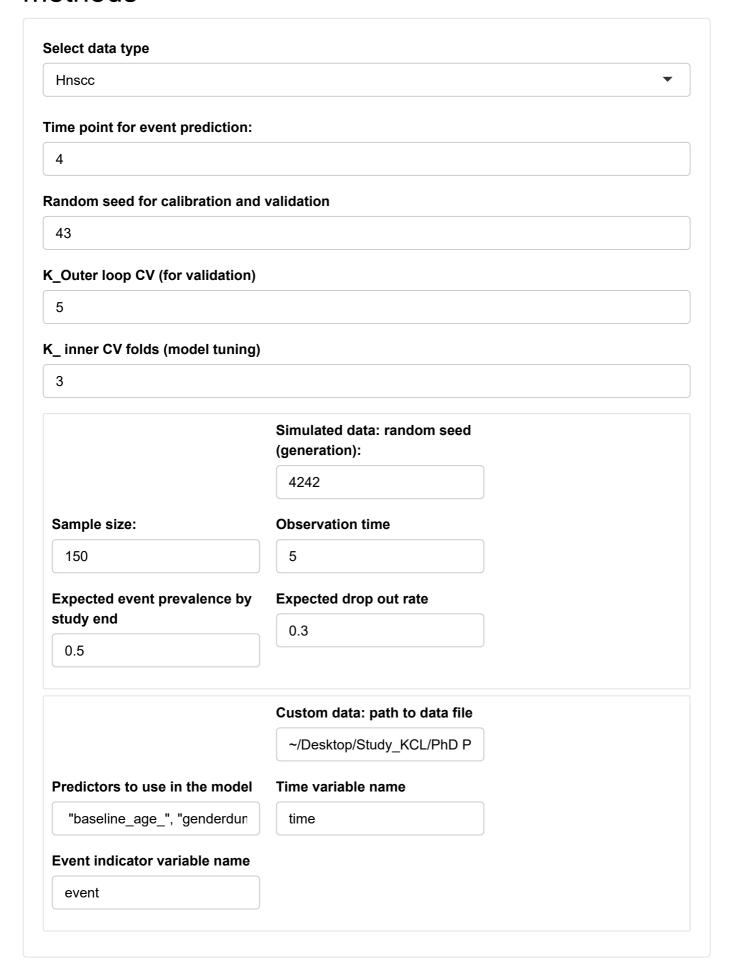
## Simulated examples for the survival ensemble methods



Showing 1 to 5 of 5 entries

1

Next

Previous

**SRF** Sample statistics CoxPH Ens1: CoxPH->SRF Ens2: CoxPH in clusters Ens3: extended CoxPH Summary Conclusions Internally cross-validated results: Show 10 entries Search: AUCROC \$ BS 🛊 BS\_scaled \$ C\_score \$ Calib\_slope \$ Calib\_alpha T ‡ test 0.7118 0.1069 -0.005 0.7102 0.6989 -0.0011 4 train 0.9469 0.0692 0.3717 0.9253 2.9368 -0.0006 4 Showing 1 to 2 of 2 entries Previous 1 Next Internally cross-validated Test results for each CV fold: Show 10 ✓ entries Search: **AUCROC** \$ BS 🛊 BS\_scaled \$ C\_score \$ Calib\_slope \$ Calib\_alpha T ‡ test.1 0.5905 0.1088 -0.3367 0.5902 0.2476 -0.0631 4 test.2 0.7549 0.129 0.1259 0.7666 0.9167 0.0574 4 test.3 0.0882 -0.048 0.6799 0.6677 0.6552 -0.0412 4 test.4 0.6632 0.1386 0.0061 0.6623 0.4145 0.0576 4 test.5 0.8705 0.0701 0.2277 0.8641 1.2606 -0.0162 4

127.0.0.1:6523 2/60

```
$test
 Τ
      AUCROC
                     BS
                         BS_scaled
                                     C_score
1 4 0.5905166 0.10877451 -0.33667366 0.5902367
2 4 0.7548643 0.12900165 0.12586280 0.7666406
3 4 0.6799292 0.08823248 -0.04799256 0.6676558
4 4 0.6631751 0.13862847 0.00609599 0.6623058
5 4 0.8704792 0.07007665 0.22772943 0.8640646
 Calib_slope Calib_alpha test cv_n
  0.2475892 -0.06308874
2
   0.9166935 0.05742628
                                2
3 0.6552252 -0.04118887 1 3
   0.4144596 0.05760361
4
  1.2605953 -0.01623409 1
                                5
$train
 Т
      AUCROC
                     BS BS scaled
                                  C_score Calib_slope
1 4 0.9660783 0.06460099 0.4480782 0.9423697
                                              3.216513
2 4 0.9483360 0.06648426 0.3352217 0.9232035
                                              3.137923
3 4 0.9227046 0.07939590 0.3218427 0.9067214 2.447274
4 4 0.9396541 0.06755440 0.3424735 0.9213343
                                              2.625905
5 4 0.9578064 0.06773626 0.4109068 0.9330769
                                              3.256377
   Calib_alpha test cv_n
1 3.778974e-04
2 -3.303157e-04
                  0
                       2
3 2.997809e-04
                    3
4 -7.725002e-05
                    4
5 -3.290216e-03
                       5
$testaverage
          Т
                  AUCROC
                                  BS
                                        BS_scaled
4.000000000 0.711792884 0.106942754 -0.004995600
    C_score Calib_slope Calib_alpha
0.710180689 0.698912573 -0.001096362 1.0000000000
$trainaverage
                    AUCROC
                                     BS
                                            BS scaled
4.000000000 0.9469158677 0.0691543600 0.3717045699
     C score
              Calib_slope Calib_alpha
                                                 test
 0.9253411470 2.9367984833 -0.0006040206 0.00000000000
$model list
$model_list[[1]]
$model_list[[1]]$beststats
  mtry nodesize nodedepth time
                                 AUCROC
                                                BS
                       50 3.3 0.8220357 0.08680423
٧1
   11
             20
  BS scaled C score Calib alpha Calib slope
V1 0.1250119 0.745782 -0.008807957
                                  0.8694262
$model_list[[1]]$allstats
   mtry nodesize nodedepth time
                                  AUCROC
                                                 BS
V1
     10
              15
                        50 3.3 0.8083523 0.08883880
V2
     10
              20
                        50 3.3 0.8123318 0.08729399
V3
     10
              25
                       50 3.3 0.8082856 0.08681142
V4
     10
              30
                       50 3.3 0.8096172 0.08663047
                        50 3.3 0.8094069 0.08677113
V5
              35
     10
```

127.0.0.1:6523 3/60

50 3.3 0.8220357 0.08680423

11

20

```
22
               20
                         50 3.3 0.8014444 0.08974442
V21
V31
      36
               20
                         50 3.3 0.8122277 0.08939880
V41
      54
               20
                         50 3.3 0.8046262 0.08981925
V51
      10
               20
                         50 3.3 0.8123318 0.08729399
     BS scaled C score Calib alpha Calib slope
V1 0.10450340 0.7402528 -0.010261421
                                       0.7754972
V2 0.12007514 0.7429384 -0.009483774
                                        0.8409266
V3 0.12493945 0.7425592 -0.007675700
                                        0.8580647
V4 0.12676339 0.7447709 -0.006789916
                                       0.9005745
V5 0.12534558 0.7431912 -0.006029159
                                        0.9402966
V11 0.12501190 0.7457820 -0.008807957
                                       0.8694262
V21 0.09537473 0.7376935 -0.008590484
                                        0.6870285
V31 0.09885857 0.7443918 -0.012429789
                                       0.7018777
V41 0.09462043 0.7397156 -0.011901157
                                        0.6197212
V51 0.12007514 0.7429384 -0.009483774
                                        0.8409266
$model_list[[1]]$model
                         Sample size: 361
                    Number of deaths: 48
                     Number of trees: 500
           Forest terminal node size: 20
       Average no. of terminal nodes: 12.642
No. of variables tried at each split: 11
              Total no. of variables: 108
       Resampling used to grow trees: swor
    Resample size used to grow trees: 228
                            Analysis: RSF
                              Family: surv
                      Splitting rule: logrank *random*
       Number of random split points: 50
                          (OOB) CRPS: 0.05999152
   (OOB) Requested performance error: 0.2417388
$model_list[[1]]$vimp10
                       original_firstorder_Maximum
                                       0.020063148
            original glrlm LowGrayLevelRunEmphasis
                                       0.012454555
                         original_firstorder_Range
                                       0.011697771
                original_gldm_LowGrayLevelEmphasis
                                       0.009955530
                  original_glszm_GrayLevelVariance
                                       0.009589150
                  original_shape_Maximum3DDiameter
                                       0.008675532
            original_shape_Maximum2DDiameterColumn
                                       0.006707465
                        original_glcm_JointAverage
                                       0.006533272
       original_glrlm_ShortRunLowGrayLevelEmphasis
                                       0.006473195
original_gldm_LargeDependenceHighGrayLevelEmphasis
                                       0.004391876
```

127.0.0.1:6523 4/60

```
original_glszm_SmallAreaLowGrayLevelEmphasis
                                        0.004087989
              original_glszm_SizeZoneNonUniformity
                                       0.004085494
        original_glrlm_LongRunLowGrayLevelEmphasis
                                       0.004037348
       original_glrlm_LongRunHighGrayLevelEmphasis
                                       0.003898970
                         original_ngtdm_Complexity
                                       0.003850995
$model_list[[1]]$model_base
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
                                                      5.900e+00
original_firstorder_90Percentile
                                                      4.949e+00
original firstorder Energy
                                                     -1.118e+01
original firstorder Entropy
                                                     -4.575e+01
original_firstorder_InterquartileRange
                                                      2.820e+01
original_firstorder_Kurtosis
                                                      4.147e-01
original firstorder Maximum
                                                     -1.606e+00
original_firstorder_Mean
                                                     -3.615e+01
original_firstorder_MeanAbsoluteDeviation
                                                      2.947e+01
original firstorder Median
                                                      2.460e+01
original_firstorder_Minimum
                                                      1.549e+01
original_firstorder_Range
                                                      0.000e+00
original_firstorder_RobustMeanAbsoluteDeviation
                                                     -3.551e+01
original_firstorder_RootMeanSquared
                                                     -5.487e+00
original_firstorder_Skewness
                                                     -1.059e+00
original_firstorder_TotalEnergy
                                                      0.000e+00
original_firstorder_Uniformity
                                                     -2.321e+01
                                                      5.227e+02
original_firstorder_Variance
                                                     -2.789e+01
original_glcm_Autocorrelation
original_glcm_ClusterProminence
                                                      1.751e+02
original_glcm_ClusterShade
                                                      3.754e+01
original_glcm_ClusterTendency
                                                      2.709e+00
original_glcm_Contrast
                                                      4.003e+02
original_glcm_Correlation
                                                     -3.557e+00
original_glcm_DifferenceAverage
                                                      1.237e+02
original_glcm_DifferenceEntropy
                                                      1.919e+01
original_glcm_DifferenceVariance
                                                     -6.298e+02
                                                      1.127e+03
original glcm Id
                                                     -1.009e+03
original glcm Idm
original glcm Idmn
                                                     -1.472e+01
original_glcm_Idn
                                                      1.349e+01
original glcm Imc1
                                                     -1.363e+00
original glcm Imc2
                                                     -5.296e+00
original glcm InverseVariance
                                                      1.057e+02
original_glcm_JointAverage
                                                      2.005e+00
original glcm JointEnergy
                                                      8.888e+00
original_glcm_JointEntropy
                                                     -1.898e+01
original_glcm_MCC
                                                      1.841e-01
```

127.0.0.1:6523 5/60

original_glcm_MaximumProbability	6.502e+00
original_glcm_SumAverage	0.000e+00
original_glcm_SumEntropy	6.840e+00
original_glcm_SumSquares	0.000e+00
original_gldm_DependenceEntropy	1.102e+01
original_gldm_DependenceNonUniformity	2.976e+00
original_gldm_DependenceNonUniformityNormalized	2.534e+00
original_gldm_DependenceVariance	-5.650e+00
original_gldm_GrayLevelNonUniformity	-1.194e+01
original_gldm_GrayLevelVariance	-5.953e+02
original_gldm_HighGrayLevelEmphasis	-2.024e+02
original_gldm_LargeDependenceEmphasis	-6.959e+01
original_gldm_LargeDependenceHighGrayLevelEmphasis	3.262e+01
original_gldm_LargeDependenceLowGrayLevelEmphasis	2.998e+01
original_gldm_LowGrayLevelEmphasis	3.422e+01
original_gldm_SmallDependenceEmphasis	2.022e+01
original_gldm_SmallDependenceHighGrayLevelEmphasis	-2.166e+00
original_gldm_SmallDependenceLowGrayLevelEmphasis	-6.334e+00
original_glrlm_GrayLevelNonUniformity	9.682e+00
original_glrlm_GrayLevelNonUniformityNormalized	2.834e+00
original_glrlm_GrayLevelVariance	4.383e+01
original_glrlm_HighGrayLevelRunEmphasis	1.324e+02
original_glrlm_LongRunEmphasis	4.595e+00
original_glrlm_LongRunHighGrayLevelEmphasis	-2.081e+00
original_glrlm_LongRunLowGrayLevelEmphasis	-4.287e+00
original_glrlm_LowGrayLevelRunEmphasis	-1.628e+02
original_glrlm_RunEntropy	4.339e+01
original_glrlm_RunLengthNonUniformity	8.819e+00
original_glrlm_RunLengthNonUniformityNormalized	3.858e+01
original_glrlm_RunPercentage	-8.684e+01
original_glrlm_RunVariance	-3.316e+00
original_glrlm_ShortRunEmphasis	-4.608e+01
original_glrlm_ShortRunHighGrayLevelEmphasis	9.602e+01
original_glrlm_ShortRunLowGrayLevelEmphasis	1.222e+02
original_glszm_GrayLevelNonUniformity	-1.559e+00
original_glszm_GrayLevelNonUniformityNormalized	4.500e+00
original_glszm_GrayLevelVariance	2.580e+00
original_glszm_HighGrayLevelZoneEmphasis	-1.450e+01
original_glszm_LargeAreaEmphasis	-1.214e+03
original_glszm_LargeAreaHighGrayLevelEmphasis	-6.876e-01
original_glszm_LargeAreaLowGrayLevelEmphasis	3.585e+00
original_glszm_LowGrayLevelZoneEmphasis	-1.232e+01
original_glszm_SizeZoneNonUniformity	5.390e+00
original_glszm_SizeZoneNonUniformityNormalized	-1.828e+01
original_glszm_SmallAreaEmphasis	1.501e+01
original_glszm_SmallAreaHighGrayLevelEmphasis	1.100e+01
original_glszm_SmallAreaLowGrayLevelEmphasis	6.324e+00
original_glszm_ZoneEntropy	7.657e-01
original_glszm_ZonePercentage	-3.354e+01
original_glszm_ZoneVariance	1.215e+03
original_ngtdm_Busyness	-1.236e+00
original_ngtdm_Coarseness	1.501e+00
original_ngtdm_Complexity	9.600e-01
original_ngtdm_Contrast	-1.271e+01
original_ngtdm_Contrast original_ngtdm_Strength	4.916e-01
original_shape_Elongation	3.230e+00
or 1811191 31196 - 1101189 (1011	J. 230ET00

127.0.0.1:6523 6/60

,	4/2023, 11.30 Simulated	examples for the survival en
	original_shape_Flatness	-3.087e+00
	original_shape_LeastAxisLength	5.996e+00
	original_shape_MajorAxisLength	3.788e+00
	original_shape_Maximum2DDiameterColumn	-3.271e+00
	original_shape_Maximum2DDiameterRow	-9.269e-01
	original_shape_Maximum2DDiameterSlice	-2.307e+00
	original_shape_Maximum3DDiameter	4.511e+00
	original_shape_MeshVolume	1.887e+02
	original_shape_MinorAxisLength	-3.470e+00
	original_shape_Sphericity	5.975e-01
	original_shape_SurfaceArea	-7.510e+00
		7.590e+01
	original_shape_SurfaceVolumeRatio	
	original_shape_VoxelVolume	-1.938e+02
		exp(coef)
	original_firstorder_10Percentile	3.651e+02
	original_firstorder_90Percentile	1.410e+02
	original_firstorder_Energy	1.401e-05
	original_firstorder_Entropy	1.355e-20
	original_firstorder_InterquartileRange	1.765e+12
	original_firstorder_Kurtosis	1.514e+00
	original_firstorder_Maximum	2.007e-01
	original_firstorder_Mean	1.997e-16
	original_firstorder_MeanAbsoluteDeviation	6.305e+12
	original_firstorder_Median	4.820e+10
	original_firstorder_Minimum	5.344e+06
	original_firstorder_Range	1.000e+00
	original_firstorder_RobustMeanAbsoluteDeviat	
	original_firstorder_RootMeanSquared	4.141e-03
	original_firstorder_Skewness	3.468e-01
	original_firstorder_TotalEnergy	1.000e+00
	original_firstorder_Uniformity	8.296e-11
	original_firstorder_Variance	1.030e+227
	original_glcm_Autocorrelation	7.743e-13
	original_glcm_ClusterProminence	1.056e+76
	original_glcm_ClusterShade	2.014e+16
	original_glcm_ClusterTendency	1.502e+01
	original_glcm_Contrast	6.848e+173
	original_glcm_Correlation	2.853e-02
	original_glcm_DifferenceAverage	5.296e+53
	original_glcm_DifferenceEntropy	2.164e+08
	<pre>original_glcm_DifferenceVariance</pre>	3.174e-274
	original_glcm_Id	Inf
	original_glcm_Idm	0.000e+00
	original_glcm_Idmn	4.034e-07
	original_glcm_Idn	7.243e+05
	original_glcm_Imc1	2.559e-01
	original_glcm_Imc2	5.014e-03
	original_glcm_InverseVariance	7.703e+45
	original_glcm_JointAverage	7.423e+00
	original_glcm_JointEnergy	7.246e+03
	·	
	original_glcm_JointEntropy	5.709e-09
	original_glcm_MCC	1.202e+00
	original_glcm_MaximumProbability	6.668e+02
	original_glcm_SumAverage	1.000e+00
	original_glcm_SumEntropy	9.343e+02
	original_glcm_SumSquares	1.000e+00
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127.0.0.1:6523 7/60

