (0.26–1.22)	0.15
Gender (male vs. female)	1.30 (0.68–2.51)	0.43	1.20 (0.59–2.43)	0.62
ECOG PS (2/3 vs. 0/1)	1.98 (1.00–3.95)	0.051	1.88 (0.92–3.92)	0.09
Liver metastases (present vs. none)	3.08 (0.82-14.78)	0.11	1.89 (0.45–9.86)	0.40
Brain metastases (present vs. none)	0.64 (0.21–1.78)	0.40	0.52 (0.15–1.64)	0.28
Histology (squamous vs. non-squamous)	1.30 (0.59–2.87)	0.51	0.90 (0.38–2.12)	0.82
Baseline NLR (≥6.4 vs. <6.4)	1.29 (0.65–2.56)	0.46	0.85 (0.36–1.94)	0.70
Baseline PLR (≥441.8 vs. <441.8)	2.09 (0.88–5.16)	0.10	2.14 (0.75–6.40)	0.16

irAE, immune-related adverse events; OR, odds ratio; CI, confidence interval; ECOG PS, Eastern Cooperative Oncology Group performance status; NLR, neutrophil-to-lymphocyte ratio; PLR, platelet-to-lymphocyte ratio.

Table S2 Logistic regression of irAE development within 8 months of pembrolizumab initiation

Variables	Univariable		Multivariable	
	OR (95% CI)	Р	OR (95% CI)	Р
Age (≥75 vs. <75)	0.62 (0.30–1.27)	0.19	0.66 (0.29–1.47)	0.31
Gender (male vs. female)	1.12 (0.57–2.21)	0.74	1.02 (0.48–2.18)	0.95
ECOG PS (2/3 vs. 0/1)	3.46 (1.62–7.75)	0.002	3.76 (1.69–8.88)	0.002
Liver metastases (present vs. none)	3.09 (0.71–21.27)	0.17	1.90 (0.36–14.77)	0.48
Brain metastases (present vs. none)	0.70 (0.25–1.96)	0.50	0.44 (0.12–1.44)	0.18
Histology (squamous vs. non-squamous)	1.02 (0.45–2.36)	0.96	0.59 (0.22-1.53)	0.28
Baseline NLR (≥6.4 vs. <6.4)	1.27 (0.62–2.63)	0.51	0.79 (0.32–1.94)	0.62
Baseline PLR (≥441.8 vs. <441.8)	2.13 (0.84–5.90)	0.12	2.68 (0.85-9.29)	0.10

irAE, immune-related adverse events; OR, odds ratio; CI, confidence interval; ECOG PS, Eastern Cooperative Oncology Group performance status; NLR, neutrophil-to-lymphocyte ratio; PLR, platelet-to-lymphocyte ratio.