

Factors	HR(Multivariate)–OS	P value	significance
distal_Stroma	0.984	0.071	
distal_Necrosis	1.007	0.398	
distal_Lymphocyte	0.932	0.016	*
distal_Normal_hepatic	0.992	0.065	
distal_Mucus	1.006	0.580	
distal_CH_score	1.002	0.519	
distal_SDI	1.062	0.890	
infiltrating_Stroma	0.996	0.673	
infiltrating_Necrosis	1.034	0.002	**
infiltrating_Lymphocyte	1.001	0.973	
infiltrating_Normal_hepatic	1.009	0.198	
infiltrating_Mucus	0.966	0.282	
infiltrating_CH_score	1.000	0.534	
infiltrating_SDI	1.301	0.410	
tumor_proximal_stroma_interaction	1.028	0.879	
tumor_proximal_Necrosis_interaction	1.098	0.659	
tumor_proximal_Lymphocyte_interaction	0.505	0.025	*
tumor_proximal_Normal_hepatic_interaction	0.801	0.576	
tumor_proximal_Mucus_interaction	0.965	0.886	
overall_Stroma	0.989	0.094	
overall_Necrosis	1.014	0.025	*
overall_Lymphocyte	0.964	0.069	
overall_Normal_hepatic	0.997	0.317	
overall_Mucus	1.000	0.967	
overall_CH_score	1.000	0.298	
overall_SDI	1.482	0.237	