Table S1

The selected features of each model in arterial and venous phase

|  |  |  |  |
| --- | --- | --- | --- |
| **Selection** | **Classification** | Features | |
| Arterial phase | venous phase |
| **ANOVA** | **AdaBoost** | wavelet-HHH\_glrlm\_LongRunLowGrayLevelEmphasis | wavelet-HHL\_glrlm\_RunVariance |
| **AE** | wavelet-HHH\_gldm\_DependenceVariance | wavelet-HHL\_glrlm\_RunVariance |
| wavelet-HHH\_glrlm\_LongRunLowGrayLevelEmphasis |
| wavelet-HHH\_glrlm\_RunVariance | wavelet-LHL\_glrlm\_RunVariance |
| wavelet-LLH\_glcm\_MaximumProbability |
| **DT** | wavelet-HHH\_glrlm\_LongRunLowGrayLevelEmphasis | wavelet-HHL\_glrlm\_RunVariance |
| wavelet-HLL\_glrlm\_RunVariance |
| wavelet-LHL\_glrlm\_RunVariance |
| **GP** | wavelet-HHH\_glrlm\_LongRunLowGrayLevelEmphasis | original\_glszm\_ZoneEntropy |
| original\_shape\_Maximum2DDiameterColumn |
| original\_shape\_Maximum2DDiameterRow |
| original\_shape\_Maximum3DDiameter |
| original\_shape\_Sphericity |
| wavelet-HHL\_glrlm\_RunVariance |
| wavelet-HLL\_glrlm\_RunVariance |
| wavelet-LHL\_glrlm\_RunVariance |
| wavelet-LLL\_glszm\_ZoneEntropy |
| **LASSO** | wavelet-HHH\_glrlm\_LongRunLowGrayLevelEmphasis | original\_glszm\_ZoneEntropy |
| wavelet-LLH\_glcm\_MaximumProbability | original\_shape\_Maximum2DDiameterColumn |
| original\_shape\_Maximum2DDiameterRow |
| original\_shape\_Maximum3DDiameter |
| original\_shape\_Sphericity |
| wavelet-HHL\_glrlm\_RunVariance |
| wavelet-HLL\_glrlm\_RunVariance |
| wavelet-LHL\_glrlm\_RunVariance |
| **LDA** | wavelet-HHH\_glrlm\_LongRunLowGrayLevelEmphasis | original\_glszm\_ZoneEntropy |
| wavelet-LLH\_glcm\_MaximumProbability | original\_shape\_Maximum2DDiameterColumn |
| original\_shape\_Maximum2DDiameterRow |
| original\_shape\_Maximum3DDiameter |
| original\_shape\_Sphericity |
| wavelet-HHL\_glrlm\_RunVariance |
| wavelet-HLL\_glrlm\_RunVariance |
| wavelet-LHL\_glrlm\_RunVariance |
| **LR** | wavelet-HHH\_glrlm\_LongRunLowGrayLevelEmphasis | wavelet-HHL\_glrlm\_RunVariance |
| wavelet-LLH\_glcm\_MaximumProbability | wavelet-HLL\_glrlm\_RunVariance |
| wavelet-LHL\_glrlm\_RunVariance |
| **NB** | wavelet-HHH\_gldm\_DependenceVariance | wavelet-LHL\_glrlm\_RunVariance |
| wavelet-HHH\_glrlm\_LongRunLowGrayLevelEmphasis |
| wavelet-HHH\_glrlm\_RunVariance | wavelet-LHL\_glrlm\_RunVariance |
| wavelet-LLH\_glcm\_MaximumProbability |
| wavelet-LLL\_glcm\_Imc1 |
| **RF** | wavelet-HHH\_glrlm\_LongRunLowGrayLevelEmphasis | original\_glcm\_Idn |
| original\_glszm\_ZoneEntropy |
| original\_shape\_LeastAxisLength |
| original\_shape\_Maximum2DDiameterColumn |
