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.