94/2025, 11.50 Simulated examples	ioi ille survivai en
original_gldm_DependenceEntropy	6.106e+04
original_gldm_DependenceNonUniformity	1.960e+01
original_gldm_DependenceNonUniformityNormalized	1.260e+01
original_gldm_DependenceVariance	3.516e-03
original_gldm_GrayLevelNonUniformity	6.523e-06
original_gldm_GrayLevelVariance	2.856e-259
original_gldm_HighGrayLevelEmphasis	1.198e-88
original_gldm_LargeDependenceEmphasis	6.011e-31
original_gldm_LargeDependenceHighGrayLevelEmphasis	1.462e+14
original_gldm_LargeDependenceLowGrayLevelEmphasis	1.043e+13
original_gldm_LowGrayLevelEmphasis	7.303e+14
original_gldm_SmallDependenceEmphasis	6.028e+08
original_gldm_SmallDependenceHighGrayLevelEmphasis	1.147e-01
original_gldm_SmallDependenceLowGrayLevelEmphasis	1.775e-03
original_glrlm_GrayLevelNonUniformity	1.603e+04
original_glrlm_GrayLevelNonUniformityNormalized	1.701e+01
original_glrlm_GrayLevelVariance	1.088e+19
original_glrlm_HighGrayLevelRunEmphasis	3.297e+57
original_glrlm_LongRunEmphasis	9.895e+01
original_glrlm_LongRunHighGrayLevelEmphasis	1.248e-01
original_glrlm_LongRunLowGrayLevelEmphasis	1.374e-01
original_glrlm_LowGrayLevelRunEmphasis	1.932e-71
	7.005e+18
original_glrlm_RunEntropy	
original_glrlm_RunLengthNonUniformity	6.759e+03
original_glrlm_RunLengthNonUniformityNormalized	5.679e+16
original_glrlm_RunPercentage	1.940e-38
original_glrlm_RunVariance	3.630e-02
original_glrlm_ShortRunEmphasis	9.674e-21
original_glrlm_ShortRunHighGrayLevelEmphasis	5.014e+41
original_glrlm_ShortRunLowGrayLevelEmphasis	1.141e+53
original_glszm_GrayLevelNonUniformity	2.104e-01
original_glszm_GrayLevelNonUniformityNormalized	9.004e+01
original_glszm_GrayLevelVariance	1.320e+01
original_glszm_HighGrayLevelZoneEmphasis	5.061e-07
original_glszm_LargeAreaEmphasis	0.000e+00
original_glszm_LargeAreaHighGrayLevelEmphasis	5.028e-01
original_glszm_LargeAreaLowGrayLevelEmphasis	3.605e+01
original_glszm_LowGrayLevelZoneEmphasis	4.479e-06
original_glszm_SizeZoneNonUniformity	2.192e+02
original_glszm_SizeZoneNonUniformityNormalized	1.155e-08
original_glszm_SmallAreaEmphasis	3.317e+06
original_glszm_SmallAreaHighGrayLevelEmphasis	6.012e+04
original_glszm_SmallAreaLowGrayLevelEmphasis	5.577e+02
original_glszm_ZoneEntropy	2.151e+00
original_glszm_ZonePercentage	2.710e-15
original_glszm_ZoneVariance	Inf
original_ngtdm_Busyness	2.907e-01
original_ngtdm_Coarseness	4.488e+00
original_ngtdm_Complexity	2.612e+00
original_ngtdm_Contrast	3.017e-06
original_ngtdm_Strength	1.635e+00
original_shape_Elongation	2.527e+01
original_shape_Flatness	4.565e-02
original_shape_LeastAxisLength	4.019e+02
original_shape_MajorAxisLength	4.417e+01
original_shape_Maximum2DDiameterColumn	3.796e-02

	2 050 04
original_shape_Maximum2DDiameterRow	3.958e-01
original_shape_Maximum2DDiameterSlice	9.956e-02
original_shape_Maximum3DDiameter	9.104e+01
original_shape_MeshVolume	8.593e+81
original_shape_MinorAxisLength	3.110e-02
original_shape_Sphericity	1.818e+00
original_shape_SurfaceArea	5.474e-04
original_shape_SurfaceVolumeRatio	9.139e+32
original_shape_VoxelVolume	6.770e-85
	se(coef)
original_firstorder_10Percentile	1.469e-01
original_firstorder_90Percentile	8.189e-02
original_firstorder_Energy	1.433e-01
original_firstorder_Entropy	1.256e-01
original_firstorder_InterquartileRange	1.328e-01
original_firstorder_Kurtosis	1.188e-01
original_firstorder_Maximum	1.219e-01
original_firstorder_Mean	1.339e-01
original_firstorder_MeanAbsoluteDeviation	1.288e-01
original_firstorder_Median	1.478e-01
original_firstorder_Minimum	1.628e-01
original_firstorder_Range	1.357e-01
original_firstorder_RobustMeanAbsoluteDeviation	1.371e-01
original_firstorder_RootMeanSquared	1.347e-01
original_firstorder_Skewness	1.095e-01
	1.433e-01
original_firstorder_TotalEnergy	
original_firstorder_Uniformity	1.295e-01
original_firstorder_Variance	2.263e-01
original_glcm_Autocorrelation	1.509e-01
original_glcm_ClusterProminence	9.190e-01
original_glcm_ClusterShade	3.734e-01
original_glcm_ClusterTendency	2.015e-01
original_glcm_Contrast	6.203e-01
original_glcm_Correlation	1.444e-01
original_glcm_DifferenceAverage	1.417e-01
original_glcm_DifferenceEntropy	1.331e-01
original_glcm_DifferenceVariance	7.276e-01
original_glcm_Id	1.243e-01
original_glcm_Idm	1.245e-01
original_glcm_Idmn	2.056e-01
original_glcm_Idn	1.696e-01
original_glcm_Imc1	1.321e-01
original_glcm_Imc2	1.534e-01
original_glcm_InverseVariance	1.173e-01
original_glcm_JointAverage	1.593e-01
original_glcm_JointEnergy	1.165e-01
original_glcm_JointEntropy	1.223e-01
original_glcm_MCC	1.622e-01
original_glcm_MaximumProbability	1.271e-01
original_glcm_SumAverage	1.593e-01
original_glcm_SumEntropy	1.252e-01
original_glcm_SumSquares	2.402e-01
original_gldm_DependenceEntropy	1.206e-01
original_gldm_DependenceNonUniformity	8.766e-02
original_gldm_DependenceNonUniformityNormalized	1.022e-01
original_gldm_DependenceVariance	1.376e-01
or 1811191 81011 Debengences at Talle	1.3/06-01

original_gldm_GrayLevelNonUniformity	8.995e-02
original_gldm_GrayLevelVariance	2.259e-01
original_gldm_HighGrayLevelEmphasis	1.510e-01
original_gldm_LargeDependenceEmphasis	1.446e-01
original_gldm_LargeDependenceHighGrayLevelEmphasis	1.113e-01
original_gldm_LargeDependenceLowGrayLevelEmphasis	3.944e-01
original_gldm_LowGrayLevelEmphasis	1.640e-01
original_gldm_SmallDependenceEmphasis	1.387e-01
original_gldm_SmallDependenceHighGrayLevelEmphasis	1.229e-01
original_gldm_SmallDependenceLowGrayLevelEmphasis	1.812e-01
original_glrlm_GrayLevelNonUniformity	9.048e-02
original_glrlm_GrayLevelNonUniformityNormalized	1.288e-01
original_glrlm_GrayLevelVariance	2.137e-01
original_glrlm_HighGrayLevelRunEmphasis	1.505e-01
original_glrlm_LongRunEmphasis	8.367e-02
original_glrlm_LongRunHighGrayLevelEmphasis	9.366e-02
original_glrlm_LongRunLowGrayLevelEmphasis	2.326e-01
original_glrlm_LowGrayLevelRunEmphasis	1.748e-01
original_glrlm_RunEntropy	1.330e-01
original_glrlm_RunLengthNonUniformity	1.089e-01
original_glrlm_RunLengthNonUniformityNormalized	1.398e-01
original_glrlm_RunPercentage	1.428e-01
original_glrlm_RunVariance	7.623e-02
original_glrlm_ShortRunEmphasis	1.419e-01
original_glrlm_ShortRunHighGrayLevelEmphasis	1.517e-01
original_glrlm_ShortRunLowGrayLevelEmphasis	1.582e-01
original_glszm_GrayLevelNonUniformity	1.119e-01
original_glszm_GrayLevelNonUniformityNormalized	1.666e-01
original_glszm_GrayLevelVariance	1.415e-01
original_glszm_HighGrayLevelZoneEmphasis	1.443e-01
original_glszm_LargeAreaEmphasis	9.422e-02
original_glszm_LargeAreaHighGrayLevelEmphasis	6.865e-02
original_glszm_LargeAreaLowGrayLevelEmphasis	4.215e-01
original_glszm_LowGrayLevelZoneEmphasis	2.522e-01
original_glszm_SizeZoneNonUniformity	1.279e-01
original_glszm_SizeZoneNonUniformityNormalized	1.586e-01
original_glszm_SmallAreaEmphasis	1.661e-01
original_glszm_SmallAreaHighGrayLevelEmphasis	1.373e-01
original_glszm_SmallAreaLowGrayLevelEmphasis	2.150e-01
original_glszm_ZoneEntropy	1.597e-01
original_glszm_ZonePercentage	1.398e-01
original_glszm_ZoneVariance	9.404e-02
original_ngtdm_Busyness	3.187e-01
original_ngtdm_Coarseness	2.995e-01
original_ngtdm_Complexity	1.785e-01
original_ngtdm_Contrast	4.607e-01
original_ngtdm_Strength	2.509e-01
original_shape_Elongation	1.525e-01
original_shape_Flatness	1.671e-01
original_shape_LeastAxisLength	1.267e-01
original_shape_MajorAxisLength	1.388e-01
original_shape_Maximum2DDiameterColumn	1.303e-01
original_shape_Maximum2DDiameterRow	1.421e-01
original_shape_Maximum2DDiameterSlice	1.311e-01
original_shape_Maximum3DDiameter	1.250e-01
original_shape_MeshVolume	9.455e-02

animinal shape MinanAvial anath	1 202 - 01
original_shape_MinorAxisLength	1.303e-01
original_shape_Sphericity	1.536e-01
original_shape_SurfaceArea	9.923e-02
original_shape_SurfaceVolumeRatio	1.382e-01
original_shape_VoxelVolume	9.476e-02
	Z
original_firstorder_10Percentile	40.155
original_firstorder_90Percentile	60.432
original_firstorder_Energy	-78.007
original_firstorder_Entropy	-364.251
original_firstorder_InterquartileRange	212.403
original_firstorder_Kurtosis	3.492
original_firstorder_Maximum	-13.181
original_firstorder_Mean	-270.033
original_firstorder_MeanAbsoluteDeviation	228.834
original_firstorder_Median	166.451
original_firstorder_Minimum	95.131
original_firstorder_Range	0.000
original_firstorder_RobustMeanAbsoluteDeviation	-258.934
original_firstorder_RootMeanSquared	-40.723
original_firstorder_Skewness	-9.670
original_firstorder_TotalEnergy	0.000
original_firstorder_Uniformity	-179.288
original_firstorder_Variance	2310.133
original_glcm_Autocorrelation	-184.809
original_glcm_ClusterProminence	190.486
original_glcm_ClusterShade	100.552
original_glcm_ClusterTendency	13.444
original_glcm_Contrast	645.337
original_glcm_Correlation	-24.638
original_glcm_DifferenceAverage	872.725
original_glcm_DifferenceEntropy	144.243
original_glcm_DifferenceVariance	-865.498
original_glcm_Id	9069.316
original_glcm_Idm	-8108.036
original_glcm_Idmn	-71.604
original_glcm_Idn	79.561
original_glcm_Imc1	-10.316
original_glcm_Imc1 original_glcm_Imc2	-34.530
	900.523
original_glcm_InverseVariance	
original_glcm_JointAverage	12.586
original_glcm_JointEnergy	76.281
original_glcm_JointEntropy	-155.217
original_glcm_MCC	1.135
original_glcm_MaximumProbability	51.178
original_glcm_SumAverage	0.000
original_glcm_SumEntropy	54.627
original_glcm_SumSquares	0.000
original_gldm_DependenceEntropy	91.381
original_gldm_DependenceNonUniformity	33.945
original_gldm_DependenceNonUniformityNormalized	24.800
original_gldm_DependenceVariance	-41.068
original_gldm_GrayLevelNonUniformity	-132.741
original_gldm_GrayLevelVariance	-2635.085
original_gldm_HighGrayLevelEmphasis	-1340.404
original_gldm_LargeDependenceEmphasis	-481.366
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	original_gldm_LargeDependenceHighGrayLevelEmphasis	293.167
	original_gldm_LargeDependenceLowGrayLevelEmphasis	75.995
	original_gldm_LowGrayLevelEmphasis	208.633
	original_gldm_SmallDependenceEmphasis	145.729
	original_gldm_SmallDependenceHighGrayLevelEmphasis	-17.614
	original_gldm_SmallDependenceLowGrayLevelEmphasis	-34.963
	original_glrlm_GrayLevelNonUniformity	107.008
	original_glrlm_GrayLevelNonUniformityNormalized	21.995
	original_glrlm_GrayLevelVariance	205.108
	original_glrlm_HighGrayLevelRunEmphasis	880.142
	original_glrlm_LongRunEmphasis	54.915
	original_glrlm_LongRunHighGrayLevelEmphasis	-22.216
	original_glrlm_LongRunLowGrayLevelEmphasis	-18.433
	original_glrlm_LowGrayLevelRunEmphasis	-931.539
	original_glrlm_RunEntropy	326.181
	original_glrlm_RunLengthNonUniformity	80.951
	original glrlm RunLengthNonUniformityNormalized	276.006
	original_glrlm_RunPercentage	-607.950
	original_glrlm_RunVariance	-43.497
	original_glrlm_ShortRunEmphasis	-324.850
	original_glrlm_ShortRunHighGrayLevelEmphasis	632.851
	original_glrlm_ShortRunLowGrayLevelEmphasis	772.375
	original_glszm_GrayLevelNonUniformity	-13.933
	original_glszm_GrayLevelNonUniformityNormalized	27.009
	original_glszm_GrayLevelVariance	18.229
	original_glszm_HighGrayLevelZoneEmphasis	-100.484
	original_glszm_LargeAreaEmphasis	-12883.737
	original_glszm_LargeAreaHighGrayLevelEmphasis	-10.017
	original_glszm_LargeAreaLowGrayLevelEmphasis	8.505
	original_glszm_LowGrayLevelZoneEmphasis	-48.828
	original_glszm_SizeZoneNonUniformity	42.143
	original_glszm_SizeZoneNonUniformityNormalized	-115.212
	original_glszm_SmallAreaEmphasis	90.395
	original_glszm_SmallAreaHighGrayLevelEmphasis	80.167
	original_glszm_SmallAreaLowGrayLevelEmphasis	29.417
	original_glszm_ZoneEntropy	4.795
	original_glszm_ZonePercentage	-240.001
	original_glszm_ZoneVariance	12915.122
	original_ngtdm_Busyness	-3.876
	original_ngtdm_Coarseness	5.014
	original_ngtdm_Complexity	5.379
	original_ngtdm_Contrast	-27.594
	original_ngtdm_Strength	1.959
	original_shape_Elongation	21.174
	original_shape_Flatness	-18.475
	original_shape_LeastAxisLength	47.339
	original_shape_MajorAxisLength	27.286
	original_shape_Maximum2DDiameterColumn	-25.110
	original_shape_Maximum2DDiameterRow	-6.525
	original_shape_Maximum2DDiameterSlice	-17.601
	original_shape_Maximum3DDiameter	36.105
	original_shape_MeshVolume	1995.443
	original_shape_MinorAxisLength	-26.632
	original_shape_Sphericity	3.890
	original_shape_SurfaceArea	-75.689
	original_shape_SurfaceVolumeRatio	549.129

original_shape_VoxelVolume	-2045.319
	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	0.000479
original_firstorder_Maximum	< 2e-16
original_firstorder_Mean	< 2e-16
original_firstorder_MeanAbsoluteDeviation	< 2e-16
	< 2e-16
original_firstorder_Median	
original_firstorder_Minimum	< 2e-16
original_firstorder_Range	1.000000
original_firstorder_RobustMeanAbsoluteDeviation	< 2e-16
original_firstorder_RootMeanSquared	< 2e-16
original_firstorder_Skewness	< 2e-16
original_firstorder_TotalEnergy	1.000000
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
	< 2e-16
original_glcm_Idm	
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	0.256461
original_glcm_MaximumProbability	< 2e-16
original_glcm_SumAverage	1.000000
original_glcm_SumEntropy	< 2e-16
original_glcm_SumSquares	1.000000
original_gldm_DependenceEntropy	< 2e-16
original_gldm_DependenceNonUniformity	< 2e-16
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_SmallDependenceHighGrayLevelEmphasi	is < 2e-16
original_gldm_SmallDependenceLowGrayLevelEmphasis	s < 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	1.63e-06
original_glszm_ZonePercentage	< 2e-16
original_glszm_ZoneVariance	< 2e-16
original_ngtdm_Busyness	0.000106
original_ngtdm_Coarseness	5.34e-07
original_ngtdm_Complexity	7.48e-08
original_ngtdm_Contrast	< 2e-16
original_ngtdm_Strength	0.050099
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	6.80e-11
original_shape_Maximum2DDiameterSlice	< 2e-16
original_shape_Maximum3DDiameter	< 2e-16
original_shape_MeshVolume	< 2e-16
original_shape_MinorAxisLength	< 2e-16
original_shape_Sphericity	0.000100
original_shape_SurfaceArea	< 2e-16
original_shape_SurfaceVolumeRatio	< 2e-16
original_shape_VoxelVolume	< 2e-16

Likelihood ratio test=201.9 on 107 df, p=8.212e-08 n= 361, number of events= 48

```
$model list[[2]]
$model_list[[2]]$beststats
   mtry nodesize nodedepth time
                                  AUCROC
                        50 2.9 0.7533086 0.08353237
               C_score Calib_alpha Calib_slope
    BS scaled
V2 0.02762382 0.6961789 -0.006143785 0.7015387
$model_list[[2]]$allstats
    mtry nodesize nodedepth time
                                    AUCROC
٧1
               15
                         50 2.9 0.7391669 0.08470875
V2
      10
               20
                         50 2.9 0.7459075 0.08371739
V3
      10
               25
                         50 2.9 0.7526276 0.08245072
V4
      10
               30
                         50 2.9 0.7527742 0.08218004
V5
      10
              35
                        50 2.9 0.7527958 0.08169747
V11
      11
               35
                         50 2.9 0.7511447 0.08214963
V21
      22
              35
                        50 2.9 0.7533086 0.08353237
V31
               35
                         50 2.9 0.7436684 0.08538888
      36
V41
      54
               35
                         50 2.9 0.7381756 0.08664147
V51
               35
                         50 2.9 0.7527958 0.08169747
       BS scaled C score Calib alpha Calib slope
٧1
     0.013929855 0.6898228 -0.008337819
                                         0.6059840
V2
    0.025470012 0.6978988 -0.005993216
                                          0.6698078
    0.040214989 0.7008151 -0.005037716 0.7315879
V3
۷4
    0.043365896 0.7015629 -0.004197893 0.7686450
V5
    0.048983301 0.7006655 -0.003555818 0.8123876
V11 0.043719853 0.6972258 -0.004461205 0.8154776
V21 0.027623818 0.6961789 -0.006143785
                                         0.7015387
V31 0.006012681 0.6901593 -0.010965136
                                         0.5900958
V41 -0.008568281 0.6876542 -0.010275313
                                          0.5090459
V51 0.048983301 0.7006655 -0.003555818
                                          0.8123876
$model_list[[2]]$model
                         Sample size: 361
                    Number of deaths: 40
                     Number of trees: 500
           Forest terminal node size: 35
       Average no. of terminal nodes: 9.61
No. of variables tried at each split: 22
              Total no. of variables: 108
       Resampling used to grow trees: swor
    Resample size used to grow trees: 228
                            Analysis: RSF
                              Family: surv
                      Splitting rule: logrank *random*
       Number of random split points: 50
                          (OOB) CRPS: 0.05568956
   (OOB) Requested performance error: 0.29942426
$model_list[[2]]$vimp10
                original_firstorder_Maximum
                                0.014988039
                  original_ngtdm_Complexity
                                0.013060005
```

```
original_shape_Maximum3DDiameter
                                0.009650279
           original_glszm_GrayLevelVariance
                                0.008721731
                  original_firstorder_Range
                                0.007298276
     original_shape_Maximum2DDiameterColumn
                                0.006947785
         original_gldm_LowGrayLevelEmphasis
                                0.005191675
     original_glrlm_LowGrayLevelRunEmphasis
                                0.004291326
original_glrlm_ShortRunLowGrayLevelEmphasis
                                0.004117940
        original_shape_Maximum2DDiameterRow
                                0.004050423
             original_shape_MajorAxisLength
                                0.003942476
                  original_shape_Sphericity
                                0.003848098
original glrlm LongRunHighGrayLevelEmphasis
                                0.003396211
            original_glcm_ClusterProminence
                                0.003188440
           original gldm DependenceVariance
                                0.003063841
$model_list[[2]]$model_base
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
                                                     -9.137e+01
original_firstorder_90Percentile
                                                      1.016e+02
                                                     -5.892e+01
original_firstorder_Energy
original_firstorder_Entropy
                                                     -2.553e+02
original_firstorder_InterquartileRange
                                                     1.359e+02
original firstorder Kurtosis
                                                     -1.416e-02
original_firstorder_Maximum
                                                     -2.010e+01
original_firstorder_Mean
                                                     -1.434e+02
original firstorder MeanAbsoluteDeviation
                                                      1.503e+02
                                                      8.449e+01
original firstorder Median
original_firstorder_Minimum
                                                      1.185e+02
original firstorder Range
                                                      0.000e+00
original firstorder RobustMeanAbsoluteDeviation
                                                     -2.953e+02
original firstorder RootMeanSquared
                                                     -3.857e+01
original firstorder Skewness
                                                      2.002e+00
original firstorder TotalEnergy
                                                      0.000e+00
original firstorder Uniformity
                                                     -7.872e+01
original firstorder Variance
                                                      1.933e+03
original_glcm_Autocorrelation
                                                     -6.561e+02
original glcm ClusterProminence
                                                      4.128e+02
original_glcm_ClusterShade
                                                      1.681e+02
original_glcm_ClusterTendency
                                                     -5.094e+00
```