| original\_shape\_Maximum2DDiameterRow |
| original\_shape\_Maximum3DDiameter |
| original\_shape\_Sphericity |
| wavelet-HHH\_glrlm\_LongRunLowGrayLevelEmphasis |
| wavelet-HHH\_glrlm\_ShortRunEmphasis |
| wavelet-HHL\_glrlm\_RunVariance |
| wavelet-HHL\_glrlm\_ShortRunEmphasis |
| wavelet-HLL\_glrlm\_RunVariance |
| wavelet-LHL\_glrlm\_RunVariance |
| wavelet-LLH\_firstorder\_Kurtosis |
| wavelet-LLL\_glszm\_ZoneEntropy |
| **SVM** | wavelet-HHH\_glrlm\_LongRunLowGrayLevelEmphasis | original\_glcm\_Idn |
| wavelet-LLH\_glcm\_MaximumProbability | original\_glszm\_ZoneEntropy |
| original\_shape\_LeastAxisLength |
| original\_shape\_Maximum2DDiameterColumn |
| original\_shape\_Maximum2DDiameterRow |
| original\_shape\_Maximum2DDiameterSlice |
| original\_shape\_Maximum3DDiameter |
| original\_shape\_MinorAxisLength |
| original\_shape\_Sphericity |
| wavelet-HHH\_glrlm\_LongRunLowGrayLevelEmphasis |
| wavelet-HHH\_glrlm\_RunPercentage |
| wavelet-HHH\_glrlm\_ShortRunEmphasis |
| wavelet-HHL\_glrlm\_RunVariance |
| wavelet-HHL\_glrlm\_ShortRunEmphasis |
| wavelet-HLL\_glrlm\_RunVariance |
| wavelet-LHL\_glrlm\_RunVariance |
| wavelet-LLH\_firstorder\_Kurtosis |
| wavelet-LLL\_glszm\_ZoneEntropy |
| **KW** | **AdaBoost** | wavelet-HHH\_firstorder\_TotalEnergy | original\_shape\_Maximum2DDiameterColumn |
| wavelet-LHH\_firstorder\_TotalEnergy | original\_shape\_Maximum3DDiameter |
| wavelet-LLH\_glszm\_LargeAreaEmphasis | wavelet-LHH\_glszm\_GrayLevelNonUniformity |
| wavelet-LLH\_glszm\_LargeAreaLowGrayLevelEmphasis | wavelet-LLH\_firstorder\_Kurtosis |
| **AE** | wavelet-HHH\_firstorder\_TotalEnergy | original\_shape\_Maximum2DDiameterColumn |
| wavelet-HHH\_glrlm\_LongRunLowGrayLevelEmphasis | original\_shape\_Maximum2DDiameterRow |
| wavelet-HHL\_glszm\_LargeAreaEmphasis | original\_shape\_Maximum3DDiameter |
| wavelet-HHL\_glszm\_LargeAreaLowGrayLevelEmphasis | original\_shape\_Sphericity |
| wavelet-HHL\_ngtdm\_Busyness | original\_shape\_SurfaceArea |
| wavelet-LHH\_firstorder\_TotalEnergy | wavelet-HHH\_glszm\_LargeAreaLowGrayLevelEmphasis |
| wavelet-LLH\_glszm\_LargeAreaEmphasis | wavelet-HHL\_glszm\_LargeAreaEmphasis |
| wavelet-LLH\_glszm\_LargeAreaLowGrayLevelEmphasis | wavelet-HHL\_glszm\_LargeAreaHighGrayLevelEmphasis |
| wavelet-HHL\_glszm\_LargeAreaLowGrayLevelEmphasis |
| wavelet-HLL\_glszm\_LargeAreaHighGrayLevelEmphasis |
| wavelet-LHH\_glszm\_GrayLevelNonUniformity |
| wavelet-LHH\_glszm\_SizeZoneNonUniformity |
| wavelet-LHL\_glszm\_LargeAreaHighGrayLevelEmphasis |
| wavelet-LLH\_firstorder\_Kurtosis |
| wavelet-LLL\_glrlm\_RunLengthNonUniformity |
