Simulated examples for the survival ensemble methods

2_Outer loop CV (for validation) 5 2_ inner CV folds (model tuning) 3 Simulated data: random seed (generation): 4242 150
Random seed for calibration and validation 43 C_Outer loop CV (for validation) 5 C_inner CV folds (model tuning) 3 Simulated data: random seed (generation): 4242 Sample size: 150 Custom data: path to data file Predictors to use in the model Predictors to use in the model
Random seed for calibration and validation 43 K_Outer loop CV (for validation) 5 K_ inner CV folds (model tuning) 3 Simulated data: random seed (generation): 4242 Observation time Expected event prevalence by study end 0.5 Custom data: path to data file Predictors to use in the mode
K_Outer loop CV (for validation) Simulated data: random seed (generation): 4242 Simulated data: random seed (generation): 4242 Expected event prevalence by study end 0.5 Custom data: path to data file Predictors to use in the mode
K_Outer loop CV (for validation) 5 K_ inner CV folds (model tuning) 3 Simulated data: random seed (generation): 4242 Observation time Expected event prevalence by study end 0.5 Custom data: path to data file Predictors to use in the mode
Simulated data: random seed (generation): 4242 Sample size: 150 Expected event prevalence by study end 0.5 Custom data: path to data file Predictors to use in the mode
Simulated data: random seed (generation): 4242 Sample size: 150 Expected event prevalence by study end 0.5 Custom data: path to data file Predictors to use in the mode
Simulated data: random seed (generation): 4242 Sample size: 150 Expected event prevalence by study end 0.3 Custom data: path to data file Predictors to use in the mode
Simulated data: random seed (generation): 4242 Sample size: 150 Expected event prevalence by study end 0.3 Custom data: path to data file Predictors to use in the mode
Simulated data: random seed (generation): 4242 Observation time Expected event prevalence by study end 0.3 Custom data: path to data file Predictors to use in the model
Observation time Expected event prevalence by study end 0.5 Custom data: path to data file Predictors to use in the mode
Observation time Expected event prevalence by study end 0.5 Custom data: path to data file Predictors to use in the mode
Observation time Expected event prevalence by study end 0.3 Custom data: path to data file Predictors to use in the mode
Study end 0.3 Custom data: path to data file Predictors to use in the mode
Custom data: path to data file Predictors to use in the mode
Custom data: path to data file Predictors to use in the mode
~/Desktop/Study_KCL/PfiD P
Time variable name Event indicator variable name
time event
time event

0.0339

0.005

Previous

-0.0292

-0.1133

1

4

4

Next

	AUCROC \$	BS ‡	BS_scaled ‡	C_score ‡	Calib_slope 🕯	Calib_alpha ∜	T ‡
test	0.5374	0.2488	-1.3891	0.5352	0.0322	-0.0756	4
train	0.9812	0.0184	0.839	0.9683	1.8749	-0.0071	4
_	1 to 2 of 2 entries		for each CV fold:			Previous 1	Next
Show 1	0 v entries				Search:		
	AUCROC ‡	BS 🕏	BS_scaled ‡	C_score ‡	Calib_slope ‡	Calib_alpha 🕯	T ‡
test.1	0.4169	0.2503	-2.0758	0.429	0.0051	-0.1157	4
test.2	0.518	0.2915	-0.9754	0.5035	0.0133	-0.0122	4
test.3	0.6749	0.1724	-1.0472	0.6743	0.1038	-0.1075	4

0.5899

0.4791

-0.8513

-1.9957

Showing 1 to 5 of 5 entries

0.5794

0.4975

0.2582

0.2718

test.4

test.5

1 56 / 451 100.00% yes original_glszm_GrayLevelVariance < 0.0423 -no 2.223 39 / 152 33.70%

Error: figure margins too large

Show 10 v entries	Searc		earch:		
	coef ‡	exp(coef) ‡	se(coef) 束	Z ×	Pr(> z) ‡
original_firstorder_10Percentile	6.9419	1034.7678	0.132	52.5804	0
original_firstorder_90Percentile	7.2555	1415.8192	0.0836	86.8324	0
original_firstorder_Energy	-6.5962	0.0014	0.1102	-59.8487	0
original_firstorder_Entropy	-35.5832	0	0.118	-301.4817	0
original_firstorder_InterquartileRange	8.6369	5636.0235	0.1336	64.6339	0
original_firstorder_Kurtosis	-0.3791	0.6845	0.1069	-3.5449	0.0004
original_firstorder_Maximum	0.3032	1.3542	0.1101	2.7545	0.0059
original_firstorder_Mean	-30.7044	0	0.1239	-247.8801	0
original_firstorder_MeanAbsoluteDeviation	11.8792	144232.2359	0.1221	97.3146	0
original_firstorder_Median	22.0333	3706281525.8151	0.1299	169.5688	0
Showing 1 to 10 of 108 entries	Previo	us 1 2 3	4 5	11	Next

```
$test
 Т
      AUCROC
                    BS BS_scaled C_score Calib_slope
1 4 0.4168810 0.2502980 -2.0757824 0.4289941 0.005058503
2 4 0.5180197 0.2915280 -0.9754438 0.5035239 0.013321138
3 4 0.6749285 0.1723554 -1.0471738 0.6743323 0.103752424
4 4 0.5794448 0.2582236 -0.8513478 0.5899428 0.033861069
5 4 0.4974927 0.2718345 -1.9957167 0.4791386 0.004989890
 Calib_alpha test cv_n
1 -0.11573737
                1
2 -0.01220098
              1
              1
3 -0.10751499
                     3
4 -0.02920297
                1
                     4
5 -0.11328853 1
$train
 Т
      AUCROC
                      BS BS scaled C score
1 4 0.9684613 0.0265866373 0.7728557 0.9588310
2 4 1.0000000 0.0003993369 0.9960070 0.9671727
3 4 0.9719722 0.0247077547 0.7889596 0.9645630
4 4 0.9912011 0.0106756874 0.8960904 0.9834677
5 4 0.9741496 0.0297559591 0.7412164 0.9673077
 Calib_slope Calib_alpha test cv_n
   0.5414577 -0.005858360
2
   6.6858116 0.001038150
                            0
                                 2
  0.6183487 -0.012075400
                                 3
4
   0.9155262 -0.009023887
                                 4
   0.6131217 -0.009620454
$testaverage
                               BS
                AUCROC
                                    BS_scaled
 4.00000000 0.53735335 0.24884793 -1.38909290
   C_score Calib_slope Calib_alpha
 $trainaverage
         Т
                AUCROC
                               BS
                                    BS scaled
 4.00000000 0.98115685 0.01842508 0.83902583
   C_score Calib_slope Calib_alpha
                                         test
 0.96826840 1.87485320 -0.00710799 0.000000000
$model_list
$model_list[[1]]
$model_list[[1]]$treemodel
n = 361
node), split, n, deviance, yval
      * denotes terminal node
1) root 361 279.77400 1.000000
  2) original_firstorder_Maximum< 0.6930725 314 170.36840 0.612921 *
  3) original_firstorder_Maximum>=0.6930725 47 70.39936 3.866427 *
$model_list[[1]]$modcoxmodel
Call:
coxph(formula = as.formula(paste("Surv(df_train$time, df_train$event) ~",
   paste(predict.factors, collapse = "+"))), data = df_train,
   x = TRUE
                                                       coef
```

original_firstorder_10Percentile	6.292e+01
original_firstorder_90Percentile	-2.219e+01
original_firstorder_Energy	-1.848e+01
original_firstorder_Entropy	-1.101e+02
original_firstorder_InterquartileRange	1.868e+01
original_firstorder_Kurtosis	7.499e+00
original_firstorder_Maximum	-1.181e+01
original_firstorder_Mean	-7.247e+01
original_firstorder_MeanAbsoluteDeviation	1.430e+02
original_firstorder_Median	5.698e+01
original firstorder Minimum	7.076e+00
_	0.000e+00
original_firstorder_Range	
original_firstorder_RobustMeanAbsoluteDeviation	-2.093e+01
original_firstorder_RootMeanSquared	-8.776e+00
original_firstorder_Skewness	-2.484e+00
original_firstorder_TotalEnergy	0.000e+00
original_firstorder_Uniformity	-7.582e+01
original_firstorder_Variance	3.018e+03
original_glcm_Autocorrelation	-2.010e+01
original_glcm_ClusterProminence	7.946e+02
original_glcm_ClusterShade	6.289e+01
original_glcm_ClusterTendency	-4.637e+01
original_glcm_Contrast	8.613e+02
original_glcm_Correlation	-1.513e+01
original_glcm_DifferenceAverage	8.077e+02
original_glcm_DifferenceEntropy	8.329e+01
original_glcm_DifferenceVariance	-2.323e+03
original_glcm_Id	5.273e+03
original_glcm_Idm	-4.560e+03
original_glcm_Idmn	-3.637e+01
original_glcm_Idn	4.161e+01
original_glcm_Imc1	-1.315e+01
original_glcm_Imc2	-1.109e+01
original_glcm_InverseVariance	5.094e+02
original_glcm_JointAverage	-8.250e+01
original_glcm_JointEnergy	3.305e+01
original_glcm_JointEntropy	-7.407e+01
original_glcm_MCC	-1.720e+00
original_glcm_MaximumProbability	1.628e+01
original_glcm_SumAverage	0.000e+00
original_glcm_SumEntropy	1.146e+01
original_glcm_SumSquares	0.000e+00
original_gldm_DependenceEntropy	2.118e+01
original_gldm_DependenceNonUniformity	5.159e+00
original_gldm_DependenceNonUniformityNormalized	2.432e+01
original_gldm_DependenceVariance	-2.361e+01
original_gldm_GrayLevelNonUniformity	-1.745e+01
original_gldm_GrayLevelVariance	-3.297e+03
original_gldm_HighGrayLevelEmphasis	-5.311e+02
original_gldm_LargeDependenceEmphasis	-1.621e+02
original_gldm_LargeDependenceHighGrayLevelEmphasis	1.183e+02
original_gldm_LargeDependenceLowGrayLevelEmphasis	2.802e+02
original_gldm_LowGrayLevelEmphasis	4.764e+02
original_gldm_SmallDependenceEmphasis	-4.258e+01
original_gldm_SmallDependenceHighGrayLevelEmphasis	2.832e+00
original_gldm_SmallDependenceLowGrayLevelEmphasis	-2.198e+01
original_glrlm_GrayLevelNonUniformity	1.717e+01
original_glrlm_GrayLevelNonUniformityNormalized	1.298e+01
original_glrlm_GrayLevelVariance	1.137e+02
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l	
original_glrlm_HighGrayLevelRunEmphasis	2.363e+02
original_glrlm_LongRunEmphasis	-1.835e+01
original_glrlm_LongRunHighGrayLevelEmphasis	-1.374e+01
original_glrlm_LongRunLowGrayLevelEmphasis	-1.072e+01
original_glrlm_LowGrayLevelRunEmphasis	-1.835e+03
original_glrlm_RunEntropy	1.405e+02
original_glrlm_RunLengthNonUniformity	5.173e+01
original_glrlm_RunLengthNonUniformityNormalized	8.646e+01
original_glrlm_RunPercentage	-1.962e+02
original_glrlm_RunVariance	1.305e+01
original_glrlm_ShortRunEmphasis	-1.328e+02
original_glrlm_ShortRunHighGrayLevelEmphasis	3.520e+02
original_glrlm_ShortRunLowGrayLevelEmphasis	1.173e+03
original_glszm_GrayLevelNonUniformity	-5.514e+00
original_glszm_GrayLevelNonUniformityNormalized	6.482e+00
original_glszm_GrayLevelVariance	1.826e+01
original_glszm_HighGrayLevelZoneEmphasis	-6.037e+01
original_glszm_LargeAreaEmphasis	-3.916e+03
original_glszm_LargeAreaHighGrayLevelEmphasis	-2.948e+00
original_glszm_LargeAreaLowGrayLevelEmphasis	-1.154e+01
original_glszm_LowGrayLevelZoneEmphasis	1.572e+01
original_glszm_SizeZoneNonUniformity	1.091e+00
original_glszm_SizeZoneNonUniformityNormalized	-6.266e+01
original_glszm_SmallAreaEmphasis	5.532e+01
original_glszm_SmallAreaHighGrayLevelEmphasis	3.639e+01
original_glszm_SmallAreaLowGrayLevelEmphasis	-2.877e+00
original_glszm_ZoneEntropy	-1.396e+01
original_glszm_ZonePercentage	-3.357e+01
original_glszm_ZoneVariance	3.924e+03
original_ngtdm_Busyness	2.466e+00
original_ngtdm_Coarseness	4.477e-01
original_ngtdm_Complexity	1.468e+01
	-4.695e+01
original_ngtdm_Contrast	
original_ngtdm_Strength	-3.795e+00
original_shape_Elongation	1.353e+01
original_shape_Flatness	-1.472e+01
original_shape_LeastAxisLength	2.724e+01
original_shape_MajorAxisLength	1.335e+01
original_shape_Maximum2DDiameterColumn	-1.234e+01
original_shape_Maximum2DDiameterRow	-1.967e+00
original_shape_Maximum2DDiameterSlice	-1.183e+01
original_shape_Maximum3DDiameter	1.547e+01
original shape MeshVolume	6.940e+02
original_shape_MinorAxisLength	-1.459e+01
original_shape_Sphericity	-3.098e+00
original_shape_SurfaceArea	-2.504e+01
original_shape_SurfaceVolumeRatio	2.318e+02
original_shape_VoxelVolume	-7.327e+02
cluster_tree3.866427	6.469e+00
	exp(coef)
original_firstorder_10Percentile	2.108e+27
original_firstorder_90Percentile	2.305e-10
original_firstorder_Energy	9.406e-09
original_firstorder_Entropy	1.498e-48
original_firstorder_InterquartileRange	1.302e+08
original_firstorder_Kurtosis	1.807e+03
original_firstorder_Maximum	7.419e-06
original_firstorder_Mean	3.368e-32
	1.317e+62
original_firstorder_MeanAbsoluteDeviation	31/4+5/

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original_firstorder_Median	5.583e+24
original_firstorder_Minimum	1.183e+03
original_firstorder_Range	1.000e+00
original_firstorder_RobustMeanAbsoluteDeviation	8.097e-10
	1.544e-04
original_firstorder_RootMeanSquared	
original_firstorder_Skewness	8.338e-02
original_firstorder_TotalEnergy	1.000e+00
original_firstorder_Uniformity	1.180e-33
original_firstorder_Variance	Inf
original_glcm_Autocorrelation	1.870e-09
original_glcm_ClusterProminence	Inf
original_glcm_ClusterShade	2.054e+27
original_glcm_ClusterTendency	7.286e-21
original_glcm_Contrast	Inf
original_glcm_Correlation	2.680e-07
original_glcm_DifferenceAverage	Inf
original_glcm_DifferenceEntropy	1.482e+36
original_glcm_DifferenceVariance	0.000e+00
original_glcm_Id	Inf
original_glcm_Idm	0.000e+00
original_glcm_Idmn	1.594e-16
original_glcm_Idn	1.183e+18
original_glcm_Imc1	1.953e-06
original_glcm_Imc2	1.520e-05
original_glcm_InverseVariance	1.643e+221
original_glcm_JointAverage	1.474e-36
original_glcm_JointEnergy	2.248e+14
original_glcm_JointEntropy	6.800e-33
original_glcm_MCC	1.791e-01
original_glcm_MaximumProbability	1.173e+07
original_glcm_SumAverage	1.000e+00
original_glcm_SumEntropy	9.497e+04
original_glcm_SumSquares	1.000e+00
original_gldm_DependenceEntropy	1.586e+09
original_gldm_DependenceNonUniformity	1.739e+02
original_gldm_DependenceNonUniformityNormalized	3.652e+10
original_gldm_DependenceVariance	5.569e-11
original gldm GrayLevelNonUniformity	2.635e-08
original_gldm_GrayLevelVariance	0.000e+00
original_gldm_HighGrayLevelEmphasis	
	2.210e-231
original_gldm_LargeDependenceEmphasis	3.940e-71
original_gldm_LargeDependenceHighGrayLevelEmphasis	2.368e+51
original_gldm_LargeDependenceLowGrayLevelEmphasis	4.686e+121
original_gldm_LowGrayLevelEmphasis	7.686e+206
original_gldm_SmallDependenceEmphasis	3.232e-19
original_gldm_SmallDependenceHighGrayLevelEmphasis	1.698e+01
original_gldm_SmallDependenceLowGrayLevelEmphasis	2.845e-10
original_glrlm_GrayLevelNonUniformity	2.863e+07
original_glrlm_GrayLevelNonUniformityNormalized	4.324e+05
original_glrlm_GrayLevelVariance	2.436e+49
original_glrlm_HighGrayLevelRunEmphasis	4.287e+102
original_glrlm_LongRunEmphasis	1.069e-08
original_glrlm_LongRunHighGrayLevelEmphasis	1.079e-06
original_glrlm_LongRunLowGrayLevelEmphasis	2.208e-05
original_glrlm_LowGrayLevelRunEmphasis	0.000e+00
original_glrlm_RunEntropy	1.043e+61
original_glrlm_RunLengthNonUniformity	2.929e+22
original_glrlm_RunLengthNonUniformityNormalized	3.553e+37
original_glrlm_RunPercentage	5.999e-86

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oniginal glalm PunVanianco	4.673e+05
original_glrlm_RunVariance	
original_glrlm_ShortRunEmphasis	2.092e-58
original_glrlm_ShortRunHighGrayLevelEmphasis	7.497e+152
original_glrlm_ShortRunLowGrayLevelEmphasis	Inf
original_glszm_GrayLevelNonUniformity	4.029e-03
original_glszm_GrayLevelNonUniformityNormalized	6.535e+02
original_glszm_GrayLevelVariance	8.546e+07
original_glszm_HighGrayLevelZoneEmphasis	6.054e-27
original_glszm_LargeAreaEmphasis	0.000e+00
original_glszm_LargeAreaHighGrayLevelEmphasis	5.246e-02
original_glszm_LargeAreaLowGrayLevelEmphasis	9.723e-06
original_glszm_LowGrayLevelZoneEmphasis	6.720e+06
original_glszm_SizeZoneNonUniformity	2.978e+00
original_glszm_SizeZoneNonUniformityNormalized	6.105e-28
original_glszm_SmallAreaEmphasis	1.055e+24
original_glszm_SmallAreaHighGrayLevelEmphasis	6.372e+15
original_glszm_SmallAreaLowGrayLevelEmphasis	5.628e-02
original_glszm_ZoneEntropy	8.696e-07
original_glszm_ZonePercentage	
	2.627e-15
original_glszm_ZoneVariance	Inf
original_ngtdm_Busyness	1.177e+01
original_ngtdm_Coarseness	1.565e+00
original_ngtdm_Complexity	2.369e+06
original_ngtdm_Contrast	4.061e-21
original_ngtdm_Strength	2.248e-02
original_shape_Elongation	7.506e+05
original_shape_Flatness	4.041e-07
original_shape_LeastAxisLength	6.740e+11
original_shape_MajorAxisLength	6.250e+05
original_shape_Maximum2DDiameterColumn	4.377e-06
original_shape_Maximum2DDiameterRow	1.399e-01
original_shape_Maximum2DDiameterSlice	7.257e-06
original_shape_Maximum3DDiameter	5.217e+06
original_shape_MeshVolume	2.598e+301
original_shape_MinorAxisLength	4.625e-07
original_shape_Sphericity	4.516e-02
original_shape_SurfaceArea	1.338e-11
original_shape_SurfaceVolumeRatio	4.731e+100
original_shape_VoxelVolume	6.082e-319
cluster_tree3.866427	6.447e+02
	se(coef)
original_firstorder_10Percentile	1.392e-01
original_firstorder_90Percentile	8.672e-02
original_firstorder_Energy	1.204e-01
original_firstorder_Entropy	1.285e-01
original_firstorder_InterquartileRange	1.414e-01
original_firstorder_Kurtosis	1.176e-01
original_firstorder_Maximum	1.186e-01
original_firstorder_Mean	1.378e-01
original_firstorder_MeanAbsoluteDeviation	1.281e-01
original_firstorder_Median	1.518e-01
original_firstorder_Minimum	1.773e-01
original_firstorder_Minimum original_firstorder_Range	1.773e-01 1.384e-01
original_firstorder_RobustMeanAbsoluteDeviation	1.456e-01
original_firstorder_RootMeanSquared	1.326e-01
original_firstorder_Skewness	1.036e-01
original_firstorder_TotalEnergy	1.204e-01
original_firstorder_Uniformity	1.319e-01
original_firstorder_Variance	2.211e-01

,	4/2025, 11.51 Simulated exal	ripies for the survi
	original_glcm_Autocorrelation	1.616e-01
	original_glcm_ClusterProminence	2.042e+00
	original_glcm_ClusterShade	3.632e-01
	original_glcm_ClusterTendency	1.923e-01
	original_glcm_Contrast	8.294e-01
	original_glcm_Correlation	1.471e-01
	original_glcm_DifferenceAverage	1.494e-01
	original_glcm_DifferenceEntropy	1.374e-01
	original_glcm_DifferenceVariance	1.101e+00
	original_glcm_Id	1.267e-01
	original_glcm_Idm	1.271e-01
	original_glcm_Idmn	2.482e-01
	original_glcm_Idn	1.975e-01
	original_glcm_Imc1	1.320e-01
	original_glcm_Imc2	1.540e-01
	original_glcm_InverseVariance	1.179e-01
	original_glcm_JointAverage	1.726e-01
	original_glcm_JointEnergy	1.198e-01
	original_glcm_JointEntropy	1.251e-01
	original_glcm_MCC	1.630e-01
	original_glcm_MaximumProbability	1.295e-01
	original_glcm_SumAverage	1.726e-01
	original_glcm_SumEntropy	1.277e-01
	original_glcm_SumSquares	2.326e-01
	original_gldm_DependenceEntropy	1.238e-01
	original_gldm_DependenceNonUniformity	8.950e-02
	original_gldm_DependenceNonUniformityNormalized	1.055e-01
	original_gldm_DependenceVariance	1.406e-01
	original_gldm_GrayLevelNonUniformity	9.494e-02
	original_gldm_GrayLevelVariance	2.207e-01
	original_gldm_HighGrayLevelEmphasis	1.617e-01
	original_gldm_LargeDependenceEmphasis	1.494e-01
	original_gldm_LargeDependenceHighGrayLevelEmphasis	1.169e-01
	original_gldm_LargeDependenceLowGrayLevelEmphasis	
	original_gldm_LowGrayLevelEmphasis	1.689e-01
	original_gldm_SmallDependenceEmphasis	1.442e-01
	original_gldm_SmallDependenceHighGrayLevelEmphasis	1.283e-01
	original_gldm_SmallDependenceLowGrayLevelEmphasis	2.640e-01
	original_glrlm_GrayLevelNonUniformity	9.398e-02
	original_glrlm_GrayLevelNonUniformityNormalized	1.310e-01
	original_glrlm_GrayLevelVariance	2.112e-01
	original_glrlm_HighGrayLevelRunEmphasis	1.611e-01
	original_glrlm_LongRunEmphasis	8.942e-02
	original_glrlm_LongRunHighGrayLevelEmphasis	1.014e-01
	original_glrlm_LongRunLowGrayLevelEmphasis	2.313e-01
	original_glrlm_LowGrayLevelRunEmphasis	1.851e-01
	original_glrlm_RunEntropy	1.391e-01
	original_glrlm_RunLengthNonUniformity	1.031e-01
	original_glrlm_RunLengthNonUniformityNormalized	1.435e-01
	original_glrlm_RunPercentage	1.477e-01
	original_glrlm_RunVariance	8.186e-02
	original_glrlm_ShortRunEmphasis	1.468e-01
	original_glrlm_ShortRunHighGrayLevelEmphasis	1.599e-01
	original_glrlm_ShortRunLowGrayLevelEmphasis	1.686e-01
	original_glszm_GrayLevelNonUniformity	1.086e-01
	original_glszm_GrayLevelNonUniformityNormalized	1.803e-01
	original_glszm_GrayLevelVariance	1.468e-01
	original_glszm_HighGrayLevelZoneEmphasis	1.542e-01
	original_glszm_LargeAreaEmphasis	9.696e-02