original_glcm_Contrast	3.047e+02
original_glcm_Correlation	-2.097e+01
original_glcm_DifferenceAverage	1.213e+02
original_glcm_DifferenceEntropy	1.451e+02
	-8.233e+02
original_glcm_DifferenceVariance	
original_glcm_Id	2.526e+03
original_glcm_Idm	-2.368e+03
original_glcm_Idmn	-3.568e+01
original_glcm_Idn	5.169e+01
original_glcm_Imc1	-1.144e+01
original_glcm_Imc2	-4.150e+01
original_glcm_InverseVariance	2.237e+02
original_glcm_JointAverage	4.160e+01
original_glcm_JointEnergy	5.927e+01
original_glcm_JointEntropy	-1.957e+02
original_glcm_MCC	1.664e+01
original_glcm_MaximumProbability	1.665e-01
original_glcm_SumAverage	0.000e+00
original_glcm_SumEntropy	2.330e+02
original_glcm_SumSquares	0.000e+00
original_gldm_DependenceEntropy	7.757e+01
original_gldm_DependenceNonUniformity	2.762e+01
original_gldm_DependenceNonUniformityNormalized	3.934e+00
original_gldm_DependenceVariance	3.870e+01
original_gldm_GrayLevelNonUniformity	-5.308e+01
original_gldm_GrayLevelVariance	-2.443e+03
original_gldm_HighGrayLevelEmphasis	-2.246e+01
original_gldm_LargeDependenceEmphasis	-3.272e+02
original_gldm_LargeDependenceHighGrayLevelEmphasis	-6.803e+01
original_gldm_LargeDependenceLowGrayLevelEmphasis	-1.047e+02
original_gldm_LowGrayLevelEmphasis	-4.246e+01
original_gldm_SmallDependenceEmphasis	-6.972e+00
original_gldm_SmallDependenceHighGrayLevelEmphasis	4.693e+01
original_gldm_SmallDependenceLowGrayLevelEmphasis	9.059e+00
original_glrlm_GrayLevelNonUniformity	-2.790e+00
original_glrlm_GrayLevelNonUniformityNormalized	-7.221e+01
original_glrlm_GrayLevelVariance	3.792e+02
original_glrlm_HighGrayLevelRunEmphasis	1.047e+03
original_glrlm_LongRunEmphasis	-2.999e+01
original_glrlm_LongRunHighGrayLevelEmphasis	-1.173e+01
original_glrlm_LongRunLowGrayLevelEmphasis	-2.201e+01
original_glrlm_LowGrayLevelRunEmphasis	5.679e+02
original_glrlm_RunEntropy	-7.574e+01
original_glrlm_RunLengthNonUniformity	4.711e+00
original_glrlm_RunLengthNonUniformityNormalized	6.389e+02
original_glrlm_RunPercentage	-5.930e+02
original_glrlm_RunVariance	4.988e+01
original_glrlm_ShortRunEmphasis	-3.862e+02
original_glrlm_ShortRunHighGrayLevelEmphasis	-3.096e+02
original_glrlm_ShortRunLowGrayLevelEmphasis	-4.293e+02
original_glszm_GrayLevelNonUniformity	-9.915e+00
original_glszm_GrayLevelNonUniformityNormalized	5.752e+01
original_glszm_GrayLevelVariance	1.937e+01
original_glszm_HighGrayLevelZoneEmphasis	6.040e+01
original_glszm_LargeAreaEmphasis	-2.139e+03
original_glszm_LargeAreaHighGrayLevelEmphasis	8.375e+00

original_glszm_LargeAreaLowGrayLevelEmphasis	6.015e+00
original_glszm_LowGrayLevelZoneEmphasis	-1.259e+01
original_glszm_SizeZoneNonUniformity	3.725e+01
original_glszm_SizeZoneNonUniformityNormalized	1.440e+01
original_glszm_SmallAreaEmphasis	1.605e+01
original_glszm_SmallAreaHighGrayLevelEmphasis	-6.094e+01
original_glszm_SmallAreaLowGrayLevelEmphasis	-6.647e+00
original_glszm_ZoneEntropy	5.688e+01
original_glszm_ZonePercentage	-1.671e+00
original_glszm_ZoneVariance	2.155e+03
original_ngtdm_Busyness	-3.110e+00
original_ngtdm_Coarseness	1.330e+01
original_ngtdm_Complexity	1.241e+01
original_ngtdm_Contrast	-4.235e+01
original_ngtdm_Strength	-1.304e-01
original_shape_Elongation	8.041e+00
original_shape_Flatness	-1.365e+01
original_shape_LeastAxisLength	1.842e+01
original_shape_MajorAxisLength	3.674e+00
original_shape_Maximum2DDiameterColumn	-8.905e+00
original_shape_Maximum2DDiameterRow	2.083e+00
original_shape_Maximum2DDiameterSlice	-6.646e+00
original_shape_Maximum3DDiameter	9.710e+00
original_shape_MeshVolume	1.467e+03
original_shape_MinorAxisLength	8.784e+00
original_shape_Sphericity	-1.474e+01
original_shape_SurfaceArea	1.767e+01
original_shape_SurfaceVolumeRatio	3.324e+01
original_shape_VoxelVolume	-1.490e+03
	exp(coef)
original_firstorder_10Percentile	2.090e-40
original_firstorder_90Percentile	1.355e+44
original_firstorder_Energy	2.590e-26
original_firstorder_Entropy	1.336e-111
original_firstorder_InterquartileRange	1.016e+59
original_firstorder_Kurtosis	9.859e-01
original_firstorder_Maximum	1.863e-09
original_firstorder_Mean	5.272e-63
original_firstorder_MeanAbsoluteDeviation	1.946e+65
original_firstorder_Median	4.944e+36
original_firstorder_Minimum	2.917e+51
original_firstorder_Range	1.000e+00
original_firstorder_RobustMeanAbsoluteDeviation	5.402e-129
original_firstorder_RootMeanSquared	1.771e-17
original_firstorder_Skewness	7.407e+00
original_firstorder_TotalEnergy	1.000e+00
original_firstorder_Uniformity	6.469e-35
original_firstorder_Variance	Inf
original_glcm_Autocorrelation	1.191e-285
original_glcm_ClusterProminence	1.899e+179
original_glcm_ClusterShade	1.048e+73
original_glcm_ClusterTendency	6.136e-03
original_glcm_Contrast	2.038e+132
original_glcm_Correlation	7.783e-10
original_glcm_DifferenceAverage	4.741e+52
original_glcm_DifferenceEntropy	9.947e+62

original_glcm_DifferenceVariance	0.000e+00
original_glcm_Id	Inf
original_glcm_Idm	0.000e+00
original_glcm_Idmn	3.209e-16
original_glcm_Idn	2.807e+22
original_glcm_Imc1	1.073e-05
original_glcm_Imc2	9.485e-19
original_glcm_InverseVariance	1.389e+97
original_glcm_JointAverage	1.169e+18
original_glcm_JointEnergy	5.515e+25
original_glcm_JointEntropy	9.781e-86
original_glcm_MCC	1.688e+07
original_glcm_MaximumProbability	1.181e+00
original_glcm_SumAverage	1.000e+00
original_glcm_SumEntropy	1.597e+101
	1.000e+00
original_glcm_SumSquares	
original_gldm_DependenceEntropy	4.867e+33
original_gldm_DependenceNonUniformity	9.922e+11
original_gldm_DependenceNonUniformityNormalized	5.114e+01
original_gldm_DependenceVariance	6.407e+16
original_gldm_GrayLevelNonUniformity	8.894e-24
original_gldm_GrayLevelVariance	0.000e+00
original_gldm_HighGrayLevelEmphasis	1.769e-10
original_gldm_LargeDependenceEmphasis	7.885e-143
original_gldm_LargeDependenceHighGrayLevelEmphasis	2.847e-30
original_gldm_LargeDependenceLowGrayLevelEmphasis	3.327e-46
original_gldm_LowGrayLevelEmphasis	3.619e-19
original_gldm_SmallDependenceEmphasis	9.378e-04
original_gldm_SmallDependenceHighGrayLevelEmphasis	2.400e+20
original_gldm_SmallDependenceLowGrayLevelEmphasis	8.599e+03
original_glrlm_GrayLevelNonUniformity	6.142e-02
original_glrlm_GrayLevelNonUniformityNormalized	4.358e-32
original_glrlm_GrayLevelVariance	5.064e+164
original_glrlm_HighGrayLevelRunEmphasis	Inf
original_glrlm_LongRunEmphasis	9.482e-14
original_glrlm_LongRunHighGrayLevelEmphasis	8.064e-06
original_glrlm_LongRunLowGrayLevelEmphasis	2.760e-10
original_glrlm_LowGrayLevelRunEmphasis	4.166e+246
original_glrlm_RunEntropy	1.275e-33
original_glrlm_RunLengthNonUniformity	1.111e+02
original_glrlm_RunLengthNonUniformityNormalized	3.020e+277
original_glrlm_RunPercentage	2.924e-258
original_glrlm_RunVariance	4.601e+21
original_glrlm_ShortRunEmphasis	1.896e-168
original_glrlm_ShortRunHighGrayLevelEmphasis	3.641e-135
original_glrlm_ShortRunLowGrayLevelEmphasis	3.681e-187
original_glszm_GrayLevelNonUniformity	4.944e-05
original_glszm_GrayLevelNonUniformityNormalized	9.527e+24
original_glszm_GrayLevelVariance	2.578e+08
original_glszm_HighGrayLevelZoneEmphasis	1.711e+26
original_glszm_LargeAreaEmphasis	0.000e+00
original_glszm_LargeAreaHighGrayLevelEmphasis	4.339e+03
original_glszm_LargeAreaLowGrayLevelEmphasis	4.096e+02
original_glszm_LowGrayLevelZoneEmphasis	3.413e-06
original_glszm_SizeZoneNonUniformity	1.509e+16
original_glszm_SizeZoneNonUniformityNormalized	1.798e+06

original_glszm_SmallAreaEmphasis	9.369e+06
original_glszm_SmallAreaHighGrayLevelEmphasis	3.431e-27
original_glszm_SmallAreaLowGrayLevelEmphasis	1.298e-03
original_glszm_ZoneEntropy	5.065e+24
	1.880e-01
original_glszm_ZonePercentage	
original_glszm_ZoneVariance	Inf
original_ngtdm_Busyness	4.458e-02
original_ngtdm_Coarseness	5.982e+05
original_ngtdm_Complexity	2.449e+05
original_ngtdm_Contrast	4.039e-19
original_ngtdm_Strength	8.778e-01
original_shape_Elongation	3.106e+03
original_shape_Flatness	1.185e-06
original_shape_LeastAxisLength	9.971e+07
original_shape_MajorAxisLength	3.942e+01
original_shape_Maximum2DDiameterColumn	1.356e-04
original_shape_Maximum2DDiameterRow	8.027e+00
original_shape_Maximum2DDiameterSlice	1.299e-03
original_shape_Maximum3DDiameter	1.648e+04
original_shape_MeshVolume	Inf
original_shape_MinorAxisLength	6.526e+03
original_shape_Sphericity	3.986e-07
original_shape_SurfaceArea	4.701e+07
original_shape_SurfaceVolumeRatio	2.736e+14
original_shape_VoxelVolume	0.000e+00
o8	se(coef)
original_firstorder_10Percentile	1.536e-01
original_firstorder_90Percentile	2.204e-01
original_firstorder_Energy	1.586e-01
original_firstorder_Entropy	1.849e-01
original_firstorder_InterquartileRange	3.885e-01
original_firstorder_Kurtosis	1.289e-01
	1.351e-01
original_firstorder_Maximum	
original_firstorder_Mean	1.442e-01
original_firstorder_MeanAbsoluteDeviation	1.800e-01
original_firstorder_Median	1.553e-01
original_firstorder_Minimum	1.537e-01
original_firstorder_Range	1.455e-01
original_firstorder_RobustMeanAbsoluteDeviation	3.694e-01
original_firstorder_RootMeanSquared	1.794e-01
original_firstorder_Skewness	1.318e-01
original_firstorder_TotalEnergy	1.586e-01
original_firstorder_Uniformity	1.593e-01
original_firstorder_Variance	2.792e-01
original_glcm_Autocorrelation	1.594e-01
original_glcm_ClusterProminence	2.022e+00
original_glcm_ClusterShade	3.993e-01
original_glcm_ClusterTendency	2.327e-01
original_glcm_Contrast	1.593e+00
original_glcm_Correlation	1.387e-01
original_glcm_DifferenceAverage	3.144e-01
original_glcm_DifferenceEntropy	2.179e-01
original_glcm_DifferenceVariance	1.684e+00
original_glcm_Id	2.119e-01
original_glcm_Idm	2.163e-01
original_glcm_Idmn	1.688e-01
	<del></del>

original_glcm_Idn	1.415e-01
original_glcm_Imc1	1.346e-01
original_glcm_Imc2	1.480e-01
original_glcm_InverseVariance	1.541e-01
original_glcm_JointAverage	1.533e-01
original_glcm_JointEnergy	1.467e-01
original_glcm_JointEntropy	1.958e-01
original_glcm_MCC	1.443e-01
original_glcm_MaximumProbability	1.698e-01
original_glcm_SumAverage	1.533e-01
original_glcm_SumEntropy	1.762e-01
original_glcm_SumSquares	2.862e-01
original_gldm_DependenceEntropy	1.549e-01
original_gldm_DependenceNonUniformity	1.172e-01
original_gldm_DependenceNonUniformityNormalized	1.213e-01
original_gldm_DependenceVariance	1.507e-01
original_gldm_GrayLevelNonUniformity	1.367e-01
original_gldm_GrayLevelVariance	2.787e-01
original_gldm_HighGrayLevelEmphasis	1.593e-01
original_gldm_LargeDependenceEmphasis	1.584e-01
original_gldm_LargeDependenceHighGrayLevelEmphasis	1.287e-01
original_gldm_LargeDependenceLowGrayLevelEmphasis	4.667e-01
original_gldm_LowGrayLevelEmphasis	9.790e-02
original_gldm_SmallDependenceEmphasis	1.716e-01
original_gldm_SmallDependenceHighGrayLevelEmphasis	2.148e-01
original_gldm_SmallDependenceLowGrayLevelEmphasis	9.583e-02
original_glrlm_GrayLevelNonUniformity	1.440e-01
original_glrlm_GrayLevelNonUniformityNormalized	1.597e-01
original_glrlm_GrayLevelVariance	2.585e-01
original_glrlm_HighGrayLevelRunEmphasis	1.593e-01
original_glrlm_LongRunEmphasis	9.737e-02
original_glrlm_LongRunHighGrayLevelEmphasis	1.071e-01
original_glrlm_LongRunLowGrayLevelEmphasis	2.182e-01
original_glrlm_LowGrayLevelRunEmphasis	1.006e-01
original_glrlm_RunEntropy	1.616e-01
original_glrlm_RunLengthNonUniformity	1.679e-01
original_glrlm_RunLengthNonUniformityNormalized	1.485e-01
original_glrlm_RunPercentage	1.535e-01
original_glrlm_RunVariance	8.898e-02
original_glrlm_ShortRunEmphasis	1.520e-01
original_glrlm_ShortRunHighGrayLevelEmphasis	1.622e-01
original_glrlm_ShortRunLowGrayLevelEmphasis	8.917e-02
original_glszm_GrayLevelNonUniformity	1.869e-01
original_glszm_GrayLevelNonUniformityNormalized	1.801e-01
original_glszm_GrayLevelVariance	1.576e-01
original_glszm_HighGrayLevelZoneEmphasis	1.594e-01
original_glszm_LargeAreaEmphasis	1.346e-01
original_glszm_LargeAreaHighGrayLevelEmphasis	1.015e-01
original_glszm_LargeAreaLowGrayLevelEmphasis	7.969e-01
original_glszm_LowGrayLevelZoneEmphasis	1.428e-01
original_glszm_SizeZoneNonUniformity	1.616e-01
original_glszm_SizeZoneNonUniformityNormalized	1.471e-01
original_glszm_SmallAreaEmphasis	1.371e-01
original_glszm_SmallAreaHighGrayLevelEmphasis	1.557e-01
original_glszm_SmallAreaLowGrayLevelEmphasis	1.597e-01
original_glszm_ZoneEntropy	1.592e-01

127.0.0.1:6523 21/60

original_glszm_ZonePercentage	1.713e-01
original_glszm_ZoneVariance	1.345e-01
original_ngtdm_Busyness	4.024e-01
original_ngtdm_Coarseness	1.007e-01
original_ngtdm_Complexity	3.800e-01
original_ngtdm_Contrast	7.341e-01
original_ngtdm_Strength	3.191e-01
original_shape_Elongation	1.659e-01
original_shape_Flatness	1.839e-01
original_shape_LeastAxisLength	1.516e-01
original_shape_MajorAxisLength	1.312e-01
original_shape_Maximum2DDiameterColumn	1.134e-01
original_shape_Maximum2DDiameterRow	1.513e-01
original_shape_Maximum2DDiameterSlice	1.418e-01
original_shape_Maximum3DDiameter	1.183e-01
original_shape_MeshVolume	1.576e-01
original_shape_MinorAxisLength	1.188e-01
original_shape_Sphericity	1.700e-01
original_shape_SurfaceArea	1.453e-01
original shape SurfaceVolumeRatio	1.455e-01
original_shape_VoxelVolume	1.578e-01
oniginal finstandon 10Densontile	Z 504.734
original_firstorder_10Percentile	-594.734
original_firstorder_90Percentile	460.986
original_firstorder_Energy	-371.553
original_firstorder_Entropy	-1380.550
original_firstorder_InterquartileRange	349.741
original_firstorder_Kurtosis	-0.110
original_firstorder_Maximum	-148.763
original_firstorder_Mean	-994.468
original_firstorder_MeanAbsoluteDeviation	835.183
original_firstorder_Median	543.890
original_firstorder_Minimum	770.782
original_firstorder_Range	0.000
original_firstorder_RobustMeanAbsoluteDeviation	-799.449
original_firstorder_RootMeanSquared	-215.007
original_firstorder_Skewness	15.192
original_firstorder_TotalEnergy	0.000
original_firstorder_Uniformity	-494.313
original_firstorder_Variance	6924.383
original_glcm_Autocorrelation	-4115.952
original_glcm_ClusterProminence	204.148
original_glcm_ClusterShade	421.052
original_glcm_ClusterTendency	-21.886
original_glcm_Contrast	191.228
original_glcm_Correlation	-151.226
original_glcm_DifferenceAverage	385.758
original_glcm_DifferenceEntropy	665.747
original_glcm_DifferenceVariance	-488.855
original_glcm_Id	11921.170
original_glcm_Idm	-10947.477
original_glcm_Idmn	-211.302
original_glcm_Idn	365.373
original_glcm_Imc1	-85.035
original_glcm_Imc2	-280.495
original_glcm_InverseVariance	1451.661
	I-71.00I

