**Table S4:**

**Multivariate analyses of risk factors affecting overall survival (OS) in MSS/EBV− subgroup stratified for different PD-L1 expression (N=161)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| MSS/EBV− | Characteristics |  | HR (95%CI)a | *P* |
| PD-L1−(n=104) | CTx | No | 1.00 | <0.001 |
| Yes | 0.357(0.217-0.587) |
| PD-L1+(n=57) | CTx | No | 1.00 | 0.090 |
| Yes | 0.499(0.223-1.117) |

MSS: microsatellite stable; EBV: Epstein-Barr Virus; PD-L1: programmed cell death ligand 1; CTx: Chemotherapy. HR: Hazard ratio; CI: Confidence interval.

a95%CI was calculated with multivariate Cox regression, adjusting for the variables that *P*<0.10 from the univariate analysis, such as WHO classification, histological grade, vascular invasion, neural invasion, postoperative chemotherapy and TNM stage.