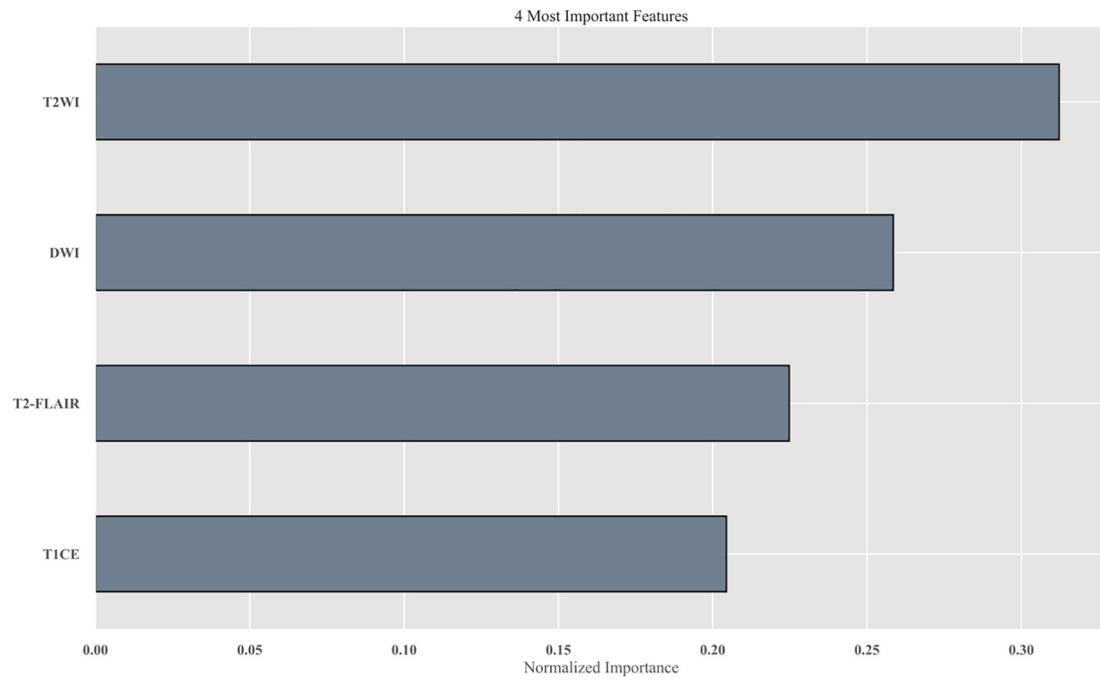## Appendix 1

T2WI: Rad-score = 0.19965 − 0.331664545 × Image-Original-Mean − 0.03502687 × Original-Glcm-Idmn − 0.256261453 × Original-Glrlm-Short Run High Gray Level Emphasis + 0.276197365 × Log-sigma-1-0-mm-3D-Glszm-Zone Entropy − 0.251576714 × Log-sigma-2-0-mm-3D-Glcm-Idmn − 0.175673073 × Log-sigma-2-0-mm-3D-Glcm-Sum Entropy + 0.28782291 × Log-sigma-2-0-mm-3D-Gldm-Dependence Entropy − 0.219606782 × Log-sigma-3-0-mm-3D-Glszm-Zone Entropy − 0.068113062 × Log-sigma-4-0-mm-3D-First Order- Maximum − 0.235997951 × Log-sigma-5-0-mm-3D-Glcm-Difference Variance + 0.246599268 × Log-sigma-5-0-mm-3D-glrlm-Run Entropy − 0.229129563 × Log-sigma-5-0-mm-3D-ngtdm- Busyness − 0.163026314 × Wavelet-HLL-Glcm-Cluster Shade − 0.358560074 × Wavelet-HLH-First Order-Median + 0.008785823 × Wavelet-HLH-Glcm-Idn + 0.095599055 × Wavelet-HHL-First Order- Maximum − 0.212588532 × Wavelet-HHL-Glcm-Joint Average − 0.209118537 × Wavelet-HHL-Glcm-Sum Average + 0.109205988 × Wavelet-HHL-Glrlm-Long Run High Gray Level Emphasis + 0.294463964 × Wavelet-HHL-Glszm-Large Area Low Gray Level Emphasis + 0.147251328 × Wavelet-HHL-Ngtdm-Complexity − 0.04185202 × Wavelet-LLL-First Order-10Percentile + 0.177908313 × Wavelet-LLL-First Order-90Percentile − 0.025656561 × Wavelet-LLL-First Order- Kurtosis − 0.266803686 × Wavelet-LLL-Glcm-Imc1