l	
original_glszm_LargeAreaHighGrayLevelEmphasis	7.142e-02
original_glszm_LargeAreaLowGrayLevelEmphasis	4.231e-01
original_glszm_LowGrayLevelZoneEmphasis	3.756e-01
original_glszm_SizeZoneNonUniformity	1.133e-01
original_glszm_SizeZoneNonUniformityNormalized	1.631e-01
original_glszm_SmallAreaEmphasis	1.730e-01
original_glszm_SmallAreaHighGrayLevelEmphasis	1.468e-01
original_glszm_SmallAreaLowGrayLevelEmphasis	3.061e-01
original_glszm_ZoneEntropy	1.687e-01
original_glszm_ZonePercentage	1.447e-01
original_glszm_ZoneVariance	9.678e-02
original_ngtdm_Busyness	3.221e-01
original_ngtdm_Coarseness	3.605e-01
original_ngtdm_Complexity	1.890e-01
original_ngtdm_Contrast	5.662e-01
original_ngtdm_Strength	2.547e-01
original_shape_Elongation	1.473e-01
original_shape_Flatness	1.653e-01
original_shape_LeastAxisLength	1.267e-01
original_shape_MajorAxisLength	1.351e-01
original_shape_Maximum2DDiameterColumn	1.289e-01
original_shape_Maximum2DDiameterRow	1.406e-01
original_shape_Maximum2DDiameterSlice	1.286e-01
original_shape_Maximum3DDiameter	1.215e-01
original_shape_MeshVolume	9.715e-02
	1.265e-01
original_shape_MinorAxisLength	
original_shape_Sphericity	1.546e-01
original_shape_SurfaceArea	9.567e-02
original_shape_SurfaceVolumeRatio	1.410e-01
original_shape_VoxelVolume	9.735e-02
cluster_tree3.866427	3.242e-01
	Z
original_firstorder_10Percentile	451.938
	431.336
original_firstorder_90Percentile	-255.877
<pre>original_firstorder_90Percentile original_firstorder_Energy</pre>	
	-255.877
original_firstorder_Energy	-255.877 -153.463
original_firstorder_Energy original_firstorder_Entropy	-255.877 -153.463 -857.149
<pre>original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange</pre>	-255.877 -153.463 -857.149 132.099
original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum	-255.877 -153.463 -857.149 132.099 63.777
original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean	-255.877 -153.463 -857.149 132.099 63.777 -99.612
original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation	-255.877 -153.463 -857.149 132.099 63.777 -99.612 -526.059 1116.991
original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation original_firstorder_Median	-255.877 -153.463 -857.149 132.099 63.777 -99.612 -526.059 1116.991 375.388
original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation original_firstorder_Median original_firstorder_Minimum	-255.877 -153.463 -857.149 132.099 63.777 -99.612 -526.059 1116.991 375.388 39.912
original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation original_firstorder_Median original_firstorder_Minimum original_firstorder_Range	-255.877 -153.463 -857.149 132.099 63.777 -99.612 -526.059 1116.991 375.388 39.912 0.000
original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation	-255.877 -153.463 -857.149 132.099 63.777 -99.612 -526.059 1116.991 375.388 39.912 0.000 -143.761
original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanSquared	-255.877 -153.463 -857.149 132.099 63.777 -99.612 -526.059 1116.991 375.388 39.912 0.000 -143.761 -66.187
original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanSquared original_firstorder_Skewness	-255.877 -153.463 -857.149 132.099 63.777 -99.612 -526.059 1116.991 375.388 39.912 0.000 -143.761 -66.187 -23.987
original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_Skewness original_firstorder_TotalEnergy	-255.877 -153.463 -857.149 132.099 63.777 -99.612 -526.059 1116.991 375.388 39.912 0.000 -143.761 -66.187 -23.987 0.000
original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Minimum original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity	-255.877 -153.463 -857.149 132.099 63.777 -99.612 -526.059 1116.991 375.388 39.912 0.000 -143.761 -66.187 -23.987 0.000 -574.896
original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance	-255.877 -153.463 -857.149 132.099 63.777 -99.612 -526.059 1116.991 375.388 39.912 0.000 -143.761 -66.187 -23.987 0.000 -574.896 13649.960
original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation	-255.877 -153.463 -857.149 132.099 63.777 -99.612 -526.059 1116.991 375.388 39.912 0.000 -143.761 -66.187 -23.987 0.000 -574.896 13649.960 -124.343
original_firstorder_Energy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation original_glcm_ClusterProminence	-255.877 -153.463 -857.149 132.099 63.777 -99.612 -526.059 1116.991 375.388 39.912 0.000 -143.761 -66.187 -23.987 0.000 -574.896 13649.960 -124.343 389.144
original_firstorder_Energy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation original_glcm_ClusterProminence original_glcm_ClusterShade	-255.877 -153.463 -857.149 132.099 63.777 -99.612 -526.059 1116.991 375.388 39.912 0.000 -143.761 -66.187 -23.987 0.000 -574.896 13649.960 -124.343 389.144 173.143
original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Range original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation original_glcm_ClusterProminence original_glcm_ClusterShade original_glcm_ClusterTendency	-255.877 -153.463 -857.149 132.099 63.777 -99.612 -526.059 1116.991 375.388 39.912 0.000 -143.761 -66.187 -23.987 0.000 -574.896 13649.960 -124.343 389.144
original_firstorder_Energy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation original_glcm_ClusterProminence original_glcm_ClusterShade	-255.877 -153.463 -857.149 132.099 63.777 -99.612 -526.059 1116.991 375.388 39.912 0.000 -143.761 -66.187 -23.987 0.000 -574.896 13649.960 -124.343 389.144 173.143
original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Range original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation original_glcm_ClusterProminence original_glcm_ClusterShade original_glcm_ClusterTendency	-255.877 -153.463 -857.149 132.099 63.777 -99.612 -526.059 1116.991 375.388 39.912 0.000 -143.761 -66.187 -23.987 0.000 -574.896 13649.960 -124.343 389.144 173.143 -241.109
original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation original_glcm_ClusterProminence original_glcm_ClusterShade original_glcm_ClusterTendency original_glcm_ClusterTendency	-255.877 -153.463 -857.149 132.099 63.777 -99.612 -526.059 1116.991 375.388 39.912 0.000 -143.761 -66.187 -23.987 0.000 -574.896 13649.960 -124.343 389.144 173.143 -241.109 1038.443
original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation original_glcm_ClusterProminence original_glcm_ClusterShade original_glcm_ClusterTendency original_glcm_Contrast original_glcm_Correlation	-255.877 -153.463 -857.149 132.099 63.777 -99.612 -526.059 1116.991 375.388 39.912 0.000 -143.761 -66.187 -23.987 0.000 -574.896 13649.960 -124.343 389.144 173.143 -241.109 1038.443 -102.877
original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_TotalEnergy original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation original_glcm_ClusterProminence original_glcm_ClusterShade original_glcm_ClusterTendency original_glcm_Correlation original_glcm_Correlation original_glcm_Correlation	-255.877 -153.463 -857.149 132.099 63.777 -99.612 -526.059 1116.991 375.388 39.912 0.000 -143.761 -66.187 -23.987 0.000 -574.896 13649.960 -124.343 389.144 173.143 -241.109 1038.443 -102.877 5405.660

oniginal glem Id	41609 256
original_glcm_Id	41608.356 -35871.054
<pre>original_glcm_Idm original_glcm_Idmn</pre>	-146.536
original_glcm_Idn	210.694
original_glcm_Imc1	-99.588
original_glcm_Imc2	-72 . 057
original_glcm_InverseVariance	4318.509
original_glcm_JointAverage	-477.967
original_glcm_JointEnergy	275.938
original_glcm_JointEntropy	-592.064
original_glcm_MCC	-10.550
original_glcm_MaximumProbability	125.722
original_glcm_SumAverage	0.000
original_glcm_SumEntropy	89.729
original_glcm_SumSquares	0.000
original_gldm_DependenceEntropy	171.134
original_gldm_DependenceNonUniformity	57.637
original gldm DependenceNonUniformityNormalized	230.524
original_gldm_DependenceVariance	-167.984
original gldm GrayLevelNonUniformity	-183.817
original_gldm_GrayLevelVariance	-14942.194
original_gldm_HighGrayLevelEmphasis	-3283.530
original_gldm_LargeDependenceEmphasis	-1084.836
original_gldm_LargeDependenceHighGrayLevelEmphasis	1011.988
original_gldm_LargeDependenceLowGrayLevelEmphasis	672.100
original_gldm_LowGrayLevelEmphasis	2819.921
original_gldm_SmallDependenceEmphasis	-295.268
original_gldm_SmallDependenceHighGrayLevelEmphasis	22.065
original_gldm_SmallDependenceLowGrayLevelEmphasis	-83.268
original_glrlm_GrayLevelNonUniformity	182.690
original glrlm GrayLevelNonUniformityNormalized	99.051
original_glrlm_GrayLevelVariance	538.443
original_glrlm_HighGrayLevelRunEmphasis	1467.037
original_glrlm_LongRunEmphasis	-205.248
original_glrlm_LongRunHighGrayLevelEmphasis	-135.552
original_glrlm_LongRunLowGrayLevelEmphasis	-46.357
original_glrlm_LowGrayLevelRunEmphasis	-9913.128
original glrlm RunEntropy	1010.216
original_glrlm_RunLengthNonUniformity	501.843
original_glrlm_RunLengthNonUniformityNormalized	602.355
original_glrlm_RunPercentage	-1328.443
original_glrlm_RunVariance	159.480
original_glrlm_ShortRunEmphasis	-904.710
original_glrlm_ShortRunHighGrayLevelEmphasis	2201.709
original_glrlm_ShortRunLowGrayLevelEmphasis	6957.950
original_glszm_GrayLevelNonUniformity	-50.769
original_glszm_GrayLevelNonUniformityNormalized	35.960
original_glszm_GrayLevelVariance	124.379
original_glszm_HighGrayLevelZoneEmphasis	-391.404
original_glszm_LargeAreaEmphasis	-40385.085
original_glszm_LargeAreaHighGrayLevelEmphasis	-41.276
original_glszm_LargeAreaLowGrayLevelEmphasis	-27.275
original_glszm_LowGrayLevelZoneEmphasis	41.850
original_glszm_SizeZoneNonUniformity	9.629
original_glszm_SizeZoneNonUniformityNormalized	-384.236
original_glszm_SmallAreaEmphasis	319.702
original_glszm_SmallAreaHighGrayLevelEmphasis	247.931
original_glszm_SmallAreaLowGrayLevelEmphasis	-9.399
original_glszm_ZoneEntropy	-82.729

original_glszm_ZonePercentage	-231.959
original_glszm_ZoneVariance	40546.131
original_ngtdm_Busyness	7.655
	1.242
original_ngtdm_Coarseness	77.678
original_ngtdm_Complexity	
original_ngtdm_Contrast	-82.929
original_ngtdm_Strength	-14.900
original_shape_Elongation	91.813
original_shape_Flatness	-89.064
original_shape_LeastAxisLength	214.896
original_shape_MajorAxisLength	98.776
original_shape_Maximum2DDiameterColumn	-95.706
original_shape_Maximum2DDiameterRow	-13.988
original_shape_Maximum2DDiameterSlice	-92.022
original_shape_Maximum3DDiameter	127.290
original_shape_MeshVolume	7143.683
original_shape_MinorAxisLength	-115.296
original_shape_Sphericity	-20.041
original_shape_SurfaceArea	-261.709
original_shape_SurfaceVolumeRatio	1643.995
	-7526.295
original_shape_VoxelVolume	
cluster_tree3.866427	19.950
	р
original_firstorder_10Percentile	< 2e-16
original_firstorder_90Percentile	< 2e-16
original_firstorder_Energy	< 2e-16
original_firstorder_Entropy	< 2e-16
original_firstorder_InterquartileRange	< 2e-16
original_firstorder_Kurtosis	< 2e-16
original_firstorder_Maximum	< 2e-16
original firstorder Mean	< 2e-16
original_firstorder_MeanAbsoluteDeviation	< 2e-16
original_firstorder_Median	< 2e-16
original_firstorder_Minimum	< 2e-16
original_firstorder_Range	1.000
original_firstorder_RobustMeanAbsoluteDeviation	< 2e-16
original_firstorder_RootMeanSquared	< 2e-16
original_firstorder_Skewness	< 2e-16
original_firstorder_TotalEnergy	1.000
original_firstorder_Uniformity	< 2e-16
original_firstorder_Variance	< 2e-16
original_glcm_Autocorrelation	< 2e-16
original_glcm_ClusterProminence	< 2e-16
original_glcm_ClusterShade	< 2e-16
original_glcm_ClusterTendency	< 2e-16
original_glcm_Contrast	< 2e-16
original_glcm_Correlation	< 2e-16
original_glcm_DifferenceAverage	< 2e-16
original_glcm_DifferenceEntropy	< 2e-16
original_glcm_DifferenceVariance	< 2e-16
original_glcm_Id	< 2e-16
original_glcm_Idm	< 2e-16
original_glcm_Idmn	< 2e-16
original_glcm_Idn	< 2e-16
original_glcm_Imc1	< 2e-16
original_glcm_Imc2	< 2e-16
original_glcm_InverseVariance	< 2e-16
original_glcm_JointAverage	< 2e-16
original_glcm_JointEnergy	< 2e-16

74/2020, 11.01	ilpies for the
original_glcm_JointEntropy	< 2e-16
original_glcm_MCC	< 2e-16
original_glcm_MaximumProbability	< 2e-16
original_glcm_SumAverage	1.000
original_glcm_SumEntropy	< 2e-16
original_glcm_SumSquares	1.000
original_gldm_DependenceEntropy	< 2e-16
original_gldm_DependenceNonUniformity	< 2e-16
$original_gldm_Dependence Non Uniformity Normalized$	< 2e-16
original_gldm_DependenceVariance	< 2e-16
original_gldm_GrayLevelNonUniformity	< 2e-16
original_gldm_GrayLevelVariance	< 2e-16
original_gldm_HighGrayLevelEmphasis	< 2e-16
original_gldm_LargeDependenceEmphasis	< 2e-16
original_gldm_LargeDependenceHighGrayLevelEmphasis	< 2e-16
original_gldm_LargeDependenceLowGrayLevelEmphasis	< 2e-16
original_gldm_LowGrayLevelEmphasis	< 2e-16
original_gldm_SmallDependenceEmphasis	< 2e-16
original_gldm_SmallDependenceHighGrayLevelEmphasis	< 2e-16
original_gldm_SmallDependenceLowGrayLevelEmphasis	< 2e-16
original_glrlm_GrayLevelNonUniformity	< 2e-16
original_glrlm_GrayLevelNonUniformityNormalized	< 2e-16
original_glrlm_GrayLevelVariance	< 2e-16
original_glrlm_HighGrayLevelRunEmphasis	< 2e-16
original_glrlm_LongRunEmphasis	< 2e-16
original_glrlm_LongRunHighGrayLevelEmphasis	< 2e-16
original_glrlm_LongRunLowGrayLevelEmphasis	< 2e-16
original_glrlm_LowGrayLevelRunEmphasis	< 2e-16
original_glrlm_RunEntropy	< 2e-16
original_glrlm_RunLengthNonUniformity	< 2e-16
$original_glrlm_RunLengthNonUniformityNormalized$	< 2e-16
original_glrlm_RunPercentage	< 2e-16
original_glrlm_RunVariance	< 2e-16
original_glrlm_ShortRunEmphasis	< 2e-16
original_glrlm_ShortRunHighGrayLevelEmphasis	< 2e-16
original_glrlm_ShortRunLowGrayLevelEmphasis	< 2e-16
original_glszm_GrayLevelNonUniformity	< 2e-16
$original_glszm_GrayLevelNonUniformityNormalized$	< 2e-16
original_glszm_GrayLevelVariance	< 2e-16
original_glszm_HighGrayLevelZoneEmphasis	< 2e-16
original_glszm_LargeAreaEmphasis	< 2e-16
original_glszm_LargeAreaHighGrayLevelEmphasis	< 2e-16
original_glszm_LargeAreaLowGrayLevelEmphasis	< 2e-16
original_glszm_LowGrayLevelZoneEmphasis	< 2e-16
original_glszm_SizeZoneNonUniformity	< 2e-16
original_glszm_SizeZoneNonUniformityNormalized	< 2e-16
original_glszm_SmallAreaEmphasis	< 2e-16
original_glszm_SmallAreaHighGrayLevelEmphasis	< 2e-16
original_glszm_SmallAreaLowGrayLevelEmphasis	< 2e-16
original_glszm_ZoneEntropy	< 2e-16
original_glszm_ZonePercentage	< 2e-16
original_glszm_ZoneVariance	< 2e-16
original_ngtdm_Busyness	1.93e-14
original_ngtdm_Coarseness	0.214
original_ngtdm_Complexity	< 2e-16
original_ngtdm_Contrast	< 2e-16
original_ngtdm_Strength	< 2e-16
original_shape_Elongation	< 2e-16
original_shape_Flatness	< 2e-16

```
original_shape_LeastAxisLength
                                                     < 2e-16
original_shape_MajorAxisLength
                                                     < 2e-16
original shape Maximum2DDiameterColumn
                                                     < 2e-16
original shape Maximum2DDiameterRow
                                                    < 2e-16
original shape Maximum2DDiameterSlice
                                                    < 2e-16
original shape Maximum3DDiameter
                                                    < 2e-16
original_shape_MeshVolume
                                                    < 2e-16
original_shape_MinorAxisLength
                                                    < 2e-16
original shape Sphericity
                                                     < 2e-16
original_shape_SurfaceArea
                                                    < 2e-16
original_shape_SurfaceVolumeRatio
                                                    < 2e-16
original_shape_VoxelVolume
                                                     < 2e-16
cluster tree3.866427
                                                     < 2e-16
Likelihood ratio test=263.5 on 108 df, p=5.265e-15
n= 361, number of events= 48
$model_list[[1]]$clusters
[1] 0.612921 3.866427
$model_list[[2]]
$model_list[[2]]$treemodel
n= 361
node), split, n, deviance, yval
      * denotes terminal node
1) root 361 247.5581 1.0000000
  2) original_ngtdm_Complexity< -0.0829807 230 79.8152 0.4333402 *
  3) original_ngtdm_Complexity>=-0.0829807 131 142.1385 2.0967100 *
$model_list[[2]]$modcoxmodel
coxph(formula = as.formula(paste("Surv(df train$time, df train$event) ~",
    paste(predict.factors, collapse = "+"))), data = df_train,
    x = TRUE
                                                           coef
original_firstorder_10Percentile
                                                    -1.632e+03
original firstorder 90Percentile
                                                     1.044e+03
original_firstorder_Energy
                                                     -5.873e+02
                                                    -6.152e+03
original_firstorder_Entropy
original_firstorder_InterquartileRange
                                                     2.274e+03
original firstorder Kurtosis
                                                     -1.906e+01
original_firstorder_Maximum
                                                     -1.782e+02
original firstorder Mean
                                                     -8.801e+02
original_firstorder_MeanAbsoluteDeviation
                                                      2.131e+03
original_firstorder_Median
                                                      5.065e+02
original firstorder Minimum
                                                      1.092e+03
original_firstorder_Range
                                                      0.000e+00
original_firstorder_RobustMeanAbsoluteDeviation
                                                     -4.699e+03
original firstorder RootMeanSquared
                                                     -1.441e+01
original firstorder Skewness
                                                      1.828e+01
original_firstorder_TotalEnergy
                                                      0.000e+00
                                                     -2.208e+03
original firstorder Uniformity
original_firstorder_Variance
                                                      3.730e+04
original_glcm_Autocorrelation
                                                     -8.159e+03
original_glcm_ClusterProminence
                                                      5.074e+03
```

original_glcm_ClusterShade	6.039e+01
original_glcm_ClusterTendency	-2.204e+03
original_glcm_Contrast	1.431e+04
original_glcm_Correlation	-2.152e+02
original_glcm_DifferenceAverage	-1.171e+03
original_glcm_DifferenceEntropy	1.662e+03
original_glcm_DifferenceVariance	-1.546e+04
original_glcm_Id	1.529e+04
original_glcm_Idm	-1.622e+04
original_glcm_Idmn	-3.744e+02
original_glcm_Idn	5.888e+02
original_glcm_Imc1	-5.338e+02
original_glcm_Imc2	-9.110e+02
original_glcm_InverseVariance	1.162e+03
original_glcm_JointAverage	5.335e+02
original_glcm_JointEnergy	1.281e+03
original_glcm_JointEntropy	-2.383e+03
original_glcm_MCC	1.807e+02
original_glcm_MaximumProbability	1.663e+02
original_glcm_SumAverage	0.000e+00
original_glcm_SumEntropy	3.795e+03
original_glcm_SumSquares	0.000e+00
original_gldm_DependenceEntropy	1.260e+03
original_gldm_DependenceNonUniformity	4.588e+02
original_gldm_DependenceNonUniformityNormalized	-3.308e+00
original_gldm_DependenceVariance	6.244e+02
original_gldm_GrayLevelNonUniformity	-6.959e+02
original_gldm_GrayLevelVariance	-4.388e+04
original_gldm_HighGrayLevelEmphasis	-1.698e+03
original_gldm_LargeDependenceEmphasis	-3.276e+03
original_gldm_LargeDependenceHighGrayLevelEmphasis	-8.393e+02
original_gldm_LargeDependenceLowGrayLevelEmphasis	-1.786e+03
	1.110e+03
original_gldm_LowGrayLevelEmphasis	
original_gldm_SmallDependenceEmphasis	-8.413e+02
original_gldm_SmallDependenceHighGrayLevelEmphasis	6.962e+02
original_gldm_SmallDependenceLowGrayLevelEmphasis	6.897e+01
original_glrlm_GrayLevelNonUniformity	-4.465e+01
original_glrlm_GrayLevelNonUniformityNormalized	-7.382e+02
original_glrlm_GrayLevelVariance	4.939e+03
original_glrlm_HighGrayLevelRunEmphasis	1.454e+04
original_glrlm_LongRunEmphasis	-1.800e+03
original_glrlm_LongRunHighGrayLevelEmphasis	-2.908e+02
original glrlm LongRunLowGrayLevelEmphasis	-3.290e+02
original_glrlm_LowGrayLevelRunEmphasis	7.593e+03
original_glrlm_RunEntropy	3.469e+02
original_glrlm_RunLengthNonUniformity	2.785e+02
original_glrlm_RunLengthNonUniformityNormalized	8.887e+03
original_glrlm_RunPercentage	-4.664e+03
original_glrlm_RunVariance	1.989e+03
original_glrlm_ShortRunEmphasis	-6.198e+03
original_glrlm_ShortRunHighGrayLevelEmphasis	-3.897e+03
original_glrlm_ShortRunLowGrayLevelEmphasis	-7.240e+03
original_glszm_GrayLevelNonUniformity	-1.479e+02
original_glszm_GrayLevelNonUniformityNormalized	6.729e+02
original_glszm_GrayLevelVariance	
06a6_50. a) _c. c aac	2.648e+02
	2.648e+02 5.260e+01
original_glszm_HighGrayLevelZoneEmphasis	5.260e+01
original_glszm_HighGrayLevelZoneEmphasis original_glszm_LargeAreaEmphasis	5.260e+01 -3.688e+04
original_glszm_HighGrayLevelZoneEmphasis	5.260e+01

original_glszm_LowGrayLevelZoneEmphasis	-1.444e+02
	6.286e+02
original_glszm_SizeZoneNonUniformity	
original_glszm_SizeZoneNonUniformityNormalized	1.080e+02
original_glszm_SmallAreaEmphasis	1.946e+02
original_glszm_SmallAreaHighGrayLevelEmphasis	-3.496e+02
original_glszm_SmallAreaLowGrayLevelEmphasis	4.584e+01
original_glszm_ZoneEntropy	5.382e+02
original_glszm_ZonePercentage	6.397e+02
original_glszm_ZoneVariance	3.713e+04
original_ngtdm_Busyness	3.824e+01
original_ngtdm_Coarseness	1.886e+02
original_ngtdm_Complexity	-2.526e+02
original_ngtdm_Contrast	-7.587e+02
original_ngtdm_Strength	-8.672e+01
original_shape_Elongation	1.130e+02
original_shape_Flatness	-1.818e+02
original_shape_LeastAxisLength	2.819e+02
original_shape_MajorAxisLength	7.008e+01
original_shape_Maximum2DDiameterColumn	-1.677e+02
original_shape_Maximum2DDiameterRow	2.072e+01
original_shape_Maximum2DDiameterSlice	-1.431e+01
original_shape_Maximum3DDiameter	1.453e+02
original_shape_MeshVolume	3.771e+03
original_shape_MinorAxisLength	3.534e+01
original_shape_Sphericity	-2.302e+02
original_shape_SurfaceArea	-2.886e+02
original_shape_SurfaceVolumeRatio	3.264e+02
original_shape_VoxelVolume	-4.314e+03
cluster_tree2.09671	2.482e+02
	exp(coef)
	/
original_firstorder_10Percentile	0.000e+00
<pre>original_firstorder_10Percentile original_firstorder_90Percentile</pre>	
_	0.000e+00
original_firstorder_90Percentile original_firstorder_Energy	0.000e+00 Inf
<pre>original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy</pre>	0.000e+00 Inf 8.900e-256
original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange	0.000e+00 Inf 8.900e-256 0.000e+00 Inf
original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis	0.000e+00 Inf 8.900e-256 0.000e+00 Inf 5.263e-09
original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum	0.000e+00 Inf 8.900e-256 0.000e+00 Inf 5.263e-09 4.064e-78
original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean	0.000e+00 Inf 8.900e-256 0.000e+00 Inf 5.263e-09 4.064e-78 0.000e+00
original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation	0.000e+00 Inf 8.900e-256 0.000e+00 Inf 5.263e-09 4.064e-78 0.000e+00 Inf
original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation original_firstorder_Median	0.000e+00 Inf 8.900e-256 0.000e+00 Inf 5.263e-09 4.064e-78 0.000e+00 Inf 9.420e+219
original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation original_firstorder_Median original_firstorder_Minimum	0.000e+00 Inf 8.900e-256 0.000e+00 Inf 5.263e-09 4.064e-78 0.000e+00 Inf 9.420e+219 Inf
original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation original_firstorder_Median original_firstorder_Minimum original_firstorder_Range	0.000e+00 Inf 8.900e-256 0.000e+00 Inf 5.263e-09 4.064e-78 0.000e+00 Inf 9.420e+219
original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation	0.000e+00 Inf 8.900e-256 0.000e+00 Inf 5.263e-09 4.064e-78 0.000e+00 Inf 9.420e+219 Inf
original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation original_firstorder_Median original_firstorder_Minimum original_firstorder_Range	0.000e+00 Inf 8.900e-256 0.000e+00 Inf 5.263e-09 4.064e-78 0.000e+00 Inf 9.420e+219 Inf 1.000e+00
original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation	0.000e+00 Inf 8.900e-256 0.000e+00 Inf 5.263e-09 4.064e-78 0.000e+00 Inf 9.420e+219 Inf 1.000e+00 0.000e+00
original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation	0.000e+00
original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanSquared original_firstorder_Skewness	0.000e+00
original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_Skewness original_firstorder_TotalEnergy	0.000e+00
original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Rinimum original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RotMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance	0.000e+00
original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Rinimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RotMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation	0.000e+00
original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation original_glcm_ClusterProminence	0.000e+00
original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation 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 original_glcm_Autocorrelation original_glcm_ClusterProminence original_glcm_ClusterShade	0.000e+00
original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation original_glcm_ClusterProminence original_glcm_ClusterShade original_glcm_ClusterTendency	0.000e+00
original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation original_glcm_ClusterProminence original_glcm_ClusterShade original_glcm_ClusterTendency original_glcm_ClusterTendency	0.000e+00
original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation original_glcm_ClusterProminence original_glcm_ClusterProminence original_glcm_ClusterTendency original_glcm_ClusterTendency original_glcm_Correlation	0.000e+00
original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation original_glcm_ClusterProminence original_glcm_ClusterShade original_glcm_ClusterTendency original_glcm_ClusterTendency original_glcm_Contrast original_glcm_Correlation original_glcm_Correlation	0.000e+00
original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RotMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation original_glcm_ClusterProminence original_glcm_ClusterTendency original_glcm_ClusterTendency original_glcm_Correlation original_glcm_Correlation original_glcm_DifferenceAverage original_glcm_DifferenceEntropy	0.000e+00
original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation original_firstorder_Median original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RotMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation original_glcm_ClusterProminence original_glcm_ClusterTendency original_glcm_Contrast original_glcm_Correlation original_glcm_Correlation original_glcm_DifferenceAverage original_glcm_DifferenceEntropy original_glcm_DifferenceVariance	0.000e+00
original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RotMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation original_glcm_ClusterProminence original_glcm_ClusterShade original_glcm_ClusterTendency original_glcm_Correlation original_glcm_Correlation original_glcm_DifferenceAverage original_glcm_DifferenceEntropy original_glcm_DifferenceEntropy original_glcm_DifferenceVariance original_glcm_Id	0.000e+00
original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation original_firstorder_Median original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RotMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation original_glcm_ClusterProminence original_glcm_ClusterTendency original_glcm_Contrast original_glcm_Correlation original_glcm_Correlation original_glcm_DifferenceAverage original_glcm_DifferenceEntropy original_glcm_DifferenceVariance	0.000e+00

