

Factors	HR(Multivariate)–OS	P value	significance
distal_Stroma	0.847	0.136	
distal_Necrosis	1.093	0.415	
distal_Lymphocyte	0.740	0.005	**
distal_Normal_hepatic	0.897	0.341	
distal_Mucus	0.957	0.678	
distal_CH_score	1.416	0.001	**
distal_SDI	1.037	0.736	
infiltrating_Stroma	0.894	0.314	
infiltrating_Necrosis	1.229	0.061	
infiltrating_Lymphocyte	0.907	0.379	
infiltrating_Normal_hepatic	1.274	0.028	*
infiltrating_Mucus	1.134	0.249	
infiltrating_CH_score	1.132	0.240	
infiltrating_SDI	1.077	0.485	
tumor_proximal_stroma_interaction	0.951	0.644	
tumor_proximal_Necrosis_interaction	0.944	0.596	
tumor_proximal_Lymphocyte_interaction	0.756	0.009	**
tumor_proximal_Normal_hepatic_interaction	1.286	0.022	*
tumor_proximal_Mucus_interaction	1.307	0.011	*
overall_Stroma	0.686	8.360e–04	***
overall_Necrosis	1.152	0.193	
overall_Lymphocyte	0.697	0.001	**
overall_Normal_hepatic	1.001	0.995	
overall_Mucus	1.092	0.394	
overall_CH_score	1.130	0.243	
overall_SDI	0.989	0.921	