| wavelet-LLL\_glszm\_GrayLevelNonUniformity |
| **DT** | wavelet-HHH\_firstorder\_TotalEnergy | original\_shape\_Maximum2DDiameterColumn |
| wavelet-LHH\_firstorder\_TotalEnergy | original\_shape\_Maximum3DDiameter |
| wavelet-LLH\_glszm\_LargeAreaLowGrayLevelEmphasis | wavelet-LHH\_glszm\_GrayLevelNonUniformity |
| wavelet-LLH\_firstorder\_Kurtosis |
| **GP** | wavelet-HHH\_firstorder\_TotalEnergy | original\_shape\_Maximum2DDiameterColumn |
| wavelet-LHH\_firstorder\_TotalEnergy | original\_shape\_Maximum2DDiameterRow |
| wavelet-LLH\_glszm\_LargeAreaLowGrayLevelEmphasis | original\_shape\_Maximum3DDiameter |
| pwavelet-HHL\_glszm\_LargeAreaEmphasis |
| wavelet-LHH\_glszm\_GrayLevelNonUniformity |
| wavelet-LLH\_firstorder\_Kurtosis |
| **LASSO** | wavelet-HHH\_firstorder\_TotalEnergy | original\_shape\_Maximum2DDiameterColumn |
| original\_shape\_Maximum2DDiameterRow |
| original\_shape\_Maximum3DDiameter |
| pwavelet-HHL\_glszm\_LargeAreaEmphasis |
| wavelet-LHH\_glszm\_GrayLevelNonUniformity |
| wavelet-LLH\_firstorder\_Kurtosis |
| **LDA** | wavelet-HHH\_firstorder\_TotalEnergy | wavelet-LLH\_firstorder\_Kurtosis |
| wavelet-HHH\_glrlm\_LongRunLowGrayLevelEmphasis |
| wavelet-HHL\_glszm\_LargeAreaEmphasis |
| wavelet-HHL\_glszm\_LargeAreaLowGrayLevelEmphasis |
| wavelet-HHL\_ngtdm\_Busyness |
| wavelet-LHH\_firstorder\_TotalEnergy |
| wavelet-LLH\_glszm\_LargeAreaEmphasis |
| wavelet-LLH\_glszm\_LargeAreaHighGrayLevelEmphasis |
| wavelet-LLH\_glszm\_LargeAreaLowGrayLevelEmphasis |
| **LR** | wavelet-HHH\_firstorder\_TotalEnergy | original\_shape\_Maximum2DDiameterColumn |
| original\_shape\_Maximum2DDiameterRow |
| original\_shape\_Maximum3DDiameter |
| wavelet-HHL\_glszm\_LargeAreaEmphasis |
| wavelet-HHL\_glszm\_LargeAreaHighGrayLevelEmphasis |
| wavelet-LHH\_glszm\_GrayLevelNonUniformity |
| wavelet-LHL\_glszm\_LargeAreaHighGrayLevelEmphasis |
| wavelet-LLH\_firstorder\_Kurtosis |
| **NB** | wavelet-HHH\_firstorder\_TotalEnergy | wavelet-LLH\_firstorder\_Kurtosis |
| **RF** | wavelet-HHH\_firstorder\_TotalEnergy | original\_shape\_Maximum2DDiameterColumn |
| original\_shape\_Maximum2DDiameterRow |
| original\_shape\_Maximum3DDiameter |
| original\_shape\_SurfaceArea |
| wavelet-HHL\_glszm\_LargeAreaEmphasis |
| wavelet-HHL\_glszm\_LargeAreaHighGrayLevelEmphasis |
| wavelet-LHH\_glszm\_GrayLevelNonUniformity |
| wavelet-LHL\_glszm\_LargeAreaHighGrayLevelEmphasis |
| wavelet-LLH\_firstorder\_Kurtosis |
| wavelet-LLL\_glrlm\_RunLengthNonUniformity |
| wavelet-LLL\_glszm\_GrayLevelNonUniformity |