original_glcm_Idmn	2.606e-163
original_glcm_Idn	5.423e+255
original_glcm_Imc1	1.426e-232
	0.000e+00
original_glcm_Imc2	
original_glcm_InverseVariance	Inf
original_glcm_JointAverage	5.212e+231
original_glcm_JointEnergy	Inf
original_glcm_JointEntropy	0.000e+00
original_glcm_MCC	2.974e+78
original_glcm_MaximumProbability	1.650e+72
original_glcm_SumAverage	1.000e+00
original_glcm_SumEntropy	Inf
original_glcm_SumSquares	1.000e+00
original_gldm_DependenceEntropy	Inf
original_gldm_DependenceNonUniformity	1.724e+199
original_gldm_DependenceNonUniformityNormalized	3.659e-02
original_gldm_DependenceVariance	1.422e+271
original_gldm_GrayLevelNonUniformity	6.130e-303
original_gldm_GrayLevelVariance	0.000e+00
original_gldm_HighGrayLevelEmphasis	0.000e+00
original_gldm_LargeDependenceEmphasis	0.000e+00
original_gldm_LargeDependenceHighGrayLevelEmphasis	0.000e+00
original_gldm_LargeDependenceLowGrayLevelEmphasis	0.000e+00
original_gldm_LowGrayLevelEmphasis	Inf
original_gldm_SmallDependenceEmphasis	0.000e+00
<pre>original_gldm_SmallDependenceHighGrayLevelEmphasis</pre>	2.205e+302
original_gldm_SmallDependenceLowGrayLevelEmphasis	8.952e+29
original_glrlm_GrayLevelNonUniformity	4.066e-20
original_glrlm_GrayLevelNonUniformityNormalized	2.648e-321
original_glrlm_GrayLevelVariance	Inf
original_glrlm_HighGrayLevelRunEmphasis	Inf
<pre>original_glrlm_HighGrayLevelRunEmphasis original_glrlm_LongRunEmphasis</pre>	Inf 0.000e+00
<pre>original_glrlm_LongRunEmphasis original_glrlm_LongRunHighGrayLevelEmphasis</pre>	0.000e+00
<pre>original_glrlm_LongRunEmphasis original_glrlm_LongRunHighGrayLevelEmphasis original_glrlm_LongRunLowGrayLevelEmphasis</pre>	0.000e+00 5.279e-127
<pre>original_glrlm_LongRunEmphasis original_glrlm_LongRunHighGrayLevelEmphasis original_glrlm_LongRunLowGrayLevelEmphasis original_glrlm_LowGrayLevelRunEmphasis</pre>	0.000e+00 5.279e-127 1.347e-143
original_glrlm_LongRunEmphasis original_glrlm_LongRunHighGrayLevelEmphasis original_glrlm_LongRunLowGrayLevelEmphasis original_glrlm_LowGrayLevelRunEmphasis original_glrlm_RunEntropy	0.000e+00 5.279e-127 1.347e-143 Inf 4.594e+150
original_glrlm_LongRunEmphasis original_glrlm_LongRunHighGrayLevelEmphasis original_glrlm_LongRunLowGrayLevelEmphasis original_glrlm_LowGrayLevelRunEmphasis original_glrlm_RunEntropy original_glrlm_RunLengthNonUniformity	0.000e+00 5.279e-127 1.347e-143 Inf 4.594e+150 9.180e+120
original_glrlm_LongRunEmphasis original_glrlm_LongRunHighGrayLevelEmphasis original_glrlm_LongRunLowGrayLevelEmphasis original_glrlm_LowGrayLevelRunEmphasis original_glrlm_RunEntropy original_glrlm_RunLengthNonUniformity original_glrlm_RunLengthNonUniformityNormalized	0.000e+00 5.279e-127 1.347e-143 Inf 4.594e+150 9.180e+120 Inf
original_glrlm_LongRunEmphasis original_glrlm_LongRunHighGrayLevelEmphasis original_glrlm_LongRunLowGrayLevelEmphasis original_glrlm_LowGrayLevelRunEmphasis original_glrlm_RunEntropy original_glrlm_RunLengthNonUniformity original_glrlm_RunLengthNonUniformityNormalized original_glrlm_RunPercentage	0.000e+00 5.279e-127 1.347e-143 Inf 4.594e+150 9.180e+120 Inf 0.000e+00
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	0.000e+00 5.279e-127 1.347e-143 Inf 4.594e+150 9.180e+120 Inf 0.000e+00 Inf
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	0.000e+00 5.279e-127 1.347e-143 Inf 4.594e+150 9.180e+120 Inf 0.000e+00 Inf 0.000e+00
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	0.000e+00 5.279e-127 1.347e-143 Inf 4.594e+150 9.180e+120 Inf 0.000e+00 Inf 0.000e+00 0.000e+00
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	0.000e+00 5.279e-127 1.347e-143 Inf 4.594e+150 9.180e+120 Inf 0.000e+00 Inf 0.000e+00 0.000e+00
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 original_glszm_GrayLevelNonUniformity	0.000e+00 5.279e-127 1.347e-143 Inf 4.594e+150 9.180e+120 Inf 0.000e+00 Inf 0.000e+00 0.000e+00 0.000e+00 5.647e-65
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 original_glszm_GrayLevelNonUniformity original_glszm_GrayLevelNonUniformity	0.000e+00 5.279e-127 1.347e-143
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_ShortRunLowGrayLevelEmphasis original_glrlm_ShortRunLowGrayLevelEmphasis original_glszm_GrayLevelNonUniformity original_glszm_GrayLevelNonUniformityNormalized original_glszm_GrayLevelVariance	0.000e+00 5.279e-127 1.347e-143 Inf 4.594e+150 9.180e+120 Inf 0.000e+00 Inf 0.000e+00 0.000e+00 0.000e+00 5.647e-65 1.767e+292
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 original_glszm_GrayLevelNonUniformity original_glszm_GrayLevelNonUniformityNormalized original_glszm_GrayLevelVariance original_glszm_GrayLevelVariance	0.000e+00 5.279e-127 1.347e-143
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 original_glszm_GrayLevelNonUniformity original_glszm_GrayLevelNonUniformityNormalized original_glszm_GrayLevelVariance original_glszm_GrayLevelVariance original_glszm_HighGrayLevelZoneEmphasis original_glszm_LargeAreaEmphasis	0.000e+00 5.279e-127 1.347e-143
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 original_glszm_GrayLevelNonUniformity original_glszm_GrayLevelNonUniformityNormalized original_glszm_GrayLevelVariance original_glszm_GrayLevelVariance	0.000e+00 5.279e-127 1.347e-143
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 original_glszm_GrayLevelNonUniformity original_glszm_GrayLevelNonUniformityNormalized original_glszm_GrayLevelVariance original_glszm_GrayLevelVariance original_glszm_HighGrayLevelZoneEmphasis original_glszm_LargeAreaEmphasis	0.000e+00 5.279e-127 1.347e-143
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_ShortRunEmphasis original_glrlm_ShortRunHighGrayLevelEmphasis original_glrlm_ShortRunLowGrayLevelEmphasis original_glrlm_GrayLevelNonUniformity original_glszm_GrayLevelNonUniformityNormalized original_glszm_GrayLevelVariance original_glszm_HighGrayLevelZoneEmphasis original_glszm_LargeAreaEmphasis original_glszm_LargeAreaEmphasis	0.000e+00 5.279e-127 1.347e-143
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_ShortRunLowGrayLevelEmphasis original_glrlm_ShortRunLowGrayLevelEmphasis original_glszm_GrayLevelNonUniformity original_glszm_GrayLevelVariance original_glszm_GrayLevelVariance original_glszm_LargeAreaEmphasis original_glszm_LargeAreaEmphasis original_glszm_LargeAreaHighGrayLevelEmphasis	0.000e+00 5.279e-127 1.347e-143
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_ShortRunEmphasis original_glrlm_ShortRunHighGrayLevelEmphasis original_glrlm_ShortRunLowGrayLevelEmphasis original_glszm_GrayLevelNonUniformity original_glszm_GrayLevelVariance original_glszm_HighGrayLevelZoneEmphasis original_glszm_LargeAreaEmphasis original_glszm_LargeAreaHighGrayLevelEmphasis original_glszm_LargeAreaHighGrayLevelEmphasis original_glszm_LargeAreaLowGrayLevelEmphasis original_glszm_LargeAreaLowGrayLevelEmphasis	0.000e+00 5.279e-127 1.347e-143
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_ShortRunEmphasis original_glrlm_ShortRunHighGrayLevelEmphasis original_glrlm_ShortRunLowGrayLevelEmphasis original_glszm_GrayLevelNonUniformity original_glszm_GrayLevelVariance original_glszm_GrayLevelVariance original_glszm_LargeAreaEmphasis original_glszm_LargeAreaEmphasis original_glszm_LargeAreaHighGrayLevelEmphasis original_glszm_LargeAreaHighGrayLevelEmphasis original_glszm_LargeAreaLowGrayLevelEmphasis original_glszm_LargeAreaLowGrayLevelEmphasis original_glszm_LargeAreaLowGrayLevelEmphasis original_glszm_LargeAreaLowGrayLevelEmphasis	0.000e+00 5.279e-127 1.347e-143
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_ShortRunEmphasis original_glrlm_ShortRunEmphasis original_glrlm_ShortRunLowGrayLevelEmphasis original_glrlm_ShortRunLowGrayLevelEmphasis original_glszm_GrayLevelNonUniformity original_glszm_GrayLevelVariance original_glszm_HighGrayLevelZoneEmphasis original_glszm_LargeAreaEmphasis original_glszm_LargeAreaHighGrayLevelEmphasis original_glszm_LargeAreaLowGrayLevelEmphasis original_glszm_LargeAreaLowGrayLevelEmphasis original_glszm_LargeAreaLowGrayLevelEmphasis original_glszm_LowGrayLevelZoneEmphasis original_glszm_LowGrayLevelZoneEmphasis original_glszm_LowGrayLevelZoneEmphasis original_glszm_LowGrayLevelZoneEmphasis original_glszm_SizeZoneNonUniformity	0.000e+00 5.279e-127 1.347e-143
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_ShortRunLowGrayLevelEmphasis original_glrlm_ShortRunLowGrayLevelEmphasis original_glszm_GrayLevelNonUniformity original_glszm_GrayLevelVariance original_glszm_LargeAreaEmphasis original_glszm_LargeAreaEmphasis original_glszm_LargeAreaLowGrayLevelEmphasis original_glszm_LargeAreaLowGrayLevelEmphasis original_glszm_LargeAreaLowGrayLevelEmphasis original_glszm_LowGrayLevelZoneEmphasis original_glszm_LowGrayLevelZoneEmphasis original_glszm_LowGrayLevelZoneEmphasis original_glszm_LowGrayLevelZoneEmphasis original_glszm_SizeZoneNonUniformity original_glszm_SizeZoneNonUniformityNormalized original_glszm_SizeZoneNonUniformityNormalized	0.000e+00 5.279e-127 1.347e-143
original_glrlm_LongRunEmphasis original_glrlm_LongRunHighGrayLevelEmphasis original_glrlm_LongRunLowGrayLevelEmphasis original_glrlm_LowGrayLevelRunEmphasis original_glrlm_RunEntropy original_glrlm_RunLengthNonUniformity original_glrlm_RunLengthNonUniformityNormalized original_glrlm_RunVariance original_glrlm_ShortRunEmphasis original_glrlm_ShortRunHighGrayLevelEmphasis original_glrlm_ShortRunLowGrayLevelEmphasis 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_SizeZoneNonUniformity original_glszm_SizeZoneNonUniformity original_glszm_SmallAreaEmphasis original_glszm_SmallAreaEmphasis	0.000e+00 5.279e-127 1.347e-143
original_glrlm_LongRunEmphasis original_glrlm_LongRunHighGrayLevelEmphasis original_glrlm_LowGrayLevelRunEmphasis original_glrlm_LowGrayLevelRunEmphasis original_glrlm_RunEntropy original_glrlm_RunLengthNonUniformity original_glrlm_RunLengthNonUniformityNormalized original_glrlm_RunVariance original_glrlm_ShortRunEmphasis original_glrlm_ShortRunLowGrayLevelEmphasis original_glrlm_ShortRunLowGrayLevelEmphasis original_glszm_GrayLevelNonUniformity original_glszm_GrayLevelVariance original_glszm_HighGrayLevelZoneEmphasis original_glszm_LargeAreaEmphasis original_glszm_LargeAreaHighGrayLevelEmphasis original_glszm_LargeAreaHighGrayLevelEmphasis original_glszm_LargeAreaLowGrayLevelEmphasis original_glszm_LowGrayLevelZoneEmphasis original_glszm_LowGrayLevelZoneEmphasis original_glszm_LowGrayLevelZoneEmphasis original_glszm_SizeZoneNonUniformity original_glszm_SizeZoneNonUniformity original_glszm_SizeZoneNonUniformityNormalized original_glszm_SmallAreaEmphasis original_glszm_SmallAreaEmphasis original_glszm_SmallAreaLowGrayLevelEmphasis original_glszm_SmallAreaLowGrayLevelEmphasis original_glszm_SmallAreaLowGrayLevelEmphasis original_glszm_SmallAreaLowGrayLevelEmphasis	0.000e+00 5.279e-127 1.347e-143
original_glrlm_LongRunEmphasis original_glrlm_LongRunHighGrayLevelEmphasis original_glrlm_LongRunLowGrayLevelEmphasis original_glrlm_LowGrayLevelRunEmphasis original_glrlm_RunEntropy original_glrlm_RunLengthNonUniformity original_glrlm_RunLengthNonUniformityNormalized original_glrlm_RunVariance original_glrlm_ShortRunEmphasis original_glrlm_ShortRunHighGrayLevelEmphasis original_glrlm_ShortRunLowGrayLevelEmphasis 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_SizeZoneNonUniformity original_glszm_SizeZoneNonUniformity original_glszm_SmallAreaEmphasis original_glszm_SmallAreaEmphasis	0.000e+00 5.279e-127 1.347e-143

original_ngtdm_Busyness	4.062e+16
original_ngtdm_Coarseness	7.918e+81
original_ngtdm_Complexity	1.900e-110
original_ngtdm_Contrast	0.000e+00
original_ngtdm_Strength	2.179e-38
original_shape_Elongation	1.173e+49
original_shape_Flatness	1.110e-79
original_shape_LeastAxisLength	2.554e+122
original_shape_MajorAxisLength	2.736e+30
original_shape_Maximum2DDiameterColumn	1.525e-73
original_shape_Maximum2DDiameterRow	9.970e+08
original_shape_Maximum2DDiameterSlice	6.069e-07
original_shape_Maximum3DDiameter	1.264e+63
original_shape_MeshVolume	Inf
original_shape_MinorAxisLength	2.238e+15
original_shape_Sphericity	1.083e-100
original_shape_SurfaceArea	4.522e-126
original_shape_SurfaceVolumeRatio	5.783e+141
original_shape_VoxelVolume	0.000e+00
cluster tree2.09671	6.199e+107
cluster_treez:09071	se(coef)
anisinal finatandan 10Danaantila	
original_firstorder_10Percentile	9.288e-01
original_firstorder_90Percentile	1.421e+00
original_firstorder_Energy	6.423e-01
original_firstorder_Entropy	1.168e+00
original_firstorder_InterquartileRange	3.635e+00
original_firstorder_Kurtosis	6.438e-01
original_firstorder_Maximum	8.839e-01
original_firstorder_Mean	1.129e+00
original_firstorder_MeanAbsoluteDeviation	1.097e+00
original_firstorder_Median	1.098e+00
original_firstorder_Minimum	9.566e-01
original_firstorder_Range	8.934e-01
original_firstorder_RobustMeanAbsoluteDeviation	2.711e+00
original_firstorder_RootMeanSquared	1.029e+00
original_firstorder_Skewness	8.751e-01
original_firstorder_TotalEnergy	6.423e-01
original_firstorder_Uniformity	1.242e+00
original_firstorder_Variance	1.672e+00
_	8.709e-01
original_glcm_Autocorrelation	
original_glcm_ClusterProminence	1.326e+01
original_glcm_ClusterShade	2.390e+00
original_glcm_ClusterTendency	1.396e+00
original_glcm_Contrast	1.112e+01
original_glcm_Correlation	1.187e+00
original_glcm_DifferenceAverage	1.674e+00
original_glcm_DifferenceEntropy	1.131e+00
original_glcm_DifferenceVariance	1.227e+01
original_glcm_Id	1.193e+00
original_glcm_Idm	1.163e+00
original_glcm_Idmn	1.446e+00
original_glcm_Idn	1.107e+00
original_glcm_Imc1	1.148e+00
original_glcm_Imc2	1.182e+00
original_glcm_InverseVariance	1.768e+00
original_glcm_JointAverage	9.753e-01
original_glcm_JointEnergy	1.414e+00
original_glcm_JointEntropy	1.186e+00
original_glcm_MCC	1.191e+00
- 0. 181101_810II_100	T.T.T.C.100

original_glcm_MaximumProbability	1.543e+00
original_glcm_SumAverage	9.753e-01
original_glcm_SumEntropy	1.203e+00
original_glcm_SumSquares	1.717e+00
original_gldm_DependenceEntropy	1.320e+00
original_gldm_DependenceNonUniformity	5.184e-01
original_gldm_DependenceNonUniformityNormalized	1.600e+00
original_gldm_DependenceVariance	1.372e+00
original_gldm_GrayLevelNonUniformity	3.690e-01
original_gldm_GrayLevelVariance	1.668e+00
original_gldm_HighGrayLevelEmphasis	8.663e-01
original_gldm_LargeDependenceEmphasis	1.086e+00
original_gldm_LargeDependenceHighGrayLevelEmphasis	6.186e-01
original_gldm_LargeDependenceLowGrayLevelEmphasis	3.499e+00
original_gldm_LowGrayLevelEmphasis	8.695e-01
original_gldm_SmallDependenceEmphasis	1.141e+00
original_gldm_SmallDependenceHighGrayLevelEmphasis	1.563e+00
original_gldm_SmallDependenceLowGrayLevelEmphasis	1.019e+00
original_glrlm_GrayLevelNonUniformity	3.887e-01
original_glrlm_GrayLevelNonUniformityNormalized	1.114e+00
original_glrlm_GrayLevelVariance	1.593e+00 8.566e-01
original_glrlm_HighGrayLevelRunEmphasis	
original_glrlm_LongRunEmphasis	1.250e+00
original_glrlm_LongRunHighGrayLevelEmphasis	7.039e-01
original_glrlm_LongRunLowGrayLevelEmphasis	1.632e+00
original_glrlm_LowGrayLevelRunEmphasis	9.104e-01
original_glrlm_RunEntropy	1.178e+00
original_glrlm_RunLengthNonUniformity	5.549e-01
original_glrlm_RunLengthNonUniformityNormalized	1.136e+00
original_glrlm_RunPercentage	1.062e+00
original_glrlm_RunVariance	1.351e+00
original_glrlm_ShortRunEmphasis	9.995e-01
original_glrlm_ShortRunHighGrayLevelEmphasis	1.040e+00
oniginal glalm Chon+DunlouChaulouglEmphasis	
original_glrlm_ShortRunLowGrayLevelEmphasis	8.189e-01
original_glszm_GrayLevelNonUniformity	8.189e-01 6.988e-01
original_glszm_GrayLevelNonUniformity original_glszm_GrayLevelNonUniformityNormalized	8.189e-01
<pre>original_glszm_GrayLevelNonUniformity original_glszm_GrayLevelNonUniformityNormalized original_glszm_GrayLevelVariance</pre>	8.189e-01 6.988e-01
original_glszm_GrayLevelNonUniformity original_glszm_GrayLevelNonUniformityNormalized	8.189e-01 6.988e-01 1.171e+00
<pre>original_glszm_GrayLevelNonUniformity original_glszm_GrayLevelNonUniformityNormalized original_glszm_GrayLevelVariance</pre>	8.189e-01 6.988e-01 1.171e+00 1.229e+00
original_glszm_GrayLevelNonUniformity original_glszm_GrayLevelNonUniformityNormalized original_glszm_GrayLevelVariance original_glszm_HighGrayLevelZoneEmphasis	8.189e-01 6.988e-01 1.171e+00 1.229e+00 8.323e-01
original_glszm_GrayLevelNonUniformity original_glszm_GrayLevelNonUniformityNormalized original_glszm_GrayLevelVariance original_glszm_HighGrayLevelZoneEmphasis original_glszm_LargeAreaEmphasis	8.189e-01 6.988e-01 1.171e+00 1.229e+00 8.323e-01 3.577e-01
original_glszm_GrayLevelNonUniformity original_glszm_GrayLevelNonUniformityNormalized original_glszm_GrayLevelVariance original_glszm_HighGrayLevelZoneEmphasis original_glszm_LargeAreaEmphasis original_glszm_LargeAreaHighGrayLevelEmphasis	8.189e-01 6.988e-01 1.171e+00 1.229e+00 8.323e-01 3.577e-01 2.389e-01
original_glszm_GrayLevelNonUniformity original_glszm_GrayLevelNonUniformityNormalized original_glszm_GrayLevelVariance original_glszm_HighGrayLevelZoneEmphasis original_glszm_LargeAreaEmphasis original_glszm_LargeAreaHighGrayLevelEmphasis original_glszm_LargeAreaLowGrayLevelEmphasis	8.189e-01 6.988e-01 1.171e+00 1.229e+00 8.323e-01 3.577e-01 2.389e-01 3.345e+00
original_glszm_GrayLevelNonUniformity original_glszm_GrayLevelNonUniformityNormalized original_glszm_GrayLevelVariance original_glszm_HighGrayLevelZoneEmphasis original_glszm_LargeAreaEmphasis original_glszm_LargeAreaHighGrayLevelEmphasis original_glszm_LargeAreaLowGrayLevelEmphasis original_glszm_LowGrayLevelZoneEmphasis	8.189e-01 6.988e-01 1.171e+00 1.229e+00 8.323e-01 3.577e-01 2.389e-01 3.345e+00 1.176e+00
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_LowGrayLevelZoneEmphasis	8.189e-01 6.988e-01 1.171e+00 1.229e+00 8.323e-01 3.577e-01 2.389e-01 3.345e+00 1.176e+00 7.232e-01
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_LowGrayLevelZoneEmphasis original_glszm_SizeZoneNonUniformity	8.189e-01 6.988e-01 1.171e+00 1.229e+00 8.323e-01 3.577e-01 2.389e-01 3.345e+00 1.176e+00 7.232e-01 1.392e+00
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	8.189e-01 6.988e-01 1.171e+00 1.229e+00 8.323e-01 3.577e-01 2.389e-01 3.345e+00 1.176e+00 7.232e-01 1.392e+00 1.376e+00
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	8.189e-01 6.988e-01 1.171e+00 1.229e+00 8.323e-01 3.577e-01 2.389e-01 3.345e+00 1.176e+00 7.232e-01 1.392e+00 8.483e-01
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_SmallAreaHighGrayLevelEmphasis	8.189e-01 6.988e-01 1.171e+00 1.229e+00 8.323e-01 3.577e-01 2.389e-01 3.345e+00 1.176e+00 7.232e-01 1.392e+00 1.376e+00 8.483e-01 1.339e+00
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_SmallAreaLowGrayLevelEmphasis original_glszm_ZoneEntropy original_glszm_ZonePercentage	8.189e-01 6.988e-01 1.171e+00 1.229e+00 8.323e-01 3.577e-01 2.389e-01 3.345e+00 1.176e+00 7.232e-01 1.392e+00 1.376e+00 8.483e-01 1.339e+00 1.106e+00
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_SmallAreaLowGrayLevelEmphasis original_glszm_ZoneEntropy	8.189e-01 6.988e-01 1.171e+00 1.229e+00 8.323e-01 3.577e-01 2.389e-01 3.345e+00 1.176e+00 7.232e-01 1.392e+00 1.376e+00 8.483e-01 1.339e+00 1.106e+00 1.187e+00
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	8.189e-01 6.988e-01 1.171e+00 1.229e+00 8.323e-01 3.577e-01 2.389e-01 3.345e+00 1.176e+00 7.232e-01 1.392e+00 1.376e+00 8.483e-01 1.339e+00 1.106e+00 1.187e+00 3.572e-01
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 original_ngtdm_Busyness	8.189e-01 6.988e-01 1.171e+00 1.229e+00 8.323e-01 3.577e-01 2.389e-01 3.345e+00 1.176e+00 7.232e-01 1.392e+00 1.376e+00 8.483e-01 1.339e+00 1.106e+00 1.187e+00 3.572e-01 2.092e+00
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 original_ngtdm_Busyness original_ngtdm_Coarseness original_ngtdm_Complexity	8.189e-01 6.988e-01 1.171e+00 1.229e+00 8.323e-01 3.577e-01 2.389e-01 3.345e+00 1.176e+00 7.232e-01 1.392e+00 1.376e+00 8.483e-01 1.339e+00 1.106e+00 1.187e+00 3.572e-01 2.092e+00 8.675e-01
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 original_ngtdm_Busyness original_ngtdm_Coarseness original_ngtdm_Complexity original_ngtdm_Contrast	8.189e-01 6.988e-01 1.171e+00 1.229e+00 8.323e-01 3.577e-01 2.389e-01 3.345e+00 1.176e+00 7.232e-01 1.392e+00 1.376e+00 8.483e-01 1.339e+00 1.106e+00 1.187e+00 3.572e-01 2.092e+00 8.675e-01 2.935e+00
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 original_ngtdm_Busyness original_ngtdm_Coarseness original_ngtdm_Complexity original_ngtdm_Contrast original_ngtdm_Strength	8.189e-01 6.988e-01 1.171e+00 1.229e+00 8.323e-01 3.577e-01 2.389e-01 3.345e+00 1.176e+00 7.232e-01 1.392e+00 1.376e+00 8.483e-01 1.339e+00 1.187e+00 3.572e-01 2.092e+00 8.675e-01 2.935e+00 5.999e+00
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_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 original_ngtdm_Busyness original_ngtdm_Coarseness original_ngtdm_Complexity original_ngtdm_Contrast original_ngtdm_Contrast original_ngtdm_Strength original_shape_Elongation	8.189e-01 6.988e-01 1.171e+00 1.229e+00 8.323e-01 3.577e-01 2.389e-01 3.345e+00 1.176e+00 7.232e-01 1.392e+00 1.376e+00 8.483e-01 1.339e+00 1.106e+00 1.187e+00 3.572e-01 2.092e+00 8.675e-01 2.935e+00 5.999e+00 1.976e+00
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 original_ngtdm_Coarseness original_ngtdm_Coarseness original_ngtdm_Complexity original_ngtdm_Contrast original_ngtdm_Strength original_shape_Elongation original_shape_Flatness	8.189e-01 6.988e-01 1.171e+00 1.229e+00 8.323e-01 3.577e-01 2.389e-01 3.345e+00 1.176e+00 7.232e-01 1.392e+00 1.376e+00 8.483e-01 1.339e+00 1.106e+00 1.187e+00 3.572e-01 2.092e+00 8.675e-01 2.935e+00 5.999e+00 1.976e+00 1.186e+00
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_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 original_ngtdm_Busyness original_ngtdm_Coarseness original_ngtdm_Complexity original_ngtdm_Contrast original_ngtdm_Contrast original_ngtdm_Strength original_shape_Elongation	8.189e-01 6.988e-01 1.171e+00 1.229e+00 8.323e-01 3.577e-01 2.389e-01 3.345e+00 1.176e+00 7.232e-01 1.392e+00 1.376e+00 8.483e-01 1.339e+00 1.187e+00 3.572e-01 2.092e+00 8.675e-01 2.935e+00 5.999e+00 1.186e+00 1.186e+00 1.176e+00