127.0.0.1:6523 22/60

	271 202
original_glcm_JointAverage	271.392
original_glcm_JointEnergy	403.983
original_glcm_JointEntropy	-999.757
original_glcm_MCC	115.298
original_glcm_MaximumProbability	0.981
original_glcm_SumAverage	0.000
original_glcm_SumEntropy	1322.871
original_glcm_SumSquares	0.000
original_gldm_DependenceEntropy	500.903
original_gldm_DependenceNonUniformity	235.706
original_gldm_DependenceNonUniformityNormalized	32.434
original_gldm_DependenceVariance	256.716
original_gldm_GrayLevelNonUniformity	-388.132
original_gldm_GrayLevelVariance	-8765.139
original_gldm_HighGrayLevelEmphasis	-140.958
original_gldm_LargeDependenceEmphasis	-2066.305
original_gldm_LargeDependenceHighGrayLevelEmphasis	-528.784
original_gldm_LargeDependenceLowGrayLevelEmphasis	-224.356
original_gldm_LowGrayLevelEmphasis	-433.746
original_gldm_SmallDependenceEmphasis	-40.629
original_gldm_SmallDependenceHighGrayLevelEmphasis	218.487
original_gldm_SmallDependenceLowGrayLevelEmphasis	94.540
original_glrlm_GrayLevelNonUniformity	-19.378
original_glrlm_GrayLevelNonUniformityNormalized	-452.287
original_glrlm_GrayLevelVariance	1467.280
original_glrlm_HighGrayLevelRunEmphasis	6569.727
original_glrlm_LongRunEmphasis	-307.978
original_glrlm_LongRunHighGrayLevelEmphasis	-109.522
original_glrlm_LongRunLowGrayLevelEmphasis	-100.890
original_glrlm_LowGrayLevelRunEmphasis	5647.322
original_glrlm_RunEntropy	-468.639
original_glrlm_RunLengthNonUniformity	28.062
original_glrlm_RunLengthNonUniformityNormalized	4302.920
original_glrlm_RunPercentage	-3864.054
original_glrlm_RunVariance	560.560
original_glrlm_ShortRunEmphasis	-2541.102
original_glrlm_ShortRunHighGrayLevelEmphasis	-1908.146
original_glrlm_ShortRunLowGrayLevelEmphasis	-4814.307
original_glszm_GrayLevelNonUniformity	-53.053
original_glszm_GrayLevelNonUniformityNormalized	319.411
original_glszm_GrayLevelVariance	122.860
original_glszm_HighGrayLevelZoneEmphasis	378.899
original_glszm_LargeAreaEmphasis	-15886.862
original_glszm_LargeAreaHighGrayLevelEmphasis	82.505
original_glszm_LargeAreaLowGrayLevelEmphasis	7.548
original_glszm_LowGrayLevelZoneEmphasis	-88.120
original_glszm_SizeZoneNonUniformity	230.534
original_glszm_SizeZoneNonUniformityNormalized	97.881
original_glszm_SmallAreaEmphasis	117.047
original_glszm_SmallAreaHighGrayLevelEmphasis	-391.368
original_glszm_SmallAreaLowGrayLevelEmphasis	-41.633
original_glszm_ZoneEntropy	357.258
original_glszm_ZonePercentage	-9.757
original_glszm_ZoneVariance	16019.962
original_ngtdm_Busyness	-7.730
original_ngtdm_Coarseness	132.102
or 181101 ligeon selless	172.102

i amanata anampia	
original_ngtdm_Complexity	32.655
original_ngtdm_Contrast	-57.692
original_ngtdm_Strength	-0.409
original_shape_Elongation	48.478
original_shape_Flatness	-74.185
original_shape_LeastAxisLength	121.499
original_shape_MajorAxisLength	28.012
original_shape_Maximum2DDiameterColumn	-78.503
original_shape_Maximum2DDiameterRow	13.764
original_shape_Maximum2DDiameterSlice	-46.871
original_shape_Maximum3DDiameter	82.074
original_shape_MeshVolume	9305.263
original_shape_MinorAxisLength	73.962
original_shape_Sphericity	-86.681
original_shape_SurfaceArea	121.623
original_shape_SurfaceVolumeRatio	228.433
original_shape_VoxelVolume	-9437.327
	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	0.913
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_Minimum 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
original_glcm_JointEntropy	< 2e-16
original_glcm_MCC	< 2e-16
I	

original_glcm_MaximumProbability	0.327
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_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	< 2e-16
original_glszm_HighGrayLevelZoneEmphasis	< 2e-16
original_glszm_LargeAreaEmphasis	< 2e-16
original_glszm_LargeAreaHighGrayLevelEmphasis	< 2e-16
original glszm LargeAreaLowGrayLevelEmphasis	4.41e-14
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	1.07e-14
original_ngtdm_Coarseness	< 2e-16
original_ngtdm_Complexity	< 2e-16
original_ngtdm_Contrast	< 2e-16
original_ngtdm_Strength	0.683
original_shape_Elongation	< 2e-16

127.0.0.1:6523 25/60

```
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
Likelihood ratio test=311.4 on 107 df, p=< 2.2e-16
n= 361, number of events= 40
$model_list[[3]]
$model_list[[3]]$beststats
   mtry nodesize nodedepth time
                                  AUCROC
٧1
                       50 2.9 0.7588664 0.09279211
    BS_scaled C_score Calib_alpha Calib_slope
V1 0.06338214 0.713853 -0.007200213 0.7486478
$model_list[[3]]$allstats
    mtry nodesize nodedepth time
                                   AUCROC
٧1
     10
              15
                        50 2.9 0.7442246 0.09599919
V2
     10
              20
                        50 2.9 0.7501540 0.09445526
V3
     10
              25
                        50 2.9 0.7550204 0.09351700
V4
                        50 2.9 0.7544026 0.09314298
     10
              30
V5
     10
              35
                        50 2.9 0.7572285 0.09279324
V11
              35
                        50 2.9 0.7588664 0.09279211
     11
V21
     22
              35
                        50 2.9 0.7439801 0.09555481
V31
     36
              35
                        50 2.9 0.7325800 0.09837701
```

```
V41
                       50 2.9 0.7347806 0.09930519
     54
              35
V51
                       50 2.9 0.7572285 0.09279324
     10
              35
      BS_scaled C_score Calib_alpha Calib_slope
V1
    0.031010831 0.7016093 -0.011765569
                                       0.6089391
```

V2 0.046594766 0.7050805 -0.009185715 0.6501478 V3 0.056065339 0.7081098 -0.007527494 0.7034010

٧4 0.059840589 0.7081729 -0.006615968 0.7186720 V5 0.063370803 0.7089303 -0.006362222 0.7494737

V11 0.063382137 0.7138530 -0.007200213 0.7486478 V21 0.035496273 0.7043547 -0.009519190 0.6163637

V31 0.007009704 0.6935311 -0.009631407 0.4788352

V41 -0.002359002 0.6950142 -0.014497214 0.4315477 V51 0.063370803 0.7089303 -0.006362222 0.7494737

\$model list[[3]]\$model

Sample size: 361 Number of deaths: 48 Number of trees: 500

Forest terminal node size: 35 Average no. of terminal nodes: 10.546 No. of variables tried at each split: 11

127.0.0.1:6523 26/60

```
Resampling used to grow trees: swor
    Resample size used to grow trees: 228
                            Analysis: RSF
                              Family: surv
                      Splitting rule: logrank *random*
       Number of random split points: 50
                          (OOB) CRPS: 0.06235314
   (OOB) Requested performance error: 0.28238783
$model_list[[3]]$vimp10
     original_glrlm_LowGrayLevelRunEmphasis
                                0.008805187
original_glrlm_ShortRunLowGrayLevelEmphasis
                                0.008550331
           original_glszm_GrayLevelVariance
                                0.007013705
         original_gldm_LowGrayLevelEmphasis
                                0.005120315
original glrlm LongRunHighGrayLevelEmphasis
                                0.004774434
                  original_firstorder_Range
                                0.004390496
                         original_glcm_Idmn
                                0.004230340
           original_shape_Maximum3DDiameter
                                0.004187397
                original_firstorder_Maximum
                                0.004138032
           original_gldm_DependenceVariance
                                0.004092218
              original_glcm_Autocorrelation
                                0.003910723
     original_shape_Maximum2DDiameterColumn
                                0.003841004
                 original_glcm_JointAverage
                                0.003792221
      original glrlm RunLengthNonUniformity
                                0.003495364
                original_firstorder_Minimum
                                0.003470713
$model_list[[3]]$model_base
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
                                                      2.772e+01
original firstorder 90Percentile
                                                      1.082e+01
original_firstorder_Energy
                                                     -1.645e+01
original firstorder Entropy
                                                      6.994e+01
original_firstorder_InterquartileRange
                                                     -5.901e+01
original_firstorder_Kurtosis
                                                     -7.485e+00
```

Total no. of variables: 108

127.0.0.1:6523 27/60

original_firstorder_Maximum	1.069e+00
	-5.096e+01
original_firstorder_Mean	5.266e+01
original_firstorder_MeanAbsoluteDeviation	2.724e+01
original_firstorder_Median	
original_firstorder_Minimum	3.131e+01
original_firstorder_Range	0.000e+00
original_firstorder_RobustMeanAbsoluteDeviation	8.025e+01
original_firstorder_RootMeanSquared	-1.841e+01
original_firstorder_Skewness	2.404e+00
original_firstorder_TotalEnergy	0.000e+00
original_firstorder_Uniformity	5.439e+01
original_firstorder_Variance	3.764e+03
original_glcm_Autocorrelation	-3.397e+02
original_glcm_ClusterProminence	8.985e+02
original_glcm_ClusterShade	-7.149e+01
original_glcm_ClusterTendency	-1.863e+02
original_glcm_Contrast	-3.916e+02
original_glcm_Correlation	-2.275e+00
original_glcm_DifferenceAverage	5.947e+02
original_glcm_DifferenceEntropy	-6.472e+01
original_glcm_DifferenceVariance	-5.680e+02
original_glcm_Id	3.583e+03
original_glcm_Idm	-3.132e+03
original_glcm_Idmn	-2.276e+01
original_glcm_Idn	1.477e+01
original_glcm_Imc1	1.631e+01
original_glcm_Imc2	-7.699e+00
original_glcm_InverseVariance	3.014e+02
original_glcm_JointAverage	-2.258e+00
original_glcm_JointEnergy	-6.585e+01
original glcm JointEntropy	-6.515e+01
original_glcm_MCC	5.960e-01
original_glcm_MaximumProbability	9.207e+00
original_glcm_SumAverage	0.000e+00
original_glcm_SumEntropy	4.777e+01
original_glcm_SumSquares	0.000e+00
original_gldm_DependenceEntropy	6.546e+00
original_gldm_DependenceNonUniformity	-3.214e+01
original_gldm_DependenceNonUniformityNormalized	7.076e+01
original_gldm_DependenceVariance	5.449e+00
original_gldm_GrayLevelNonUniformity	-9.545e+00
original_gldm_GrayLevelVariance	-3.817e+03
original_gldm_HighGrayLevelEmphasis	4.589e+02
original_gldm_LargeDependenceEmphasis	6.088e+01
original_gldm_LargeDependenceHighGrayLevelEmphasis	-1.272e+00
original_gldm_LargeDependenceLowGrayLevelEmphasis	-3.628e+01
original_gldm_LowGrayLevelEmphasis	3.015e+02
original_gldm_SmallDependenceEmphasis	-1.253e+02
original_gldm_SmallDependenceHighGrayLevelEmphasis	5.708e+01
original_gldm_SmallDependenceLowGrayLevelEmphasis	9.132e+00
original_glrlm_GrayLevelNonUniformity	1.601e+01
original_glrlm_GrayLevelNonUniformityNormalized	2.920e+01
original_glrlm_GrayLevelVariance	8.631e+01
original_glrlm_HighGrayLevelRunEmphasis	2.290e+01
original_glrlm_LongRunEmphasis	-5.683e+01
original_glrlm_LongRunHighGrayLevelEmphasis	-1.373e+01

original_glrlm_LongRunLowGrayLevelEmphasis	-2.770e+01
original_glrlm_LowGrayLevelRunEmphasis	-9.890e+01
original_glrlm_RunEntropy	1.395e+01
original_glrlm_RunLengthNonUniformity	6.671e+01
original_glrlm_RunLengthNonUniformityNormalized	-9.676e+01
original_glrlm_RunPercentage	-6.537e+01
original_glrlm_RunVariance	4.267e+01
original_glrlm_ShortRunEmphasis	1.395e+02
original_glrlm_ShortRunHighGrayLevelEmphasis	-1.399e+02
original_glrlm_ShortRunLowGrayLevelEmphasis	-1.648e+02
original_glszm_GrayLevelNonUniformity	-1.796e+01
original_glszm_GrayLevelNonUniformityNormalized	-1.790e+01 -1.241e+00
original_glszm_GrayLevelVariance	3.866e+00
original_glszm_HighGrayLevelZoneEmphasis	2.571e+01
	-2.985e+02
original_glszm_LargeAreaEmphasis	1.369e+01
original_glszm_LargeAreaHighGrayLevelEmphasis	
original_glszm_LargeAreaLowGrayLevelEmphasis	4.574e+00
original_glszm_LowGrayLevelZoneEmphasis	-1.549e+01
original_glszm_SizeZoneNonUniformity	1.343e+01
original_glszm_SizeZoneNonUniformityNormalized	-9.607e+01
original_glszm_SmallAreaEmphasis	1.181e+02
original_glszm_SmallAreaHighGrayLevelEmphasis	-2.393e+01
original_glszm_SmallAreaLowGrayLevelEmphasis	4.418e+00
original_glszm_ZoneEntropy	-4.869e+00
original_glszm_ZonePercentage	3.414e+01
original_glszm_ZoneVariance	3.064e+02
original_ngtdm_Busyness	-2.822e+00
original_ngtdm_Coarseness	2.086e+00
original_ngtdm_Complexity	1.816e+00
original_ngtdm_Contrast	-4.752e+00
original_ngtdm_Strength	8.962e+00
original_shape_Elongation	1.166e+01
original_shape_Flatness	-1.676e+01
original_shape_LeastAxisLength	3.454e+01
original_shape_MajorAxisLength	1.028e+01
original_shape_Maximum2DDiameterColumn	-3.527e+00
original_shape_Maximum2DDiameterRow	-3.984e+00
original_shape_Maximum2DDiameterSlice	-3.510e+00
original_shape_Maximum3DDiameter	-2.068e+00
original_shape_MeshVolume	-6.064e+02
original_shape_MinorAxisLength	-1.375e+01
original_shape_Sphericity	-1.637e-01
original_shape_SurfaceArea	-1.776e+01
original_shape_SurfaceVolumeRatio	1.077e+02
original_shape_VoxelVolume	5.628e+02
	exp(coef)
original_firstorder_10Percentile	1.092e+12
original_firstorder_90Percentile	5.009e+04
original_firstorder_Energy	7.149e-08
original_firstorder_Entropy	2.362e+30
original_firstorder_InterquartileRange	2.365e-26
original_firstorder_Kurtosis	5.613e-04
original_firstorder_Maximum	2.913e+00
original_firstorder_Mean	7.420e-23
original_firstorder_MeanAbsoluteDeviation	1.937e+02
original_firstorder_Median	6.793e+11

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original_firstorder_Minimum	3.949e+13
original_firstorder_Range	1.000e+00
original_firstorder_RobustMeanAbsoluteDeviation	7.111e+34
original_firstorder_RootMeanSquared	1.010e-08
original_firstorder_Skewness	1.106e+01
original_firstorder_TotalEnergy	1.000e+00
original_firstorder_Uniformity	4.175e+23
original_firstorder_Variance	Inf
original_glcm_Autocorrelation	2.871e-148
original_glcm_ClusterProminence	Inf
original_glcm_ClusterShade	8.925e-32
original_glcm_ClusterTendency	1.181e-81
original_glcm_Contrast	8.728e-171
original_glcm_Correlation	1.028e-01
original_glcm_DifferenceAverage	1.837e+258
original_glcm_DifferenceEntropy	7.834e-29
original_glcm_DifferenceVariance	2.084e-247
original_glcm_Id	Inf
original_glcm_Idm	0.000e+00
original_glcm_Idmn	1.309e-10
original_glcm_Idn	2.593e+06
original_glcm_Imc1	1.210e+07
original_glcm_Imc2	4.531e-04
original_glcm_InverseVariance	7.684e+130
original_glcm_JointAverage	1.046e-01
original_glcm_JointEverage original_glcm_JointEnergy	2.516e-29
	5.069e-29
<pre>original_glcm_JointEntropy original_glcm_MCC</pre>	
	1.815e+00
original_glcm_MaximumProbability	9.972e+03
original_glcm_SumAverage	1.000e+00
original_glcm_SumEntropy	5.572e+20
original_glcm_SumSquares	1.000e+00
original_gldm_DependenceEntropy	6.964e+02
original_gldm_DependenceNonUniformity	1.106e-14
original_gldm_DependenceNonUniformityNormalized	5.358e+30
original_gldm_DependenceVariance	2.325e+02
original_gldm_GrayLevelNonUniformity	7.152e-05
original_gldm_GrayLevelVariance	0.000e+00
original_gldm_HighGrayLevelEmphasis	2.010e+199
original_gldm_LargeDependenceEmphasis	2.763e+26
original_gldm_LargeDependenceHighGrayLevelEmphasis	2.803e-01
original_gldm_LargeDependenceLowGrayLevelEmphasis	1.761e-16
original_gldm_LowGrayLevelEmphasis	8.465e+130
original_gldm_SmallDependenceEmphasis	3.940e-55
original_gldm_SmallDependenceHighGrayLevelEmphasis	6.159e+24
original_gldm_SmallDependenceLowGrayLevelEmphasis	9.250e+03
original_glrlm_GrayLevelNonUniformity	8.999e+06
original_glrlm_GrayLevelNonUniformityNormalized	4.807e+12
original_glrlm_GrayLevelVariance	3.049e+37
original_glrlm_HighGrayLevelRunEmphasis	8.778e+09
original_glrlm_LongRunEmphasis	2.093e-25
original_glrlm_LongRunHighGrayLevelEmphasis	1.086e-06
original_glrlm_LongRunLowGrayLevelEmphasis	9.324e-13
original_glrlm_LowGrayLevelRunEmphasis	1.118e-43
original_glrlm_RunEntropy	1.148e+06
original_glrlm_RunLengthNonUniformity	9.408e+28

