

Factors	HR(Multivariate)–OS	P value	significance
distal_Stroma	0.983	0.086	
distal_Necrosis	1.000	0.996	
distal_Lymphocyte	0.924	0.018	*
distal_Normal_hepatic	0.993	0.146	
distal_Mucus	1.011	0.331	
distal_CH_score	1.001	0.662	
distal_SDI	0.797	0.666	
infiltrating_Stroma	0.999	0.913	
infiltrating_Necrosis	1.053	0.004	**
infiltrating_Lymphocyte	1.006	0.883	
infiltrating_Normal_hepatic	1.005	0.565	
infiltrating_Mucus	1.016	0.735	
infiltrating_CH_score	1.000	0.269	
infiltrating_SDI	1.317	0.480	
tumor_proximal_stroma_interaction	0.958	0.839	
tumor_proximal_Necrosis_interaction	0.823	0.492	
tumor_proximal_Lymphocyte_interaction	0.494	0.036	*
tumor_proximal_Normal_hepatic_interaction	0.519	0.183	
tumor_proximal_Mucus_interaction	1.233	0.469	
overall_Stroma	0.989	0.154	
overall_Necrosis	1.009	0.257	
overall_Lymphocyte	0.956	0.069	
overall_Normal_hepatic	0.996	0.292	
overall_Mucus	1.010	0.349	
overall_CH_score	1.000	0.139	
overall_SDI	1.435	0.371	