original_shape_Maximum2DDiameterColumn	8.106e-01
original_shape_Maximum2DDiameterRow	7.065e-01
original_shape_Maximum2DDiameterSlice	7.038e-01
original_shape_Maximum3DDiameter	7.183e-01
original_shape_MeshVolume	3.129e-01
original_shape_MinorAxisLength	7.172e-01
original_shape_Sphericity	1.309e+00
original_shape_SurfaceArea	9.175e-01
original_shape_SurfaceVolumeRatio	1.262e+00
original_shape_VoxelVolume	3.138e-01
cluster_tree2.09671	2.917e+00
	Z
original_firstorder_10Percentile	-1.757e+03
original_firstorder_90Percentile	7.351e+02
original_firstorder_Energy	-9.144e+02
original_firstorder_Entropy	-5.266e+03
original_firstorder_InterquartileRange	6.255e+02
original_firstorder_Kurtosis	-2.961e+01
original_firstorder_Maximum	-2.901e+01
original_firstorder_Mean	-7.794e+02
original_firstorder_MeanAbsoluteDeviation	1.942e+03
	4.614e+02
original_firstorder_Median	
original_firstorder_Minimum	1.142e+03
original_firstorder_Range	0.000e+00
original_firstorder_RobustMeanAbsoluteDeviation	-1.733e+03
original_firstorder_RootMeanSquared	-1.401e+01
original_firstorder_Skewness	2.089e+01
original_firstorder_TotalEnergy	0.000e+00
original_firstorder_Uniformity	-1.777e+03
original_firstorder_Variance	2.231e+04
original_glcm_Autocorrelation	-9.368e+03
original_glcm_ClusterProminence	3.827e+02
original_glcm_ClusterShade	2.527e+01
original_glcm_ClusterTendency	-1.578e+03
original_glcm_Contrast	1.287e+03
original_glcm_Correlation	-1.813e+02
original_glcm_DifferenceAverage	-6.992e+02
original_glcm_DifferenceEntropy	1.470e+03
original_glcm_DifferenceVariance	-1.260e+03
original_glcm_Id	1.282e+04
original_glcm_Idm	-1.395e+04
original_glcm_Idmn	-2.589e+02
original_glcm_Idn	5.320e+02
original_glcm_Imc1	-4.648e+02
original_glcm_Imc2	-7.705e+02
original_glcm_InverseVariance	6.572e+02
original_glcm_JointAverage	5.470e+02
original_glcm_JointEnergy	9.055e+02
original_glcm_JointEntropy	-2.010e+03
original_glcm_MCC	1.518e+02
original_glcm_MaximumProbability	1.078e+02
original_glcm_SumAverage	0.000e+00
original_glcm_SumEntropy	3.155e+03
original_glcm_SumSquares	0.000e+00
original_gldm_DependenceEntropy	9.541e+02
original_gldm_DependenceNonUniformity	8.850e+02
original_gldm_DependenceNonUniformityNormalized	-2.068e+00
original_gldm_DependenceVariance	4.550e+02
original_gldm_GrayLevelNonUniformity	-1.886e+03

original gldm GrayLevelVariance	-2.631e+04
0 =0 = 7	
original_gldm_HighGrayLevelEmphasis	-1.960e+03
original_gldm_LargeDependenceEmphasis	-3.015e+03
0 =0 = 0 1 0 7 1	-1.357e+03
original_gldm_LargeDependenceLowGrayLevelEmphasis	-5.105e+02
original_gldm_LowGrayLevelEmphasis	1.276e+03
original_gldm_SmallDependenceEmphasis	-7.373e+02
original_gldm_SmallDependenceHighGrayLevelEmphasis	4.454e+02
original_gldm_SmallDependenceLowGrayLevelEmphasis	6.770e+01
original_glrlm_GrayLevelNonUniformity	-1.149e+02
original glrlm GrayLevelNonUniformityNormalized	-6.624e+02
original_glrlm_GrayLevelVariance	3.100e+03
original_glrlm_HighGrayLevelRunEmphasis	1.697e+04
original_glrlm_LongRunEmphasis	-1.439e+03
	-4.131e+02
original_glrlm_LongRunHighGrayLevelEmphasis	
original_glrlm_LongRunLowGrayLevelEmphasis	-2.016e+02
original_glrlm_LowGrayLevelRunEmphasis	8.340e+03
original_glrlm_RunEntropy	2.945e+02
original_glrlm_RunLengthNonUniformity	5.020e+02
original_glrlm_RunLengthNonUniformityNormalized	7.820e+03
original_glrlm_RunPercentage	-4.390e+03
original_glrlm_RunVariance	1.473e+03
original_glrlm_ShortRunEmphasis	-6.201e+03
original_glrlm_ShortRunHighGrayLevelEmphasis	-3.745e+03
original_glrlm_ShortRunLowGrayLevelEmphasis	-8.841e+03
original_glszm_GrayLevelNonUniformity	-2.117e+02
original_glszm_GrayLevelNonUniformityNormalized	5.748e+02
original_glszm_GrayLevelVariance	2.154e+02
original_glszm_HighGrayLevelZoneEmphasis	6.319e+01
original_glszm_LargeAreaEmphasis	-1.031e+05
	7.694e+02
original_glszm_LargeAreaHighGrayLevelEmphasis	
original_glszm_LargeAreaLowGrayLevelEmphasis	1.212e+01
original_glszm_LowGrayLevelZoneEmphasis	-1.228e+02
original_glszm_SizeZoneNonUniformity	8.692e+02
original_glszm_SizeZoneNonUniformityNormalized	7.755e+01
original_glszm_SmallAreaEmphasis	1.414e+02
original_glszm_SmallAreaHighGrayLevelEmphasis	-4.121e+02
original_glszm_SmallAreaLowGrayLevelEmphasis	3.423e+01
original_glszm_ZoneEntropy	4.867e+02
original_glszm_ZonePercentage	5.388e+02
original_glszm_ZoneVariance	1.039e+05
original_ngtdm_Busyness	1.828e+01
original_ngtdm_Coarseness	2.174e+02
original_ngtdm_Complexity	-8.607e+01
original_ngtdm_Contrast	-1.265e+02
original_ngtdm_Strength	-4.389e+01
original_shape_Elongation	9.527e+01
original_shape_Flatness	-1.546e+02
original_shape_LeastAxisLength	4.982e+02
original_shape_MajorAxisLength	9.417e+01
original_shape_Maximum2DDiameterColumn	-2.069e+02
original_shape_Maximum2DDiameterRow	2.933e+01
0 = . =	-2.034e+01
original_shape_Maximum3DDiameter	2.023e+02
original_shape_MeshVolume	1.205e+04
original_shape_MinorAxisLength	4.928e+01
original_shape_Sphericity	-1.759e+02
original_shape_SurfaceArea	-3.146e+02
original_shape_SurfaceVolumeRatio	2.586e+02

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original_shape_VoxelVolume	-1.375e+04
cluster_tree2.09671	8.509e+01
_	р
original_firstorder_10Percentile	<2e-16
original_firstorder_90Percentile	<2e-16
original_firstorder_Energy	<2e-16
original_firstorder_Entropy	<2e-16
original_firstorder_InterquartileRange	<2e-16
original_firstorder_Kurtosis	<2e-16
original_firstorder_Maximum	<2e-16
original_firstorder_Mean	<2e-16
original_firstorder_MeanAbsoluteDeviati	on <2e-16
original_firstorder_Median	<2e-16
original_firstorder_Minimum	<2e-16
original_firstorder_Range	1.0000
original_firstorder_RobustMeanAbsoluteD	
original_firstorder_RootMeanSquared	<2e-16
original_firstorder_Skewness	<2e-16
original_firstorder_TotalEnergy	1.0000
original_firstorder_Uniformity	<2e-16
original_firstorder_Variance	<2e-16
original_glcm_Autocorrelation	<2e-16
original_glcm_ClusterProminence	<2e-16
original_glcm_ClusterShade	<2e-16
original_glcm_ClusterTendency	<2e-16
original_glcm_Contrast	<2e-16
original_glcm_Correlation	<2e-16
original_glcm_DifferenceAverage	<2e-16
original_glcm_DifferenceEntropy	<2e-16
original_glcm_DifferenceVariance	<2e-16
original_glcm_Id	<2e-16
original_glcm_Idm	<2e-16
original_glcm_Idmn	<2e-16
original_glcm_Idn	<2e-16
original_glcm_Imc1	<2e-16
original_glcm_Imc2	<2e-16
original_glcm_InverseVariance	<2e-16
original_glcm_JointAverage	<2e-16
original_glcm_JointEnergy	<2e-16
original_glcm_JointEntropy	<2e-16
original_glcm_MCC	<2e-16
original_glcm_MaximumProbability	<2e-16
original_glcm_SumAverage	1.0000
original_glcm_SumEntropy	<2e-16
original_glcm_SumSquares	1.0000
original_gldm_DependenceEntropy	<2e-16
original_gldm_DependenceNonUniformity	<2e-16
original_gldm_DependenceNonUniformityNo	
original_gldm_DependenceVariance	<2e-16
original_gldm_GrayLevelNonUniformity	<2e-16
original_gldm_GrayLevelVariance	<2e-16
original_gldm_HighGrayLevelEmphasis	<2e-16
original_gldm_LargeDependenceEmphasis	<2e-16
original_gldm_LargeDependenceHighGrayLe	velEmphasis <2e-16
original_gldm_LargeDependenceLowGrayLev	elEmphasis <2e-16
original_gldm_LowGrayLevelEmphasis	<2e-16
original_gldm_SmallDependenceEmphasis	<2e-16
original_gldm_SmallDependenceHighGrayLe	
original_gldm_SmallDependenceLowGrayLev	
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original_glrlm_GrayLevelNonUniformity	<2e-16
original_glrlm_GrayLevelNonUniformityNormalized	<2e-16
original_glrlm_GrayLevelVariance	<2e-16
original_glrlm_HighGrayLevelRunEmphasis	<2e-16
original_glrlm_LongRunEmphasis	<2e-16
original_glrlm_LongRunHighGrayLevelEmphasis	<2e-16
original_glrlm_LongRunLowGrayLevelEmphasis	<2e-16
original_glrlm_LowGrayLevelRunEmphasis	<2e-16
original_glrlm_RunEntropy	<2e-16
original_glrlm_RunLengthNonUniformity	<2e-16
original_glrlm_RunLengthNonUniformityNormalized	<2e-16
original_glrlm_RunPercentage	<2e-16
original_glrlm_RunVariance	<2e-16
original_glrlm_ShortRunEmphasis	<2e-16
original_glrlm_ShortRunHighGrayLevelEmphasis	<2e-16
original_glrlm_ShortRunLowGrayLevelEmphasis	<2e-16
original_glszm_GrayLevelNonUniformity	<2e-16
original_glszm_GrayLevelNonUniformityNormalized	<2e-16
original_glszm_GrayLevelVariance	<2e-16
original_glszm_HighGrayLevelZoneEmphasis	<2e-16
original_glszm_LargeAreaEmphasis	<2e-16
original_glszm_LargeAreaHighGrayLevelEmphasis	<2e-16
original_glszm_LargeAreaLowGrayLevelEmphasis	<2e-16
original_glszm_LowGrayLevelZoneEmphasis	<2e-16
original_glszm_SizeZoneNonUniformity	<2e-16
original_glszm_SizeZoneNonUniformityNormalized	<2e-16
original_glszm_SmallAreaEmphasis	<2e-16
original_glszm_SmallAreaHighGrayLevelEmphasis	<2e-16
original_glszm_SmallAreaLowGrayLevelEmphasis	<2e-16
original_glszm_ZoneEntropy	<2e-16
original_glszm_ZonePercentage	<2e-16
original_glszm_ZoneVariance	<2e-16
original_ngtdm_Busyness	<2e-16
original_ngtdm_Coarseness	<2e-16
original_ngtdm_Complexity	<2e-16
original_ngtdm_Contrast	<2e-16
original_ngtdm_Strength	<2e-16
original_shape_Elongation	<2e-16
original_shape_Flatness	<2e-16
original_shape_LeastAxisLength	<2e-16
original_shape_MajorAxisLength	<2e-16
original_shape_Maximum2DDiameterColumn	<2e-16
original_shape_Maximum2DDiameterRow	<2e-16
<pre>original_shape_Maximum2DDiameterSlice</pre>	<2e-16
original_shape_Maximum3DDiameter	<2e-16
original_shape_MeshVolume	<2e-16
original_shape_MinorAxisLength	<2e-16
original_shape_Sphericity	<2e-16
original_shape_SurfaceArea	<2e-16
original_shape_SurfaceVolumeRatio	<2e-16
original_shape_VoxelVolume	<2e-16
cluster_tree2.09671	<2e-16

Likelihood ratio test=463.2 on 108 df, p=< 2.2e-16 n= 361, number of events= 40 $\,$

\$model_list[[2]]\$clusters
[1] 2.09671 0.43334

```
$model_list[[3]]
$model list[[3]]$treemodel
n= 361
node), split, n, deviance, yval
      * denotes terminal node
1) root 361 279.68260 1.0000000
  2) original_shape_Maximum3DDiameter< -0.006713401 227 93.88381 0.4602015 *
  3) original_shape_Maximum3DDiameter>=-0.006713401 134 159.08540 2.0108490 *
$model list[[3]]$modcoxmodel
Call:
coxph(formula = as.formula(paste("Surv(df train$time, df train$event) ~",
    paste(predict.factors, collapse = "+"))), data = df_train,
    x = TRUE
                                                           coef
original firstorder 10Percentile
                                                      1.422e+01
original_firstorder_90Percentile
                                                      7.669e+00
original_firstorder_Energy
                                                     -1.736e+01
original_firstorder_Entropy
                                                     -7.374e+01
original firstorder InterquartileRange
                                                     -4.030e+01
original firstorder Kurtosis
                                                     -8.536e+00
original firstorder Maximum
                                                     -1.274e+00
original_firstorder_Mean
                                                     -3.991e+01
original\_firstorder\_Mean Absolute Deviation
                                                      1.199e+01
original firstorder Median
                                                      2.499e+01
original_firstorder_Minimum
                                                      2.225e+01
                                                      0.000e+00
original_firstorder_Range
original_firstorder_RobustMeanAbsoluteDeviation
                                                      6.066e+01
original_firstorder_RootMeanSquared
                                                     -1.405e+01
original firstorder Skewness
                                                      1.514e+00
original firstorder TotalEnergy
                                                      0.000e+00
original_firstorder_Uniformity
                                                      1.506e+01
                                                      4.890e+03
original_firstorder_Variance
original_glcm_Autocorrelation
                                                      1.949e+02
original_glcm_ClusterProminence
                                                      1.053e+03
original_glcm_ClusterShade
                                                     -6.853e+01
original_glcm_ClusterTendency
                                                     -1.822e+02
original_glcm_Contrast
                                                     -7.590e+02
                                                     -5.587e-01
original_glcm_Correlation
original glcm DifferenceAverage
                                                      7.595e+02
original glcm DifferenceEntropy
                                                     -6.815e+01
original_glcm_DifferenceVariance
                                                     -3.857e+02
original_glcm_Id
                                                      4.362e+03
original_glcm_Idm
                                                     -3.803e+03
original_glcm_Idmn
                                                     -2.075e+01
original_glcm_Idn
                                                      2.087e+01
original_glcm_Imc1
                                                      8.317e+00
                                                     -2.608e+01
original_glcm_Imc2
original glcm InverseVariance
                                                      3.744e+02
original glcm JointAverage
                                                     -2.095e+01
original_glcm_JointEnergy
                                                     -3.907e+01
                                                     -1.077e+02
original_glcm_JointEntropy
original_glcm_MCC
                                                      2.513e+00
original_glcm_MaximumProbability
                                                      1.104e+01
original_glcm_SumAverage
                                                      0.000e+00
```

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	original_glcm_SumEntropy	1.144e+02
	original_glcm_SumSquares	0.000e+00
	original_gldm_DependenceEntropy	3.975e+01
	original gldm DependenceNonUniformity	-3.768e+01
	original_gldm_DependenceNonUniformityNormalized	9.927e+01
	original_gldm_DependenceVariance	1.882e+01
	original_gldm_GrayLevelNonUniformity	-1.994e+01
	original_gldm_GrayLevelVariance	-4.921e+03
	original gldm HighGrayLevelEmphasis	-4.559e+01
	original_gldm_LargeDependenceEmphasis	1.174e+02
	original_gldm_LargeDependenceHighGrayLevelEmphasis	-2.264e+01
	original_gldm_LargeDependenceLowGrayLevelEmphasis	-8.571e+01
		3.246e+02
	original_gldm_LowGrayLevelEmphasis	
	original_gldm_SmallDependenceEmphasis	-1.816e+02
	original_gldm_SmallDependenceHighGrayLevelEmphasis	6.673e+01
	original_gldm_SmallDependenceLowGrayLevelEmphasis	2.083e+01
	original_glrlm_GrayLevelNonUniformity	2.590e+01
	original_glrlm_GrayLevelNonUniformityNormalized	4.116e+01
	original_glrlm_GrayLevelVariance	1.116e+01
	original_glrlm_HighGrayLevelRunEmphasis	5.395e+01
	original_glrlm_LongRunEmphasis	-1.295e+02
	original_glrlm_LongRunHighGrayLevelEmphasis	-6.521e+00
	original_glrlm_LongRunLowGrayLevelEmphasis	-2.783e+01
	original_glrlm_LowGrayLevelRunEmphasis	6.724e+01
	original_glrlm_RunEntropy	1.068e+02
	original_glrlm_RunLengthNonUniformity	6.643e+01
	original_glrlm_RunLengthNonUniformityNormalized	-3.248e+01
	original_glrlm_RunPercentage	5.541e+01
	original_glrlm_RunVariance	9.008e+01
	original_glrlm_ShortRunEmphasis	1.058e+02
	original_glrlm_ShortRunHighGrayLevelEmphasis	-2.050e+02
	original_glrlm_ShortRunLowGrayLevelEmphasis	-3.342e+02
	original_glszm_GrayLevelNonUniformity	-2.278e+01
	original_glszm_GrayLevelNonUniformityNormalized	-9.222e-01
	original_glszm_GrayLevelVariance	1.167e+01
	original_glszm_HighGrayLevelZoneEmphasis	3.523e+01
	original_glszm_LargeAreaEmphasis	-7.028e+02
	original_glszm_LargeAreaHighGrayLevelEmphasis	2.055e+01
	original_glszm_LargeAreaLowGrayLevelEmphasis	1.693e+01
	original glszm LowGrayLevelZoneEmphasis	-1.558e+01
	original glszm SizeZoneNonUniformity	2.077e+01
	original_glszm_SizeZoneNonUniformityNormalized	-1.095e+02
	original_glszm_SmallAreaEmphasis	1.335e+02
	original_glszm_SmallAreaHighGrayLevelEmphasis	-2.417e+01
	original_glszm_SmallAreaLowGrayLevelEmphasis	3.396e+00
	original_glszm_ZoneEntropy	-1.119e+01
	original_glszm_ZonePercentage	6.785e+01
	original_glszm_ZoneVariance	7.092e+02
	original_ngtdm_Busyness	-4.417e+00
	original_ngtdm_Coarseness	1.235e+00
	original_ngtdm_Complexity	-2.011e+00
	original_ngtdm_Contrast	-1.838e+00
	original_ngtdm_Strength	8.477e+00
	original_shape_Elongation	1.184e+01
	original_shape_Flatness	-1.088e+01
	original_shape_LeastAxisLength	2.911e+01
	original_shape_MajorAxisLength	2.015e+01
	original_shape_Maximum2DDiameterColumn	-5.093e+00
	original_shape_Maximum2DDiameterRow	-3.282e+00

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original_shape_Maximum2DDiameterSlice	-4.559e+00
original_shape_Maximum3DDiameter	-5.967e+00
original_shape_MeshVolume	-7.329e+02
original_shape_MinorAxisLength	-1.099e+01
	7.430e+00
original_shape_Sphericity	
original_shape_SurfaceArea	-1.267e+01
original_shape_SurfaceVolumeRatio	1.120e+02
original_shape_VoxelVolume	6.853e+02
cluster_tree2.010849	9.240e+00
	exp(coef)
original_firstorder_10Percentile	1.494e+06
original_firstorder_90Percentile	2.140e+03
original_firstorder_Energy	2.882e-08
original_firstorder_Entropy	9.483e-33
original_firstorder_InterquartileRange	3.163e-18
original_firstorder_Kurtosis	1.962e-04
original_firstorder_Maximum	2.798e-01
original_firstorder_Mean	4.669e-18
original_firstorder_MeanAbsoluteDeviation	1.610e+05
original_firstorder_Median	7.102e+10
original_firstorder_Minimum	4.598e+09
original_firstorder_Range	1.000e+00
original_firstorder_RobustMeanAbsoluteDeviation	2.218e+26
original_firstorder_RootMeanSquared	7.874e-07
original_firstorder_Skewness	4.546e+00
original_firstorder_TotalEnergy	1.000e+00
	3.475e+06
original_firstorder_Uniformity	3.473E+00 Inf
original_firstorder_Variance	
original_glcm_Autocorrelation	4.320e+84
original_glcm_ClusterProminence	Inf
original_glcm_ClusterShade	1.726e-30
original_glcm_ClusterTendency	7.546e-80
original_glcm_Contrast	0.000e+00
original_glcm_Correlation	5.720e-01
original_glcm_DifferenceAverage	Inf
original_glcm_DifferenceEntropy	2.533e-30
original_glcm_DifferenceVariance	2.992e-168
original_glcm_Id	Inf
original_glcm_Idm	0.000e+00
original_glcm_Idmn	9.714e-10
original_glcm_Idn	1.157e+09
original_glcm_Imc1	4.094e+03
original_glcm_Imc2	4.715e-12
original_glcm_InverseVariance	3.935e+162
original_glcm_JointAverage	7.973e-10
original_glcm_JointEnergy	1.075e-17
original_glcm_JointEntropy	1.676e-47
original_glcm_MCC	1.235e+01
original_glcm_MaximumProbability	6.251e+04
original_glcm_SumAverage	1.000e+00
original_glcm_SumEntropy	4.893e+49
original_glcm_SumSquares	1.000e+00
original_gldm_DependenceEntropy	1.829e+17
original_gldm_DependenceNonUniformity	4.337e-17
original_gldm_DependenceNonUniformityNormalized	1.296e+43
original_gldm_DependenceVariance	1.496e+08
original_gldm_GrayLevelNonUniformity	2.198e-09
	0.000e+00
original_gldm_GrayLevelVariance	
original_gldm_HighGrayLevelEmphasis	1.583e-20