| **SVM** | wavelet-HHH\_firstorder\_TotalEnergy | original\_shape\_Maximum2DDiameterColumn |
| original\_shape\_Maximum2DDiameterRow |
| original\_shape\_Maximum3DDiameter |
| pwavelet-HHL\_glszm\_LargeAreaEmphasis |
| wavelet-LHH\_glszm\_GrayLevelNonUniformity |
| wavelet-LLH\_firstorder\_Kurtosis |
| **Relief** | **AdaBoost** | wavelet-LHH\_glcm\_DifferenceEntropy | wavelet-HLH\_firstorder\_Median |
| wavelet-HLH\_glrlm\_GrayLevelNonUniformityNormalized | wavelet-HLH\_firstorder\_Mean |
| wavelet-LHH\_glcm\_JointEntropy | original\_shape\_Sphericity |
| wavelet-LHH\_glcm\_SumEntropy |
| wavelet-HLH\_glrlm\_GrayLevelVariance |
| wavelet-HLH\_glcm\_DifferenceVariance |
| wavelet-LHH\_glrlm\_GrayLevelNonUniformityNormalized |
| wavelet-LHH\_glcm\_SumSquares |
| wavelet-HHH\_ngtdm\_Contrast |
| original\_glcm\_MCC |
| wavelet-LHH\_glszm\_GrayLevelVariance |
| wavelet-HHL\_firstorder\_Median |
| original\_glcm\_Imc1 |
| wavelet-HLL\_ngtdm\_Strength |
| wavelet-HLL\_glszm\_SmallAreaEmphasis |
| wavelet-HHH\_firstorder\_Entropy |
| wavelet-HLH\_glcm\_JointEntropy |
| wavelet-HLL\_gldm\_SmallDependenceHighGrayLevelEmphasis |
| wavelet-HHH\_glcm\_Autocorrelation |
| wavelet-LHH\_glszm\_SizeZoneNonUniformityNormalized |
| **AE** | wavelet-LHH\_glcm\_DifferenceEntropy | wavelet-HLH\_firstorder\_Median |
| wavelet-HLH\_firstorder\_Mean |
| original\_shape\_Sphericity |
| wavelet-HLL\_glszm\_LargeAreaHighGrayLevelEmphasis |
| **DT** | wavelet-LHH\_glcm\_DifferenceEntropy | wavelet-HLH\_firstorder\_Median |
| wavelet-HLH\_glrlm\_GrayLevelNonUniformityNormalized | wavelet-HLH\_firstorder\_Mean |
| wavelet-LHH\_glcm\_JointEntropy | original\_shape\_Sphericity |
| wavelet-LHH\_glcm\_SumEntropy | wavelet-HLL\_glszm\_LargeAreaHighGrayLevelEmphasis |
| wavelet-HLH\_glrlm\_GrayLevelVariance |
| wavelet-HLH\_glcm\_DifferenceVariance |
| wavelet-LHH\_glrlm\_GrayLevelNonUniformityNormalized |
| wavelet-LHH\_glcm\_SumSquares |
| wavelet-HHH\_ngtdm\_Contrast |
| original\_glcm\_MCC |
| wavelet-LHH\_glszm\_GrayLevelVariance |
| wavelet-HHL\_firstorder\_Median |
| original\_glcm\_Imc1 |
| wavelet-HLL\_ngtdm\_Strength |
| wavelet-HLL\_glszm\_SmallAreaEmphasis |
| wavelet-HHH\_firstorder\_Entropy |
| wavelet-HLH\_glcm\_JointEntropy |
| wavelet-HLL\_gldm\_SmallDependenceHighGrayLevelEmphasis |
| **GP** | wavelet-LHH\_glcm\_DifferenceEntropy | wavelet-HLH\_firstorder\_Median |
| wavelet-LHH\_glcm\_DifferenceEntropy | wavelet-HLH\_firstorder\_Mean |
| wavelet-LHH\_glcm\_DifferenceEntropy | original\_shape\_Sphericity |
| wavelet-LHH\_glcm\_DifferenceEntropy |
| wavelet-LHH\_glcm\_DifferenceEntropy |
| wavelet-LHH\_glcm\_DifferenceEntropy |