9.467e-43

original_glrlm_RunPercentage	4.078e-29
original_glrlm_RunVariance	3.410e+18
original_glrlm_ShortRunEmphasis	3.717e+60
original_glrlm_ShortRunHighGrayLevelEmphasis	1.749e-61
original_glrlm_ShortRunLowGrayLevelEmphasis	2.558e-72
original_glszm_GrayLevelNonUniformity	1.588e-08
original_glszm_GrayLevelNonUniformityNormalized	2.891e-01
original_glszm_GrayLevelVariance	4.777e+01
original_glszm_HighGrayLevelZoneEmphasis	1.469e+11
original_glszm_LargeAreaEmphasis	2.257e-130
original_glszm_LargeAreaHighGrayLevelEmphasis	8.786e+05
original_glszm_LargeAreaLowGrayLevelEmphasis	9.690e+01
original_glszm_LowGrayLevelZoneEmphasis	1.868e-07
original_glszm_SizeZoneNonUniformity	6.820e+05
original_glszm_SizeZoneNonUniformityNormalized	1.890e-42
original_glszm_SmallAreaEmphasis	2.038e+51
original glszm SmallAreaHighGrayLevelEmphasis	4.058e-11
original_glszm_SmallAreaLowGrayLevelEmphasis	8.289e+01
original_glszm_ZoneEntropy	7.684e-03
original_glszm_ZonePercentage	6.744e+14
original_glszm_ZoneVariance	1.173e+133
original_ngtdm_Busyness	5.949e-02
original_ngtdm_Coarseness	8.049e+00
original_ngtdm_Complexity	6.148e+00
original_ngtdm_Contrast	8.635e-03
original_ngtdm_Strength	7.802e+03
original_shape_Elongation	1.157e+05
<pre>original_shape_Flatness original_shape_LeastAxisLength</pre>	5.241e-08 9.988e+14
original_shape_MajorAxisLength	2.923e+04
<pre>original_shape_Maximum2DDiameterColumn original_shape_Maximum2DDiameterRow</pre>	2.940e-02 1.862e-02
original_shape_Maximum2DDiameterSlice	2.989e-02
original_shape_Maximum3DDiameter	1.264e-01
original_shape_MeshVolume	4.440e-264
original_shape_MinorAxisLength	1.068e-06
original_shape_Sphericity	8.490e-01
original_shape_SurfaceArea	1.928e-08
original_shape_SurfaceVolumeRatio	6.055e+46
original_shape_VoxelVolume	2.688e+244
	se(coef)
original_firstorder_10Percentile	2.085e+01
original_firstorder_90Percentile	1.519e+01
original_firstorder_Energy	6.347e+00
original_firstorder_Entropy	8.826e+01
original_firstorder_InterquartileRange	4.126e+01
original_firstorder_Kurtosis	2.945e+00
original_firstorder_Maximum	2.613e+00
original_firstorder_Mean	4.101e+01
original_firstorder_MeanAbsoluteDeviation	5.160e+01
original_firstorder_Median	2.038e+01
original_firstorder_Minimum	2.390e+01
original_firstorder_Range	0.000e+00
original_firstorder_RobustMeanAbsoluteDeviation	5.326e+01
original_firstorder_RootMeanSquared	1.078e+01

original\_glrlm\_RunLengthNonUniformityNormalized

original_firstorder_Skewness	1.849e+00
original_firstorder_TotalEnergy	0.000e+00
original_firstorder_Uniformity	4.023e+01
original_firstorder_Variance	1.610e+03
original_glcm_Autocorrelation	3.911e+02
original_glcm_ClusterProminence	3.370e+02
original_glcm_ClusterShade	7.469e+01
original_glcm_ClusterTendency	6.782e+01
original_glcm_Contrast	7.364e+02
original_glcm_Correlation	2.864e+00
original_glcm_DifferenceAverage	2.940e+02
original_glcm_DifferenceEntropy	5.020e+01
original_glcm_DifferenceVariance	4.803e+02
original_glcm_Id	1.584e+03
original_glcm_Idm	1.334e+03
	1.334e+03 1.013e+01
original_glcm_Idmn	
original_glcm_Idn	9.482e+00
original_glcm_Imc1	9.441e+00
original_glcm_Imc2	1.010e+01
original_glcm_InverseVariance	1.416e+02
original_glcm_JointAverage	3.698e+01
original_glcm_JointEnergy	3.291e+01
original_glcm_JointEntropy	5.420e+01
original_glcm_MCC	2.458e+00
original_glcm_MaximumProbability	3.504e+00
original_glcm_SumAverage	0.000e+00
original_glcm_SumEntropy	5.074e+01
original_glcm_SumSquares	0.000e+00
original_gldm_DependenceEntropy	2.674e+01
original_gldm_DependenceNonUniformity	1.631e+01
original_gldm_DependenceNonUniformityNormalized	2.104e+01
original_gldm_DependenceVariance	1.716e+01
original_gldm_GrayLevelNonUniformity	7.471e+00
original_gldm_GrayLevelVariance	1.597e+03
original_gldm_HighGrayLevelEmphasis	4.828e+02
original_gldm_LargeDependenceEmphasis	7.341e+01
original_gldm_LargeDependenceHighGrayLevelEmphasis	1.692e+01
original_gldm_LargeDependenceLowGrayLevelEmphasis	4.368e+01
original_gldm_LowGrayLevelEmphasis	1.367e+02
original_gldm_SmallDependenceEmphasis	5.322e+01
original_gldm_SmallDependenceHighGrayLevelEmphasis	2.228e+01
original_gldm_SmallDependenceLowGrayLevelEmphasis	1.222e+01
original_glrlm_GrayLevelNonUniformity	9.186e+00
original_glrlm_GrayLevelNonUniformityNormalized	1.575e+01
original_glrlm_GrayLevelVariance	6.311e+01
original_glrlm_HighGrayLevelRunEmphasis	2.234e+02
original_glrlm_LongRunEmphasis	4.869e+01
original_glrlm_LongRunHighGrayLevelEmphasis	7.794e+00
original_glrlm_LongRunLowGrayLevelEmphasis	9.462e+00
original_glrlm_LowGrayLevelRunEmphasis	1.418e+02
original_glrlm_RunEntropy	5.303e+01
original_glrlm_RunLengthNonUniformity	2.487e+01
original_glrlm_RunLengthNonUniformityNormalized	8.140e+01
original_glrlm_RunPercentage	1.186e+02
original_glrlm_RunVariance	3.966e+01
original_glrlm_ShortRunEmphasis	6.087e+01
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original_glrlm_ShortRunHighGrayLevelEmphasis	7.703e+01
original_glrlm_ShortRunLowGrayLevelEmphasis	1.601e+02
original_glszm_GrayLevelNonUniformity	7.114e+00
original_glszm_GrayLevelNonUniformityNormalized	5.107e+00
original_glszm_GrayLevelVariance	7.867e+00
original_glszm_HighGrayLevelZoneEmphasis	3.249e+01
original_glszm_LargeAreaEmphasis	6.396e+02
original_glszm_LargeAreaHighGrayLevelEmphasis	5.557e+00
original glszm LargeAreaLowGrayLevelEmphasis	1.282e+01
original_glszm_LowGrayLevelZoneEmphasis	2.088e+01
	8.675e+00
original_glszm_SizeZoneNonUniformity	
original_glszm_SizeZoneNonUniformityNormalized	3.113e+01
original_glszm_SmallAreaEmphasis	3.664e+01
original_glszm_SmallAreaHighGrayLevelEmphasis	1.772e+01
original_glszm_SmallAreaLowGrayLevelEmphasis	1.127e+01
original_glszm_ZoneEntropy	6.920e+00
original_glszm_ZonePercentage	2.983e+01
original_glszm_ZoneVariance	6.388e+02
original_ngtdm_Busyness	7.769e+00
original_ngtdm_Coarseness	2.741e+00
original_ngtdm_Complexity	9.990e+00
original_ngtdm_Contrast	2.011e+01
original_ngtdm_Strength	3.854e+00
original_shape_Elongation	4.716e+00
original_shape_Flatness	6.665e+00
original_shape_LeastAxisLength	1.388e+01
original_shape_MajorAxisLength	4.288e+00
original_shape_Maximum2DDiameterColumn	2.703e+00
original_shape_Maximum2DDiameterRow	2.409e+00
original_shape_Maximum2DDiameterSlice	2.527e+00
original_shape_Maximum3DDiameter	5.101e+00
original_shape_MeshVolume	3.937e+02
original_shape_MinorAxisLength	6.705e+00
original_shape_Sphericity	7.419e+00
original_shape_SurfaceArea	5.799e+00
original_shape_SurfaceVolumeRatio	6.021e+01
original_shape_VoxelVolume	3.919e+02
	z
original_firstorder_10Percentile	1.330
original_firstorder_90Percentile	0.712
original_firstorder_Energy	-2.592
original_firstorder_Entropy	0.792
original_firstorder_InterquartileRange	-1.430
original_firstorder_Kurtosis	-2.542
original_firstorder_Maximum	0.409
original_firstorder_Mean	-1.243
original_firstorder_MeanAbsoluteDeviation	0.102
original_firstorder_Median	1.337
original_firstorder_Minimum	1.310
original_firstorder_Range	NaN
original_firstorder_RobustMeanAbsoluteDeviation	1.507
original_firstorder_RootMeanSquared	-1.708
original_firstorder_Skewness	1.300
original_firstorder_TotalEnergy	NaN
original_firstorder_Uniformity	1.352
original_firstorder_Variance	2.338

_	4/2025, 11.00 Olimated examples	ioi tiio oui
	original_glcm_Autocorrelation	-0.869
	original_glcm_ClusterProminence	2.666
	original_glcm_ClusterShade	-0.957
	original_glcm_ClusterTendency	-2.748
	original_glcm_Contrast	-0.532
	original_glcm_Correlation	-0.794
	original_glcm_DifferenceAverage	2.023
	original_glcm_DifferenceEntropy	-1.289
	original_glcm_DifferenceVariance	-1.183
	original_glcm_Id	2.262
	original_glcm_Idm	-2.348
	original_glcm_Idmn	-2.245
	original_glcm_Idn	1.557
	original_glcm_Imc1	1.727
	original_glcm_Imc2	-0.762
	original_glcm_InverseVariance	2.128
	original_glcm_JointAverage	-0.061
	original_glcm_JointEnergy	-2.001
	original_glcm_JointEntropy	-1.202
	original_glcm_MCC	0.242
	original_glcm_MaximumProbability	2.628
	original_glcm_SumAverage	NaN
	original_glcm_SumEntropy	0.942
	original_glcm_SumSquares	NaN
	original_gldm_DependenceEntropy	0.245 -1.970
	original_gldm_DependenceNonUniformity	
	original_gldm_DependenceNonUniformityNormalized	3.363 0.318
	original_gldm_DependenceVariance	
	original_gldm_GrayLevelNonUniformity	-1.278
	original_gldm_GrayLevelVariance	-2.390
	original_gldm_HighGrayLevelEmphasis	0.951 0.829
	original_gldm_LargeDependenceEmphasis	
	original_gldm_LargeDependenceHighGrayLevelEmphasis	
	original_gldm_LargeDependenceLowGrayLevelEmphasis	-0.830
	original_gldm_LowGrayLevelEmphasis	2.205
	original_gldm_SmallDependenceEmphasis	-2.354
	original_gldm_SmallDependenceHighGrayLevelEmphasis	2.562
	original_gldm_SmallDependenceLowGrayLevelEmphasis	0.747
	original_glrlm_GrayLevelNonUniformity	1.743
	original_glrlm_GrayLevelNonUniformityNormalized	1.854
	original_glrlm_GrayLevelVariance	1.368
	original_glrlm_HighGrayLevelRunEmphasis	0.102
	original_glrlm_LongRunEmphasis	-1.167
	original_glrlm_LongRunHighGrayLevelEmphasis	-1.762
	original_glrlm_LongRunLowGrayLevelEmphasis	-2.928
	original_glrlm_LowGrayLevelRunEmphasis	-0.697
	original_glrlm_RunEntropy	0.263
	original_glrlm_RunLengthNonUniformity	2.682
	original_glrlm_RunLengthNonUniformityNormalized	-1.189
	original_glrlm_RunPercentage	-0.551
	original_glrlm_RunVariance	1.076
	original_glrlm_ShortRunEmphasis	2.291
	original_glrlm_ShortRunHighGrayLevelEmphasis	-1.816
	original_glrlm_ShortRunLowGrayLevelEmphasis	-1.030
	original_glszm_GrayLevelNonUniformity	-2.524
	$original\_glszm\_GrayLevelNonUniformityNormalized$	-0.243

127.0.0.1:6523 34/60

original_glszm_GrayLevelVariance	0.491
original_glszm_HighGrayLevelZoneEmphasis	0.792
original_glszm_LargeAreaEmphasis	-0.467
original_glszm_LargeAreaHighGrayLevelEmphasis	2.463
original_glszm_LargeAreaLowGrayLevelEmphasis	0.357
original_glszm_LowGrayLevelZoneEmphasis	-0.742
original_glszm_SizeZoneNonUniformity	1.549
original_glszm_SizeZoneNonUniformityNormalized	-3.086
original_glszm_SmallAreaEmphasis	3.224
original_glszm_SmallAreaHighGrayLevelEmphasis	-1.350
original_glszm_SmallAreaLowGrayLevelEmphasis	0.392
original_glszm_ZoneEntropy	-0.704
original_glszm_ZonePercentage	1.144
original_glszm_ZoneVariance	0.480
original_ngtdm_Busyness	-0.363
original_ngtdm_Coarseness	0.761
original_ngtdm_Complexity	0.182
original_ngtdm_Contrast	-0.236
original_ngtdm_Strength	2.325
original_shape_Elongation	2.472
original_shape_Flatness	-2.515
original_shape_LeastAxisLength	2.488
original_shape_MajorAxisLength	2.398
original_shape_Maximum2DDiameterColumn	-1.305
original_shape_Maximum2DDiameterRow	-1.654
original_shape_Maximum2DDiameterSlice	-1.389
original_shape_Maximum3DDiameter	-0.405
original_shape_MeshVolume	-0.403
original_shape_MinorAxisLength	-2.051
original_shape_Sphericity	-0.022
original_shape_SurfaceArea	-3.064
original_shape_SurfaceVolumeRatio	1.789
original_shape_VoxelVolume	1.436
	p
original_firstorder_10Percentile	0.183634
original_firstorder_90Percentile	0.476174
original_firstorder_Energy	0.009534
original_firstorder_Entropy	0.428142
original_firstorder_InterquartileRange	0.152672
original_firstorder_Kurtosis	0.011038
original_firstorder_Maximum	0.682378
original_firstorder_Mean	0.213995
original_firstorder_MeanAbsoluteDeviation	0.918715
original_firstorder_Median	0.181365
original_firstorder_Minimum	0.190170
original_firstorder_Range	NaN
original_firstorder_RobustMeanAbsoluteDeviation	0.131871
original_firstorder_RootMeanSquared	0.087655
original_firstorder_Skewness	0.193581
original_firstorder_TotalEnergy	NaN
original_firstorder_Uniformity	0.176374
original_firstorder_Variance	0.019410
original_glcm_Autocorrelation	0.385054
original_glcm_ClusterProminence	0.007669
original_glcm_ClusterShade	0.338467
original_glcm_ClusterTendency	0.006000
I	

i	oniginal alem Contract	0 504006
	original_glcm_Contrast	0.594906
	original_glcm_Correlation	0.427049
	original_glcm_DifferenceAverage	0.043110
	original_glcm_DifferenceEntropy	0.197312
	original_glcm_DifferenceVariance	0.236932
	original_glcm_Id	0.023712
	original_glcm_Idm	0.018859
	original_glcm_Idmn	0.024746
	original_glcm_Idn	0.119353
	original_glcm_Imc1	0.084081
	original_glcm_Imc2	0.445867
	original_glcm_InverseVariance	0.033350
	original_glcm_JointAverage	0.951313
	original_glcm_JointEnergy	0.045409
	original_glcm_JointEntropy	0.229320
	original_glcm_MCC	0.808441
	original_glcm_MaximumProbability	0.008599
	original glcm SumAverage	NaN
	original_glcm_SumEntropy	0.346437
	original_glcm_SumSquares	NaN
	original_gldm_DependenceEntropy	0.806603
	original_gldm_DependenceNonUniformity	0.048804
	original_gldm_DependenceNonUniformityNormalized	0.000771
	original_gldm_DependenceVariance	0.750860
	original_gldm_GrayLevelNonUniformity	0.201362
	original_gldm_GrayLevelVariance	0.016838
	original_gldm_HighGrayLevelEmphasis	0.341853
	original_gldm_LargeDependenceEmphasis	0.406921
	original_gldm_LargeDependenceHighGrayLevelEmphasis	
	original_gldm_LargeDependenceLowGrayLevelEmphasis	0.406257
	original_gldm_LowGrayLevelEmphasis	0.027471
	original_gldm_SmallDependenceEmphasis	0.018575
	original_gldm_SmallDependenceHighGrayLevelEmphasis	0.010410
	original_gldm_SmallDependenceLowGrayLevelEmphasis	0.454992
	original_glrlm_GrayLevelNonUniformity	0.081303
	original_glrlm_GrayLevelNonUniformityNormalized	0.063753
	original_glrlm_GrayLevelVariance	0.171400
	original_glrlm_HighGrayLevelRunEmphasis	0.918360
	original_glrlm_LongRunEmphasis	0.243185
	original_glrlm_LongRunHighGrayLevelEmphasis	0.078061
	original_glrlm_LongRunLowGrayLevelEmphasis	0.003416
	original_glrlm_LowGrayLevelRunEmphasis	0.485598
	original_glrlm_RunEntropy	0.792437
	original_glrlm_RunLengthNonUniformity	0.007311
	original_glrlm_RunLengthNonUniformityNormalized	0.234563
	original_glrlm_RunPercentage	0.581560
	original_glrlm_RunVariance	0.281924
	original_glrlm_ShortRunEmphasis	0.021946
	original_glrlm_ShortRunHighGrayLevelEmphasis	0.069363
	original_glrlm_ShortRunLowGrayLevelEmphasis	0.303211
	original_glszm_GrayLevelNonUniformity	0.011587
	original_glszm_GrayLevelNonUniformityNormalized	0.808029
	original_glszm_GrayLevelVariance	0.623079
	original_glszm_HighGrayLevelZoneEmphasis	0.428637
	original_glszm_LargeAreaEmphasis	0.640682
	original_glszm_LargeAreaHighGrayLevelEmphasis	0.013783
1		

```
original glszm LargeAreaLowGrayLevelEmphasis
                                                    0.721309
original glszm LowGrayLevelZoneEmphasis
                                                    0.458065
original glszm SizeZoneNonUniformity
                                                    0.121497
original glszm SizeZoneNonUniformityNormalized
                                                    0.002028
original_glszm_SmallAreaEmphasis
                                                    0.001264
original glszm SmallAreaHighGrayLevelEmphasis
                                                    0.176983
original_glszm_SmallAreaLowGrayLevelEmphasis
                                                    0.695071
original_glszm_ZoneEntropy
                                                    0.481733
original_glszm_ZonePercentage
                                                    0.252431
original_glszm_ZoneVariance
                                                    0.631451
                                                    0.716434
original_ngtdm_Busyness
original_ngtdm_Coarseness
                                                    0.446652
original_ngtdm_Complexity
                                                    0.855746
original_ngtdm_Contrast
                                                    0.813222
original_ngtdm_Strength
                                                    0.020048
original_shape_Elongation
                                                    0.013420
original shape Flatness
                                                    0.011899
                                                    0.012844
original shape LeastAxisLength
original_shape_MajorAxisLength
                                                    0.016474
original shape Maximum2DDiameterColumn
                                                    0.191963
original shape Maximum2DDiameterRow
                                                    0.098206
original shape Maximum2DDiameterSlice
                                                    0.164876
original_shape_Maximum3DDiameter
                                                    0.685188
original_shape_MeshVolume
                                                    0.123485
original shape MinorAxisLength
                                                    0.040301
original_shape_Sphericity
                                                    0.982393
original_shape_SurfaceArea
                                                    0.002187
original shape SurfaceVolumeRatio
                                                    0.073593
original_shape_VoxelVolume
                                                    0.150953
```