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original_gldm_LargeDependenceEmphasis	9.251e+50
original_gldm_LargeDependenceHighGrayLevelEmphasis	1.466e-10
original_gldm_LargeDependenceLowGrayLevelEmphasis	5.984e-38
original_gldm_LowGrayLevelEmphasis	9.317e+140
original_gldm_SmallDependenceEmphasis	1.419e-79
original_gldm_SmallDependenceHighGrayLevelEmphasis	9.604e+28
original_gldm_SmallDependenceLowGrayLevelEmphasis	1.115e+09
original_glrlm_GrayLevelNonUniformity	1.776e+11
original_glrlm_GrayLevelNonUniformityNormalized	7.530e+17
original_glrlm_GrayLevelVariance	7.040e+04
original_glrlm_HighGrayLevelRunEmphasis	2.682e+23
original_glrlm_LongRunEmphasis	6.021e-57
original_glrlm_LongRunHighGrayLevelEmphasis	1.472e-03
original_glrlm_LongRunLowGrayLevelEmphasis	8.199e-13
original_glrlm_LowGrayLevelRunEmphasis	1.593e+29
original_glrlm_RunEntropy	2.316e+46
original_glrlm_RunLengthNonUniformity	7.088e+28
original_glrlm_RunLengthNonUniformityNormalized	7.863e-15
original_glrlm_RunPercentage	1.165e+24
original_glrlm_RunVariance	1.319e+39
original_glrlm_ShortRunEmphasis	9.250e+45
original_glrlm_ShortRunHighGrayLevelEmphasis	9.013e-90
original_glrlm_ShortRunLowGrayLevelEmphasis	7.573e-146
original_glszm_GrayLevelNonUniformity	1.283e-10
original_glszm_GrayLevelNonUniformityNormalized	3.976e-01
original_glszm_GrayLevelVariance	1.173e+05
original_glszm_HighGrayLevelZoneEmphasis	1.997e+15
original_glszm_LargeAreaEmphasis	6.264e-306
original_glszm_LargeAreaHighGrayLevelEmphasis	8.386e+08
original_glszm_LargeAreaLowGrayLevelEmphasis	2.263e+07
original_glszm_LowGrayLevelZoneEmphasis	1.707e-07
original_glszm_SizeZoneNonUniformity	1.044e+09
original_glszm_SizeZoneNonUniformityNormalized	2.827e-48
original_glszm_SmallAreaEmphasis	9.351e+57
original_glszm_SmallAreaHighGrayLevelEmphasis	3.194e-11
original_glszm_SmallAreaLowGrayLevelEmphasis	2.984e+01
original_glszm_ZoneEntropy	1.377e-05
original_glszm_ZonePercentage	2.916e+29
original_glszm_ZoneVariance	1.050e+308
original_ngtdm_Busyness	1.207e-02
original_ngtdm_Coarseness	3.440e+00
original_ngtdm_Complexity	1.338e-01
original_ngtdm_Contrast	1.592e-01
original_ngtdm_Strength	4.805e+03
original_shape_Elongation	1.380e+05
original_shape_Flatness	1.879e-05
original_shape_LeastAxisLength	4.407e+12
original_shape_MajorAxisLength	5.644e+08
original_shape_Maximum2DDiameterColumn	6.139e-03
original_shape_Maximum2DDiameterRow	3.757e-02
original_shape_Maximum2DDiameterSlice	1.047e-02
original_shape_Maximum3DDiameter	2.562e-03
original_shape_MeshVolume	5.336e-319
original_shape_MinorAxisLength	1.695e-05
original_shape_Sphericity	1.686e+03
original_shape_SurfaceArea	3.136e-06
original_shape_SurfaceVolumeRatio	4.422e+48
original_shape_VoxelVolume	4.274e+297
cluster_tree2.010849	1.030e+04

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	se(coef)
original_firstorder_10Percentile	1.234e+01
original_firstorder_90Percentile	1.486e+01
original_firstorder_Energy	5.566e+00
original_firstorder_Entropy	9.302e+01
original_firstorder_InterquartileRange	2.428e+01
original_firstorder_Kurtosis	2.474e+00
original_firstorder_Maximum	2.194e+00
original firstorder Mean	3.431e+01
original_firstorder_MeanAbsoluteDeviation	4.563e+01
original_firstorder_Median	1.839e+01
original_firstorder_Minimum	2.215e+01
original_firstorder_Range	0.000e+00
original_firstorder_RobustMeanAbsoluteDeviation	3.238e+01
	1.218e+01
original_firstorder_RootMeanSquared	
original_firstorder_Skewness	1.917e+00
original_firstorder_TotalEnergy	0.000e+00
original_firstorder_Uniformity	4.033e+01
original_firstorder_Variance	1.546e+03
original_glcm_Autocorrelation	2.682e+02
original_glcm_ClusterProminence	3.010e+02
original_glcm_ClusterShade	4.617e+01
original_glcm_ClusterTendency	6.022e+01
original_glcm_Contrast	5.766e+02
original_glcm_Correlation	2.624e+00
original_glcm_DifferenceAverage	2.330e+02
original_glcm_DifferenceEntropy	3.805e+01
original_glcm_DifferenceVariance	3.933e+02
original_glcm_Id	1.299e+03
original_glcm_Idm	1.105e+03
original_glcm_Idmn	8.956e+00
original_glcm_Idn	9.127e+00
original_glcm_Imc1	8.303e+00
original_glcm_Imc2	9.605e+00
original_glcm_InverseVariance	1.127e+02
original_glcm_JointAverage	2.694e+01
original_glcm_JointEnergy	2.954e+01
original_glcm_JointEntropy	4.432e+01
original_glcm_MCC	2.403e+00
original_glcm_MaximumProbability	4.114e+00
original_glcm_SumAverage	0.000e+00
original_glcm_SumEntropy	4.633e+01
original_glcm_SumSquares	0.000e+00
original_gldm_DependenceEntropy	2.669e+01
original_gldm_DependenceNonUniformity	1.409e+01
original_gldm_DependenceNonUniformityNormalized	2.479e+01
original_gldm_DependenceVariance	1.412e+01
original_gldm_GrayLevelNonUniformity	1.043e+01
original_gldm_GrayLevelVariance	1.549e+03
original_gldm_HighGrayLevelEmphasis	2.823e+02
original_gldm_LargeDependenceEmphasis	6.917e+01
original_gldm_LargeDependenceHighGrayLevelEmphasis	1.472e+01
original_gldm_LargeDependenceLowGrayLevelEmphasis	3.795e+01
original_gldm_LowGrayLevelEmphasis	1.082e+02
original_gldm_SmallDependenceEmphasis	5.657e+01
original_gldm_SmallDependenceHighGrayLevelEmphasis	2.021e+01
original_gldm_SmallDependenceLowGrayLevelEmphasis	1.020e+01
original_glrlm_GrayLevelNonUniformity	1.277e+01
original_glrlm_GrayLevelNonUniformityNormalized	1.665e+01

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original_glrlm_GrayLevelVariance	5.476e+01
original_glrlm_HighGrayLevelRunEmphasis	1.822e+02
original_glrlm_LongRunEmphasis	5.278e+01
original_glrlm_LongRunHighGrayLevelEmphasis	5.688e+00
original_glrlm_LongRunLowGrayLevelEmphasis	9.234e+00
original_glrlm_LowGrayLevelRunEmphasis	1.335e+02
original_glrlm_RunEntropy	7.154e+01
original_glrlm_RunLengthNonUniformity	1.860e+01
original_glrlm_RunLengthNonUniformityNormalized	7.968e+01
original_glrlm_RunPercentage	1.163e+02
original glrlm RunVariance	4.288e+01
original_glrlm_ShortRunEmphasis	7.526e+01
original_glrlm_ShortRunHighGrayLevelEmphasis	7.860e+01
original_glrlm_ShortRunLowGrayLevelEmphasis	1.362e+02
original_glszm_GrayLevelNonUniformity	7.253e+00
	4.418e+00
original_glszm_GrayLevelNonUniformityNormalized	
original_glszm_GrayLevelVariance	7.417e+00
original_glszm_HighGrayLevelZoneEmphasis	3.117e+01
original_glszm_LargeAreaEmphasis	6.886e+02
original_glszm_LargeAreaHighGrayLevelEmphasis	5.522e+00
original_glszm_LargeAreaLowGrayLevelEmphasis	9.113e+00
original_glszm_LowGrayLevelZoneEmphasis	1.499e+01
original_glszm_SizeZoneNonUniformity	7.308e+00
original_glszm_SizeZoneNonUniformityNormalized	3.364e+01
original_glszm_SmallAreaEmphasis	3.812e+01
original_glszm_SmallAreaHighGrayLevelEmphasis	1.972e+01
original_glszm_SmallAreaLowGrayLevelEmphasis	9.026e+00
original_glszm_ZoneEntropy	6.887e+00
original_glszm_ZonePercentage	2.982e+01
original_glszm_ZoneVariance	6.880e+02
original ngtdm Busyness	7.071e+00
original_ngtdm_Coarseness	2.010e+00
original_ngtdm_Complexity	7.769e+00
original_ngtdm_Contrast	1.483e+01
original_ngtdm_contrast original_ngtdm_Strength	5.042e+00
or iginai_ngcam_screngch	J.042CT00
oniginal chang Florgation	4 0120100
original_shape_Elongation	4.013e+00
original_shape_Flatness	4.945e+00
original_shape_Flatness original_shape_LeastAxisLength	4.945e+00 1.027e+01
<pre>original_shape_Flatness original_shape_LeastAxisLength original_shape_MajorAxisLength</pre>	4.945e+00 1.027e+01 5.136e+00
original_shape_Flatness original_shape_LeastAxisLength original_shape_MajorAxisLength original_shape_Maximum2DDiameterColumn	4.945e+00 1.027e+01 5.136e+00 2.845e+00
original_shape_Flatness original_shape_LeastAxisLength original_shape_MajorAxisLength original_shape_Maximum2DDiameterColumn original_shape_Maximum2DDiameterRow	4.945e+00 1.027e+01 5.136e+00
original_shape_Flatness original_shape_LeastAxisLength original_shape_MajorAxisLength original_shape_Maximum2DDiameterColumn	4.945e+00 1.027e+01 5.136e+00 2.845e+00
original_shape_Flatness original_shape_LeastAxisLength original_shape_MajorAxisLength original_shape_Maximum2DDiameterColumn original_shape_Maximum2DDiameterRow	4.945e+00 1.027e+01 5.136e+00 2.845e+00 2.088e+00
original_shape_Flatness original_shape_LeastAxisLength original_shape_MajorAxisLength original_shape_Maximum2DDiameterColumn original_shape_Maximum2DDiameterRow original_shape_Maximum2DDiameterSlice	4.945e+00 1.027e+01 5.136e+00 2.845e+00 2.088e+00 2.306e+00
original_shape_Flatness original_shape_LeastAxisLength original_shape_MajorAxisLength original_shape_Maximum2DDiameterColumn original_shape_Maximum2DDiameterRow original_shape_Maximum2DDiameterSlice original_shape_Maximum3DDiameter	4.945e+00 1.027e+01 5.136e+00 2.845e+00 2.088e+00 2.306e+00 4.447e+00
original_shape_Flatness original_shape_LeastAxisLength original_shape_MajorAxisLength original_shape_Maximum2DDiameterColumn original_shape_Maximum2DDiameterRow original_shape_Maximum2DDiameterSlice original_shape_Maximum3DDiameter original_shape_MeshVolume	4.945e+00 1.027e+01 5.136e+00 2.845e+00 2.088e+00 2.306e+00 4.447e+00 3.469e+02
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	4.945e+00 1.027e+01 5.136e+00 2.845e+00 2.088e+00 2.306e+00 4.447e+00 3.469e+02 5.479e+00
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	4.945e+00 1.027e+01 5.136e+00 2.845e+00 2.088e+00 2.306e+00 4.447e+00 3.469e+02 5.479e+00 7.117e+00
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	4.945e+00 1.027e+01 5.136e+00 2.845e+00 2.088e+00 2.306e+00 4.447e+00 3.469e+02 5.479e+00 7.117e+00 4.623e+00
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	4.945e+00 1.027e+01 5.136e+00 2.845e+00 2.088e+00 2.306e+00 4.447e+00 3.469e+02 5.479e+00 7.117e+00 4.623e+00 4.971e+01 3.449e+02
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	4.945e+00 1.027e+01 5.136e+00 2.845e+00 2.088e+00 2.306e+00 4.447e+00 3.469e+02 5.479e+00 7.117e+00 4.623e+00 4.971e+01
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 cluster_tree2.010849	4.945e+00 1.027e+01 5.136e+00 2.845e+00 2.088e+00 2.306e+00 4.447e+00 3.469e+02 5.479e+00 7.117e+00 4.623e+00 4.971e+01 3.449e+02 2.801e+00 z
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 cluster_tree2.010849 original_firstorder_10Percentile	4.945e+00 1.027e+01 5.136e+00 2.845e+00 2.088e+00 2.306e+00 4.447e+00 3.469e+02 5.479e+00 7.117e+00 4.623e+00 4.971e+01 3.449e+02 2.801e+00 z
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 cluster_tree2.010849 original_firstorder_10Percentile original_firstorder_90Percentile	4.945e+00 1.027e+01 5.136e+00 2.845e+00 2.088e+00 2.306e+00 4.447e+00 3.469e+02 5.479e+00 7.117e+00 4.623e+00 4.971e+01 3.449e+02 2.801e+00 z 1.152 0.516
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 cluster_tree2.010849 original_firstorder_10Percentile original_firstorder_Energy	4.945e+00 1.027e+01 5.136e+00 2.845e+00 2.088e+00 2.306e+00 4.447e+00 3.469e+02 5.479e+00 7.117e+00 4.623e+00 4.971e+01 3.449e+02 2.801e+00 z 1.152 0.516 -3.120
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 cluster_tree2.010849 original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Energy	4.945e+00 1.027e+01 5.136e+00 2.845e+00 2.088e+00 2.306e+00 4.447e+00 3.469e+02 5.479e+00 7.117e+00 4.623e+00 4.971e+01 3.449e+02 2.801e+00 z 1.152 0.516 -3.120 -0.793
original_shape_Flatness original_shape_LeastAxisLength original_shape_MajorAxisLength original_shape_Maximum2DDiameterColumn original_shape_Maximum2DDiameterRow original_shape_Maximum2DDiameterSlice original_shape_Maximum3DDiameter original_shape_Maximum3DDiameter original_shape_MeshVolume original_shape_MinorAxisLength original_shape_SurfaceArea original_shape_SurfaceVolumeRatio original_shape_VoxelVolume cluster_tree2.010849 original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange	4.945e+00 1.027e+01 5.136e+00 2.845e+00 2.088e+00 2.306e+00 4.447e+00 3.469e+02 5.479e+00 7.117e+00 4.623e+00 4.971e+01 3.449e+02 2.801e+00 z 1.152 0.516 -3.120 -0.793 -1.659
original_shape_Flatness original_shape_LeastAxisLength original_shape_MajorAxisLength original_shape_Maximum2DDiameterColumn original_shape_Maximum2DDiameterRow original_shape_Maximum2DDiameterSlice original_shape_Maximum3DDiameter original_shape_Maximum3DDiameter original_shape_MeshVolume original_shape_MinorAxisLength original_shape_Sphericity original_shape_SurfaceArea original_shape_SurfaceVolumeRatio original_shape_VoxelVolume cluster_tree2.010849 original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis	4.945e+00 1.027e+01 5.136e+00 2.845e+00 2.088e+00 2.306e+00 4.447e+00 3.469e+02 5.479e+00 7.117e+00 4.623e+00 4.971e+01 3.449e+02 2.801e+00 z 1.152 0.516 -3.120 -0.793 -1.659 -3.451
original_shape_Flatness original_shape_LeastAxisLength original_shape_MajorAxisLength original_shape_Maximum2DDiameterColumn original_shape_Maximum2DDiameterRow original_shape_Maximum2DDiameterSlice original_shape_Maximum3DDiameter original_shape_Maximum3DDiameter original_shape_MeshVolume original_shape_MinorAxisLength original_shape_SurfaceArea original_shape_SurfaceVolumeRatio original_shape_VoxelVolume cluster_tree2.010849 original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange	4.945e+00 1.027e+01 5.136e+00 2.845e+00 2.088e+00 2.306e+00 4.447e+00 3.469e+02 5.479e+00 7.117e+00 4.623e+00 4.971e+01 3.449e+02 2.801e+00 z 1.152 0.516 -3.120 -0.793 -1.659

original_firstorder_MeanAbsoluteDeviation	0.263
original_firstorder_Median	1.358
original_firstorder_Minimum	1.005
original_firstorder_Range	NaN
original_firstorder_RobustMeanAbsoluteDeviation	1.873
original_firstorder_RootMeanSquared	-1.154
original_firstorder_Skewness	0.790
original_firstorder_TotalEnergy	NaN
original_firstorder_Uniformity	0.373
original_firstorder_Variance	3.162
original_glcm_Autocorrelation	0.727
original_glcm_ClusterProminence	3.498
original_glcm_ClusterShade	-1.484
original_glcm_ClusterTendency	-3.026
original_glcm_Contrast	-1.316
original_glcm_Correlation	-0.213
original_glcm_DifferenceAverage	3.260
<pre>original_glcm_DifferenceEntropy original_glcm_DifferenceVariance</pre>	-1.791 -0.981
original_glcm_Id	3.357
original_glcm_Idm	-3.442
original_glcm_Idmn	-2.317
original_glcm_Idn	2.287
original_glcm_Imc1	1.002
original_glcm_Imc2	-2.715
original_glcm_InverseVariance	3.322
original_glcm_JointAverage	-0.778
original_glcm_JointEnergy	-1.323
original_glcm_JointEntropy	-2.430
original_glcm_MCC	1.046
original_glcm_MaximumProbability	2.684
original_glcm_SumAverage	NaN
original_glcm_SumEntropy	2.470
original_glcm_SumSquares	NaN
original_gldm_DependenceEntropy	1.490
original_gldm_DependenceNonUniformity	-2.674
original_gldm_DependenceNonUniformityNormalized	4.004
original_gldm_DependenceVariance	1.333
original_gldm_GrayLevelNonUniformity	-1.911
<pre>original_gldm_GrayLevelVariance original_gldm_HighGrayLevelEmphasis</pre>	-3.176 -0.162
original_gldm_LargeDependenceEmphasis	1.697
original_gldm_LargeDependenceHighGrayLevelEmphasis	-1.538
original_gldm_LargeDependenceLowGrayLevelEmphasis	-2.259
original_gldm_LowGrayLevelEmphasis	3.001
original_gldm_SmallDependenceEmphasis	-3.209
original_gldm_SmallDependenceHighGrayLevelEmphasis	3.302
original_gldm_SmallDependenceLowGrayLevelEmphasis	2.042
original_glrlm_GrayLevelNonUniformity	2.028
original_glrlm_GrayLevelNonUniformityNormalized	2.472
original_glrlm_GrayLevelVariance	0.204
original_glrlm_HighGrayLevelRunEmphasis	0.296
original_glrlm_LongRunEmphasis	-2.453
original_glrlm_LongRunHighGrayLevelEmphasis	-1.147
original_glrlm_LongRunLowGrayLevelEmphasis	-3.014
original_glrlm_LowGrayLevelRunEmphasis	0.504
original_glrlm_RunEntropy	1.492
original_glrlm_RunLengthNonUniformity	3.571
original_glrlm_RunLengthNonUniformityNormalized	-0.408

original_glrlm_RunPercentage	0.476
original_glrlm_RunVariance	2.101
original_glrlm_ShortRunEmphasis	1.406
original_glrlm_ShortRunHighGrayLevelEmphasis	-2.609
original_glrlm_ShortRunLowGrayLevelEmphasis	-2.454
original_glszm_GrayLevelNonUniformity	-3.141
original_glszm_GrayLevelNonUniformityNormalized	-0.209
original_glszm_GrayLevelVariance	1.574
original_glszm_HighGrayLevelZoneEmphasis	1.130
original_glszm_LargeAreaEmphasis	-1.021
original_glszm_LargeAreaHighGrayLevelEmphasis	3.721
original_glszm_LargeAreaLowGrayLevelEmphasis	1.858
original_glszm_LowGrayLevelZoneEmphasis	-1.039
original_glszm_SizeZoneNonUniformity	2.841
original_glszm_SizeZoneNonUniformityNormalized	-3.254
original_glszm_SmallAreaEmphasis	3.502
original_glszm_SmallAreaHighGrayLevelEmphasis	-1.226
original_glszm_SmallAreaLowGrayLevelEmphasis	0.376
original_glszm_ZoneEntropy	-1.625
original_glszm_ZonePercentage	2.275
original_glszm_ZoneVariance	1.031
original_ngtdm_Busyness	-0.625
original_ngtdm_Coarseness	0.615
original_ngtdm_Complexity	-0.259
original_ngtdm_Contrast	-0.124
original_ngtdm_Strength	1.681
original_shape_Elongation	2.949
original_shape_Flatness	-2.201
original_shape_LeastAxisLength	2.835
original_shape_MajorAxisLength	3.924
original_shape_Maximum2DDiameterColumn	-1.790
original_shape_Maximum2DDiameterRow	-1.572
original_shape_Maximum2DDiameterSlice	-1.977
original_shape_Maximum3DDiameter	-1.342
original_shape_MeshVolume	-2.112
original_shape_MinorAxisLength	-2.005
original_shape_Sphericity	1.044
original_shape_SurfaceArea	-2.741
original_shape_SurfaceVolumeRatio	2.253
original_shape_voxelVolume	1.987
	3.299
cluster_tree2.010849	
aniginal finatandan 10Danaantila	p
original_firstorder_10Percentile	0.249306
original_firstorder_90Percentile	0.605775
original_firstorder_Energy	0.001811
original_firstorder_Entropy	0.427956
original_firstorder_InterquartileRange	0.097038
original_firstorder_Kurtosis	0.000559
original_firstorder_Maximum	0.561511
original_firstorder_Mean	0.244796
original_firstorder_MeanAbsoluteDeviation	0.792729
original_firstorder_Median	0.174362
original_firstorder_Minimum	0.315089
original_firstorder_Range	NaN
original_firstorder_RobustMeanAbsoluteDeviation	0.061004
original_firstorder_RootMeanSquared	0.248355
original_firstorder_Skewness	0.429669
original_firstorder_TotalEnergy	NaN
original_firstorder_Uniformity	0.708847

