Appendix 1

1. Rad-score (intra-tumoral ultrasound Radiomics model) = 0.3245283018867949 + 0.000366 * intra_original_firstorder_Minimum – 0.000609 * intra_original_firstorder_TotalEnergy + 0.038934 * intra_original_glcm_Idmn + 0.009054 * intra_original_glcm_MCC + 0.008807 * intra_original_glrlm_LongRunHighGrayLevelEmphasis + 0.035892 * intra_original_glrlm_LowGrayLevelRunEmphasis + 0.048566 * intra_original_ glrlm_RunEntropy + 0.067070 * intra_original_glszm_GrayLevelNonUniformity – 0.072016 * intra_original_glszm_LargeAreaHighGrayLevelEmphasis + 0.019576 * intra_original_glszm_SizeZoneNonUniformity + 0.005535 * intra_original_glszm_SmallAreaLowGrayLevelEmphasis – 0.013511 * intra_ original_ngtdm_Contrast + 0.168121 * intra_original_shape_Elongation + 0.113672 * intra_original_shape_Maximum3DDiameter + 0.055753 * intra_ original_shape_SurfaceVolumeRatio.

2. Rad-score (intra-tumoral combined peri-tumoral ultrasound Radiomics model) = 0.3245283018867948 + 0.010431 * intra_original_firstorder_Minimum – 0.012548 * intra_original_firstorder_TotalEnergy + 0.044222 * intra_original_glcm_Contrast + 0.038485 * intra_original_glcm_Idmn + 0.026819 * intra_original_glcm_Imc1 – 0.035756 * intra_original_gldm_GrayLevelNonUniformity + 0.004343 * intra_original_glrlm_LongRunHighGrayLevelEmphasis + 0.036033 * intra_original_glrlm_LowGrayLevelRunEmphasis + 0.032856 * intra_original_glrlm_RunEntropy + 0.001761 * intra_original_glrlm_RunPercentage + 0.045726 * intra_original_glrlm_ShortRunEmphasis – 0.054379 * intra_original_glszm_LargeAreaHighGrayLevelEmphasis + 0.038748 * intra_original_glszm_SizeZoneNonUniformity – 0.057946 * intra_original_glszm_ZoneEntropy – 0.043282 * intra_original_ngtdm_Busyness – 0.007698 * intra_original_ngtdm_Contrast + 0.042842 * intra_original_ngtdm_Strength + 0.045331 * intra_original_shape_SurfaceVolumeRatio + 0.114245 * peri_original_firstorder_10Percentile – 0.096648 * peri_original_firstorder_Maximum – 0.062812 * peri_original_firstorder_Minimum – 0.011152 * peri_original_firstorder_RobustMeanAbsoluteDeviation – 0.017004 * peri_original_glcm_ClusterProminence + 0.135194 * peri_original_glcm_Idn – 0.021447 * peri_original_glcm_Imc1 + 0.018190 * peri_original_glcm_MaximumProbability – 0.073709 * peri_original_gldm_DependenceVariance + 0.010953 * peri_original_glrlm_GrayLevelNonUniformity – 0.069274 * peri_original_glrlm_LongRunLowGrayLevelEmphasis + 0.071068 * peri_original_glszm_GrayLevelNonUniformity – 0.016455 * peri_original_glszm_GrayLevelVariance + 0.088708 * peri_original_glszm_LowGrayLevelZoneEmphasis + 0.105085 * peri_original_glszm_ZoneEntropy – 0.040601 * peri_original_glszm_ZoneVariance + 0.013239 * peri_original_ngtdm_Busyness – 0.003644 * peri_original_ngtdm_Coarseness + 0.160328 * peri_original_shape_Elongation – 0.006252 * peri_original_shape_SurfaceVolumeRatio + 0.157836 * peri_original_shape_VoxelVolume)

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