Likelihood ratio test=247.5 on 107 df, p=3.836e-13 n= 361, number of events= 48

```
$model_list[[4]]
```

## \$model list[[4]]\$beststats

## \$model\_list[[4]]\$allstats

\$1100C1_113C[[+]]\$0113C0C3						
	mtry	nodesize	nodedepth	time	AUCROC	BS
V1	10	15	50	3.1	0.7602697	0.08321738
V2	10	20	50	3.1	0.7608874	0.08300318
V3	10	25	50	3.1	0.7607269	0.08259782
V4	10	30	50	3.1	0.7678388	0.08191559
V5	10	35	50	3.1	0.7665710	0.08176579
V11	11	30	50	3.1	0.7631123	0.08210626
V21	22	30	50	3.1	0.7634669	0.08316447
V31	36	30	50	3.1	0.7644084	0.08395157
V41	54	30	50	3.1	0.7640097	0.08474569
V51	10	30	50	3.1	0.7678388	0.08191559
	BS_s	scaled	C_score C	alib_a	alpha Cali	o_slope
V1	0.058	889266 0.	7178152 -0	.00798	34552 0.0	6726286
V2	0.063	131504 0.	7212610 -0	.0054	55016 0.	7135028

127.0.0.1:6523 37/60

```
V3 0.06589928 0.7222874 -0.003941519
                                        0.7549913
V4 0.07361466 0.7278592 -0.002844504
                                         0.7926165
V5 0.07530877 0.7273460 -0.002634537
                                         0.8249558
V11 0.07145832 0.7248534 -0.005048551
                                         0.7687994
V21 0.05949102 0.7299120 -0.005081660
                                        0.6675303
V31 0.05058968 0.7263930 -0.005765490
                                        0.6094436
V41 0.04160900 0.7302419 -0.009240307
                                        0.6067582
V51 0.07361466 0.7278592 -0.002844504
                                        0.7926165
$model_list[[4]]$model
                         Sample size: 360
                    Number of deaths: 41
                     Number of trees: 500
           Forest terminal node size: 30
       Average no. of terminal nodes: 10.09
No. of variables tried at each split: 10
              Total no. of variables: 108
       Resampling used to grow trees: swor
    Resample size used to grow trees: 228
                            Analysis: RSF
                              Family: surv
                      Splitting rule: logrank *random*
       Number of random split points: 50
                          (OOB) CRPS: 0.05393577
   (OOB) Requested performance error: 0.26629279
$model_list[[4]]$vimp10
                  original_glszm_GrayLevelVariance
                                       0.011756720
                         original_firstorder_Range
                                       0.008301261
                                original_glcm_Idmn
                                       0.008085168
       original_glrlm_LongRunHighGrayLevelEmphasis
                                        0.006733094
                       original_firstorder_Maximum
                                        0.006493826
   original glszm GrayLevelNonUniformityNormalized
                                        0.006385598
            original_glrlm_LowGrayLevelRunEmphasis
                                        0.005626575
              original_glszm_SizeZoneNonUniformity
                                        0.004869926
original_gldm_LargeDependenceHighGrayLevelEmphasis
                                        0.004813248
       original glrlm ShortRunLowGrayLevelEmphasis
                                        0.004805400
                        original_firstorder_Energy
                                        0.004221467
     original glszm SmallAreaHighGrayLevelEmphasis
                                        0.003863291
     original_glszm_LargeAreaHighGrayLevelEmphasis
                                        0.003799731
                     original_glcm_Autocorrelation
                                       0.003702055
```

127.0.0.1:6523

## original\_glcm\_Idn 0.003649688

\$model\_list[[4]]\$model\_base Call: coxph(formula = as.formula(paste("Surv(df\_train\$time, df\_train\$event) ~", paste(predict.factors, collapse = "+"))), data = df\_train, x = TRUEcoef 2.960e+00 original\_firstorder\_10Percentile original\_firstorder\_90Percentile 3.526e-01 original\_firstorder\_Energy -7.371e-01 original\_firstorder\_Entropy -2.582e+01 original\_firstorder\_InterquartileRange 1.481e+00 original\_firstorder\_Kurtosis 4.341e-01 original firstorder Maximum 2.691e-01 -1.872e+00 original firstorder Mean original\_firstorder\_MeanAbsoluteDeviation 1.220e+01 original\_firstorder\_Median -7.229e-01 original firstorder Minimum 1.014e+01 original firstorder Range 0.000e+00 original\_firstorder\_RobustMeanAbsoluteDeviation 1.166e-01 original\_firstorder\_RootMeanSquared -2.108e+00 original firstorder Skewness 5.727e-01 original\_firstorder\_TotalEnergy 0.000e+00 original\_firstorder\_Uniformity -9.457e+00 original\_firstorder\_Variance 4.677e+02 original\_glcm\_Autocorrelation -6.582e+01 original\_glcm\_ClusterProminence -3.445e+00 original\_glcm\_ClusterShade -1.195e+00 -4.464e+00 original\_glcm\_ClusterTendency 1.976e+02 original\_glcm\_Contrast original\_glcm\_Correlation -3.892e+00 -1.834e+01 original\_glcm\_DifferenceAverage 2.589e+00 original\_glcm\_DifferenceEntropy -1.799e+02 original\_glcm\_DifferenceVariance original\_glcm\_Id 5.752e+01 original\_glcm\_Idm -7.627e+01 original\_glcm\_Idmn -2.229e+00 original\_glcm\_Idn -5.497e-01 original\_glcm\_Imc1 -4.354e+00 original glcm Imc2 -2.722e-01 original\_glcm\_InverseVariance 4.018e+00 original\_glcm\_JointAverage 1.045e+01 original glcm JointEnergy 3.959e-01 -9.359e+00 original glcm JointEntropy original glcm MCC 6.271e-01 original\_glcm\_MaximumProbability 2.384e+00 original glcm SumAverage 0.000e+00 original glcm SumEntropy 6.646e+00 original glcm SumSquares 0.000e+00 original\_gldm\_DependenceEntropy -4.882e+00 original gldm DependenceNonUniformity 6.606e+00 original\_gldm\_DependenceNonUniformityNormalized -8.894e-01 original\_gldm\_DependenceVariance -2.716e+00

127.0.0.1:6523 39/60

original_gldm_GrayLevelNonUniformity	-7.835e-01
original_gldm_GrayLevelVariance	-4.568e+02
original_gldm_HighGrayLevelEmphasis	8.309e+01
original_gldm_LargeDependenceEmphasis	-7.511e+00
original_gldm_LargeDependenceHighGrayLevelEmphasis	1.219e+01
original_gldm_LargeDependenceLowGrayLevelEmphasis	-9.661e+00
original_gldm_LowGrayLevelEmphasis	-7.169e+00
original_gldm_SmallDependenceEmphasis	1.547e+01
original_gldm_SmallDependenceHighGrayLevelEmphasis	-8.169e-01
original_gldm_SmallDependenceLowGrayLevelEmphasis	5.826e+00
original_glrlm_GrayLevelNonUniformity	6.051e-01
original_glrlm_GrayLevelNonUniformityNormalized	4.871e+00
original_glrlm_GrayLevelVariance	-8.751e+00
original_glrlm_HighGrayLevelRunEmphasis	-5.527e+00
original_glrlm_LongRunHighCroyLovelEmphasis	1.296e+01
original_glrlm_LongRunHighGrayLevelEmphasis	-1.747e+00
original_glrlm_LongRunLowGrayLevelEmphasis	3.070e+00
original_glrlm_LowGrayLevelRunEmphasis	5.894e+01
original_glrlm_RunEntropy	2.406e+01
original_glrlm_RunLengthNonUniformity	4.952e+00
original_glrlm_RunLengthNonUniformityNormalized	-2.063e+01
original_glrlm_RunPercentage	-1.736e+01
original_glrlm_RunVariance	-1.761e+01
original_glrlm_ShortRunEmphasis	1.850e+01
original_glrlm_ShortRunHighGrayLevelEmphasis	4.396e+01
original_glrlm_ShortRunLowGrayLevelEmphasis	-4.793e+01
original_glszm_GrayLevelNonUniformity	8.616e-01
original_glszm_GrayLevelNonUniformityNormalized	2.374e+00
<pre>original_glszm_GrayLevelVariance original_glszm_HighGrayLevelZoneEmphasis</pre>	6.992e-01 -2.150e+01
original_glszm_LargeAreaEmphasis	-1.064e+02
original_glszm_LargeAreaHighGrayLevelEmphasis	3.540e-02
original_glszm_LargeAreaLowGrayLevelEmphasis	1.858e+00
original glszm LowGrayLevelZoneEmphasis	-4.816e+00
original_glszm_SizeZoneNonUniformity	1.695e+00
original glszm SizeZoneNonUniformityNormalized	-4.991e+00
original_glszm_SmallAreaEmphasis	2.421e+00
original_glszm_SmallAreaHighGrayLevelEmphasis	1.458e+01
original_glszm_SmallAreaLowGrayLevelEmphasis	-2.321e-01
original_glszm_ZoneEntropy	2.467e+00
original glszm ZonePercentage	-2.251e+01
original_glszm_ZoneVariance	1.082e+01
original_ngtdm_Busyness	-2.848e+00
original_ngtdm_Coarseness	5.281e-01
original_ngtdm_Complexity	-2.983e+00
original_ngtdm_Contrast	-8.163e+00
original_ngtdm_Strength	2.794e-01
original_shape_Elongation	1.190e+00
original_shape_Flatness	-1.102e+00
original_shape_LeastAxisLength	2.393e+00
original_shape_MajorAxisLength	6.482e-01
original_shape_Maximum2DDiameterColumn	-1.591e+00
original_shape_Maximum2DDiameterRow	2.450e-01
original_shape_Maximum2DDiameterSlice	-8.457e-01
original_shape_Maximum3DDiameter	3.192e+00
original_shape_MeshVolume	2.821e+02

127.0.0.1:6523 40/60

	4 050 00
original_shape_MinorAxisLength	-1.258e+00
original_shape_Sphericity	6.896e-01
original_shape_SurfaceArea	-3.724e+00
original_shape_SurfaceVolumeRatio	2.979e+01
original_shape_VoxelVolume	-2.916e+02
	exp(coef)
original_firstorder_10Percentile	1.930e+01
original_firstorder_90Percentile	1.423e+00
original_firstorder_Energy	4.785e-01
original_firstorder_Entropy	6.127e-12
original_firstorder_InterquartileRange	4.399e+00
original_firstorder_Kurtosis	1.544e+00
original_firstorder_Maximum	1.309e+00
original_firstorder_Mean	1.538e-01
original_firstorder_MeanAbsoluteDeviation	1.994e+05
original_firstorder_Median	4.854e-01
original_firstorder_Minimum	2.534e+04
original firstorder Range	1.000e+00
original_firstorder_RobustMeanAbsoluteDeviation	1.124e+00
original_firstorder_RootMeanSquared	1.214e-01
	1.773e+00
original_firstorder_Skewness	
original_firstorder_TotalEnergy	1.000e+00
original_firstorder_Uniformity	7.816e-05
original_firstorder_Variance	1.336e+203
original_glcm_Autocorrelation	2.605e-29
original_glcm_ClusterProminence	3.192e-02
original_glcm_ClusterShade	3.028e-01
original_glcm_ClusterTendency	1.152e-02
original_glcm_Contrast	6.768e+85
original_glcm_Correlation	2.040e-02
original_glcm_DifferenceAverage	1.089e-08
original_glcm_DifferenceEntropy	1.331e+01
original_glcm_DifferenceVariance	7.731e-79
original_glcm_Id	9.581e+24
original_glcm_Idm	7.520e-34
original_glcm_Idmn	1.076e-01
original_glcm_Idn	5.771e-01
original_glcm_Imc1	1.285e-02
original_glcm_Imc2	7.617e-01
original_glcm_InverseVariance	5.559e+01
original_glcm_JointAverage	3.455e+04
original_glcm_JointEnergy	1.486e+00
original_glcm_JointEntropy	8.619e-05
original_glcm_MCC	1.872e+00
original_glcm_MaximumProbability	1.085e+01
original_glcm_SumAverage	1.000e+00
original_glcm_SumEntropy	7.699e+02
original_glcm_SumSquares	1.000e+00
original_gldm_DependenceEntropy	7.581e-03
original_gldm_DependenceNonUniformity	7.399e+02
original_gldm_DependenceNonUniformityNormalized	4.109e-01
original_gldm_DependenceVariance	6.613e-02
original_gldm_GrayLevelNonUniformity	4.568e-01
original_gldm_GrayLevelVariance	4.061e-199
original_gldm_HighGrayLevelEmphasis	1.217e+36
original_gldm_LargeDependenceEmphasis	5.469e-04

127.0.0.1:6523 41/60

original_gldm_LargeDependenceHighGrayLevelEmphasi	s 1.964e+05
original_gldm_LargeDependenceLowGrayLevelEmphasis	6.374e-05
original_gldm_LowGrayLevelEmphasis	7.704e-04
original_gldm_SmallDependenceEmphasis	5.209e+06
original_gldm_SmallDependenceHighGrayLevelEmphasi	
original_gldm_SmallDependenceLowGrayLevelEmphasis	3.391e+02
original_glrlm_GrayLevelNonUniformity	1.831e+00
original_glrlm_GrayLevelNonUniformityNormalized	1.305e+02
original glrlm GrayLevelVariance	1.583e-04
original_glrlm_HighGrayLevelRunEmphasis	9.873e-25
original_glrlm_LongRunEmphasis	4.233e+05
original_glrlm_LongRunHighGrayLevelEmphasis	1.743e-01
original_glrlm_LongRunLowGrayLevelEmphasis	2.155e+01
original_glrlm_LowGrayLevelRunEmphasis	3.975e+25
original glrlm RunEntropy	
	2.821e+10 1.414e+02
original_glrlm_RunLengthNonUniformity	
original_glrlm_RunLengthNonUniformityNormalized	1.100e-09
original_glrlm_RunPercentage	2.879e-08
original_glrlm_RunVariance	2.244e-08
original_glrlm_ShortRunEmphasis	1.082e+08
original_glrlm_ShortRunHighGrayLevelEmphasis	1.240e+19
original_glrlm_ShortRunLowGrayLevelEmphasis	1.528e-21
original_glszm_GrayLevelNonUniformity	2.367e+00
original_glszm_GrayLevelNonUniformityNormalized	1.074e+01
original_glszm_GrayLevelVariance	2.012e+00
original_glszm_HighGrayLevelZoneEmphasis	4.591e-10
original_glszm_LargeAreaEmphasis	6.421e-47
original_glszm_LargeAreaHighGrayLevelEmphasis	1.036e+00
original_glszm_LargeAreaLowGrayLevelEmphasis	6.411e+00
original_glszm_LowGrayLevelZoneEmphasis	8.100e-03
original_glszm_SizeZoneNonUniformity	5.446e+00
original_glszm_SizeZoneNonUniformityNormalized	6.796e-03
original_glszm_SmallAreaEmphasis	1.126e+01
original_glszm_SmallAreaHighGrayLevelEmphasis	2.149e+06
original_glszm_SmallAreaLowGrayLevelEmphasis	7.929e-01
original_glszm_ZoneEntropy	1.179e+01
original_glszm_ZonePercentage	1.671e-10
original_glszm_ZoneVariance	9.893e+46
original_ngtdm_Busyness	5.794e-02
original_ngtdm_Coarseness	1.696e+00
original_ngtdm_Complexity	5.064e-02
original_ngtdm_Contrast	2.849e-04
original_ngtdm_Strength	1.322e+00
original_shape_Elongation	3.288e+00
original_shape_Flatness	3.322e-01
original_shape_LeastAxisLength	1.094e+01
original_shape_MajorAxisLength	1.912e+00
original_shape_Maximum2DDiameterColumn	2.038e-01
original_shape_Maximum2DDiameterRow	1.278e+00
original_shape_Maximum2DDiameterSlice	4.293e-01
original_shape_Maximum3DDiameter	2.434e+01
original_shape_MeshVolume	3.175e+122
original_shape_MinorAxisLength	2.843e-01
original_shape_Sphericity	1.993e+00
original_shape_SurfaceArea	2.413e-02
original_shape_SurfaceVolumeRatio	8.638e+12

127.0.0.1:6523 42/60

94/2020, 11.00 Simulated example	53 IOI LIIC SULVIVAL CIR
original_shape_VoxelVolume	2.385e-127
	se(coef)
original_firstorder_10Percentile	1.315e-01
original_firstorder_90Percentile	9.475e-02
original_firstorder_Energy	7.491e-02
original_firstorder_Entropy	1.394e-01
original_firstorder_InterquartileRange	1.479e-01
original_firstorder_Kurtosis	1.384e-01
original_firstorder_Maximum	1.361e-01
original_firstorder_Mean	1.327e-01
original_firstorder_MeanAbsoluteDeviation	1.266e-01
original_firstorder_Median	1.501e-01
original_firstorder_Minimum	1.667e-01
original_firstorder_Range	1.410e-01
original_firstorder_RobustMeanAbsoluteDeviation	1.513e-01
original_firstorder_RootMeanSquared	1.318e-01
original_firstorder_Skewness	1.480e-01
original_firstorder_TotalEnergy	7.491e-02
original_firstorder_Uniformity	1.580e-01
original_firstorder_Variance	1.980e-01
original_glcm_Autocorrelation	1.622e-01
original_glcm_ClusterProminence	4.524e-01
original_glcm_ClusterShade	2.735e-01
original_glcm_ClusterTendency	1.721e-01
original_glcm_Contrast	4.022e-01
original_glcm_Correlation	1.559e-01
original_glcm_DifferenceAverage	1.506e-01
original_glcm_DifferenceEntropy	1.446e-01
original_glcm_DifferenceVariance	4.220e-01
original_glcm_Id	1.420e-01
original_glcm_Idm	1.407e-01
original_glcm_Idmn	1.704e-01
original_glcm_Idn	1.522e-01
original_glcm_Imc1	1.508e-01
original_glcm_Imc2	1.739e-01
original_glcm_InverseVariance	1.522e-01
original_glcm_JointAverage	1.613e-01
original_glcm_JointEnergy	1.722e-01
original_glcm_JointEntropy	1.368e-01
original_glcm_MCC	1.814e-01
original_glcm_MaximumProbability	1.616e-01
original_glcm_SumAverage	1.613e-01
original_glcm_SumEntropy	1.410e-01
original_glcm_SumSquares	2.011e-01
original_gldm_DependenceEntropy	1.512e-01
original_gldm_DependenceNonUniformity	1.200e-01
original_gldm_DependenceNonUniformityNormalized	1.669e-01
original_gldm_DependenceVariance	1.600e-01
original_gldm_GrayLevelNonUniformity	1.068e-01
original_gldm_GrayLevelVariance	1.978e-01
original_gldm_HighGrayLevelEmphasis	1.622e-01
original_gldm_LargeDependenceEmphasis	1.647e-01
original_gldm_LargeDependenceHighGrayLevelEmphasi	
original_gldm_LargeDependenceLowGrayLevelEmphasis	2.943e-01
original_gldm_LowGrayLevelEmphasis	1.112e-01
original_gldm_SmallDependenceEmphasis	1.655e-01