original_firstorder_Variance	0.001565
original_glcm_Autocorrelation	0.467430
original_glcm_ClusterProminence	0.000469
original_glcm_ClusterShade	0.137717
original_glcm_ClusterTendency	0.002482
original_glcm_Contrast	0.188048
original_glcm_Correlation	0.831379
original_glcm_DifferenceAverage	0.001114
original_glcm_DifferenceEntropy	0.073318
original_glcm_DifferenceVariance	0.326695
original_glcm_Id	0.000788
original_glcm_Idm	0.000578
original_glcm_Idmn	0.020501
original_glcm_Idn	0.022223
original_glcm_Imc1	0.316466
original_glcm_Imc2	0.006620
original_glcm_InverseVariance	0.000895
original_glcm_JointAverage	0.436714
original_glcm_JointEnergy	0.185959
original glcm JointEntropy	0.015095
	0.295533
original_glcm_MCC	
original_glcm_MaximumProbability	0.007274
original_glcm_SumAverage	NaN
original_glcm_SumEntropy	0.013519
original_glcm_SumSquares	NaN
original_gldm_DependenceEntropy	0.136356
original_gldm_DependenceNonUniformity	0.007491
original_gldm_DependenceNonUniformityNormalized	6.23e-05
original_gldm_DependenceVariance	0.182632
original_gldm_GrayLevelNonUniformity	0.055981
original_gldm_GrayLevelVariance	0.001491
original_gldm_HighGrayLevelEmphasis	0.871692
original_gldm_LargeDependenceEmphasis	0.089752
original_gldm_LargeDependenceHighGrayLevelEmphasis	
original_gldm_LargeDependenceLowGrayLevelEmphasis	0.023913
original gldm LowGrayLevelEmphasis	
	0 001689
	0.002689 0.001330
original_gldm_SmallDependenceEmphasis	0.001330
original_gldm_SmallDependenceEmphasis original_gldm_SmallDependenceHighGrayLevelEmphasis	0.001330 0.000958
<pre>original_gldm_SmallDependenceEmphasis original_gldm_SmallDependenceHighGrayLevelEmphasis original_gldm_SmallDependenceLowGrayLevelEmphasis</pre>	0.001330 0.000958 0.041172
original_gldm_SmallDependenceEmphasis original_gldm_SmallDependenceHighGrayLevelEmphasis original_gldm_SmallDependenceLowGrayLevelEmphasis original_glrlm_GrayLevelNonUniformity	0.001330 0.000958 0.041172 0.042574
original_gldm_SmallDependenceEmphasis original_gldm_SmallDependenceHighGrayLevelEmphasis original_gldm_SmallDependenceLowGrayLevelEmphasis original_glrlm_GrayLevelNonUniformity original_glrlm_GrayLevelNonUniformityNormalized	0.001330 0.000958 0.041172 0.042574 0.013454
original_gldm_SmallDependenceEmphasis original_gldm_SmallDependenceHighGrayLevelEmphasis original_gldm_SmallDependenceLowGrayLevelEmphasis original_glrlm_GrayLevelNonUniformity original_glrlm_GrayLevelNonUniformityNormalized original_glrlm_GrayLevelVariance	0.001330 0.000958 0.041172 0.042574
original_gldm_SmallDependenceEmphasis original_gldm_SmallDependenceHighGrayLevelEmphasis original_gldm_SmallDependenceLowGrayLevelEmphasis original_glrlm_GrayLevelNonUniformity original_glrlm_GrayLevelNonUniformityNormalized	0.001330 0.000958 0.041172 0.042574 0.013454
original_gldm_SmallDependenceEmphasis original_gldm_SmallDependenceHighGrayLevelEmphasis original_gldm_SmallDependenceLowGrayLevelEmphasis original_glrlm_GrayLevelNonUniformity original_glrlm_GrayLevelNonUniformityNormalized original_glrlm_GrayLevelVariance	0.001330 0.000958 0.041172 0.042574 0.013454 0.838469
original_gldm_SmallDependenceEmphasis original_gldm_SmallDependenceHighGrayLevelEmphasis original_gldm_SmallDependenceLowGrayLevelEmphasis original_glrlm_GrayLevelNonUniformity original_glrlm_GrayLevelNonUniformityNormalized original_glrlm_GrayLevelVariance original_glrlm_HighGrayLevelRunEmphasis	0.001330 0.000958 0.041172 0.042574 0.013454 0.838469 0.767109
original_gldm_SmallDependenceEmphasis original_gldm_SmallDependenceHighGrayLevelEmphasis original_gldm_SmallDependenceLowGrayLevelEmphasis original_glrlm_GrayLevelNonUniformity original_glrlm_GrayLevelNonUniformityNormalized original_glrlm_GrayLevelVariance original_glrlm_HighGrayLevelRunEmphasis original_glrlm_LongRunEmphasis	0.001330 0.000958 0.041172 0.042574 0.013454 0.838469 0.767109 0.014179
original_gldm_SmallDependenceEmphasis original_gldm_SmallDependenceHighGrayLevelEmphasis original_gldm_SmallDependenceLowGrayLevelEmphasis original_glrlm_GrayLevelNonUniformity original_glrlm_GrayLevelNonUniformityNormalized original_glrlm_GrayLevelVariance original_glrlm_HighGrayLevelRunEmphasis original_glrlm_LongRunEmphasis original_glrlm_LongRunHighGrayLevelEmphasis	0.001330 0.000958 0.041172 0.042574 0.013454 0.838469 0.767109 0.014179 0.251539
original_gldm_SmallDependenceEmphasis original_gldm_SmallDependenceHighGrayLevelEmphasis original_gldm_SmallDependenceLowGrayLevelEmphasis original_glrlm_GrayLevelNonUniformity original_glrlm_GrayLevelNonUniformityNormalized original_glrlm_GrayLevelVariance original_glrlm_HighGrayLevelRunEmphasis original_glrlm_LongRunEmphasis original_glrlm_LongRunHighGrayLevelEmphasis original_glrlm_LongRunLowGrayLevelEmphasis	0.001330 0.000958 0.041172 0.042574 0.013454 0.838469 0.767109 0.014179 0.251539 0.002580
original_gldm_SmallDependenceEmphasis original_gldm_SmallDependenceHighGrayLevelEmphasis original_gldm_SmallDependenceLowGrayLevelEmphasis 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_LowGrayLevelRunEmphasis original_glrlm_LowGrayLevelRunEmphasis	0.001330 0.000958 0.041172 0.042574 0.013454 0.838469 0.767109 0.014179 0.251539 0.002580 0.614533
original_gldm_SmallDependenceEmphasis original_gldm_SmallDependenceHighGrayLevelEmphasis original_gldm_SmallDependenceLowGrayLevelEmphasis 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_LowGrayLevelRunEmphasis original_glrlm_LowGrayLevelRunEmphasis original_glrlm_RunEntropy original_glrlm_RunEntropy	0.001330 0.000958 0.041172 0.042574 0.013454 0.838469 0.767109 0.014179 0.251539 0.002580 0.614533 0.135632
original_gldm_SmallDependenceEmphasis original_gldm_SmallDependenceHighGrayLevelEmphasis original_gldm_SmallDependenceLowGrayLevelEmphasis original_glrlm_GrayLevelNonUniformity original_glrlm_GrayLevelNonUniformityNormalized original_glrlm_GrayLevelVariance original_glrlm_HighGrayLevelRunEmphasis original_glrlm_LongRunEmphasis original_glrlm_LongRunLowGrayLevelEmphasis original_glrlm_LongRunLowGrayLevelEmphasis original_glrlm_LowGrayLevelRunEmphasis original_glrlm_LowGrayLevelRunEmphasis original_glrlm_RunEntropy original_glrlm_RunEntropy	0.001330 0.000958 0.041172 0.042574 0.013454 0.838469 0.767109 0.014179 0.251539 0.002580 0.614533 0.135632 0.000356 0.683584
original_gldm_SmallDependenceEmphasis original_gldm_SmallDependenceHighGrayLevelEmphasis original_gldm_SmallDependenceLowGrayLevelEmphasis 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_LowGrayLevelRunEmphasis original_glrlm_RunEntropy original_glrlm_RunEntropy original_glrlm_RunLengthNonUniformity original_glrlm_RunLengthNonUniformityNormalized original_glrlm_RunPercentage	0.001330 0.000958 0.041172 0.042574 0.013454 0.838469 0.767109 0.014179 0.251539 0.002580 0.614533 0.135632 0.000356 0.683584 0.633760
original_gldm_SmallDependenceEmphasis original_gldm_SmallDependenceHighGrayLevelEmphasis original_gldm_SmallDependenceLowGrayLevelEmphasis 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_RunEntropy original_glrlm_RunLengthNonUniformity original_glrlm_RunLengthNonUniformityNormalized original_glrlm_RunPercentage original_glrlm_RunPercentage	0.001330 0.000958 0.041172 0.042574 0.013454 0.838469 0.767109 0.014179 0.251539 0.002580 0.614533 0.135632 0.000356 0.683584 0.633760 0.035652
original_gldm_SmallDependenceEmphasis original_gldm_SmallDependenceHighGrayLevelEmphasis original_gldm_SmallDependenceLowGrayLevelEmphasis 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_RunEntropy original_glrlm_RunLengthNonUniformity original_glrlm_RunLengthNonUniformityNormalized original_glrlm_RunPercentage original_glrlm_RunPercentage original_glrlm_RunVariance original_glrlm_ShortRunEmphasis	0.001330 0.000958 0.041172 0.042574 0.013454 0.838469 0.767109 0.014179 0.251539 0.002580 0.614533 0.135632 0.003566 0.683584 0.633760 0.035652 0.159636
original_gldm_SmallDependenceEmphasis original_gldm_SmallDependenceHighGrayLevelEmphasis original_gldm_SmallDependenceLowGrayLevelEmphasis original_glrlm_GrayLevelNonUniformity original_glrlm_GrayLevelNonUniformityNormalized original_glrlm_GrayLevelVariance original_glrlm_HighGrayLevelRunEmphasis original_glrlm_LongRunEmphasis original_glrlm_LongRunLowGrayLevelEmphasis original_glrlm_LongRunLowGrayLevelEmphasis original_glrlm_LowGrayLevelRunEmphasis original_glrlm_RunEntropy original_glrlm_RunEntropy original_glrlm_RunLengthNonUniformity original_glrlm_RunLengthNonUniformityNormalized original_glrlm_RunPercentage original_glrlm_RunVariance original_glrlm_ShortRunEmphasis original_glrlm_ShortRunEmphasis	0.001330 0.000958 0.041172 0.042574 0.013454 0.838469 0.767109 0.014179 0.251539 0.002580 0.614533 0.135632 0.000356 0.683584 0.633760 0.035652 0.159636 0.009089
original_gldm_SmallDependenceEmphasis original_gldm_SmallDependenceHighGrayLevelEmphasis original_gldm_SmallDependenceLowGrayLevelEmphasis 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_RunPercentage original_glrlm_ShortRunEmphasis original_glrlm_ShortRunEmphasis	0.001330 0.000958 0.041172 0.042574 0.013454 0.838469 0.767109 0.014179 0.251539 0.002580 0.614533 0.135632 0.000356 0.683584 0.633760 0.035652 0.159636 0.009089 0.014135
original_gldm_SmallDependenceEmphasis original_gldm_SmallDependenceHighGrayLevelEmphasis original_gldm_SmallDependenceLowGrayLevelEmphasis 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_RunLengthNonUniformity original_glrlm_RunLengthNonUniformityNormalized original_glrlm_RunVariance original_glrlm_ShortRunEmphasis original_glrlm_ShortRunHighGrayLevelEmphasis original_glrlm_ShortRunLowGrayLevelEmphasis original_glrlm_ShortRunLowGrayLevelEmphasis	0.001330 0.000958 0.041172 0.042574 0.013454 0.838469 0.767109 0.014179 0.251539 0.002580 0.614533 0.135632 0.00356 0.683584 0.633760 0.035652 0.159636 0.099089 0.014135 0.001686
original_gldm_SmallDependenceEmphasis original_gldm_SmallDependenceHighGrayLevelEmphasis original_gldm_SmallDependenceLowGrayLevelEmphasis 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_ShortRunEmphasis original_glrlm_ShortRunLowGrayLevelEmphasis original_glrlm_ShortRunLowGrayLevelEmphasis original_glrlm_ShortRunLowGrayLevelEmphasis original_glszm_GrayLevelNonUniformityNormalized	0.001330 0.000958 0.041172 0.042574 0.013454 0.838469 0.767109 0.014179 0.251539 0.002580 0.614533 0.135632 0.003565 0.683584 0.633760 0.035652 0.159636 0.009089 0.014135 0.001686 0.834641
original_gldm_SmallDependenceEmphasis original_gldm_SmallDependenceHighGrayLevelEmphasis original_gldm_SmallDependenceLowGrayLevelEmphasis 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_RunLengthNonUniformity original_glrlm_RunLengthNonUniformityNormalized original_glrlm_RunVariance original_glrlm_ShortRunEmphasis original_glrlm_ShortRunHighGrayLevelEmphasis original_glrlm_ShortRunLowGrayLevelEmphasis original_glrlm_ShortRunLowGrayLevelEmphasis	0.001330 0.000958 0.041172 0.042574 0.013454 0.838469 0.767109 0.014179 0.251539 0.002580 0.614533 0.135632 0.00356 0.683584 0.633760 0.035652 0.159636 0.099089 0.014135 0.001686

```
original_glszm_LargeAreaEmphasis
                                                    0.307438
original_glszm_LargeAreaHighGrayLevelEmphasis
                                                    0.000199
original glszm LargeAreaLowGrayLevelEmphasis
                                                    0.063137
original glszm LowGrayLevelZoneEmphasis
                                                    0.298588
original_glszm_SizeZoneNonUniformity
                                                    0.004491
original glszm SizeZoneNonUniformityNormalized
                                                    0.001137
original_glszm_SmallAreaEmphasis
                                                    0.000462
original_glszm_SmallAreaHighGrayLevelEmphasis
                                                    0.220277
original glszm SmallAreaLowGrayLevelEmphasis
                                                    0.706735
original_glszm_ZoneEntropy
                                                    0.104097
original_glszm_ZonePercentage
                                                    0.022893
original_glszm_ZoneVariance
                                                    0.302614
original ngtdm Busyness
                                                    0.532210
original ngtdm Coarseness
                                                    0.538832
original ngtdm Complexity
                                                    0.795740
original_ngtdm_Contrast
                                                    0.901387
original_ngtdm_Strength
                                                    0.092713
original_shape_Elongation
                                                    0.003184
original_shape_Flatness
                                                    0.027755
original_shape_LeastAxisLength
                                                    0.004584
original_shape_MajorAxisLength
                                                    8.73e-05
original_shape_Maximum2DDiameterColumn
                                                    0.073436
original shape Maximum2DDiameterRow
                                                    0.116038
original shape Maximum2DDiameterSlice
                                                    0.047998
original shape Maximum3DDiameter
                                                    0.179718
original shape MeshVolume
                                                    0.034649
original_shape_MinorAxisLength
                                                    0.044963
                                                    0.296495
original_shape_Sphericity
original shape SurfaceArea
                                                    0.006120
original_shape_SurfaceVolumeRatio
                                                    0.024254
original_shape_VoxelVolume
                                                    0.046951
                                                    0.000971
cluster tree2.010849
Likelihood ratio test=262.1 on 108 df, p=7.971e-15
n= 361, number of events= 48
$model_list[[3]]$clusters
[1] 2.010849 0.460201
$model list[[4]]
$model_list[[4]]$treemodel
n= 360
node), split, n, deviance, yval
      * denotes terminal node
1) root 360 251.34380 1.0000000
  2) original_glszm_GrayLevelVariance< 0.04229695 234 73.02744 0.3782755 *
  3) original_glszm_GrayLevelVariance>=0.04229695 126 144.79850 2.2987410 *
$model_list[[4]]$modcoxmodel
coxph(formula = as.formula(paste("Surv(df train$time, df train$event) ~",
    paste(predict.factors, collapse = "+"))), data = df_train,
    x = TRUE
                                                           coef
original_firstorder_10Percentile
                                                      2.360e+01
```

anisinal finatandan OODanaantila	2 5100.01
original_firstorder_90Percentile	2.518e+01
original_firstorder_Energy	1.497e+00
original_firstorder_Entropy	-4.684e+01
original_firstorder_InterquartileRange	-5.027e+01
original_firstorder_Kurtosis	2.741e+00
original_firstorder_Maximum	-9.353e-01
original_firstorder_Mean	-4.608e+01
	-2.690e+01
original_firstorder_MeanAbsoluteDeviation	
original_firstorder_Median	-8.948e+00
original_firstorder_Minimum	1.054e+02
original_firstorder_Range	0.000e+00
original_firstorder_RobustMeanAbsoluteDeviation	3.351e+01
original_firstorder_RootMeanSquared	1.029e+01
original_firstorder_Skewness	-1.701e+00
original_firstorder_TotalEnergy	0.000e+00
original_firstorder_Uniformity	-7.023e+01
original_firstorder_Variance	3.701e+03
original_glcm_Autocorrelation	-7.198e+02
original_glcm_ClusterProminence	-6.709e+02
original_glcm_ClusterShade	1.331e+02
original_glcm_ClusterTendency	7.267e+01
original_glcm_Contrast	5.555e+02
original_glcm_Correlation	-1.259e+01
original_glcm_DifferenceAverage	-4.169e+02
original_glcm_DifferenceEntropy	-3.224e+01
original_glcm_DifferenceVariance	-2.498e+01
	-2.438e+01
original_glcm_Id	
original_glcm_Idm	2.260e+03
original_glcm_Idmn	-1.287e+01
original_glcm_Idn	1.821e+01
original_glcm_Imc1	2.412e+01
original_glcm_Imc2	2.751e+01
original_glcm_InverseVariance	-2.418e+02
original_glcm_JointAverage	1.135e+02
original_glcm_JointEnergy	1.610e+01
original_glcm_JointEntropy	8.771e+01
original_glcm_MCC	-4.485e+00
original_glcm_MaximumProbability	4.868e+00
original_glcm_SumAverage	0.000e+00
original_glcm_SumEntropy	-5.219e+01
original_glcm_SumSquares	0.000e+00
original_gldm_DependenceEntropy	-6.197e+01
original_gldm_DependenceNonUniformity	6.395e-01
original_gldm_DependenceNonUniformityNormalized	2.578e+01
original_gldm_DependenceVariance	-5.041e+01
original_gldm_GrayLevelNonUniformity	-3.707e+00
original_gldm_GrayLevelVariance	-3.420e+03
original_gldm_HighGrayLevelEmphasis	1.588e+03
original_gldm_LargeDependenceEmphasis	1.146e+02
original_gldm_LargeDependenceHighGrayLevelEmphasis	5.867e+01
original_gldm_LargeDependenceLowGrayLevelEmphasis	-2.318e+02
original_gldm_LowGrayLevelEmphasis	-9.376e+01
original_gldm_SmallDependenceEmphasis	1.229e+02
original_gldm_SmallDependenceHighGrayLevelEmphasis	-2.528e+01
original_gldm_SmallDependenceLowGrayLevelEmphasis	
original_glrlm_GrayLevelNonUniformity	6.410e+01
	6.410e+01 2.046e+01
	2.046e+01
original_glrlm_GrayLevelNonUniformityNormalized	2.046e+01 1.163e+01
	2.046e+01

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1.193e+02

original_glrlm_LongRunEmphasis

OLIGINAL_GILIN_CONGRUNCINPHASIS	1.1936+02
original_glrlm_LongRunHighGrayLevelEmphasis	1.237e+01
original_glrlm_LongRunLowGrayLevelEmphasis	2.126e+01
original_glrlm_LowGrayLevelRunEmphasis	1.099e+03
original_glrlm_RunEntropy	7.509e+01
original_glrlm_RunLengthNonUniformity	1.513e+01
original_glrlm_RunLengthNonUniformityNormalized	-3.482e+02
original_glrlm_RunPercentage	1.945e+01
original_glrlm_RunVariance	-1.669e+02
original_glrlm_ShortRunEmphasis	2.890e+02
original glrlm ShortRunHighGrayLevelEmphasis	2.625e+02
original_glrlm_ShortRunLowGrayLevelEmphasis	-8.719e+02
original_glszm_GrayLevelNonUniformity	-8.000e+00
original_glszm_GrayLevelNonUniformityNormalized	1.173e+01
original_glszm_GrayLevelVariance	6.384e-01
original_glszm_HighGrayLevelZoneEmphasis	-9.295e+01
original_glszm_LargeAreaEmphasis	-1.556e+03
original_glszm_LargeAreaHighGrayLevelEmphasis	2.825e+00
original_glszm_LargeAreaLowGrayLevelEmphasis	4.978e+01
original_glszm_LowGrayLevelZoneEmphasis	-5.852e+01
original_glszm_SizeZoneNonUniformity	2.783e+00
original_glszm_SizeZoneNonUniformityNormalized	-7.435e+00
original_glszm_SmallAreaEmphasis	-2.277e+01
original_glszm_SmallAreaHighGrayLevelEmphasis	7.829e+01
original_glszm_SmallAreaLowGrayLevelEmphasis	6.444e+00
original_glszm_ZoneEntropy	-1.109e+01
original_glszm_ZonePercentage	-1.632e+02
original_glszm_ZoneVariance	1.555e+03
original_ngtdm_Busyness	-3.228e+01
original_ngtdm_Coarseness	-7.831e+00
original_ngtdm_Complexity	-1.383e+01
original_ngtdm_Contrast	-4.148e+01
original_ngtdm_Strength	1.799e+01
original_shape_Elongation	-5.835e-01
original_shape_Flatness	2.134e+00
original_shape_LeastAxisLength	3.916e+00
original_shape_MajorAxisLength	1.221e+00
original_shape_Maximum2DDiameterColumn	-5.888e+00
original_shape_Maximum2DDiameterRow	6.163e+00
original_shape_Maximum2DDiameterSlice	-1.372e-01
original_shape_Maximum3DDiameter	1.489e+01
original_shape_MeshVolume	2.361e+03
original_shape_MinorAxisLength	1.166e+01
original_shape_Sphericity	5.668e+00
original_shape_SurfaceArea	1.714e+01
original_shape_SurfaceVolumeRatio	1.158e+02
original_shape_VoxelVolume	-2.404e+03
cluster_tree2.298741	1.601e+01
_	exp(coef)
original_firstorder_10Percentile	1.784e+10
original_firstorder_90Percentile	8.624e+10
original_firstorder_Energy	4.469e+00
original_firstorder_Entropy	4.529e-21
original_firstorder_InterquartileRange	1.471e-22
original_firstorder_Kurtosis	1.551e+01
original_firstorder_Maximum	3.925e-01
original_firstorder_Mean	9.751e-21
original_firstorder_MeanAbsoluteDeviation	2.084e-12
original_firstorder_Median	1.300e-04

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original_firstorder_Minimum	6.233e+45
original_firstorder_Range	1.000e+00
$original_firstorder_Robust {\tt MeanAbsoluteDeviation}$	3.591e+14
original_firstorder_RootMeanSquared	2.957e+04
original_firstorder_Skewness	1.826e-01
original_firstorder_TotalEnergy	1.000e+00
original_firstorder_Uniformity	3.170e-31
original_firstorder_Variance	Inf
original_glcm_Autocorrelation	2.364e-313
original_glcm_ClusterProminence	4.190e-292
original_glcm_ClusterShade	6.684e+57
original_glcm_ClusterTendency	3.644e+31
original_glcm_Contrast	1.712e+241
original_glcm_Correlation	3.400e-06
original_glcm_DifferenceAverage	8.622e-182
original_glcm_DifferenceEntropy	9.934e-15
original_glcm_DifferenceVariance	1.424e-11
original_glcm_Id	0.000e+00
original_glcm_Idm	Inf
<pre>original_glcm_Idmn original_glcm_Idn</pre>	2.570e-06 8.066e+07
	2.990e+10
<pre>original_glcm_Imc1 original_glcm_Imc2</pre>	8.866e+11
original_glcm_InverseVariance	9.404e-106
original_glcm_JointAverage	1.979e+49
original_glcm_JointEnergy	9.803e+06
original_glcm_JointEntropy	1.230e+38
original_glcm_MCC	1.128e-02
original_glcm_MaximumProbability	1.300e+02
original_glcm_SumAverage	1.000e+00
original_glcm_SumEntropy	2.150e-23
original_glcm_SumSquares	1.000e+00
original_gldm_DependenceEntropy	1.221e-27
original_gldm_DependenceNonUniformity	1.895e+00
original_gldm_DependenceNonUniformityNormalized	1.565e+11
original_gldm_DependenceVariance	1.277e-22
original_gldm_GrayLevelNonUniformity	2.456e-02
original_gldm_GrayLevelVariance	0.000e+00
original_gldm_HighGrayLevelEmphasis	Inf
original_gldm_LargeDependenceEmphasis	5.844e+49
original_gldm_LargeDependenceHighGrayLevelEmphas	sis 3.018e+25
original_gldm_LargeDependenceLowGrayLevelEmphasi	ls 2.129e-101
original_gldm_LowGrayLevelEmphasis	1.904e-41
original_gldm_SmallDependenceEmphasis	2.411e+53
original_gldm_SmallDependenceHighGrayLevelEmphas	
original_gldm_SmallDependenceLowGrayLevelEmphasi	
original_glrlm_GrayLevelNonUniformity	7.672e+08
original_glrlm_GrayLevelNonUniformityNormalized	1.124e+05
original_glrlm_GrayLevelVariance	1.105e-58
original_glrlm_HighGrayLevelRunEmphasis	0.000e+00
original_glrlm_LongRunEmphasis	6.431e+51
original_glrlm_LongRunHowGrayLevelEmphasis	2.354e+05
original_glrlm_LongRunLowGrayLevelEmphasis	1.712e+09
original_glrlm_LowGrayLevelRunEmphasis	Inf
<pre>original_glrlm_RunEntropy original_glrlm_RunLengthNonUniformity</pre>	4.080e+32 3.725e+06
original_girim_kunLengthNonUniformity original_glrlm_RunLengthNonUniformityNormalized	6.001e-152
original_glr1m_RunPercentage	2.804e+08
original_glrlm_RunVariance	3.448e-73
o. 1811101 Bill III walled	J. 440E-13

original_glrlm_ShortRunEmphasis	3.340e+125
original_glrlm_ShortRunHighGrayLevelEmphasis	9.646e+113
original_glrlm_ShortRunLowGrayLevelEmphasis	0.000e+00
original_glszm_GrayLevelNonUniformity	3.353e-04
original_glszm_GrayLevelNonUniformityNormalized	1.237e+05
original_glszm_GrayLevelVariance	1.894e+00
original_glszm_HighGrayLevelZoneEmphasis	4.302e-41
original_glszm_LargeAreaEmphasis	0.000e+00
original_glszm_LargeAreaHighGrayLevelEmphasis	1.685e+01
original_glszm_LargeAreaLowGrayLevelEmphasis	4.145e+21
original_glszm_LowGrayLevelZoneEmphasis	3.832e-26
original_glszm_SizeZoneNonUniformity	1.616e+01
original_glszm_SizeZoneNonUniformityNormalized	5.901e-04
original_glszm_SmallAreaEmphasis	1.289e-10
original_glszm_SmallAreaHighGrayLevelEmphasis	1.007e+34
original_glszm_SmallAreaLowGrayLevelEmphasis	6.292e+02
original_glszm_ZoneEntropy	1.531e-05
original_glszm_ZonePercentage	1.354e-71
original_glszm_ZoneVariance	Inf
original_ngtdm_Busyness	9.593e-15
original_ngtdm_Coarseness	3.973e-04
original_ngtdm_Complexity	9.861e-07
original_ngtdm_Contrast	9.695e-19
original_ngtdm_Strength	6.524e+07
original_shape_Elongation	5.579e-01
original_shape_Flatness	8.446e+00
original_shape_LeastAxisLength	5.019e+01
original_shape_MajorAxisLength	3.390e+00
original_shape_Maximum2DDiameterColumn	2.771e-03
original_shape_Maximum2DDiameterRow	4.747e+02
original_shape_Maximum2DDiameterSlice	8.718e-01
original_shape_Maximum3DDiameter	2.916e+06
original_shape_MeshVolume	Inf
original_shape_MinorAxisLength	1.159e+05
original_shape_Sphericity	2.895e+02
original_shape_SurfaceArea	2.781e+07
original_shape_SurfaceVolumeRatio	1.930e+50 0.000e+00
<pre>original_shape_VoxelVolume cluster_tree2.298741</pre>	9.012e+06
Cluster_treez.298/41	
oniginal finstandan 10Dansantila	se(coef) 1.422e-01
<pre>original_firstorder_10Percentile original_firstorder_90Percentile</pre>	9.383e-02
original_firstorder_Energy	1.213e-01
original_firstorder_Entropy	1.369e-01
original_firstorder_InterquartileRange	1.494e-01
original_firstorder_Kurtosis	1.301e-01
original_firstorder_Maximum	1.436e-01
original_firstorder_Mean	1.425e-01
original_firstorder_MeanAbsoluteDeviation	1.358e-01
original_firstorder_Median	1.572e-01
original_firstorder_Minimum	1.600e-01
original_firstorder_Range	1.453e-01
original_firstorder_RobustMeanAbsoluteDeviation	1.544e-01
original_firstorder_RootMeanSquared	1.384e-01
original_firstorder_Skewness	1.420e-01
original_firstorder_TotalEnergy	1.213e-01
original_firstorder_Uniformity	1.430e-01
original_firstorder_Variance	2.310e-01
original_glcm_Autocorrelation	1.570e-01

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original_glcm_ClusterProminence	1.734e+00
original_glcm_ClusterShade	3.761e-01
	2.005e-01
original_glcm_ClusterTendency	8.150e-01
original_glcm_Contrast	1.566e-01
original_glcm_Correlation	
original_glcm_DifferenceAverage	1.580e-01
original_glcm_DifferenceEntropy	1.458e-01
original_glcm_DifferenceVariance	1.026e+00
original_glcm_Id	1.394e-01
original_glcm_Idm	1.388e-01
original_glcm_Idmn	1.679e-01
original_glcm_Idn	1.477e-01
original_glcm_Imc1	1.538e-01
original_glcm_Imc2	1.741e-01
original_glcm_InverseVariance	1.410e-01
original_glcm_JointAverage	1.544e-01
original_glcm_JointEnergy	1.474e-01
original_glcm_JointEntropy	1.352e-01
original_glcm_MCC	1.882e-01
original_glcm_MaximumProbability	1.453e-01
original_glcm_SumAverage	1.544e-01
original_glcm_SumEntropy	1.384e-01
original_glcm_SumSquares	2.420e-01
original_gldm_DependenceEntropy	1.365e-01
original_gldm_DependenceNonUniformity	1.187e-01
original_gldm_DependenceNonUniformityNormalized	1.600e-01
original_gldm_DependenceVariance	1.538e-01
original_gldm_GrayLevelNonUniformity	9.831e-02
original_gldm_GrayLevelVariance	2.306e-01
original_gldm_HighGrayLevelEmphasis	1.571e-01
original gldm LargeDependenceEmphasis	1.649e-01
original_gldm_LargeDependenceHighGrayLevelEmphasis	1.262e-01
original_gldm_LargeDependenceLowGrayLevelEmphasis	3.637e-01
original_gldm_LowGrayLevelEmphasis	1.032e-01
original_gldm_SmallDependenceEmphasis	1.743e-01
original_gldm_SmallDependenceHighGrayLevelEmphasis	1.474e-01
original_gldm_SmallDependenceLowGrayLevelEmphasis	1.185e-01
original_glrlm_GrayLevelNonUniformity	1.033e-01
original_glrlm_GrayLevelNonUniformityNormalized	1.308e-01
original_glrlm_GrayLevelVariance	2.175e-01
original_glrlm_HighGrayLevelRunEmphasis	1.568e-01
original_glrlm_LongRunEmphasis	2.050e-01
<pre>original_glrlm_LongRunHighGrayLevelEmphasis original_glrlm_LongRunLowGrayLevelEmphasis</pre>	1.344e-01 2.107e-01
original_glrlm_LowGrayLevelRunEmphasis	1.073e-01
original_glrlm_RunEntropy	1.331e-01
original_glrlm_RunLengthNonUniformity	1.107e-01
original_glrlm_RunLengthNonUniformityNormalized	1.630e-01
original_glrlm_RunPercentage	1.652e-01
original_glrlm_RunVariance	2.095e-01
original_glrlm_ShortRunEmphasis	1.661e-01
original_glrlm_ShortRunHighGrayLevelEmphasis	1.626e-01
original_glrlm_ShortRunLowGrayLevelEmphasis	9.616e-02
original_glszm_GrayLevelNonUniformity	1.215e-01
original_glszm_GrayLevelNonUniformityNormalized	1.313e-01
original_glszm_GrayLevelVariance	1.479e-01
original_glszm_HighGrayLevelZoneEmphasis	1.525e-01
original_glszm_LargeAreaEmphasis	1.006e-01
original_glszm_LargeAreaHighGrayLevelEmphasis	7.543e-02

