

Factors	HR(Multivariate)–OS	P value	significance
distal_Stroma	1.045	0.623	
distal_Necrosis	1.157	0.102	
distal_Lymphocyte	0.806	0.014	*
distal_Normal_hepatic	0.784	0.009	**
distal_Mucus	1.179	0.061	
distal_CH_score	1.151	0.108	
distal_SDI	1.078	0.392	
infiltrating_Stroma	1.039	0.662	
infiltrating_Necrosis	1.148	0.116	
infiltrating_Lymphocyte	0.832	0.032	*
infiltrating_Normal_hepatic	0.887	0.175	
infiltrating_Mucus	1.148	0.104	
infiltrating_CH_score	0.991	0.916	
infiltrating_SDI	1.064	0.478	
tumor_proximal_stroma_interaction	1.046	0.609	
tumor_proximal_Necrosis_interaction	1.112	0.231	
tumor_proximal_Lymphocyte_interaction	0.861	0.079	
tumor_proximal_Normal_hepatic_interaction	1.092	0.309	
tumor_proximal_Mucus_interaction	1.075	0.418	
overall_Stroma	1.054	0.551	
overall_Necrosis	1.119	0.210	
overall_Lymphocyte	0.879	0.129	
overall_Normal_hepatic	0.816	0.024	*
overall_Mucus	1.129	0.160	
overall_CH_score	1.032	0.707	
overall_SDI	1.025	0.776	