

**Supplementary Table 1.** Factors influencing progression free survival (PFS) and overall survival (OS) in all patients.

Variables	PFS						OS					
	Univariate			Multivariate			Univariate			Multivariate		
	HR	95% CI	<i>P</i>	HR	95% CI	<i>P</i>	HR	95% CI	<i>P</i>	HR	95% CI	<i>P</i>
Age ≥ 75 years	1.300	0.943–1.793	0.109				1.572	0.979–2.524	0.061			
Gender (male)	0.792	0.587–1.067	0.125				0.918	0.583–1.444	0.710			
ECOG PS ≥ 2	1.893	1.378–2.600	<0.001	1.458	1.007–2.112	0.046	2.160	1.358–3.434	0.001	1.802	1.107–2.934	0.018
LDH >ULN	1.725	1.198–2.484	0.003	2.220	1.421–3.469	<0.001	2.534	1.542–4.162	<0.001	2.592	1.531–4.387	<0.001
ACCI ≥ 4	1.009	0.748–1.360	0.954				1.220	0.771–1.929	0.395			
Creatinine < 30 mL/min	1.006	0.702–1.444	0.972				1.350	0.802–2.273	0.258			
ISS III	1.444	1.072–1.945	0.016	0.617	0.085–4.462	0.632	1.688	1.065–2.676	0.026	0.141	0.018–1.139	0.066
Cytogenetic high risk	1.707	1.140–2.558	0.009	1.349	0.866–2.099	0.185	1.350	0.730–2.498	0.339			
Sβ2MG ≥ 5.5 mg/L	1.486	1.104–2.001	0.009	2.141	0.299–15.321	0.448	1.784	1.123–2.834	0.014	12.559	1.550–101.736	0.018
Albumin < 3.5 g/dL	1.985	1.464–2.691	<0.001	1.890	1.302–2.743	0.001	2.025	1.264–3.247	0.003	1.759	1.062–2.913	0.028
Early severe infection	2.349	1.659–3.327	<0.001	1.768	1.160–2.695	0.008	2.672	1.641–4.352	<0.001	2.083	1.220–3.556	0.007
Beast response ≥ VGPR	0.421	0.310–0.572	<0.001	0.415	0.291–0.592	<0.001	0.330	0.198–0.552	<0.001	0.329	0.193–0.563	<0.001

Abbreviations: ACCI, Age-adjusted Charlson Comorbidity Index; CI, confidence interval; ECOG PS, Eastern Cooperative Oncology Group performance status; HR, hazard ratio; ISS, International Staging System; LDH, lactate dehydrogenase; Sβ2MG, serum β2-microglobulin; ULN, upper limit of normal; VGPR, very good partial response.