T2-FLAIR: Rad-score = 0.185398 + 0.112300 × Image-Original-Mean + 0.147981 × Image-interpolated-Minimum + 0.117452 × Original-Glrlm-Short Run Emphasis + 0.228635 × Log-sigma-3-0-mm-3D-First Order-Mean − 0.217290 × Log-sigma-5-0-mm-3D-Glcm-Imc1 − 0.169647 × Wavelet-LLH-Glcm-SumSquares + 0.031089 × Wavelet-LHL-First Order-Median − 0.149226 × Wavelet-LHL-Glcm-Idn − 0.021824 × Wavelet-LHL-Gldm-Dependence Variance − 0.065377 × Wavelet-HLH-Glcm-Idmn + 0.053452 × Wavelet-HHL-Firstorder-Minimum − 0.161788 × Wavelet-HHL-Glcm-Correlation − 0.060375 × Wavelet-LLL-Firstorder-10Percentile + 0.111716 × Wavelet-LLL-Firstorder-Skewness

DWI: Rad-score = −0.036005 − 0.420555 × Image-Original-Maximum − 0.074935 × Original-Firstorder-Kurtosis + 0.250063 × Original-Glcm-Difference Variance − 0.276315 × Log-sigma-1-0-mm-3D-First Order-Kurtosis + 0.471823 × Log-sigma-1-0-mm-3D-Glcm-Cluster Shade − 0.109602 × Log-sigma-2-0-mm-3D-First Order-Minimum + 0.043097 × Log-sigma-2-0-mm-3D-Glrlm-Long Run High Gray Level Emphasis − 0.049561 × Log-sigma-4-0-mm-3D-Glcm-Autocorrelation − 0.131494 × Log-sigma-4-0-mm-3D-Gldm-Small Dependence High Gray Level Emphasis − 0.038657 × Log-sigma-5-0-mm-3D-Glrlm-Short Run High Gray Level Emphasis − 0.085887 × Wavelet-LLH-First Order-Variance − 0.071829 × Wavelet-LLH-Glcm-Contrast − 0.061309 × Wavelet-LLH-Gldm-Small Dependence High Gray Level Emphasis − 0.107961 × Wavelet-LHL-Gldm-Large Dependence High Gray Level Emphasis + 0.064648 × Wavelet-HLL-Glcm-Cluster Shade − 0.179056 × Wavelet-HHL-First Order-Skewness − 0.013555 × Wavelet-HHL-Glcm-Idmn − 0.119982 × Wavelet-HHH-Firstorder-Kurtosis + 0.399428 × Wavelet-HHH- Glcm-Contrast.24 + 0.281682 × Wavelet-LLL Firstorder-Skewness

T1CE: Rad-score = 0.256693 + 0.303126 × Image-Original-Maximum + 0.076783 × Image-interpolated-Mean + 0.015049 × Image-interpolated-Maximum + 0.039955 × Mask-interpolated-Minimum − 0.018334 × Original-First Order-Interquartile Range + 0.026856 × Original-First Order-Minimum − 0.008971 × Log-sigma-1-0-mm-3D-First Order- Range − 0.011156 × Log-sigma-2-0-mm-3D-Ngtdm-Complexity + 0.044447 × Log-sigma-4-0-mm-3D-First Order-Mean − 0.085864 × Wavelet-LLH-Glcm-Correlation + 0.086971 × Wavelet-LHL-Glcm-Imc2 + 0.070303 × Wavelet-LHL-Glcm-MCC − 0.136127 × Wavelet-LHL-Glszm-Zone Percentage − 0.019090 × Wavelet-LHH-Glcm-Correlation + 0.028159 × Wavelet-LHH-Glszm-Small Area Emphasis − 0.009856 × Wavelet-HLH-Glcm-Idmn + 0.122307 × Wavelet-HHL-Glcm-ClusterShade + 0.131166 × Wavelet-HHL-Glrlm-Run Length Non Uniformity Normalized + 0.113861 × Wavelet-LLL-First Order-Minimum − 0.248441 × Wavelet-LLL-Ngtdm-Contrast

Figure S1 Normalized importance of T2WI, DWI, T2-FLAIR, and T1-CE in the combined model. T2WI, T2-weighted imaging; DWI, diffusion-weighted imaging; T2-FLAIR, T2 fluid-attenuated inversion recovery; T1-CE, contrast-enhanced T1-weighted imaging.