127.0.0.1:6523 43/60

original_gldm_SmallDependenceHighGrayLevelEmphasis	1.430e-01
original_gldm_SmallDependenceLowGrayLevelEmphasis	1.430e-01
original_glrlm_GrayLevelNonUniformity	1.089e-01
original_glrlm_GrayLevelNonUniformityNormalized	1.516e-01
original_glrlm_GrayLevelVariance	1.899e-01
original_glrlm_HighGrayLevelRunEmphasis	1.616e-01
original_glrlm_LongRunEmphasis	1.961e-01
original_glrlm_LongRunHighGrayLevelEmphasis	1.362e-01
original_glrlm_LongRunLowGrayLevelEmphasis	2.079e-01
original_glrlm_LowGrayLevelRunEmphasis	1.157e-01
original_glrlm_RunEntropy	1.509e-01
original_glrlm_RunLengthNonUniformity	1.076e-01
original_glrlm_RunLengthNonUniformityNormalized	1.642e-01
original_glrlm_RunPercentage	1.640e-01
original_glrlm_RunVariance	2.024e-01
original_glrlm_ShortRunEmphasis	1.643e-01
original_glrlm_ShortRunHighGrayLevelEmphasis	1.632e-01
original_glrlm_ShortRunLowGrayLevelEmphasis	1.043e-01
original_glszm_GrayLevelNonUniformity	1.142e-01
original_glszm_GrayLevelNonUniformityNormalized	1.740e-01
original_glszm_GrayLevelVariance	1.413e-01
original_glszm_HighGrayLevelZoneEmphasis	1.530e-01
original_glszm_LargeAreaEmphasis	1.144e-01
original_glszm_LargeAreaHighGrayLevelEmphasis	8.544e-02
original_glszm_LargeAreaLowGrayLevelEmphasis	3.212e-01
original_glszm_LowGrayLevelZoneEmphasis	1.785e-01
original_glszm_SizeZoneNonUniformity	9.519e-02
original_glszm_SizeZoneNonUniformityNormalized	1.536e-01
original_glszm_SmallAreaEmphasis	1.471e-01
original_glszm_SmallAreaHighGrayLevelEmphasis	1.450e-01
original_glszm_SmallAreaLowGrayLevelEmphasis	2.181e-01
original_glszm_ZoneEntropy	1.639e-01
original_glszm_ZonePercentage	1.643e-01
original_glszm_ZoneVariance	1.142e-01
original_ngtdm_Busyness	3.147e-01
original_ngtdm_Coarseness	1.067e-01
original_ngtdm_Complexity	1.780e-01
original_ngtdm_Contrast	3.274e-01
original_ngtdm_Strength	2.971e-01
original_shape_Elongation	1.508e-01
original_shape_Flatness	1.692e-01
original_shape_LeastAxisLength	1.309e-01
original_shape_MajorAxisLength	1.455e-01
original_shape_Maximum2DDiameterColumn	1.431e-01
original_shape_Maximum2DDiameterRow	1.304e-01
original_shape_Maximum2DDiameterSlice	1.439e-01
original_shape_Maximum3DDiameter	1.419e-01
original_shape_MeshVolume	1.015e-01
original_shape_MinorAxisLength	1.469e-01
original_shape_Sphericity	1.815e-01
original_shape_SurfaceArea	1.041e-01
original_shape_SurfaceVolumeRatio	1.611e-01
original_shape_VoxelVolume	1.011e-01 1.016e-01
o. 181101_310pc_voxe1vo10111c	7.010E-01
original_firstorder_10Percentile	22.504
original_firstorder_90Percentile	3.721
5. 1811/01_11 3 col del _301 el cellette	J• / ZI

127.0.0.1:6523 44/60

· · · · · · ·	0.044
original_firstorder_Energy	-9.841
original_firstorder_Entropy	-185.184
original_firstorder_InterquartileRange	10.015
original_firstorder_Kurtosis	3.136
original_firstorder_Maximum	1.977
original_firstorder_Mean	-14.105
original_firstorder_MeanAbsoluteDeviation	96.358
original_firstorder_Median	-4.814
original_firstorder_Minimum	60.831
original_firstorder_Range	0.000
original_firstorder_RobustMeanAbsoluteDeviation	0.771
original_firstorder_RootMeanSquared	-15.992
original_firstorder_Skewness	3.869
original_firstorder_TotalEnergy	0.000
original_firstorder_Uniformity	-59.865
original_firstorder_Variance	2362.552
original_glcm_Autocorrelation	-405.864
original_glcm_ClusterProminence	-7.614
original_glcm_ClusterShade	-4.368
original_glcm_ClusterTendency	-25.934
original_glcm_Contrast	491.335
original_glcm_Correlation	-24.973
original_glcm_DifferenceAverage	-121.726
original_glcm_DifferenceEntropy	17.899
original_glcm_DifferenceVariance	-426.204
original_glcm_Id	405.116
original_glcm_Idm	-542.232
original_glcm_Idmn	-13.083
original_glcm_Idn	-3.611
original_glcm_Imc1	-28.866
	-1.565
original_glcm_Imc2	
original_glcm_InverseVariance	26.398
original_glcm_JointAverage	64.801
original_glcm_JointEnergy	2.299
original_glcm_JointEntropy	-68.431
original_glcm_MCC	3.457
original_glcm_MaximumProbability	14.756
original_glcm_SumAverage	0.000
original_glcm_SumEntropy	47.143
original_glcm_SumSquares	0.000
original_gldm_DependenceEntropy	-32.279
original_gldm_DependenceNonUniformity	55.069
original_gldm_DependenceNonUniformityNormalized	-5.331
original_gldm_DependenceVariance	-16.976
original_gldm_GrayLevelNonUniformity	-7.340
original_gldm_GrayLevelVariance	-2310.039
original_gldm_HighGrayLevelEmphasis	512.415
original_gldm_LargeDependenceEmphasis	-45.598
original_gldm_LargeDependenceHighGrayLevelEmphasis	93.853
original_gldm_LargeDependenceLowGrayLevelEmphasis	-32.824
original_gldm_LowGrayLevelEmphasis	-64.494
original_gldm_SmallDependenceEmphasis	93.464
original_gldm_SmallDependenceHighGrayLevelEmphasis	-5.711
original_gldm_SmallDependenceLowGrayLevelEmphasis	44.892
original_glrlm_GrayLevelNonUniformity	5.555
original_glrlm_GrayLevelNonUniformityNormalized	32.121

127.0.0.1:6523 45/60

original_glrlm_GrayLevelVariance	-46.084
original_glrlm_HighGrayLevelRunEmphasis	-341.989
original_glrlm_LongRunEmphasis	66.080
original_glrlm_LongRunHighGrayLevelEmphasis	-12.828
original_glrlm_LongRunLowGrayLevelEmphasis	14.766
original_glrlm_LowGrayLevelRunEmphasis	509.299
original_glrlm_RunEntropy	159.494
original_glrlm_RunLengthNonUniformity	46.031
original_glrlm_RunLengthNonUniformityNormalized	-125.604
original_glrlm_RunPercentage	-105.843
original_glrlm_RunVariance	-87.027
original_glrlm_ShortRunEmphasis	112.625
original_glrlm_ShortRunHighGrayLevelEmphasis	269.433
original_glrlm_ShortRunLowGrayLevelEmphasis	-459.586
original_glszm_GrayLevelNonUniformity	7.545
original_glszm_GrayLevelNonUniformityNormalized	13.645
original_glszm_GrayLevelVariance	4.947
original_glszm_HighGrayLevelZoneEmphasis	-140.500
original_glszm_LargeAreaEmphasis	-930.128
original_glszm_LargeAreaHighGrayLevelEmphasis	0.414
original_glszm_LargeAreaLowGrayLevelEmphasis	5.785
original_glszm_LowGrayLevelZoneEmphasis	-26.979
original_glszm_SizeZoneNonUniformity	17.804
original_glszm_SizeZoneNonUniformityNormalized	-32.487
original_glszm_SmallAreaEmphasis	16.460
original_glszm_SmallAreaHighGrayLevelEmphasis	100.564
original_glszm_SmallAreaLowGrayLevelEmphasis	-1.064
original_glszm_ZoneEntropy	15.055
original_glszm_ZonePercentage	-137.006
original_glszm_ZoneVariance	947.408
	-9.051
original_ngtdm_Busyness	4.949
original_ngtdm_Coarseness	
original_ngtdm_Complexity	-16.761
original_ngtdm_Contrast	-24.936
original_ngtdm_Strength	0.940
original_shape_Elongation	7.892
original_shape_Flatness	-6.512
original_shape_LeastAxisLength	18.280
original_shape_MajorAxisLength	4.456
original_shape_Maximum2DDiameterColumn	-11.115
original_shape_Maximum2DDiameterRow	1.878
original_shape_Maximum2DDiameterSlice	-5.876
original_shape_Maximum3DDiameter	22.492
original_shape_MeshVolume	2779.567
original_shape_MinorAxisLength	-8.564
original_shape_Sphericity	3.799
original_shape_SurfaceArea	-35.783
original_shape_SurfaceVolumeRatio	184.892
original_shape_VoxelVolume	-2869.596 p
original_firstorder_10Percentile	< 2e-16
original_firstorder_90Percentile	0.000198
original_firstorder_Energy	< 2e-16
original_firstorder_Entropy	< 2e-16
original_firstorder_InterquartileRange	< 2e-16
original_firstorder_Kurtosis	0.001713

127.0.0.1:6523 46/60

original_firstorder_Maximum	0.048004
original_firstorder_Mean	< 2e-16
original_firstorder_MeanAbsoluteDeviation	< 2e-16
original_firstorder_Median	1.48e-06
original_firstorder_Minimum	< 2e-16
original_firstorder_Range	1.000000
original_firstorder_RobustMeanAbsoluteDeviation	0.440619
original_firstorder_RootMeanSquared	< 2e-16
original firstorder Skewness	0.000109
original_firstorder_TotalEnergy	1.000000
	< 2e-16
<pre>original_firstorder_Uniformity original_firstorder_Variance</pre>	< 2e-16
original_glcm_Autocorrelation	< 2e-16
original_glcm_ClusterProminence	2.66e-14
	1.26e-05
original_glcm_ClusterShade	< 2e-16
original_glcm_ClusterTendency	< 2e-16
original_glcm_Contrast	
original_glcm_Correlation	< 2e-16 < 2e-16
original_glcm_DifferenceAverage	< 2e-16
original_glcm_DifferenceEntropy	< 2e-16
original_glcm_DifferenceVariance	< 2e-16
original_glcm_Id original_glcm_Idm	< 2e-16
original_glcm_Idmn	< 2e-16
original_glcm_Idn	0.000305
original_glcm_Imc1	< 2e-16
original_glcm_Imc2	0.117504
original_glcm_InverseVariance	< 2e-16
original_glcm_JointAverage	< 2e-16
original_glcm_JointEnergy	0.021506
original_glcm_JointEntropy	< 2e-16
original_glcm_MCC	0.000547
original_glcm_MaximumProbability	< 2e-16
original_glcm_SumAverage	1.000000
original_glcm_SumEntropy	< 2e-16
original_glcm_SumSquares	1.000000
original_gldm_DependenceEntropy	< 2e-16
original_gldm_DependenceNonUniformity	< 2e-16
original_gldm_DependenceNonUniformityNormalized	9.78e-08
original_gldm_DependenceVariance	< 2e-16
original_gldm_GrayLevelNonUniformity	2.14e-13
original_gldm_GrayLevelVariance	< 2e-16
original_gldm_HighGrayLevelEmphasis	< 2e-16
original_gldm_LargeDependenceEmphasis	< 2e-16
original_gldm_LargeDependenceHighGrayLevelEmphasi	
original_gldm_LargeDependenceLowGrayLevelEmphasis	< 2e-16
original_gldm_LowGrayLevelEmphasis	< 2e-16
original_gldm_SmallDependenceEmphasis	< 2e-16
original_gldm_SmallDependenceHighGrayLevelEmphasis	s 1.12e-08
original_gldm_SmallDependenceLowGrayLevelEmphasis	< 2e-16
original_glrlm_GrayLevelNonUniformity	2.78e-08
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
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127.0.0.1:6523 47/60

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	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	4.51e-14
	$original\_glszm\_GrayLevelNonUniformityNormalized$	< 2e-16
	original_glszm_GrayLevelVariance	7.55e-07
	original_glszm_HighGrayLevelZoneEmphasis	< 2e-16
	original_glszm_LargeAreaEmphasis	< 2e-16
	original_glszm_LargeAreaHighGrayLevelEmphasis	0.678648
	original_glszm_LargeAreaLowGrayLevelEmphasis	7.25e-09
	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	0.287194
	original_glszm_ZoneEntropy	< 2e-16
	original_glszm_ZonePercentage	< 2e-16
	original_glszm_ZoneVariance	< 2e-16
	original_ngtdm_Busyness	< 2e-16
	original_ngtdm_Coarseness	7.45e-07
	original_ngtdm_Complexity	< 2e-16
	original_ngtdm_Contrast	< 2e-16
	original_ngtdm_Strength	0.347027
	original_shape_Elongation	2.96e-15
	original_shape_Flatness	7.42e-11
	original_shape_LeastAxisLength	< 2e-16
	original_shape_MajorAxisLength	8.33e-06
	original_shape_Maximum2DDiameterColumn	< 2e-16
	original_shape_Maximum2DDiameterRow	0.060327
	original_shape_Maximum2DDiameterSlice	4.21e-09
	original_shape_Maximum3DDiameter	< 2e-16
	original_shape_MeshVolume	< 2e-16
	original_shape_MinorAxisLength	< 2e-16
	original_shape_Sphericity	0.000145
	original_shape_SurfaceArea	< 2e-16
	original_shape_SurfaceVolumeRatio	< 2e-16
	original_shape_VoxelVolume	< 2e-16

Likelihood ratio test=152.5 on 107 df, p=0.002555 n= 360, number of events= 41  $\,$ 

127.0.0.1:6523 48/60

```
$model list[[5]]$allstats
    mtry nodesize nodedepth time
                                    AUCROC
                         50 2.9 0.7025773 0.09945580
٧1
      10
V2
      10
               20
                         50 2.9 0.7046136 0.09770040
V3
      10
               25
                         50 2.9 0.7078916 0.09667952
      10
                         50 2.9 0.7033093 0.09664975
V4
               30
V5
      10
               35
                         50 2.9 0.7023334 0.09628744
      11
               25
                         50 2.9 0.7034005 0.09660093
V11
V21
      22
               25
                         50 2.9 0.7036749 0.09935315
               25
V31
                         50 2.9 0.7104649 0.10016759
      36
V41
      54
               25
                         50 2.9 0.6962607 0.10322200
V51
               25
                         50 2.9 0.7078916 0.09667952
      10
       BS_scaled C_score Calib_alpha Calib_slope
   -0.026368071 0.6601282 -0.010678872
V1
                                          0.5220824
   -0.008252650 0.6601923 -0.007552643
                                          0.5655618
    0.002282655 0.6624359 -0.006120078
                                          0.6080943
    0.002589860 0.6596154 -0.005732171
                                          0.6179576
    0.006328902 0.6586538 -0.005525848
                                          0.6454607
V11 0.003093697 0.6577564 -0.006779652
                                          0.5846161
V21 -0.025308748 0.6642949 -0.008885029
                                          0.5235958
V31 -0.033713725 0.6671795 -0.012733174
                                          0.4802442
V41 -0.065234700 0.6549359 -0.014024237
                                          0.4067751
V51 0.002282655 0.6624359 -0.006120078
                                          0.6080943
$model_list[[5]]$model
                         Sample size: 361
                    Number of deaths: 47
                     Number of trees: 500
           Forest terminal node size: 25
       Average no. of terminal nodes: 14.196
No. of variables tried at each split: 36
              Total no. of variables: 108
       Resampling used to grow trees: swor
    Resample size used to grow trees: 228
                            Analysis: RSF
                              Family: surv
                      Splitting rule: logrank *random*
       Number of random split points: 50
                          (00B) CRPS: 0.0679014
   (OOB) Requested performance error: 0.32199859
$model_list[[5]]$vimp10
                                original_glcm_Idmn
                                       0.014567894
            original glrlm LowGrayLevelRunEmphasis
                                       0.012356981
                original_gldm_LowGrayLevelEmphasis
                                       0.008811431
                    original shape MajorAxisLength
                                       0.008632579
                       original_firstorder_Maximum
                                       0.008091244
```

original\_glrlm\_ShortRunLowGrayLevelEmphasis

127.0.0.1:6523 49/60

0.007107992

```
original_shape_Maximum2DDiameterColumn
                                       0.007011701
           original_glszm_LowGrayLevelZoneEmphasis
                                       0.006997435
original_gldm_LargeDependenceHighGrayLevelEmphasis
                                       0.006994841
                  original_gldm_DependenceVariance
                                       0.006231697
                         original_firstorder_Range
                                       0.005698445
                         original_shape_Sphericity
                                       0.005099836
             original_glrlm_RunLengthNonUniformity
                                       0.004314611
                  original_glszm_GrayLevelVariance
                                       0.003802989
                         original_ngtdm_Complexity
                                       0.003215001
$model_list[[5]]$model_base
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
                                                      2.537e+02
original_firstorder_90Percentile
                                                     1.216e+02
                                                     -5.394e+01
original_firstorder_Energy
original_firstorder_Entropy
                                                     7.815e+01
original_firstorder_InterquartileRange
                                                    -2.031e+02
                                                     6.668e+00
original_firstorder_Kurtosis
                                                    -1.525e+00
original_firstorder_Maximum
original_firstorder_Mean
                                                     -7.775e+02
original_firstorder_MeanAbsoluteDeviation
                                                    -2.501e+02
original_firstorder_Median
                                                     4.026e+02
                                                      3.091e+02
original_firstorder_Minimum
original_firstorder_Range
                                                      0.000e+00
original firstorder RobustMeanAbsoluteDeviation
                                                      3.580e+02
original firstorder RootMeanSquared
                                                      1.933e+01
original_firstorder_Skewness
                                                     6.335e+00
original_firstorder_TotalEnergy
                                                     0.000e+00
original firstorder Uniformity
                                                     -3.577e+01
original_firstorder_Variance
                                                      1.928e+04
original_glcm_Autocorrelation
                                                     -7.756e+02
original glcm ClusterProminence
                                                     4.921e+03
                                                     7.546e+02
original glcm ClusterShade
original_glcm_ClusterTendency
                                                     -1.140e+02
original_glcm_Contrast
                                                     7.476e+03
original glcm Correlation
                                                     -2.884e+01
original glcm DifferenceAverage
                                                     -6.436e+01
original glcm DifferenceEntropy
                                                      3.400e+02
original_glcm_DifferenceVariance
                                                     -8.295e+03
original glcm Id
                                                      3.395e+03
                                                     -2.906e+03
original_glcm_Idm
original_glcm_Idmn
                                                     -1.074e+02
```