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original_glszm_LargeAreaLowGrayLevelEmphasis	4.243e-01
original_glszm_LowGrayLevelZoneEmphasis	1.652e-01
original_glszm_SizeZoneNonUniformity	1.111e-01
original_glszm_SizeZoneNonUniformityNormalized	1.446e-01
original_glszm_SmallAreaEmphasis	1.345e-01
original_glszm_SmallAreaHighGrayLevelEmphasis	1.437e-01
original_glszm_SmallAreaLowGrayLevelEmphasis	1.949e-01
original_glszm_ZoneEntropy	1.496e-01
original_glszm_ZonePercentage	1.717e-01
original_glszm_ZoneVariance	1.005e-01
original_ngtdm_Busyness	3.496e-01
original_ngtdm_Coarseness	8.901e-02
	2.046e-01
original_ngtdm_Complexity	
original_ngtdm_Contrast	4.642e-01
original_ngtdm_Strength	3.960e-01
original_shape_Elongation	1.552e-01
original_shape_Flatness	1.708e-01
original_shape_LeastAxisLength	1.251e-01
original_shape_MajorAxisLength	1.488e-01
original_shape_Maximum2DDiameterColumn	1.475e-01
original_shape_Maximum2DDiameterRow	1.314e-01
original_shape_Maximum2DDiameterSlice	1.386e-01
original_shape_Maximum3DDiameter	1.418e-01
original_shape_MeshVolume	9.699e-02
original_shape_MinorAxisLength	1.446e-01
original_shape_Sphericity	1.867e-01
original_shape_SurfaceArea	1.105e-01
original_shape_SurfaceVolumeRatio	1.549e-01
original_shape_VoxelVolume	9.717e-02
cluster tree2.298741	3.728e-01
cluster_tree2.298741	3.728e-01
	Z
original_firstorder_10Percentile	z 166.054
original_firstorder_10Percentile original_firstorder_90Percentile	z 166.054 268.375
<pre>original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy</pre>	z 166.054 268.375 12.344
original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy	2 166.054 268.375 12.344 -342.256
original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange	z 166.054 268.375 12.344 -342.256 -336.380
original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis	z 166.054 268.375 12.344 -342.256 -336.380 21.073
original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum	2 166.054 268.375 12.344 -342.256 -336.380 21.073 -6.513
original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean	2 166.054 268.375 12.344 -342.256 -336.380 21.073 -6.513 -323.368
original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean	z 166.054 268.375 12.344 -342.256 -336.380 21.073 -6.513 -323.368 -198.037
original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation original_firstorder_Median	2 166.054 268.375 12.344 -342.256 -336.380 21.073 -6.513 -323.368 -198.037 -56.936
original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Minimum	2 166.054 268.375 12.344 -342.256 -336.380 21.073 -6.513 -323.368 -198.037 -56.936 658.961
original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Minimum original_firstorder_Range	2 166.054 268.375 12.344 -342.256 -336.380 21.073 -6.513 -323.368 -198.037 -56.936
original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Minimum	2 166.054 268.375 12.344 -342.256 -336.380 21.073 -6.513 -323.368 -198.037 -56.936 658.961
original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Minimum original_firstorder_Range	2 166.054 268.375 12.344 -342.256 -336.380 21.073 -6.513 -323.368 -198.037 -56.936 658.961 0.000
original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation	z 166.054 268.375 12.344 -342.256 -336.380 21.073 -6.513 -323.368 -198.037 -56.936 658.961 0.000 217.056
original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation	z 166.054 268.375 12.344 -342.256 -336.380 21.073 -6.513 -323.368 -198.037 -56.936 658.961 0.000 217.056 74.393
original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanSquared original_firstorder_Skewness	2 166.054 268.375 12.344 -342.256 -336.380 21.073 -6.513 -323.368 -198.037 -56.936 658.961 0.000 217.056 74.393 -11.980
original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy	2 166.054 268.375 12.344 -342.256 -336.380 21.073 -6.513 -323.368 -198.037 -56.936 658.961 0.000 217.056 74.393 -11.980 0.000
original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity	2 166.054 268.375 12.344 -342.256 -336.380 21.073 -6.513 -323.368 -198.037 -56.936 658.961 0.000 217.056 74.393 -11.980 0.000 -491.234
original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance	2 166.054 268.375 12.344 -342.256 -336.380 21.073 -6.513 -323.368 -198.037 -56.936 658.961 0.000 217.056 74.393 -11.980 0.000 -491.234 16020.164
original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Range original_firstorder_Range original_firstorder_RootMeanAbsoluteDeviation original_firstorder_RootMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation	2 166.054 268.375 12.344 -342.256 -336.380 21.073 -6.513 -323.368 -198.037 -56.936 658.961 0.000 217.056 74.393 -11.980 0.000 -491.234 16020.164 -4584.355
original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation original_glcm_ClusterProminence	2 166.054 268.375 12.344 -342.256 -336.380 21.073 -6.513 -323.368 -198.037 -56.936 658.961 0.000 217.056 74.393 -11.980 0.000 -491.234 16020.164 -4584.355 -386.883
original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation original_glcm_ClusterProminence original_glcm_ClusterShade original_glcm_ClusterTendency	2 166.054 268.375 12.344 -342.256 -336.380 21.073 -6.513 -323.368 -198.037 -56.936 658.961 0.000 217.056 74.393 -11.980 0.000 -491.234 16020.164 -4584.355 -386.883 354.032
original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation original_glcm_ClusterProminence original_glcm_ClusterTendency original_glcm_ClusterTendency	2 166.054 268.375 12.344 -342.256 -336.380 21.073 -6.513 -323.368 -198.037 -56.936 658.961 0.000 217.056 74.393 -11.980 0.000 -491.234 16020.164 -4584.355 -386.883 354.032 362.465
original_firstorder_10Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_Mean original_firstorder_Median original_firstorder_Minimum original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation original_glcm_ClusterProminence original_glcm_ClusterProminence original_glcm_ClusterTendency original_glcm_ClusterTendency original_glcm_Contrast original_glcm_Correlation	2 166.054 268.375 12.344 -342.256 -336.380 21.073 -6.513 -323.368 -198.037 -56.936 658.961 0.000 217.056 74.393 -11.980 0.000 -491.234 16020.164 -4584.355 -386.883 354.032 362.465 681.520 -80.416
original_firstorder_10Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation original_firstorder_Median original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RotemanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation original_glcm_ClusterProminence original_glcm_ClusterShade original_glcm_ClusterTendency original_glcm_Contrast original_glcm_Correlation original_glcm_Correlation	2 166.054 268.375 12.344 -342.256 -336.380 21.073 -6.513 -323.368 -198.037 -56.936 658.961 0.000 217.056 74.393 -11.980 0.000 -491.234 16020.164 -4584.355 -386.883 354.032 362.465 681.520 -80.416 -2638.443
original_firstorder_10Percentile original_firstorder_90Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_Median original_firstorder_Median original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation original_glcm_ClusterProminence original_glcm_ClusterShade original_glcm_ClusterTendency original_glcm_Correlation original_glcm_Correlation original_glcm_Correlation original_glcm_Correlation original_glcm_DifferenceAverage original_glcm_DifferenceEntropy	2 166.054 268.375 12.344 -342.256 -336.380 21.073 -6.513 -323.368 -198.037 -56.936 658.961 0.000 217.056 74.393 -11.980 0.000 -491.234 16020.164 -4584.355 -386.883 354.032 362.465 681.520 -80.416 -2638.443 -221.120
original_firstorder_10Percentile original_firstorder_Energy original_firstorder_Entropy original_firstorder_InterquartileRange original_firstorder_Kurtosis original_firstorder_Maximum original_firstorder_Mean original_firstorder_Mean original_firstorder_MeanAbsoluteDeviation original_firstorder_Median original_firstorder_Range original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RobustMeanAbsoluteDeviation original_firstorder_RotemanSquared original_firstorder_Skewness original_firstorder_TotalEnergy original_firstorder_Uniformity original_firstorder_Variance original_glcm_Autocorrelation original_glcm_ClusterProminence original_glcm_ClusterShade original_glcm_ClusterTendency original_glcm_Contrast original_glcm_Correlation original_glcm_Correlation	2 166.054 268.375 12.344 -342.256 -336.380 21.073 -6.513 -323.368 -198.037 -56.936 658.961 0.000 217.056 74.393 -11.980 0.000 -491.234 16020.164 -4584.355 -386.883 354.032 362.465 681.520 -80.416 -2638.443

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original_glcm_Idm	16286.416
	-76.667
original_glcm_Idm	
original_glcm_Idn	123.234
original_glcm_Imc1	156.881
original_glcm_Imc2	158.004
original_glcm_InverseVariance	-1715.286
original_glcm_JointAverage	734.974
original_glcm_JointEnergy	109.180
original_glcm_JointEntropy	648.727
original_glcm_MCC	-23.828
original_glcm_MaximumProbability	33.504
original_glcm_SumAverage	0.000
original_glcm_SumEntropy	-377.150
original_glcm_SumSquares	0.000
original_gldm_DependenceEntropy	-454.051
	5.386
original_gldm_DependenceNonUniformity	
original_gldm_DependenceNonUniformityNormalized	161.131
original_gldm_DependenceVariance	-327.839
original_gldm_GrayLevelNonUniformity	-37.705
original_gldm_GrayLevelVariance	-14828.711
original_gldm_HighGrayLevelEmphasis	10106.873
original_gldm_LargeDependenceEmphasis	694.880
original_gldm_LargeDependenceHighGrayLevelEmphasis	464.761
original_gldm_LargeDependenceLowGrayLevelEmphasis	-637.389
original_gldm_LowGrayLevelEmphasis	-908.617
original_gldm_SmallDependenceEmphasis	705.346
original_gldm_SmallDependenceHighGrayLevelEmphasis	-171.532
original_gldm_SmallDependenceLowGrayLevelEmphasis	540.999
original_glrlm_GrayLevelNonUniformity	198.136
original_glrlm_GrayLevelNonUniformityNormalized	88.894
original_glrlm_GrayLevelVariance	-613.435
original_glrlm_HighGrayLevelRunEmphasis	-7277.355
original_glrlm_LongRunEmphasis	581.933
original_glrlm_LongRunHighGrayLevelEmphasis	92.000
original_glrlm_LongRunLowGrayLevelEmphasis	100.916
original_glrlm_LowGrayLevelRunEmphasis	10241.942
original_glrlm_RunEntropy	564.351
original_glrlm_RunLengthNonUniformity	136.687
original_glrlm_RunLengthNonUniformityNormalized	-2135.772
original_glrlm_RunPercentage	117.763
original_glrlm_RunVariance	-796.389
original_glrlm_ShortRunEmphasis	1739.704
original_glrlm_ShortRunHighGrayLevelEmphasis	1614.404
original_glrlm_ShortRunLowGrayLevelEmphasis	-9067.650
original_glszm_GrayLevelNonUniformity	-65.851
original_glszm_GrayLevelNonUniformityNormalized	89.327
original_glszm_GrayLevelVariance	4.316
original_glszm_HighGrayLevelZoneEmphasis	-609.491
original_glszm_LargeAreaEmphasis	-15469.993
original_glszm_LargeAreaHighGrayLevelEmphasis	37.446
original_glszm_LargeAreaLowGrayLevelEmphasis	117.311
original_glszm_LowGrayLevelZoneEmphasis	-354.247
original_glszm_SizeZoneNonUniformity	25.046
original_glszm_SizeZoneNonUniformityNormalized	-51.432
original_glszm_SmallAreaEmphasis	-169.340
original_glszm_SmallAreaHighGrayLevelEmphasis	544.863
original_glszm_SmallAreaLowGrayLevelEmphasis	33.069
original_glszm_ZoneEntropy	-74.087
original_glszm_ZonePercentage	-950.161

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original_glszm_ZoneVariance	15481.558
original_ngtdm_Busyness	-92.327
original_ngtdm_Coarseness	-87.973
original_ngtdm_Complexity	-67.601
original_ngtdm_Contrast	-89.355
original_ngtdm_Strength	45.436
original_shape_Elongation	-3.760
original_shape_Flatness	12.490
original_shape_LeastAxisLength	31.303
original_shape_MajorAxisLength	8.203
original_shape_Maximum2DDiameterColumn	-39.908
original_shape_Maximum2DDiameterRow	46.912
original_shape_Maximum2DDiameterSlice	-0.990
original_shape_Maximum3DDiameter	105.003
	24339.722
original_shape_MeshVolume	
original_shape_MinorAxisLength	80.641
original_shape_Sphericity	30.354
original_shape_SurfaceArea	155.082
original_shape_SurfaceVolumeRatio	747.283
original_shape_VoxelVolume	-24739.312
cluster_tree2.298741	42.956
	р
original_firstorder_10Percentile	< 2e-16
original_firstorder_90Percentile	< 2e-16
original_firstorder_Energy	< 2e-16
original_firstorder_Entropy	< 2e-16
original_firstorder_InterquartileRange	< 2e-16
original_firstorder_Kurtosis	< 2e-16
original_firstorder_Maximum	7.35e-11
original_firstorder_Mean	< 2e-16
original_firstorder_MeanAbsoluteDeviation	< 2e-16
original_firstorder_Median	< 2e-16
original_firstorder_Minimum	< 2e-16
original_firstorder_Range	1.00000
original_firstorder_RobustMeanAbsoluteDeviation	< 2e-16
original_firstorder_RootMeanSquared	< 2e-16
original_firstorder_Skewness	< 2e-16
original_firstorder_TotalEnergy	1.00000
original_firstorder_Uniformity	< 2e-16
original_firstorder_Variance	
_	< 2e-16
original_glcm_Autocorrelation	< 2e-16
original_glcm_ClusterProminence	< 2e-16
original_glcm_ClusterShade	< 2e-16
original_glcm_ClusterTendency	< 2e-16
original_glcm_Contrast	< 2e-16
original_glcm_Correlation	< 2e-16
original_glcm_DifferenceAverage	< 2e-16
original_glcm_DifferenceEntropy	< 2e-16
original_glcm_DifferenceVariance	< 2e-16
original_glcm_Id	< 2e-16
original_glcm_Idm	< 2e-16
original_glcm_Idmn	< 2e-16
original_glcm_Idn	< 2e-16
original_glcm_Imc1	< 2e-16
original_glcm_Imc2	< 2e-16
original_glcm_InverseVariance	< 2e-16
original_glcm_JointAverage	< 2e-16
original_glcm_JointEnergy	< 2e-16
original_glcm_JointEntropy	< 2e-16
T	

