

Supplementary File

Title: A radiomics model that predicts lymph node status in pancreatic cancer to guide clinical decision making: A retrospective study

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Table 1 radiomic features extracted, detail description for each feature refer <http://github.com/Radiomics/pyradiomics>

Feature category	Feature list
firstorder	10Percentile, 90Percentile, Energy, Entropy, InterquartileRange, Kurtosis, Maximum, Mean, MeanAbsoluteDeviation, Median, Minimum, Range, RobustMeanAbsoluteDeviation, RootMeanSquared, Skewness, TotalEnergy, Uniformity, Variance, log-sigma-1-0_Mean, log-sigma-1-0_Maximum, log-sigma-1-0_Median, log-sigma-1-0_Minimum, log-sigma-1-0_Energy, log-sigma-1-0_Entropy, log-sigma-1-0_Kurtosis, log-sigma-1-0_MeanAbsoluteDeviation, log-sigma-1-0_Skewness, log-sigma-1-0_Uniformity
Shape	Flatness, LeastAxisLength, MajorAxisLength, Maximum2DDiameterColumn, Maximum2DDiameterRow, Maximum2DDiameterSlice, Maximum3DDiameter, MeshVolume, MinorAxisLength, Sphericity, SurfaceArea, SurfaceVolumeRatio, VoxelVolume
glcm	glcm_Autocorrelation, glcm_ClusterProminence, glcm_ClusterShade, glcm_ClusterTendency, glcm_Contrast, glcm_Correlation, glcm_DifferenceAverage, glcm_DifferenceEntropy, glcm_DifferenceVariance, glcm_Id, glcm_Idm, glcm_Idmn, glcm_Idn, glcm_Imc1,

	<p>glcm_Imc2, glcm_InverseVariance, glcm_JointAverage, glcm_JointEnergy, glcm_JointEntropy, glcm_MCC, glcm_MaximumProbability, glcm_SumAverage, glcm_SumEntropy, glcm_SumSquares</p>
gldm	<p>gldm_DependenceEntropy, gldm_DependenceNonUniformity, gldm_DependenceNonUniformityNormalized, gldm_DependenceVariance, gldm_GrayLevelNonUniformity, gldm_GrayLevelVariance, gldm_HighGrayLevelEmphasis, gldm_LargeDependenceEmphasis, gldm_LargeDependenceHighGrayLevelEmphasis, gldm_LargeDependenceLowGrayLevelEmphasis, gldm_LowGrayLevelEmphasis, gldm_SmallDependenceEmphasis, gldm_SmallDependenceHighGrayLevelEmphasis, gldm_SmallDependenceLowGrayLevelEmphasis</p>
glrlm	<p>glrlm_GrayLevelNonUniformity, glrlm_GrayLevelNonUniformityNormalized, glrlm_GrayLevelVariance, glrlm_HighGrayLevelRunEmphasis, glrlm_LongRunEmphasis, glrlm_LongRunHighGrayLevelEmphasis, glrlm_LongRunLowGrayLevelEmphasis, glrlm_LowGrayLevelRunEmphasis, glrlm_RunEntropy, glrlm_RunLengthNonUniformity, glrlm_RunLengthNonUniformityNormalized, glrlm_RunPercentage, glrlm_RunVariance, glrlm_ShortRunEmphasis, glrlm_ShortRunHighGrayLevelEmphasis, glrlm_ShortRunLowGrayLevelEmphasis</p>
glszm	<p>glszm_GrayLevelNonUniformity,</p>

	glszm_GrayLevelNonUniformityNormalized, glszm_GrayLevelVariance, glszm_HighGrayLevelZoneEmphasis, glszm_LargeAreaEmphasis, glszm_LargeAreaHighGrayLevelEmphasis, glszm_LargeAreaLowGrayLevelEmphasis, glszm_LowGrayLevelZoneEmphasis, glszm_SizeZoneNonUniformity, glszm_SizeZoneNonUniformityNormalized, glszm_SmallAreaEmphasis, glszm_SmallAreaHighGrayLevelEmphasis, glszm_SmallAreaLowGrayLevelEmphasis, glszm_ZoneEntropy, glszm_ZonePercentage, glszm_ZoneVariance
ngtdm	ngtdm_Busyness, ngtdm_Coarseness, ngtdm_Complexity, ngtdm_Contrast, ngtdm_Strength