

The constructed radiomics signature

The radiomics signature constructed by linear fitting based on the coefficient weights of the 31 radiomics features was as follows:

Risk score = CE-T1WI_exponential_firstorder_10Percentile×0.09646 +
CE-T1WI_exponential_glcm_Correlation×(-0.55328)+CE-T1WI_exponential_glcm_MCC×0.31417+CE-T1WI_lbp.3D.m1_firstorder_Median×(-0.15658)+
CE-T1WI_lbp.3D.m1_glcm_ClusterShade×0.2069+CE-T1WI_lbp.3D.m2_glrlm_RunEntropy×0.15347+CE-T1WI_lbp.3D.m2_glszm_ZoneEntropy×0.16898+CE-T1WI_logarithm_firstorder_Kurtosis×(-0.09303)+CE-T1WI_original_glcm_ClusterShade×(-0.10796)+CE-T1WI_original_glszm_LowGrayLevelZoneEmphasis×(-0.03859)+CE-T1WI_square_glrlm_RunLengthNonUniformity×0.06094+CE-T1WI_wavelet.LLH_glcm_JointEnergy×(-0.02118)+CE-T1WI_wavelet.LHH_gldm_DependenceEntropy×0.11185+CE-T1WI_wavelet.HHL_firstorder_Kurtosis×(-0.00051)+CE-T1WI_wavelet.HHL_glcm_MCC×(-0.17998)+CE-T1WI_wavelet.HHL_glrlm_ShortRunHighGrayLevelEmphasis×0.16793+CE-T1WI_wavelet.HHH_glcm_MCC×(-0.10809)+CE-T1WI_wavelet.LLL_glcm_JointAverage×0.14795+CE-T1WI_wavelet.LLL_glrlm_ShortRunLowGrayLevelEmphasis×(-0.01716)+CE-T1WI_wavelet.LLL_glszm_LowGrayLevelZoneEmphasis×(-0.15336)+T2FLAIR_exponential_glcm_ClusterTendency×0.00633+T2FLAIR_gradient_glcm_DifferenceVariance×(-0.15272)+T2FLAIR_gradient_glszm_SmallAreaLowGrayLevelEmphasis×0.00004+T2FLAIR_lbp.2D_glcm_Autocorrelation×(-0.07774)+T2FLAIR_lbp.3D.m2_glcm_Autocorrelation×(-0.05196)+T2FLAIR_lbp.3D.m2_glcm_ClusterShade×0.15457+T2FLAIR_lbp.3D.k_firstorder_Variance×(-0.03765)+T2FLAIR_lbp.3D.k_gldm_LargeDependenceHighGrayLevelEmphasis×0.05898+T2FLAIR_wavelet.LLH_glcm_Imc2×(-0.22901)+T2FLAIR_wavelet.LHH_glcm_Imc2×(-0.01516)+T2FLAIR_wavelet.LLL_glszm_HighGrayLevelZoneEmphasis×(-0.19333).

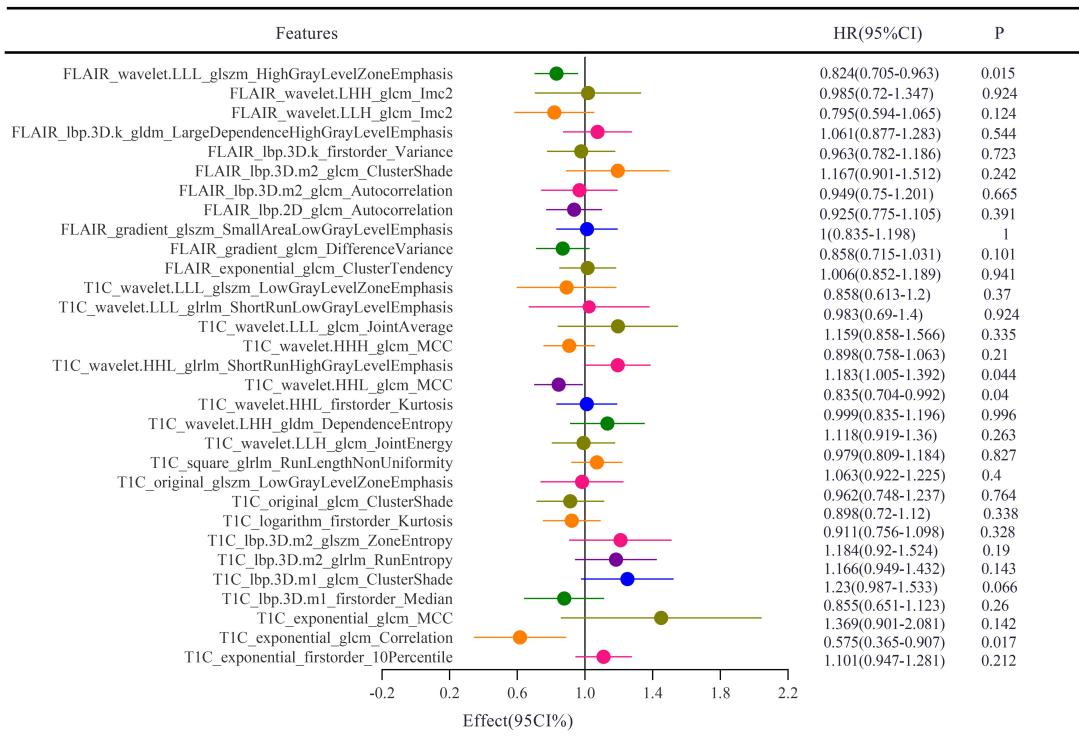


Figure S1. HR values with 95% CI and p values of each selected feature of the radiomics model on the forest plot in the training cohort