| wavelet-LHH\_glcm\_DifferenceEntropy |
| wavelet-LHH\_glcm\_DifferenceEntropy |
| **LASSO** | wavelet-LHH\_glcm\_DifferenceEntropy | wavelet-HLH\_firstorder\_Median |
| wavelet-HLH\_glrlm\_GrayLevelNonUniformityNormalized | wavelet-HLH\_firstorder\_Mean |
| original\_shape\_Sphericity |
| wavelet-HLL\_glszm\_LargeAreaHighGrayLevelEmphasis |
| **LDA** | wavelet-LHH\_glcm\_DifferenceEntropy | wavelet-HLH\_firstorder\_Median |
| wavelet-HLH\_glrlm\_GrayLevelNonUniformityNormalized | wavelet-HLH\_firstorder\_Mean |
| wavelet-LHH\_glcm\_JointEntropy | original\_shape\_Sphericity |
| wavelet-LHH\_glcm\_SumEntropy |
| wavelet-HLH\_glrlm\_GrayLevelVariance |
| wavelet-HLH\_glcm\_DifferenceVariance |
| wavelet-LHH\_glrlm\_GrayLevelNonUniformityNormalized |
| wavelet-LHH\_glcm\_SumSquares |
| wavelet-HHH\_ngtdm\_Contrast |
| original\_glcm\_MCC |
| wavelet-LHH\_glszm\_GrayLevelVariance |
| wavelet-HHL\_firstorder\_Median |
| original\_glcm\_Imc1 |
| wavelet-HLL\_ngtdm\_Strength |
| wavelet-HLL\_glszm\_SmallAreaEmphasis |
| wavelet-HHH\_firstorder\_Entropy |
| wavelet-HLH\_glcm\_JointEntropy |
| wavelet-HLL\_gldm\_SmallDependenceHighGrayLevelEmphasis |
| **LR** | wavelet-LHH\_glcm\_DifferenceEntropy | wavelet-HLH\_firstorder\_Median |
| wavelet-HLH\_glrlm\_GrayLevelNonUniformityNormalized | wavelet-HLH\_firstorder\_Mean |
| wavelet-LHH\_glcm\_JointEntropy | original\_shape\_Sphericity |
| wavelet-LHH\_glcm\_SumEntropy | wavelet-HLL\_glszm\_LargeAreaHighGrayLevelEmphasis |
| wavelet-HLH\_glrlm\_GrayLevelVariance |
| wavelet-HLH\_glcm\_DifferenceVariance |
| wavelet-LHH\_glrlm\_GrayLevelNonUniformityNormalized |
| wavelet-LHH\_glcm\_SumSquares |
| wavelet-HHH\_ngtdm\_Contrast |
| original\_glcm\_MCC |
| wavelet-LHH\_glszm\_GrayLevelVariance |
| wavelet-HHL\_firstorder\_Median |
| original\_glcm\_Imc1 |
| wavelet-HLL\_ngtdm\_Strength |
| wavelet-HLL\_glszm\_SmallAreaEmphasis |
| wavelet-HHH\_firstorder\_Entropy |
| wavelet-HLH\_glcm\_JointEntropy |
| wavelet-HLL\_gldm\_SmallDependenceHighGrayLevelEmphasis |
| **NB** | wavelet-LHH\_glcm\_DifferenceEntropy | wavelet-HLH\_firstorder\_Median |
| wavelet-HLH\_glrlm\_GrayLevelNonUniformityNormalized | wavelet-HLH\_firstorder\_Mean |
| wavelet-LHH\_glcm\_JointEntropy | original\_shape\_Sphericity |
| wavelet-LHH\_glcm\_SumEntropy | wavelet-HLL\_glszm\_LargeAreaHighGrayLevelEmphasis |
| wavelet-HLH\_glrlm\_GrayLevelVariance | wavelet-LHL\_glszm\_LargeAreaHighGrayLevelEmphasis |
| original\_glcm\_JointEnergy |
| original\_firstorder\_Uniformity |
| original\_glcm\_MaximumProbability |
| wavelet-LHL\_glszm\_LowGrayLevelZoneEmphasis |
