Supplemental data 1. Features extracted for each imaging sequence

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| --- | --- | --- |
| Type | Features | Number |
| Shape | original\_shape\_Elongation,  original\_shape\_Flatness,  original\_shape\_LeastAxisLength, original\_shape\_MajorAxisLength, original\_shape\_Maximum2DDiameterColumn, original\_shape\_Maximum2DDiameterRow, original\_shape\_Maximum2DDiameterSlice, original\_shape\_Maximum3DDiameter, original\_shape\_MeshVolume,  original\_shape\_MinorAxisLength,  original\_shape\_Sphericity,  original\_shape\_SurfaceArea,  original\_shape\_SurfaceVolumeRatio, original\_shape\_VoxelVolume | 14 |
| First-order | original\_firstorder\_10Percentile,  original\_firstorder\_90Percentile,  original\_firstorder\_Energy,  original\_firstorder\_Entropy,  original\_firstorder\_InterquartileRange,  original\_firstorder\_Kurtosis,  original\_firstorder\_Maximum,  original\_firstorder\_MeanAbsoluteDeviation,  original\_firstorder\_Mean,  original\_firstorder\_Median,  original\_firstorder\_Minimum,  original\_firstorder\_Range,  original\_firstorder\_RobustMeanAbsoluteDeviation,  original\_firstorder\_RootMeanSquared,  original\_firstorder\_Skewness,  original\_firstorder\_TotalEnergy,  original\_firstorder\_Uniformity,  original\_firstorder\_Variance | 18 |
| GLCM | original\_glcm\_Autocorrelation,  original\_glcm\_JointAverage,  original\_glcm\_ClusterProminence,  original\_glcm\_ClusterShade,  original\_glcm\_ClusterTendency,  original\_glcm\_Contrast,  original\_glcm\_Correlation,  original\_glcm\_DifferenceAverage,  original\_glcm\_DifferenceEntropy,  original\_glcm\_DifferenceVariance,  original\_glcm\_JointEnergy,  original\_glcm\_JointEntropy,  original\_glcm\_Imc1,  original\_glcm\_Imc2,  original\_glcm\_Idm,  original\_glcm\_Idmn,  original\_glcm\_Id,  original\_glcm\_Idn,  original\_glcm\_InverseVariance,  original\_glcm\_MaximumProbability,  original\_glcm\_SumEntropy,  original\_glcm\_SumSquares | 22 |
| GLRLM | original\_glrlm\_GrayLevelNonUniformity,  original\_glrlm\_GrayLevelNonUniformityNormalized,  original\_glrlm\_GrayLevelVariance,  original\_glrlm\_HighGrayLevelRunEmphasis,  original\_glrlm\_LongRunEmphasis,  original\_glrlm\_LongRunHighGrayLevelEmphasis,  original\_glrlm\_LongRunLowGrayLevelEmphasis,  original\_glrlm\_LowGrayLevelRunEmphasis,  original\_glrlm\_RunEntropy,  original\_glrlm\_RunLengthNonUniformity,  original\_glrlm\_RunLengthNonUniformityNormalized,  original\_glrlm\_RunPercentage,  original\_glrlm\_RunVariance,  original\_glrlm\_ShortRunEmphasis,  original\_glrlm\_ShortRunHighGrayLevelEmphasis,  original\_glrlm\_ShortRunLowGrayLevelEmphasis | 16 |
| GLSZM | original\_glszm\_GrayLevelNonUniformity,  original\_glszm\_GrayLevelNonUniformityNormalized,  original\_glszm\_GrayLevelVariance,  original\_glszm\_HighGrayLevelZoneEmphasis,  original\_glszm\_LargeAreaEmphasis,  original\_glszm\_LargeAreaHighGrayLevelEmphasis,  original\_glszm\_LargeAreaLowGrayLevelEmphasis,  original\_glszm\_LowGrayLevelZoneEmphasis,  original\_glszm\_SizeZoneNonUniformity,  original\_glszm\_SizeZoneNonUniformityNormalized,  original\_glszm\_SmallAreaEmphasis,  original\_glszm\_SmallAreaHighGrayLevelEmphasis,  original\_glszm\_SmallAreaLowGrayLevelEmphasis,  original\_glszm\_ZoneEntropy,  original\_glszm\_ZonePercentage,  original\_glszm\_ZoneVariance | 16 |
| GLDM | original\_gldm\_DependenceEntropy,  original\_gldm\_DependenceNonUniformity,  original\_gldm\_DependenceNonUniformityNormalized,  original\_gldm\_DependenceVariance,  original\_gldm\_GrayLevelNonUniformity,  original\_gldm\_GrayLevelVariance,  original\_gldm\_HighGrayLevelEmphasis,  original\_gldm\_LargeDependenceEmphasis,  original\_gldm\_LargeDependenceHighGrayLevelEmphasis,  original\_gldm\_LargeDependenceLowGrayLevelEmphasis,  original\_gldm\_LowGrayLevelEmphasis,  original\_gldm\_SmallDependenceEmphasis,  original\_gldm\_SmallDependenceHighGrayLevelEmphasis,  original\_gldm\_SmallDependenceLowGrayLevelEmphasis | 14 |

Note. GLCM, grey level co-occurrence matrix. GLRLM, grey-level run length matrix. GLSZM, grey-level size zone matrix. GLDM, gray level dependence matrix.