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original_glcm_MCC	< 2e-16
original_glcm_MaximumProbability	< 2e-16
	1.00000
original_glcm_SumAverage	
original_glcm_SumEntropy	< 2e-16
original_glcm_SumSquares	1.00000
original_gldm_DependenceEntropy	< 2e-16
original_gldm_DependenceNonUniformity	7.22e-08
original_gldm_DependenceNonUniformityNormalized	< 2e-16
original_gldm_DependenceVariance	< 2e-16
original_gldm_GrayLevelNonUniformity	< 2e-16
original_gldm_GrayLevelVariance	< 2e-16
original_gldm_HighGrayLevelEmphasis	< 2e-16
original_gldm_LargeDependenceEmphasis	< 2e-16
original_gldm_LargeDependenceHighGrayLevelEmphasis	< 2e-16
original_gldm_LargeDependenceLowGrayLevelEmphasis	< 2e-16
original_gldm_LowGrayLevelEmphasis	< 2e-16
original_gldm_SmallDependenceEmphasis	< 2e-16
original_gldm_SmallDependenceHighGrayLevelEmphasis	< 2e-16
original_gldm_SmallDependenceLowGrayLevelEmphasis	< 2e-16
original_glrlm_GrayLevelNonUniformity	< 2e-16
original_glrlm_GrayLevelNonUniformityNormalized	< 2e-16
original_glrlm_GrayLevelVariance	< 2e-16
original_glrlm_HighGrayLevelRunEmphasis	< 2e-16
original_glrlm_LongRunEmphasis	< 2e-16
original_glrlm_LongRunHighGrayLevelEmphasis	< 2e-16
original_glrlm_LongRunLowGrayLevelEmphasis	< 2e-16
original_glrlm_LowGrayLevelRunEmphasis	< 2e-16
original_glrlm_RunEntropy	< 2e-16
original_glrlm_RunLengthNonUniformity	< 2e-16
original_glrlm_RunLengthNonUniformityNormalized	< 2e-16
original_glrlm_RunPercentage	< 2e-16
original_glrlm_RunVariance	< 2e-16
original glrlm ShortRunEmphasis	< 2e-16
original_glrlm_ShortRunHighGrayLevelEmphasis	< 2e-16
original_glrlm_ShortRunLowGrayLevelEmphasis	< 2e-16
original_glszm_GrayLevelNonUniformity	< 2e-16
original_glszm_GrayLevelNonUniformityNormalized	< 2e-16
original_glszm_GrayLevelVariance	1.59e-05
original_glszm_HighGrayLevelZoneEmphasis	< 2e-16
original_glszm_LargeAreaEmphasis	< 2e-16
original_glszm_LargeAreaHighGrayLevelEmphasis	< 2e-16
original_glszm_LargeAreaLowGrayLevelEmphasis	< 2e-16
original_glszm_LowGrayLevelZoneEmphasis	< 2e-16
original_glszm_SizeZoneNonUniformity	< 2e-16
original_glszm_SizeZoneNonUniformityNormalized	< 2e-16
original_glszm_SmallAreaEmphasis	< 2e-16
original_glszm_SmallAreaHighGrayLevelEmphasis	< 2e-16
original_glszm_SmallAreaLowGrayLevelEmphasis	< 2e-16
original_glszm_ZoneEntropy	< 2e-16
original_glszm_ZonePercentage	< 2e-16
original_glszm_ZoneVariance	< 2e-16
original_ngtdm_Busyness	< 2e-16
original_ngtdm_Coarseness	< 2e-16
original_ngtdm_Complexity	< 2e-16
original_ngtdm_Contrast	< 2e-16
original_ngtdm_Strength	< 2e-16
original_shape_Elongation	0.00017
original_shape_Flatness	< 2e-16
original_shape_LeastAxisLength	< 2e-16
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```
2.34e-16
original_shape_MajorAxisLength
original_shape_Maximum2DDiameterColumn
                                                     < 2e-16
original shape Maximum2DDiameterRow
                                                     < 2e-16
original shape Maximum2DDiameterSlice
                                                     0.32221
original shape Maximum3DDiameter
                                                     < 2e-16
original shape MeshVolume
                                                     < 2e-16
original_shape_MinorAxisLength
                                                     < 2e-16
original_shape_Sphericity
                                                     < 2e-16
original shape SurfaceArea
                                                     < 2e-16
original_shape_SurfaceVolumeRatio
                                                     < 2e-16
original_shape_VoxelVolume
                                                     < 2e-16
cluster_tree2.298741
                                                     < 2e-16
Likelihood ratio test=297.7 on 108 df, p=< 2.2e-16
n= 360, number of events= 41
$model_list[[4]]$clusters
[1] 2.298741 0.378275
$model_list[[5]]
$model_list[[5]]$treemodel
n = 361
node), split, n, deviance, yval
      * denotes terminal node
1) root 361 276.13440 1.0000000
  2) original firstorder Maximum< 0.642026 309 183.90000 0.7107905 *
  3) original_firstorder_Maximum>=0.642026 52 71.99402 2.7968030 *
$model list[[5]]$modcoxmodel
Call:
coxph(formula = as.formula(paste("Surv(df train$time, df train$event) ~",
    paste(predict.factors, collapse = "+"))), data = df_train,
    x = TRUE
                                                           coef
original_firstorder_10Percentile
                                                      6.322e+01
original_firstorder_90Percentile
                                                      6.884e+01
original firstorder Energy
                                                     -3.412e+01
original_firstorder_Entropy
                                                     -8.034e+01
original_firstorder_InterquartileRange
                                                     -3.979e+01
original firstorder Kurtosis
                                                     2.634e+00
original firstorder Maximum
                                                     -5.124e+00
original_firstorder_Mean
                                                     -3.032e+02
original_firstorder_MeanAbsoluteDeviation
                                                     -1.298e+02
original_firstorder_Median
                                                      1.501e+02
original_firstorder_Minimum
                                                      7.215e+01
original firstorder Range
                                                      0.000e+00
original_firstorder_RobustMeanAbsoluteDeviation
                                                      8.426e+01
original_firstorder_RootMeanSquared
                                                      2.863e+01
original firstorder Skewness
                                                      2.074e+00
original firstorder TotalEnergy
                                                      0.000e+00
original_firstorder_Uniformity
                                                     -3.348e+01
                                                      8.859e+03
original_firstorder_Variance
original_glcm_Autocorrelation
                                                      1.676e+02
original_glcm_ClusterProminence
                                                      1.967e+03
original_glcm_ClusterShade
                                                      4.137e+02
```

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original_glcm_ClusterTendency	4.225e+01
original_glcm_Contrast	2.141e+03
original_glcm_Correlation	-1.618e+01
original_glcm_DifferenceAverage	6.868e+01
original_glcm_DifferenceEntropy	1.068e+02
original_glcm_DifferenceVariance	-2.440e+03
original_glcm_Id	2.007e+03
original_glcm_Idm	-1.775e+03
original_glcm_Idmn	-4.009e+01
original_glcm_Idn	3.477e+01
original_glcm_Imc1	-3.800e+01
original_glcm_Imc2	-3.272e+01
original_glcm_InverseVariance	1.821e+02
original_glcm_JointAverage	2.667e+01
original_glcm_JointEnergy	-1.777e+01
original_glcm_JointEntropy	-8.015e+01
original_glcm_MCC	7.405e+00
original_glcm_MaximumProbability	2.333e+01
original_glcm_SumAverage	0.000e+00
original_glcm_SumEntropy	3.343e+01
original_glcm_SumSquares	0.000e+00
original_gldm_DependenceEntropy	5.368e+01
original_gldm_DependenceNonUniformity	1.297e+00
original_gldm_DependenceNonUniformityNormalized	5.798e+01
original_gldm_DependenceVariance	-2.094e+01
original_gldm_GrayLevelNonUniformity	2.008e+01
original_gldm_GrayLevelVariance	-9.153e+03
original_gldm_HighGrayLevelEmphasis	-4.651e+02
original_gldm_LargeDependenceEmphasis	1.099e+02
original_gldm_LargeDependenceHighGrayLevelEmphasis	6.853e+01
original_gldm_LargeDependenceLowGrayLevelEmphasis	-2.356e+01
original_gldm_LowGrayLevelEmphasis	-1.587e+02
original_gldm_SmallDependenceEmphasis	-4.191e+01
original gldm SmallDependenceHighGrayLevelEmphasis	5.246e+00
original_gldm_SmallDependenceLowGrayLevelEmphasis	-1.025e+01
original_glrlm_GrayLevelNonUniformity	1.898e+01
original_glrlm_GrayLevelNonUniformityNormalized	2.840e+01
original glrlm GrayLevelVariance	1.508e+02
original_glrlm_HighGrayLevelRunEmphasis	1.571e+02
original_glrlm_LongRunEmphasis	
	-6.435e+01
original_glrlm_LongRunHighGrayLevelEmphasis	-2.627e+01
original_glrlm_LongRunLowGrayLevelEmphasis	-2.723e+01
original_glrlm_LowGrayLevelRunEmphasis	3.349e+02
original_glrlm_RunEntropy	9.480e+01
original_glrlm_RunLengthNonUniformity	9.653e+01
original_glrlm_RunLengthNonUniformityNormalized	-6.732e+01
original_glrlm_RunPercentage	1.877e+02
original_glrlm_RunVariance	4.704e+01
original_glrlm_ShortRunEmphasis	-1.722e+01
original_glrlm_ShortRunHighGrayLevelEmphasis	1.810e+02
original_glrlm_ShortRunLowGrayLevelEmphasis	-1.237e+02
original_glszm_GrayLevelNonUniformity	-2.950e+00
original_glszm_GrayLevelNonUniformityNormalized	2.535e+01
original_glszm_GrayLevelVariance	2.131e+01
original_glszm_HighGrayLevelZoneEmphasis	1.283e+01
original_glszm_LargeAreaEmphasis	-3.400e+01
original_glszm_LargeAreaHighGrayLevelEmphasis	6.183e-01
original_glszm_LargeAreaLowGrayLevelEmphasis	-3.366e+01
original_glszm_LowGrayLevelZoneEmphasis	-3.697e+01
Original pic/m lowgravievel/oneemonacic	- 7 D9/E+VI

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94/2023, 11.31 Simulated ex	camples for the surviv
original_glszm_SizeZoneNonUniformity	1.516e+01
original_glszm_SizeZoneNonUniformityNormalized	-3.533e+01
original_glszm_SmallAreaEmphasis	4.830e+01
original_glszm_SmallAreaHighGrayLevelEmphasis	-3.783e+01
original_glszm_SmallAreaLowGrayLevelEmphasis	1.896e+01
original_glszm_ZoneEntropy	1.690e+01
original_glszm_ZonePercentage	2.247e+00
original_glszm_ZoneVariance	5.110e+01
original_ngtdm_Busyness	7.453e+00
original_ngtdm_Coarseness	-2.686e+00
original_ngtdm_Complexity	-5.706e+00
original_ngtdm_Contrast	3.480e+01
original_ngtdm_Strength	-2.518e+01
original_shape_Elongation	2.060e+01
original_shape_Flatness	-1.766e+01
original_shape_LeastAxisLength	2.723e+01
original_shape_MajorAxisLength	2.472e+01
original_shape_Maximum2DDiameterColumn	-6.372e+00
original_shape_Maximum2DDiameterRow	-3.562e+00
original_shape_Maximum2DDiameterSlice	-1.349e+01
original_shape_Maximum3DDiameter	6.049e+00
original_shape_MeshVolume	3.103e+03
original_shape_MinorAxisLength	-1.773e+01
original_shape_Sphericity	-6.768e-01
original_shape_SurfaceArea	-4.043e+01
original_shape_SurfaceVolumeRatio	7.871e+01
original_shape_VoxelVolume	-3.212e+03
cluster_tree2.796803	1.771e+01
_	exp(coef)
original_firstorder_10Percentile	2.852e+27
original_firstorder_90Percentile	7.886e+29
original_firstorder_Energy	1.523e-15
original_firstorder_Entropy	1.285e-35
original_firstorder_InterquartileRange	5.239e-18
original_firstorder_Kurtosis	1.393e+01
original_firstorder_Maximum	5.953e-03
original_firstorder_Mean	2.015e-132
original_firstorder_MeanAbsoluteDeviation	4.365e-57
original_firstorder_Median	1.537e+65
original_firstorder_Minimum	2.163e+31
original_firstorder_Range	1.000e+00
original_firstorder_RobustMeanAbsoluteDeviation	3.925e+36
original_firstorder_RootMeanSquared	2.714e+12
original_firstorder_Skewness	7.959e+00
original_firstorder_TotalEnergy	1.000e+00
original_firstorder_Uniformity	2.874e-15
original_firstorder_Variance	Inf
original_glcm_Autocorrelation	6.076e+72
original_glcm_ClusterProminence	Inf
original_glcm_ClusterShade	4.545e+179
original_glcm_ClusterTendency	2.223e+18
original_glcm_Contrast	Inf
original_glcm_Correlation	9.387e-08
original_glcm_DifferenceAverage	6.724e+29
original_glcm_DifferenceEntropy	2.347e+46
original_glcm_DifferenceVariance	0.000e+00
original_glcm_Id	Inf
original_glcm_Idm	0.000e+00
original_glcm_Idmn	3.874e-18
· 00	2.37 10 10

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original_glcm_Idn	1.265e+15
original_glcm_Imc1	3.148e-17
original_glcm_Imc2	6.168e-15
original_glcm_InverseVariance	1.260e+79
original_glcm_JointAverage	3.819e+11
original_glcm_JointEnergy	1.925e-08
original_glcm_JointEntropy	1.549e-35
original_glcm_MCC	1.645e+03
original_glcm_MaximumProbability	1.351e+10
original_glcm_SumAverage	1.000e+00
original glcm SumEntropy	3.297e+14
original_glcm_SumSquares	1.000e+00
	2.057e+23
original_gldm_DependenceEntropy	
original_gldm_DependenceNonUniformity	3.659e+00
original_gldm_DependenceNonUniformityNormalized	1.515e+25
original_gldm_DependenceVariance	8.077e-10
original_gldm_GrayLevelNonUniformity	5.249e+08
original_gldm_GrayLevelVariance	0.000e+00
original_gldm_HighGrayLevelEmphasis	1.003e-202
original_gldm_LargeDependenceEmphasis	5.225e+47
original_gldm_LargeDependenceHighGrayLevelEmphasis	5.779e+29
original_gldm_LargeDependenceLowGrayLevelEmphasis	5.836e-11
original_gldm_LowGrayLevelEmphasis	1.158e-69
original_gldm_SmallDependenceEmphasis	6.293e-19
original_gldm_SmallDependenceHighGrayLevelEmphasis	1.898e+02
original_gldm_SmallDependenceLowGrayLevelEmphasis	3.531e-05
original_glrlm_GrayLevelNonUniformity	1.748e+08
original_glrlm_GrayLevelNonUniformityNormalized	2.164e+12
original_glrlm_GrayLevelVariance	3.143e+65
	1.656e+68
original_glrlm_HighGrayLevelRunEmphasis	
original_glrlm_LongRunEmphasis	1.130e-28
original_glrlm_LongRunHighGrayLevelEmphasis	3.899e-12
original_glrlm_LongRunLowGrayLevelEmphasis	1.488e-12
original_glrlm_LowGrayLevelRunEmphasis	2.688e+145
original_glrlm_RunEntropy	1.486e+41
original_glrlm_RunLengthNonUniformity	8.405e+41
original_glrlm_RunLengthNonUniformityNormalized	5.794e-30
original_glrlm_RunPercentage	3.314e+81
original_glrlm_RunVariance	2.694e+20
original_glrlm_ShortRunEmphasis	3.334e-08
original_glrlm_ShortRunHighGrayLevelEmphasis	4.100e+78
original_glrlm_ShortRunLowGrayLevelEmphasis	1.918e-54
original_glszm_GrayLevelNonUniformity	5.236e-02
original_glszm_GrayLevelNonUniformityNormalized	1.020e+11
original_glszm_GrayLevelVariance	1.801e+09
original_glszm_HighGrayLevelZoneEmphasis	3.734e+05
original_glszm_LargeAreaEmphasis	1.720e-15
original_glszm_LargeAreaHighGrayLevelEmphasis	1.856e+00
original_glszm_LargeAreaLowGrayLevelEmphasis	2.407e-15
original_glszm_LowGrayLevelZoneEmphasis	8.817e-17
	3.823e+06
original_glszm_SizeZoneNonUniformity	
original_glszm_SizeZoneNonUniformityNormalized	4.527e-16
	0 E10~+20
original_glszm_SmallAreaEmphasis	9.519e+20
original_glszm_SmallAreaHighGrayLevelEmphasis	3.737e-17
original_glszm_SmallAreaHighGrayLevelEmphasis original_glszm_SmallAreaLowGrayLevelEmphasis	3.737e-17 1.711e+08
<pre>original_glszm_SmallAreaHighGrayLevelEmphasis original_glszm_SmallAreaLowGrayLevelEmphasis original_glszm_ZoneEntropy</pre>	3.737e-17 1.711e+08 2.184e+07
<pre>original_glszm_SmallAreaHighGrayLevelEmphasis original_glszm_SmallAreaLowGrayLevelEmphasis original_glszm_ZoneEntropy original_glszm_ZonePercentage</pre>	3.737e-17 1.711e+08 2.184e+07 9.455e+00
original_glszm_SmallAreaHighGrayLevelEmphasis original_glszm_SmallAreaLowGrayLevelEmphasis original_glszm_ZoneEntropy original_glszm_ZonePercentage original_glszm_ZoneVariance	3.737e-17 1.711e+08 2.184e+07
<pre>original_glszm_SmallAreaHighGrayLevelEmphasis original_glszm_SmallAreaLowGrayLevelEmphasis original_glszm_ZoneEntropy original_glszm_ZonePercentage</pre>	3.737e-17 1.711e+08 2.184e+07 9.455e+00

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	original_ngtdm_Coarseness	6.813e-02
	original_ngtdm_Complexity	3.325e-03
	original_ngtdm_Contrast	1.295e+15
	original_ngtdm_Strength	1.157e-11
	original_shape_Elongation	8.836e+08
	original_shape_Flatness	2.145e-08
	original_shape_LeastAxisLength	6.712e+11
	original_shape_MajorAxisLength	5.415e+10
	original_shape_Maximum2DDiameterColumn	1.708e-03
	original_shape_Maximum2DDiameterRow	2.838e-02
	original shape Maximum2DDiameterSlice	1.382e-06
	9	
	original_shape_Maximum3DDiameter	4.238e+02
	original_shape_MeshVolume	Inf
	original_shape_MinorAxisLength	1.996e-08
	original_shape_Sphericity	5.083e-01
	original_shape_SurfaceArea	2.764e-18
	original_shape_SurfaceVolumeRatio	1.531e+34
	original_shape_VoxelVolume	0.000e+00
	cluster_tree2.796803	4.925e+07
	cluster_treez.750005	
		se(coef)
	original_firstorder_10Percentile	3.163e-01
	original_firstorder_90Percentile	8.797e-02
	original_firstorder_Energy	1.721e-01
	original_firstorder_Entropy	1.285e-01
	original_firstorder_InterquartileRange	1.403e-01
	original_firstorder_Kurtosis	1.287e-01
	original_firstorder_Maximum	1.390e-01
	-	1.680e-01
	original_firstorder_Mean	
	original_firstorder_MeanAbsoluteDeviation	1.707e-01
	original_firstorder_Median	1.458e-01
	original_firstorder_Minimum	1.518e-01
	original_firstorder_Range	1.475e-01
	original_firstorder_RobustMeanAbsoluteDeviation	1.483e-01
	original_firstorder_RootMeanSquared	1.676e-01
	original_firstorder_Skewness	1.147e-01
	original firstorder TotalEnergy	1.721e-01
	original_firstorder_Uniformity	1.210e-01
	original_firstorder_Variance	3.682e-01
	original_glcm_Autocorrelation	1.455e-01
	original_glcm_ClusterProminence	6.212e+00
	original_glcm_ClusterShade	1.071e+00
	original_glcm_ClusterTendency	3.742e-01
	original_glcm_Contrast	8.247e-01
	original_glcm_Correlation	1.508e-01
	original_glcm_DifferenceAverage	1.463e-01
	original_glcm_DifferenceEntropy	1.305e-01
	original_glcm_DifferenceVariance	1.096e+00
	original_glcm_Id	1.187e-01
	original_glcm_Idm	1.194e-01
	original_glcm_Idmn	1.647e-01
	original_glcm_Idn	1.363e-01
	original_glcm_Imc1	1.361e-01
	original_glcm_Imc2	1.670e-01
	original_glcm_InverseVariance	1.129e-01
	original_glcm_JointAverage	1.450e-01
	original_glcm_JointEnergy	1.058e-01
	original_glcm_JointEntropy	1.221e-01
	original_glcm_MCC	1.766e-01
	original_glcm_MaximumProbability	1.194e-01

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original_glcm_SumAverage	1.450e-01
original_glcm_SumEntropy	1.273e-01
original_glcm_SumSquares	4.235e-01
original_gldm_DependenceEntropy	1.126e-01
original_gldm_DependenceNonUniformity	8.406e-02
original_gldm_DependenceNonUniformityNormalized	9.531e-02
original_gldm_DependenceVariance	1.468e-01
original_gldm_GrayLevelNonUniformity	9.809e-02
original_gldm_GrayLevelVariance	3.680e-01
original_gldm_HighGrayLevelEmphasis	1.457e-01
original_gldm_LargeDependenceEmphasis	1.542e-01
original_gldm_LargeDependenceHighGrayLevelEmphasis	1.298e-01
original_gldm_LargeDependenceLowGrayLevelEmphasis	4.088e-01
original_gldm_LowGrayLevelEmphasis	1.139e-01
original_gldm_SmallDependenceEmphasis	1.490e-01
original_gldm_SmallDependenceHighGrayLevelEmphasis	1.336e-01
original_gldm_SmallDependenceLowGrayLevelEmphasis	1.150e-01
original_glrlm_GrayLevelNonUniformity	8.923e-02
original_glrlm_GrayLevelNonUniformityNormalized	1.178e-01
original_glrlm_GrayLevelVariance	3.313e-01
original_glrlm_HighGrayLevelRunEmphasis	1.455e-01
original_glrlm_LongRunEmphasis	8.414e-02
original_glrlm_LongRunHighGrayLevelEmphasis	1.062e-01
original_glrlm_LongRunLowGrayLevelEmphasis	2.612e-01
original_glrlm_LowGrayLevelRunEmphasis	1.155e-01
original_glrlm_RunEntropy	1.270e-01
original_glrlm_RunLengthNonUniformity	1.003e-01
original_glrlm_RunLengthNonUniformityNormalized	1.451e-01
original_glrlm_RunPercentage	1.497e-01
original_glrlm_RunVariance	7.836e-02
original_glrlm_ShortRunEmphasis	1.499e-01
original_glrlm_ShortRunHighGrayLevelEmphasis	1.472e-01
original_glrlm_ShortRunLowGrayLevelEmphasis	1.029e-01
original_glszm_GrayLevelNonUniformity	1.041e-01
original_glszm_GrayLevelNonUniformityNormalized	1.588e-01
original_glszm_GrayLevelVariance	1.949e-01
original_glszm_HighGrayLevelZoneEmphasis	1.492e-01
original_glszm_LargeAreaEmphasis	1.093e-01
original_glszm_LargeAreaHighGrayLevelEmphasis	8.947e-02
original_glszm_LargeAreaLowGrayLevelEmphasis	4.566e-01
<pre>original_glszm_LowGrayLevelZoneEmphasis original_glszm_SizeZoneNonUniformity</pre>	1.565e-01 1.172e-01
original glszm SizeZoneNonUniformityNormalized	1.400e-01
original_glszm_SmallAreaEmphasis	1.400e-01 1.296e-01
original_glszm_SmallAreaHighGrayLevelEmphasis	1.510e-01
original_glszm_SmallAreaLowGrayLevelEmphasis	1.793e-01
original_glszm_ZoneEntropy	1.755e-01 1.556e-01
original_glszm_ZonePercentage	1.469e-01
original_glszm_ZoneVariance	1.092e-01
original_ngtdm_Busyness	3.332e-01
original_ngtdm_Coarseness	9.703e-02
original_ngtdm_Complexity	1.944e-01
original_ngtdm_Contrast	4.851e-01
original_ngtdm_Strength	2.870e-01
original_shape_Elongation	1.456e-01
original_shape_Flatness	1.510e-01
original_shape_LeastAxisLength	1.201e-01
original_shape_MajorAxisLength	1.196e-01
original_shape_Maximum2DDiameterColumn	1.164e-01
J	

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original_shape_Maximum2DDiameterRow	1.231e-01
original_shape_Maximum2DDiameterSlice	1.248e-01
original_shape_Maximum3DDiameter	1.119e-01
original_shape_MeshVolume	9.747e-02
original_shape_MinorAxisLength	1.214e-01
original_shape_Sphericity	1.584e-01
original_shape_SurfaceArea	1.008e-01
original_shape_SurfaceVolumeRatio	1.378e-01
	9.756e-02
original_shape_VoxelVolume	
cluster_tree2.796803	3.256e-01
	Z
original_firstorder_10Percentile	199.841
original_firstorder_90Percentile	782.507
original_firstorder_Energy	-198.302
original_firstorder_Entropy	-625.307
original_firstorder_InterquartileRange	-283.564
original_firstorder_Kurtosis	20.472
original_firstorder_Maximum	-36.869
original_firstorder_Mean	-1805.212
original_firstorder_MeanAbsoluteDeviation	-760.314
original_firstorder_Median	1029.547
original firstorder Minimum	475.457
original_firstorder_Range	0.000
original_firstorder_RobustMeanAbsoluteDeviation	568.044
original_firstorder_RootMeanSquared	170.793
original_firstorder_Skewness	18.078
original_firstorder_TotalEnergy	0.000
original_firstorder_Uniformity	-276.693
original_firstorder_Variance	24058.628
original_glcm_Autocorrelation	1151.969
original_glcm_ClusterProminence	316.585
original_glcm_ClusterShade	386.118
original_glcm_ClusterTendency	112.909
original_glcm_Contrast	2596.451
original_glcm_Correlation	-107.278
original_glcm_DifferenceAverage	469.301
original_glcm_DifferenceEntropy	817.894
original glcm DifferenceVariance	-2225.689
original_glcm_Id	16909.404
original_glcm_Idm	-14867.940
original_glcm_Idmn	-243.479
original_glcm_Idn	255.133
original_glcm_Imc1	-279.100
original_glcm_Imc2	-195.880
original_glcm_InverseVariance	1612.585
original_glcm_JointAverage	183.973
original_glcm_JointEnergy	-167.983
original_glcm_JointEntropy	-656.251
original_glcm_MCC	41.940
original_glcm_MaximumProbability	195.334
original_glcm_SumAverage	0.000
original_glcm_SumEntropy	262.621
original_glcm_SumSquares	0.000
original_gldm_DependenceEntropy	476.589
original_gldm_DependenceNonUniformity	15.433
original_gldm_DependenceNonUniformityNormalized	608.341
original_gldm_DependenceVariance	-142.655
original_gldm_GrayLevelNonUniformity	204.690
original_gldm_GrayLevelVariance	-24873.481

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original_gldm_HighGrayLevelEmphasis	-3191.214
	712.488
<pre>original_gldm_LargeDependenceEmphasis original_gldm_LargeDependenceHighGrayLevelEmphasis</pre>	
	527.937
original_gldm_LargeDependenceLowGrayLevelEmphasis	-57.644
original_gldm_LowGrayLevelEmphasis	-1393.013
original_gldm_SmallDependenceEmphasis	-281.357
original_gldm_SmallDependenceHighGrayLevelEmphasis	39.255
original_gldm_SmallDependenceLowGrayLevelEmphasis	-89.115
original_glrlm_GrayLevelNonUniformity	212.690
original_glrlm_GrayLevelNonUniformityNormalized	241.059
original_glrlm_GrayLevelVariance	455.160
original_glrlm_HighGrayLevelRunEmphasis	1079.650
original_glrlm_LongRunEmphasis	-764.823
original_glrlm_LongRunHighGrayLevelEmphasis	-247.385
original_glrlm_LongRunLowGrayLevelEmphasis	-104.245
original_glrlm_LowGrayLevelRunEmphasis	2898.994
original_glrlm_RunEntropy	746.181
original_glrlm_RunLengthNonUniformity	962.780
original_glrlm_RunLengthNonUniformityNormalized	-464.045
original glrlm RunPercentage	1253.692
original_glrlm_RunVariance	600.347
original_glrlm_ShortRunEmphasis	-114.889
original_glrlm_ShortRunHighGrayLevelEmphasis	1229.856
	-1201.475
original_glrlm_ShortRunLowGrayLevelEmphasis	
original_glszm_GrayLevelNonUniformity	-28.347
original_glszm_GrayLevelNonUniformityNormalized	159.586
original_glszm_GrayLevelVariance	109.361
original_glszm_HighGrayLevelZoneEmphasis	86.003
original_glszm_LargeAreaEmphasis	-310.994
original_glszm_LargeAreaHighGrayLevelEmphasis	6.911
original_glszm_LargeAreaLowGrayLevelEmphasis	-73.725
original_glszm_LowGrayLevelZoneEmphasis	-236.236
original_glszm_SizeZoneNonUniformity	129.354
original_glszm_SizeZoneNonUniformityNormalized	-252.450
original_glszm_SmallAreaEmphasis	372.618
original_glszm_SmallAreaHighGrayLevelEmphasis	-250.537
original_glszm_SmallAreaLowGrayLevelEmphasis	105.754
original_glszm_ZoneEntropy	108.622
original_glszm_ZonePercentage	15.298
original_glszm_ZoneVariance	468.096
original_ngtdm_Busyness	22.370
original_ngtdm_Coarseness	-27.685
original_ngtdm_Complexity	-29.349
original_ngtdm_Contrast	71.730
original_ngtdm_Strength	-87.738
original_shape_Elongation	141.438
original_shape_Flatness	-116.965
original_shape_LeastAxisLength	226.720
original_shape_MajorAxisLength	206.690
original_shape_Maximum2DDiameterColumn	-54.761
original_shape_Maximum2DDiameterRow	-28.931
original_shape_Maximum2DDiameterKow original_shape_Maximum2DDiameterSlice	-108.069
	54.041
original_shape_Maximum3DDiameter	
original_shape_MeshVolume	31835.199
original_shape_MinorAxisLength	-146.020
original_shape_Sphericity	-4.272
original_shape_SurfaceArea	-401.184
original_shape_SurfaceVolumeRatio	571.074
original_shape_VoxelVolume	-32922.444

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1	Official Country of	
cluster_tree2.796803		54.402
		р
original_firstorder_10Percentile	<	2e-16
original_firstorder_90Percentile	<	2e-16
original_firstorder_Energy	<	2e-16
original_firstorder_Entropy	<	2e-16
original_firstorder_InterquartileRange	<	2e-16
original_firstorder_Kurtosis	<	2e-16
original_firstorder_Maximum	<	2e-16
original_firstorder_Mean	<	2e-16
original_firstorder_MeanAbsoluteDeviati	on <	2e-16
original_firstorder_Median		2e-16
original_firstorder_Minimum		2e-16
original_firstorder_Range	·	1
original_firstorder_RobustMeanAbsoluteD	eviation (2e-16
original_firstorder_RootMeanSquared		2e-16
original_firstorder_Skewness		2e-16
original_firstorder_TotalEnergy	`	1
	,	_
original_firstorder_Uniformity		2e-16
original_firstorder_Variance		2e-16
original_glcm_Autocorrelation		2e-16
original_glcm_ClusterProminence		2e-16
original_glcm_ClusterShade	<	2e-16
original_glcm_ClusterTendency	<	2e-16
original_glcm_Contrast	<	2e-16
original_glcm_Correlation	<	2e-16
original_glcm_DifferenceAverage	<	2e-16
original_glcm_DifferenceEntropy	<	2e-16
original_glcm_DifferenceVariance	<	2e-16
original_glcm_Id	<	2e-16
original_glcm_Idm	<	2e-16
original_glcm_Idmn	<	2e-16
original_glcm_Idn	<	2e-16
original_glcm_Imc1	<	2e-16
original_glcm_Imc2	<	2e-16
original_glcm_InverseVariance		2e-16
original_glcm_JointAverage		2e-16
original_glcm_JointEnergy		2e-16
original_glcm_JointEntropy		2e-16
original_glcm_MCC		2e-16
original_glcm_MaximumProbability		2e-16 2e-16
	`	1
original_glcm_SumAverage		
original_glcm_SumEntropy	<	2e-16
original_glcm_SumSquares		1
original_gldm_DependenceEntropy		2e-16
original_gldm_DependenceNonUniformity		2e-16
original_gldm_DependenceNonUniformityNo		2e-16
original_gldm_DependenceVariance		2e-16
original_gldm_GrayLevelNonUniformity	<	2e-16
original_gldm_GrayLevelVariance	<	2e-16
original_gldm_HighGrayLevelEmphasis	<	2e-16
original_gldm_LargeDependenceEmphasis	<	2e-16
original_gldm_LargeDependenceHighGrayLe	velEmphasis <	2e-16
original_gldm_LargeDependenceLowGrayLev	elEmphasis <	2e-16
original_gldm_LowGrayLevelEmphasis	<	2e-16
original_gldm_SmallDependenceEmphasis		2e-16
original_gldm_SmallDependenceHighGrayLe		2e-16
original_gldm_SmallDependenceLowGrayLev		2e-16
original_glrlm_GrayLevelNonUniformity		2e-16
	`	- -

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original_glrlm_GrayLevelNonUniformityNormalized	< 2e-16
original_glrlm_GrayLevelVariance	< 2e-16
original_glrlm_HighGrayLevelRunEmphasis	< 2e-16
original_glrlm_LongRunEmphasis	< 2e-16
original_glrlm_LongRunHighGrayLevelEmphasis	< 2e-16
original_glrlm_LongRunLowGrayLevelEmphasis	< 2e-16
original_glrlm_LowGrayLevelRunEmphasis	< 2e-16
original_glrlm_RunEntropy	< 2e-16
original_glrlm_RunLengthNonUniformity	< 2e-16
original_glrlm_RunLengthNonUniformityNormalized	< 2e-16
original_glrlm_RunPercentage	< 2e-16
original_glrlm_RunVariance	< 2e-16
original_glrlm_ShortRunEmphasis	< 2e-16
original_glrlm_ShortRunHighGrayLevelEmphasis	< 2e-16
original_glrlm_ShortRunLowGrayLevelEmphasis	< 2e-16
original_glszm_GrayLevelNonUniformity	< 2e-16
original_glszm_GrayLevelNonUniformityNormalized	< 2e-16
original_glszm_GrayLevelVariance	< 2e-16
original_glszm_HighGrayLevelZoneEmphasis	< 2e-16
original_glszm_LargeAreaEmphasis	< 2e-16
original_glszm_LargeAreaHighGrayLevelEmphasis	4.80e-12
original_glszm_LargeAreaLowGrayLevelEmphasis	< 2e-16
original_glszm_LowGrayLevelZoneEmphasis	< 2e-16
original_glszm_SizeZoneNonUniformity	< 2e-16
original_glszm_SizeZoneNonUniformityNormalized	< 2e-16
original_glszm_SmallAreaEmphasis	< 2e-16
original_glszm_SmallAreaHighGrayLevelEmphasis	< 2e-16
original_glszm_SmallAreaLowGrayLevelEmphasis	< 2e-16
original_glszm_ZoneEntropy	< 2e-16
original_glszm_ZonePercentage	< 2e-16
original_glszm_ZoneVariance	< 2e-16
original_ngtdm_Busyness	< 2e-16
original_ngtdm_Coarseness	< 2e-16
original_ngtdm_Complexity	< 2e-16
original_ngtdm_Contrast	< 2e-16
original ngtdm Strength	< 2e-16
original_shape_Elongation	< 2e-16
original_shape_Flatness	< 2e-16
original_shape_LeastAxisLength	< 2e-16
original shape MajorAxisLength	< 2e-16
original_shape_Maximum2DDiameterColumn	< 2e-16
original_shape_Maximum2DDiameterRow	< 2e-16
original_shape_Maximum2DDiameterSlice	< 2e-16
original_shape_Maximum3DDiameter	< 2e-16
original_shape_MeshVolume	< 2e-16
original_shape_MinorAxisLength	< 2e-16
original_shape_Sphericity	1.94e-05
original_shape_SurfaceArea	< 2e-16
	< 2e-16
original_shape_SurfaceVolumeRatio	
original_shape_VoxelVolume	< 2e-16
cluster_tree2.796803	< 2e-16

Likelihood ratio test=271.9 on 108 df, p=4.105e-16 n= 361, number of events= 47

\$model_list[[5]]\$clusters
[1] 0.710791 2.796803

127.0.0.1:6523 52/53

\$time

Time difference of 7.570593 secs

127.0.0.1:6523 53/53