| wavelet-HLH\_gldm\_GrayLevelVariance |
| original\_gldm\_LargeDependenceEmphasis |
| wavelet-LHH\_gldm\_SmallDependenceEmphasis |
| wavelet-LHL\_gldm\_SmallDependenceLowGrayLevelEmphasis |
| **RF** | wavelet-LHH\_glcm\_DifferenceEntropy | wavelet-HLH\_firstorder\_Median |
| wavelet-LHH\_glcm\_DifferenceEntropy | wavelet-HLH\_firstorder\_Mean |
| wavelet-LHH\_glcm\_DifferenceEntropy | original\_shape\_Sphericity |
| wavelet-LHH\_glcm\_DifferenceEntropy | wavelet-HLL\_glszm\_LargeAreaHighGrayLevelEmphasis |
| wavelet-LHH\_glcm\_DifferenceEntropy | wavelet-LHL\_glszm\_LargeAreaHighGrayLevelEmphasis |
| wavelet-LHH\_glcm\_DifferenceEntropy | original\_glcm\_JointEnergy |
| wavelet-LHH\_glcm\_DifferenceEntropy |
| wavelet-LHH\_glcm\_DifferenceEntropy |
| **SVM** | wavelet-LHH\_glcm\_DifferenceEntropy | wavelet-HLH\_firstorder\_Median |
| wavelet-HLH\_glrlm\_GrayLevelNonUniformityNormalized | wavelet-HLH\_firstorder\_Mean |
| wavelet-LHH\_glcm\_JointEntropy | original\_shape\_Sphericity |
| wavelet-LHH\_glcm\_SumEntropy |
| wavelet-HLH\_glrlm\_GrayLevelVariance |
| wavelet-HLH\_glcm\_DifferenceVariance |
| wavelet-LHH\_glrlm\_GrayLevelNonUniformityNormalized |
| wavelet-LHH\_glcm\_SumSquares |
| wavelet-HHH\_ngtdm\_Contrast |
| original\_glcm\_MCC |
| wavelet-LHH\_glszm\_GrayLevelVariance |
| wavelet-HHL\_firstorder\_Median |
| original\_glcm\_Imc1 |
| wavelet-HLL\_ngtdm\_Strength |
| wavelet-HLL\_glszm\_SmallAreaEmphasis |
| wavelet-HHH\_firstorder\_Entropy |
| wavelet-HLH\_glcm\_JointEntropy |
| wavelet-HLL\_gldm\_SmallDependenceHighGrayLevelEmphasis |
| wavelet-HHH\_glcm\_Autocorrelation |
| wavelet-LHH\_glszm\_SizeZoneNonUniformityNormalized |
| **RFE** | **AdaBoost** | original\_ngtdm\_Busyness | original\_shape\_Sphericity |
| wavelet-HHH\_glrlm\_LongRunLowGrayLevelEmphasis |
| wavelet-LHL\_firstorder\_Kurtosis |
| wavelet-LLH\_glcm\_MaximumProbability |
| **AE** | original\_firstorder\_Skewness | original\_shape\_Sphericity |
| original\_glcm\_Imc1 | wavelet-LLH\_firstorder\_Kurtosis |
| original\_glcm\_MCC | wavelet-LLL\_glcm\_MCC |
| original\_glrlm\_ShortRunEmphasis |
| original\_glszm\_GrayLevelNonUniformityNormalized |
| original\_glszm\_LargeAreaLowGrayLevelEmphasis |
| original\_ngtdm\_Busyness |
| original\_shape\_Elongation |
| wavelet-HHH\_glrlm\_LongRunLowGrayLevelEmphasis |
| wavelet-HHL\_gldm\_DependenceVariance |
| wavelet-HLH\_glrlm\_RunEntropy |
| wavelet-HLL\_glszm\_SmallAreaEmphasis |
| wavelet-LHH\_glszm\_GrayLevelNonUniformityNormalized |
| wavelet-LHH\_glszm\_SizeZoneNonUniformityNormalized |
| wavelet-LHL\_firstorder\_Kurtosis |
