Appendix

Imaging acquisition

All CT scans from center 1 were performed using Siemens (SOMATOM Definition FLASH, Siemens Healthcare) and Philips (Brilliance 64, Philips Medical Systems) scanners with axial 5-mm section thickness. The same CT scanning parameters were performed with a scanning energy of 120 kVp tube voltage and the automatic tube current modulation technique. The image matrix size was 512×512. The CT scans from center 2 were conducted on the following devices: BrightSpeed RT 16 Elite, LightSpeed CT750 HD (GE Healthcare, Milwaukee WI, USA), and SOMATOM Sensation 64 (Siemens, Forchheim, Germany). The acquisition and reconstruction parameters were: tube current 150–200 mA, tube voltage of 100 or 120 kV, pitch 0.8, and matrix size 512×512. Section thickness was set at 5 or 6 mm.

Table S1 Image predictors of HE

Radiomics features	Weight	P value
original_glrlm_RunLengthNonUniformityNormalized	1	0.0389
original_firstorder_Minimum	0.9742	0.0028
wavelet-LLL_glszm_LowGrayLevelZoneEmphasis	0.8165	0.0002
original_glrlm_RunLengthNonUniformity	0.7014	0.0486
logarithm_glcm_MaximumProbability	0.6343	0.0311
original_glcm_Idn	0.6181	0.0001
squareroot_glszm_GrayLevelNonUniformityNormalized	0.6055	0.0349
wavelet-HLH_firstorder_Uniformity	0.5885	0.0025
original_glszm_GrayLevelNonUniformity	0.5732	0.0001
wavelet-LLL_gldm_DependenceNonUniformityNormalized	0.5442	0.0069
squareroot_gldm_DependenceEntropy	0.5308	0.0001
logarithm_glszm_SmallAreaEmphasis	0.4905	0.0036
original_glcm_Imc1	0.4752	0.0001
wavelet-LHL_glszm_ZoneVariance	0.4609	0.0017
lbp-3D-k_glszm_ZonePercentage	0.45	0.0005
logarithm_glszm_LowGrayLevelZoneEmphasis	0.4475	0.0481
squareroot_gldm_SmallDependenceLowGrayLevelEmphasis	0.4466	0.0142
gradient_glszm_ZoneEntropy	0.4336	0.0001
original_gldm_LargeDependenceEmphasis	0.3966	0.0001
original_glszm_LargeAreaHighGrayLevelEmphasis	0.3928	0.0008

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