

Supplementary Materials

Table S1. List of all radiomic features

No#	Features	Description
1	Shape features	VoxelVolume
2		Maximum3DDiameter
3		MeshVolume
4		MajorAxisLength
5		Sphericity
6		LeastAxisLength
7		Elongation
8		SurfaceVolumeRatio
9		Maximum2DDiameterSlice
10		Flatness
11		SurfaceArea
12		MinorAxisLength
13		Maximum2DDiameterColumn
14		Maximum2DDiameterRow
15	Gray level dependence matrix	GrayLevelVariance
16		HighGrayLevelEmphasis
17		DependenceEntropy
18		DependenceNonUniformity
19		GrayLevelNonUniformity
20		SmallDependenceEmphasis
21		SmallDependenceHighGrayLevelEmphasis
22		DependenceNonUniformityNormalized
23		LargeDependenceEmphasis
24		LargeDependenceLowGrayLevelEmphasis
25		DependenceVariance
26		LargeDependenceHighGrayLevelEmphasis
27		SmallDependenceLowGrayLevelEmphasis
28	LowGrayLevelEmphasis	
29	Gray level co-occurrence matrix	JointAverage
30		SumAverage
31		JointEntropy
32		ClusterShade
33		MaximumProbability
34		Idmn
35		JointEnergy
36		Contrast
37		DifferenceEntropy
38		InverseVariance

39		DifferenceVariance
40		Idn
41		Idm
42		Correlation
43		Autocorrelation
44		SumEntropy
45		MCC
46		SumSquares
47		ClusterProminence
48		Imc2
49		Imc1
50		DifferenceAverage
51		Id
52		ClusterTendency
53	First order	InterquartileRange
54		Skewness
55		Uniformity
56		Median
57		Energy
58		RobustMeanAbsoluteDeviation
59		MeanAbsoluteDeviation
60		TotalEnergy
61		Maximum
62		RootMeanSquared
63		90Percentile
64		Minimum
65		Entropy
66		Range
67		Variance
68		10Percentile
69		Kurtosis
70		Mean
71	Gray level run length matrix	ShortRunLowGrayLevelEmphasis
72		GrayLevelVariance
73		LowGrayLevelRunEmphasis
74		GrayLevelNonUniformityNormalized
75		RunVariance
76		GrayLevelNonUniformity
77		LongRunEmphasis
78		ShortRunHighGrayLevelEmphasis
79		RunLengthNonUniformity
80		ShortRunEmphasis
81		LongRunHighGrayLevelEmphasis
82		RunPercentage

83		LongRunLowGrayLevelEmphasis
84		RunEntropy
85		HighGrayLevelRunEmphasis
86		RunLengthNonUniformityNormalized
87	Gray level size zone matrix	GrayLevelVariance
88		ZoneVariance
89		GrayLevelNonUniformityNormalized
90		SizeZoneNonUniformityNormalized
91		SizeZoneNonUniformity
92		GrayLevelNonUniformity
93		LargeAreaEmphasis
94		SmallAreaHighGrayLevelEmphasis
95		ZonePercentage
96		LargeAreaLowGrayLevelEmphasis
97		LargeAreaHighGrayLevelEmphasis
98		HighGrayLevelZoneEmphasis
99		SmallAreaEmphasis
100		LowGrayLevelZoneEmphasis
101		ZoneEntropy
102		SmallAreaLowGrayLevelEmphasis
103	Neighboring gray tone difference matrix	Coarseness
104		Complexity
105		Strength
106		Contrast
107		Busyness