| wavelet-LHL\_glszm\_LowGrayLevelZoneEmphasis |
| wavelet-LLH\_glcm\_MaximumProbability |
| wavelet-LLL\_firstorder\_Kurtosis |
| wavelet-LLL\_firstorder\_Skewness |
| wavelet-LLL\_glcm\_Imc1 |
| **DT** | original\_firstorder\_Skewness | original\_shape\_Sphericity |
| original\_glcm\_Imc1 | wavelet-LLL\_glcm\_MCC |
| original\_glcm\_MCC |
| original\_glszm\_GrayLevelNonUniformityNormalized |
| original\_glszm\_LargeAreaLowGrayLevelEmphasis |
| original\_ngtdm\_Busyness |
| wavelet-HHH\_glrlm\_LongRunLowGrayLevelEmphasis |
| wavelet-HHL\_gldm\_DependenceVariance |
| wavelet-HLH\_glrlm\_RunEntropy |
| wavelet-LHH\_glszm\_GrayLevelNonUniformityNormalized |
| wavelet-LHH\_glszm\_SizeZoneNonUniformityNormalized |
| wavelet-LHL\_firstorder\_Kurtosis |
| wavelet-LLH\_glcm\_MaximumProbability |
| wavelet-LLL\_firstorder\_Skewness |
| wavelet-LLL\_glcm\_Imc1 |
| **GP** | wavelet-HHH\_glrlm\_LongRunLowGrayLevelEmphasis | original\_shape\_Sphericity |
| wavelet-LLH\_glcm\_MaximumProbability |
| **LASSO** | wavelet-HHH\_glrlm\_LongRunLowGrayLevelEmphasis | original\_shape\_Sphericity |
| wavelet-LLH\_glcm\_MaximumProbability |
| **LDA** | original\_glszm\_GrayLevelNonUniformityNormalized | original\_shape\_Sphericity |
| aoriginal\_ngtdm\_Busyness |
| wavelet-HHH\_glrlm\_LongRunLowGrayLevelEmphasis |
| wavelet-LHL\_firstorder\_Kurtosis |
| wavelet-LLH\_glcm\_MaximumProbability |
| **LR** | original\_ngtdm\_Busyness | original\_shape\_Sphericity |
| original\_ngtdm\_Busyness |
| original\_ngtdm\_Busyness |
| **NB** | original\_firstorder\_Skewness | original\_shape\_Sphericity |
| original\_glcm\_Imc1 |
| original\_glszm\_GrayLevelNonUniformityNormalized |
| original\_ngtdm\_Busyness |
| wavelet-HHH\_glrlm\_LongRunLowGrayLevelEmphasis |
| wavelet-HHL\_gldm\_DependenceVariance |
| wavelet-LHH\_glszm\_GrayLevelNonUniformityNormalized |
| wavelet-LHL\_firstorder\_Kurtosis |
| wavelet-LLH\_glcm\_MaximumProbability |
| **RF** | original\_firstorder\_Skewness | original\_shape\_Sphericity |
| original\_glszm\_GrayLevelNonUniformityNormalized | wavelet-LLH\_firstorder\_Kurtosis |
| original\_ngtdm\_Busyness | wavelet-LLL\_glcm\_MCC |
| wavelet-HHH\_glrlm\_LongRunLowGrayLevelEmphasis |
| wavelet-HHL\_gldm\_DependenceVariance |
| wavelet-LHH\_glszm\_GrayLevelNonUniformityNormalized |
| wavelet-LHL\_firstorder\_Kurtosis |
| wavelet-LLH\_glcm\_MaximumProbability |
| **SVM** | original\_ngtdm\_Busyness | original\_shape\_Sphericity |
| wavelet-HHH\_glrlm\_LongRunLowGrayLevelEmphasis |
| wavelet-LHL\_firstorder\_Kurtosis |
| wavelet-LLH\_glcm\_MaximumProbability |