**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             | glmc_Autocorrelation, glmc_ClusterProminence,                              |
|                  | glmc_ClusterShade, glmc_ClusterTendency, glmc_Contrast,                    |
|                  | glmc_Correlation, glmc_DifferenceAverage,                                 |
|                  | glmc_DifferenceEntropy, glmc_DifferenceVariance,                           |
|                  | glmc_Id, glmc_Idm, glmc_Idmn, glmc_Idn, glmc_Imc1,                        |
| Feature          |
|------------------|
| glcm_Imc2, glcm_InverseVariance, glcm_JointAverage, glcm_JointEnergy, glcm_JointEntropy, glcm_MCC, glcm_MaximumProbability, glcm_SumAverage, glcm_SumEntropy, glcm_SumSquares |
| gldm             |
| 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 |
| glrlm            |
| 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 |
| glszm            |
| glszm_GrayLevelNonUniformity |
| Class | Features |
|-------|----------|
| glszm | 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 |