SUPPLEMENTARY MATERIAL

Table S1 – radiomic features ranked according to their η values in Lung1 set. The top four and the bottom four features were used in the model setup (highlighted in green).

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| feature |  η  |
| original\_firstorder\_Maximum | 0.0 |
| original\_gldm\_GrayLevelNonUniformity | 0.0108 |
| original\_glrlm\_GrayLevelNonUniformity | 0.0115 |
| original\_ngtdm\_Coarseness | 0.0129 |
| original\_glszm\_LargeAreaHighGrayLevelEmphasis | 0.0218 |
| original\_glszm\_ZoneVariance | 0.0277 |
| original\_glszm\_LargeAreaEmphasis | 0.0278 |
| original\_firstorder\_90Percentile | 0.0342 |
| original\_glszm\_LargeAreaLowGrayLevelEmphasis | 0.0356 |
| original\_shape\_Maximum3DDiameter | 0.0394 |
| original\_gldm\_DependenceVariance | 0.0415 |
| original\_shape\_Maximum2DDiameterColumn | 0.0454 |
| original\_shape\_Maximum2DDiameterRow | 0.0455 |
| original\_shape\_MeshVolume | 0.0455 |
| original\_shape\_VoxelVolume | 0.0461 |
| original\_shape\_Maximum2DDiameterSlice | 0.0472 |
| original\_firstorder\_Median | 0.0524 |
| original\_ngtdm\_Busyness | 0.0535 |
| original\_glrlm\_RunVariance | 0.0544 |
| original\_shape\_SurfaceArea | 0.057 |
| original\_gldm\_LargeDependenceHighGrayLevelEmphasis | 0.0628 |
| original\_gldm\_DependenceNonUniformityNormalized | 0.063 |
| original\_gldm\_LargeDependenceEmphasis | 0.0658 |
| original\_glrlm\_LongRunEmphasis | 0.0663 |
| original\_glrlm\_LongRunHighGrayLevelEmphasis | 0.0717 |
| original\_shape\_SurfaceVolumeRatio | 0.0719 |
| original\_glrlm\_RunPercentage | 0.0758 |
| original\_glcm\_Idmn | 0.0791 |
| original\_glcm\_Idn | 0.0798 |
| original\_glcm\_MaximumProbability | 0.0858 |
| original\_gldm\_DependenceNonUniformity | 0.0879 |
| original\_glszm\_GrayLevelNonUniformity | 0.0904 |
| original\_glcm\_Idm | 0.0906 |
| original\_ngtdm\_Contrast | 0.0911 |
| original\_glrlm\_RunLengthNonUniformityNormalized | 0.0913 |
| original\_glcm\_Id | 0.0917 |
| original\_glrlm\_ShortRunEmphasis | 0.093 |
| original\_glcm\_JointEnergy | 0.0933 |
| original\_glrlm\_RunLengthNonUniformity | 0.0957 |
| original\_glszm\_ZonePercentage | 0.0995 |
| original\_gldm\_SmallDependenceEmphasis | 0.0996 |
| original\_glcm\_InverseVariance | 0.1 |
| original\_gldm\_SmallDependenceLowGrayLevelEmphasis | 0.1063 |
| original\_firstorder\_Range | 0.1132 |
| original\_firstorder\_Uniformity | 0.1135 |
| original\_glcm\_DifferenceAverage | 0.1146 |
| original\_gldm\_HighGrayLevelEmphasis | 0.1153 |
| original\_firstorder\_InterquartileRange | 0.1157 |
| original\_glcm\_Autocorrelation | 0.1178 |
| original\_glrlm\_HighGrayLevelRunEmphasis | 0.1197 |
| original\_ngtdm\_Strength | 0.1203 |
| original\_glcm\_DifferenceEntropy | 0.1237 |
| original\_firstorder\_Mean | 0.1278 |
| original\_glcm\_JointEntropy | 0.1313 |
| original\_glcm\_JointAverage | 0.1324 |
| original\_glcm\_SumAverage | 0.1324 |
| original\_firstorder\_Kurtosis | 0.1329 |
| original\_glcm\_Contrast | 0.1348 |
| original\_shape\_Sphericity | 0.1411 |
| original\_firstorder\_RobustMeanAbsoluteDeviation | 0.1433 |
| original\_firstorder\_Entropy | 0.1452 |
| original\_gldm\_LowGrayLevelEmphasis | 0.1459 |
| original\_glcm\_SumEntropy | 0.1479 |
| original\_glrlm\_GrayLevelNonUniformityNormalized | 0.1488 |
| original\_glrlm\_ShortRunLowGrayLevelEmphasis | 0.1503 |
| original\_glszm\_SizeZoneNonUniformityNormalized | 0.1514 |
| original\_glrlm\_ShortRunHighGrayLevelEmphasis | 0.1524 |
| original\_glcm\_DifferenceVariance | 0.1526 |
| original\_glrlm\_LowGrayLevelRunEmphasis | 0.1559 |
| original\_firstorder\_Minimum | 0.1564 |
| original\_glszm\_HighGrayLevelZoneEmphasis | 0.1569 |
| original\_glszm\_SmallAreaHighGrayLevelEmphasis | 0.1577 |
| original\_gldm\_LargeDependenceLowGrayLevelEmphasis | 0.1585 |
| original\_glszm\_SmallAreaEmphasis | 0.1593 |
| original\_glszm\_SizeZoneNonUniformity | 0.1636 |
| original\_firstorder\_Skewness | 0.1647 |
| original\_glcm\_Imc1 | 0.1658 |
| original\_firstorder\_10Percentile | 0.1665 |
| original\_gldm\_SmallDependenceHighGrayLevelEmphasis | 0.1678 |
| original\_firstorder\_MeanAbsoluteDeviation | 0.1803 |
| original\_firstorder\_RootMeanSquared | 0.1829 |
| original\_glcm\_SumSquares | 0.1908 |
| original\_glcm\_ClusterTendency | 0.1966 |
| original\_gldm\_GrayLevelVariance | 0.1982 |
| original\_firstorder\_Variance | 0.1984 |
| original\_ngtdm\_Complexity | 0.2172 |
| original\_glcm\_ClusterProminence | 0.2222 |
| original\_glszm\_LowGrayLevelZoneEmphasis | 0.2326 |
| original\_gldm\_DependenceEntropy | 0.2385 |
| original\_glcm\_ClusterShade | 0.2423 |
| original\_glrlm\_GrayLevelVariance | 0.249 |
| original\_glszm\_SmallAreaLowGrayLevelEmphasis | 0.255 |
| original\_glrlm\_LongRunLowGrayLevelEmphasis | 0.2567 |
| original\_firstorder\_TotalEnergy | 0.2572 |
| original\_firstorder\_Energy | 0.2572 |
| original\_glszm\_ZoneEntropy | 0.2726 |
| original\_glcm\_Imc2 | 0.2816 |
| original\_glcm\_Correlation | 0.2874 |
| original\_glszm\_GrayLevelVariance | 0.2944 |
| original\_glrlm\_RunEntropy | 0.3066 |
| original\_glcm\_MCC | 0.3216 |
| original\_glszm\_GrayLevelNonUniformityNormalized | 0.4005 |