

Factors	HR(Multivariate)–OS	P value	significance
distal_Stroma	0.960	0.690	
distal_Necrosis	1.115	0.288	
distal_Lymphocyte	0.822	0.056	
distal_Normal_hepatic	0.854	0.138	
distal_Mucus	1.172	0.114	
distal_CH_score	1.137	0.215	
distal_SDI	1.089	0.409	
infiltrating_Stroma	1.043	0.680	
infiltrating_Necrosis	1.184	0.098	
infiltrating_Lymphocyte	0.884	0.220	
infiltrating_Normal_hepatic	0.944	0.569	
infiltrating_Mucus	1.181	0.098	
infiltrating_CH_score	1.047	0.658	
infiltrating_SDI	1.126	0.245	
tumor_proximal_stroma_interaction	1.039	0.711	
tumor_proximal_Necrosis_interaction	1.178	0.106	
tumor_proximal_Lymphocyte_interaction	0.842	0.088	
tumor_proximal_Normal_hepatic_interaction	1.151	0.161	
tumor_proximal_Mucus_interaction	0.966	0.742	
overall_Stroma	0.964	0.714	
overall_Necrosis	1.185	0.105	
overall_Lymphocyte	0.879	0.212	
overall_Normal_hepatic	0.884	0.234	
overall_Mucus	1.073	0.481	
overall_CH_score	1.093	0.385	
overall_SDI	0.958	0.671	