127.0.0.1:6523 50/60

original_glcm_Idn	1.041e+02
original_glcm_Imc1	-7.310e+01
original_glcm_Imc2	-7.217e+01
original_glcm_InverseVariance	3.255e+02
original_glcm_JointAverage	1.837e+02
original_glcm_JointEnergy	-2.245e+01
original_glcm_JointEntropy	-3.632e+01
	1.453e+01
original_glcm_MCC	
<pre>original_glcm_MaximumProbability original_glcm_SumAverage</pre>	4.959e+01
	0.000e+00
original_glcm_SumEntropy	1.391e+02
original_glcm_SumSquares	0.000e+00
original_gldm_DependenceEntropy	1.813e+02
original_gldm_DependenceNonUniformity	-8.487e+01
original_gldm_DependenceNonUniformityNormalized	2.102e+02
original_gldm_DependenceVariance	-1.788e+01
original_gldm_GrayLevelNonUniformity	9.643e+00
original_gldm_GrayLevelVariance	-2.041e+04
original_gldm_HighGrayLevelEmphasis	-3.778e+02
original_gldm_LargeDependenceEmphasis	5.606e+02
original_gldm_LargeDependenceHighGrayLevelEmphasis	1.757e+02
original_gldm_LargeDependenceLowGrayLevelEmphasis	-1.584e+02
original_gldm_LowGrayLevelEmphasis	-9.875e+01
original_gldm_SmallDependenceEmphasis	-1.713e+02
<pre>original_gldm_SmallDependenceHighGrayLevelEmphasis</pre>	2.023e+01
original_gldm_SmallDependenceLowGrayLevelEmphasis	-7.487e+00
original_glrlm_GrayLevelNonUniformity	1.048e+02
original_glrlm_GrayLevelNonUniformityNormalized	5.979e+01
original_glrlm_GrayLevelVariance	7.530e+02
original_glrlm_HighGrayLevelRunEmphasis	6.944e+02
original_glrlm_LongRunEmphasis	-2.665e+02
original_glrlm_LongRunHighGrayLevelEmphasis	-5.263e+01
original_glrlm_LongRunLowGrayLevelEmphasis	-8.931e+01
original_glrlm_LowGrayLevelRunEmphasis	9.725e+02
original_glrlm_RunEntropy	4.715e+01
original_glrlm_RunLengthNonUniformity	2.708e+02
original_glrlm_RunLengthNonUniformityNormalized	-1.821e+02
original_glrlm_RunPercentage	9.787e+02
original_glrlm_RunVariance	2.188e+02
original_glrlm_ShortRunEmphasis	-2.366e+02
original_glrlm_ShortRunHighGrayLevelEmphasis	5.670e+02
original_glrlm_ShortRunLowGrayLevelEmphasis	-7.002e+02
original_glszm_GrayLevelNonUniformity	-3.030e+01
original_glszm_GrayLevelNonUniformityNormalized	7.505e+01
original_glszm_GrayLevelVariance	5.345e+01
original_glszm_HighGrayLevelZoneEmphasis	-4.450e+01
original_glszm_LargeAreaEmphasis	-3.671e+03
original_glszm_LargeAreaHighGrayLevelEmphasis	8.432e+00
original_glszm_LargeAreaLowGrayLevelEmphasis	-6.121e+01
original_glszm_LowGrayLevelZoneEmphasis	-7.579e+01
original_glszm_SizeZoneNonUniformity	1.964e+01
original_glszm_SizeZoneNonUniformityNormalized	-8.359e+01
original_glszm_SmallAreaEmphasis	1.129e+02
original_glszm_SmallAreaHighGrayLevelEmphasis	-3.683e+01
original_glszm_SmallAreaLowGrayLevelEmphasis	5.704e+01
original_glszm_ZoneEntropy	4.558e+01

127.0.0.1:6523 51/60

34/2023, 11.30 Simulated exam	ripies for the survival en
original_glszm_ZonePercentage	9.315e+01
original_glszm_ZoneVariance	3.708e+03
original_ngtdm_Busyness	1.652e+01
original_ngtdm_Coarseness	-1.165e+01
original_ngtdm_Complexity	-1.007e+01
original_ngtdm_Contrast	8.718e+01
original_ngtdm_Strength	-4.112e+01
original_shape_Elongation	3.659e+01
original shape Flatness	-3.366e+01
original_shape_LeastAxisLength	5.629e+01
original_shape_MajorAxisLength	4.536e+01
original_shape_Maximum2DDiameterColumn	-2.273e+01
original_shape_Maximum2DDiameterRow	-2.547e+00
original_shape_Maximum2DDiameterSlice	-2.621e+01
original_shape_Maximum3DDiameter	2.304e+01
original_shape_MeshVolume	7.311e+03
original_shape_MinorAxisLength	-2.343e+01
original_shape_Sphericity	-4.570e+00
original_shape_SurfaceArea	-7.155e+01
original_shape_SurfaceVolumeRatio	-4.887e+01
original_shape_VoxelVolume	-7.570e+03
or iginal_shape_voxelvolume	exp(coef)
original_firstorder_10Percentile	1.541e+110
original_firstorder_90Percentile	6.527e+52
original_firstorder_sweetcentile	3.733e-24
original_firstorder_Energy original_firstorder_Entropy	8.755e+33
	6.145e-89
original_firstorder_InterquartileRange	
original_firstorder_Kurtosis	7.868e+02 2.176e-01
original_firstorder_Maximum	
original_firstorder_Mean	0.000e+00
original_firstorder_MeanAbsoluteDeviation	2.397e-109
original_firstorder_Median	7.233e+174
original_firstorder_Minimum	1.734e+134
original_firstorder_Range	1.000e+00
original_firstorder_RobustMeanAbsoluteDeviation	
original_firstorder_RootMeanSquared	2.472e+08
original_firstorder_Skewness	5.640e+02
original_firstorder_TotalEnergy	1.000e+00
original_firstorder_Uniformity	2.920e-16
original_firstorder_Variance	Inf
original_glcm_Autocorrelation	0.000e+00
original_glcm_ClusterProminence	Inf
original_glcm_ClusterShade	Inf
original_glcm_ClusterTendency	3.183e-50
original_glcm_Contrast	Inf
original_glcm_Correlation	2.991e-13
original_glcm_DifferenceAverage	1.123e-28
original_glcm_DifferenceEntropy	4.533e+147
original_glcm_DifferenceVariance	0.000e+00
original_glcm_Id	Inf
original_glcm_Idm	0.000e+00
original_glcm_Idmn	2.339e-47
original_glcm_Idn	1.651e+45
original_glcm_Imc1	1.795e-32
original_glcm_Imc2	4.532e-32
original_glcm_InverseVariance	2.301e+141

127.0.0.1:6523 52/60

original_glcm_JointAverage	5.870e+79
original_glcm_JointEnergy	1.771e-10
original_glcm_JointEntropy	1.807e-158
original_glcm_MCC	2.044e+06
original_glcm_MaximumProbability	3.441e+21
original_glcm_SumAverage	1.000e+00
original_glcm_SumEntropy	2.666e+60
original_glcm_SumSquares	1.000e+00
original_gldm_DependenceEntropy	5.740e+78
original_gldm_DependenceNonUniformity	1.380e-37
original_gldm_DependenceNonUniformityNormalized	1.887e+91
original_gldm_DependenceVariance	1.723e-08
original_gldm_GrayLevelNonUniformity	1.542e+04
original_gldm_GrayLevelVariance	0.000e+00
original_gldm_HighGrayLevelEmphasis	8.000e-165
original_gldm_LargeDependenceEmphasis	2.809e+243
original_gldm_LargeDependenceHighGrayLevelEmphasi	s 2.088e+76
original_gldm_LargeDependenceLowGrayLevelEmphasis	1.691e-69
original_gldm_LowGrayLevelEmphasis	1.303e-43
original_gldm_SmallDependenceEmphasis	4.112e-75
original_gldm_SmallDependenceHighGrayLevelEmphasi	s 6.137e+08
original_gldm_SmallDependenceLowGrayLevelEmphasis	5.603e-04
original_glrlm_GrayLevelNonUniformity	3.405e+45
original_glrlm_GrayLevelNonUniformityNormalized	9.273e+25
original_glrlm_GrayLevelVariance	Inf
original_glrlm_HighGrayLevelRunEmphasis	3.781e+301
original_glrlm_LongRunEmphasis	1.746e-116
original_glrlm_LongRunHighGrayLevelEmphasis	1.386e-23
original_glrlm_LongRunLowGrayLevelEmphasis	1.638e-39
original_glrlm_LowGrayLevelRunEmphasis	Inf
original_glrlm_RunEntropy	3.000e+20
original_glrlm_RunLengthNonUniformity	3.901e+117
original_glrlm_RunLengthNonUniformityNormalized	8.140e-80
original_glrlm_RunPercentage	Inf
original_glrlm_RunVariance	1.045e+95
original_glrlm_ShortRunEmphasis	1.824e-103
original_glrlm_ShortRunHighGrayLevelEmphasis	1.783e+246
original_glrlm_ShortRunLowGrayLevelEmphasis	8.366e-305
original_glszm_GrayLevelNonUniformity	6.947e-14
original_glszm_GrayLevelNonUniformityNormalized	3.931e+32
original_glszm_GrayLevelVariance	1.641e+23
original_glszm_HighGrayLevelZoneEmphasis	4.709e-20
original_glszm_LargeAreaEmphasis	0.000e+00
original_glszm_LargeAreaHighGrayLevelEmphasis	4.590e+03
original_glszm_LargeAreaLowGrayLevelEmphasis	2.609e-27
original_glszm_LowGrayLevelZoneEmphasis	1.214e-33
original_glszm_SizeZoneNonUniformity	3.399e+08
original_glszm_SizeZoneNonUniformityNormalized	4.961e-37
original_glszm_SmallAreaEmphasis	1.106e+49
original_glszm_SmallAreaHighGrayLevelEmphasis	1.013e-16
original_glszm_SmallAreaLowGrayLevelEmphasis	5.902e+24
original_glszm_ZoneEntropy	6.245e+19
original_glszm_ZonePercentage	2.847e+40
original_glszm_ZoneVariance	Inf
original_ngtdm_Busyness	1.490e+07
original_ngtdm_Coarseness	8.759e-06
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127.0.0.1:6523 53/60

original_ngtdm_Complexity	4.214e-05
original_ngtdm_Contrast	7.252e+37
original_ngtdm_Strength	1.389e-18
original_shape_Elongation	7.807e+15
original_shape_Flatness	2.403e-15
original_shape_LeastAxisLength	2.796e+24
original_shape_MajorAxisLength	4.984e+19
original_shape_Maximum2DDiameterColumn	1.344e-10
original_shape_Maximum2DDiameterRow	7.830e-02
original_shape_Maximum2DDiameterSlice	4.124e-12
original_shape_Maximum3DDiameter	1.013e+10
original_shape_MeshVolume	Inf
original_shape_MinorAxisLength	6.654e-11
original_shape_Sphericity	1.036e-02
original_shape_SurfaceArea	8.398e-32
original_shape_SurfaceVolumeRatio	5.981e-22
original_shape_VoxelVolume	0.000e+00
	se(coef)
original_firstorder_10Percentile	3.043e-01
original_firstorder_90Percentile	8.815e-02
original_firstorder_Energy	1.694e-01
original_firstorder_Entropy	1.293e-01
original_firstorder_InterquartileRange	1.401e-01
original_firstorder_Kurtosis	1.243e-01
original_firstorder_Maximum	1.364e-01
original_firstorder_Mean	1.664e-01
original_firstorder_MeanAbsoluteDeviation	1.693e-01
original_firstorder_Median	1.464e-01
original_firstorder_Minimum	1.513e-01
original_firstorder_Minimum original_firstorder_Range	1.446e-01
original_firstorder_RobustMeanAbsoluteDeviation	1.480e-01 1.689e-01
original_firstorder_RootMeanSquared	
original_firstorder_Skewness	1.132e-01
original_firstorder_TotalEnergy	1.694e-01
original_firstorder_Uniformity	1.282e-01
original_firstorder_Variance	3.647e-01
original_glcm_Autocorrelation	1.463e-01
original_glcm_ClusterProminence	6.016e+00
original_glcm_ClusterShade	1.032e+00
original_glcm_ClusterTendency	3.679e-01
original_glcm_Contrast	8.143e-01
original_glcm_Correlation	1.526e-01
original_glcm_DifferenceAverage	1.465e-01
original_glcm_DifferenceEntropy	1.329e-01
original_glcm_DifferenceVariance	1.078e+00
original_glcm_Id	1.226e-01
original_glcm_Idm	1.227e-01
original_glcm_Idmn	1.617e-01
original_glcm_Idn	1.364e-01
original_glcm_Imc1	1.414e-01
original_glcm_Imc2	1.645e-01
original_glcm_InverseVariance	1.237e-01
original_glcm_JointAverage	1.451e-01
original_glcm_JointEnergy	1.185e-01
original_glcm_JointEntropy	1.234e-01
original_glcm_MCC	1.773e-01

127.0.0.1:6523 54/60

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original_glcm_MaximumProbability	1.299e-01
original_glcm_SumAverage	1.451e-01
original_glcm_SumEntropy	1.288e-01
original_glcm_SumSquares	4.165e-01
original_gldm_DependenceEntropy	1.193e-01
original_gldm_DependenceNonUniformity	8.564e-02
original_gldm_DependenceNonUniformityNormalized	1.061e-01
original_gldm_DependenceVariance	1.509e-01
original_gldm_GrayLevelNonUniformity	9.765e-02
original_gldm_GrayLevelVariance	3.645e-01
original_gldm_HighGrayLevelEmphasis	1.465e-01
original_gldm_LargeDependenceEmphasis	1.558e-01
original_gldm_LargeDependenceHighGrayLevelEmphasis	1.327e-01
original_gldm_LargeDependenceLowGrayLevelEmphasis	4.065e-01
original_gldm_LowGrayLevelEmphasis	1.132e-01
original_gldm_SmallDependenceEmphasis	1.454e-01
original_gldm_SmallDependenceHighGrayLevelEmphasis	1.335e-01
original_gldm_SmallDependenceLowGrayLevelEmphasis	1.137e-01
original_glrlm_GrayLevelNonUniformity	9.010e-02
original_glrlm_GrayLevelNonUniformityNormalized	1.249e-01
original_glrlm_GrayLevelVariance	3.285e-01
original_glrlm_HighGrayLevelRunEmphasis	1.462e-01
original_glrlm_LongRunEmphasis	8.882e-02
original_glrlm_LongRunHighGrayLevelEmphasis	1.050e-01
original_glrlm_LongRunLowGrayLevelEmphasis	2.666e-01
original_glrlm_LowGrayLevelRunEmphasis	1.147e-01
original_glrlm_RunEntropy	1.308e-01
original_glrlm_RunLengthNonUniformity	9.839e-02
original_glrlm_RunLengthNonUniformityNormalized	1.463e-01
original_glrlm_RunPercentage	1.500e-01
original_glrlm_RunVariance	8.149e-02
original_glrlm_ShortRunEmphasis	1.500e-01
original_glrlm_ShortRunHighGrayLevelEmphasis	1.466e-01
original_glrlm_ShortRunLowGrayLevelEmphasis	1.021e-01
original_glszm_GrayLevelNonUniformity	1.044e-01
original_glszm_GrayLevelNonUniformityNormalized	1.636e-01
original_glszm_GrayLevelVariance	1.962e-01
original_glszm_HighGrayLevelZoneEmphasis	1.489e-01
original_glszm_LargeAreaEmphasis	1.072e-01
original_glszm_LargeAreaHighGrayLevelEmphasis	8.833e-02
original_glszm_LargeAreaLowGrayLevelEmphasis	4.284e-01
original_glszm_LowGrayLevelZoneEmphasis	1.563e-01
original_glszm_SizeZoneNonUniformity	1.136e-01
original_glszm_SizeZoneNonUniformityNormalized	1.492e-01
original_glszm_SmallAreaEmphasis	1.398e-01
original_glszm_SmallAreaHighGrayLevelEmphasis	1.517e-01
original_glszm_SmallAreaLowGrayLevelEmphasis	1.844e-01
original_glszm_ZoneEntropy	1.539e-01
original_glszm_ZonePercentage	1.427e-01
original_glszm_ZoneVariance	1.070e-01
original_ngtdm_Busyness	3.304e-01
original_ngtdm_Coarseness	9.572e-02
original_ngtdm_Complexity	1.940e-01
original_ngtdm_Contrast	4.862e-01
original_ngtdm_Strength	2.795e-01
original_shape_Elongation	1.504e-01

127.0.0.1:6523 55/60

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original_shape_Flatness	1.603e-01
original_shape_LeastAxisLength	1.198e-01
original_shape_MajorAxisLength	1.192e-01
original_shape_Maximum2DDiameterColumn	1.150e-01
original_shape_Maximum2DDiameterRow	1.260e-01
original_shape_Maximum2DDiameterSlice	1.253e-01
original_shape_Maximum3DDiameter	1.098e-01
original_shape_MeshVolume	9.541e-02
original_shape_MinorAxisLength	1.286e-01
original_shape_Sphericity	1.627e-01
original_shape_SurfaceArea	9.967e-02
original_shape_SurfaceVolumeRatio	1.398e-01
original_shape_VoxelVolume	9.550e-02
	Z
original_firstorder_10Percentile	833.65
original_firstorder_90Percentile	1379.55
original_firstorder_Energy	-318.40
original_firstorder_Entropy	604.62
original_firstorder_InterquartileRange	-1449.47
original_firstorder_Kurtosis	53.63
original_firstorder_Maximum	-11.19
original_firstorder_Mean	-4672.61
original_firstorder_MeanAbsoluteDeviation	-1477.69
original_firstorder_Median	2751.02
original_firstorder_Minimum	2043.07
original_firstorder_Range	0.00
original_firstorder_RobustMeanAbsoluteDeviation	2419.39
original_firstorder_RootMeanSquared	114.43
original_firstorder_Skewness	55.98
original_firstorder_TotalEnergy	0.00
original_firstorder_Uniformity	-279.06
original_firstorder_Variance	52861.62
original_glcm_Autocorrelation	-5302.60
original_glcm_ClusterProminence	818.04
original_glcm_ClusterShade	731.33
original_glcm_ClusterTendency	-309.79
original_glcm_Contrast	9180.38
original_glcm_Correlation	-189.04
original_glcm_DifferenceAverage	-439.15
original_glcm_DifferenceEntropy	2559.16
original_glcm_DifferenceVariance	-7691.66
original_glcm_Id	27681.77
original_glcm_Idm	-23671.14
original_glcm_Idmn	-663.93
original_glcm_Idn	763.47
original_glcm_Imc1	-516.93
original_glcm_Imc2	-438.63
original_glcm_InverseVariance	2631.70
original_glcm_JointAverage	1265.64
original_glcm_JointEnergy	-189.52
original_glcm_JointEntropy	-2942.45
original_glcm_MCC	81.97
original_glcm_MaximumProbability	381.81
original_glcm_SumAverage	0.00
original_glcm_SumEntropy	1080.05
original_glcm_SumSquares	0.00

127.0.0.1:6523 56/60

-	72020, 11.00 Simulated examples	ioi lile suivivai
	original_gldm_DependenceEntropy	1520.64
	original_gldm_DependenceNonUniformity	-991.05
	original_gldm_DependenceNonUniformityNormalized	1981.57
	original_gldm_DependenceVariance	-118.44
	original_gldm_GrayLevelNonUniformity	98.75
	original_gldm_GrayLevelVariance	-55974.57
	original_gldm_HighGrayLevelEmphasis	-2578.90
	original_gldm_LargeDependenceEmphasis	3597.74
	original_gldm_LargeDependenceHighGrayLevelEmphasis	1323.79
	original_gldm_LargeDependenceLowGrayLevelEmphasis	-389.59
	original_gldm_LowGrayLevelEmphasis	-872.43
	original_gldm_SmallDependenceEmphasis	-1178.19
	original_gldm_SmallDependenceHighGrayLevelEmphasis	151.62
	original_gldm_SmallDependenceLowGrayLevelEmphasis	-65.84
	original_glrlm_GrayLevelNonUniformity	1163.56
	original_glrlm_GrayLevelNonUniformityNormalized	478.84
	original_glrlm_GrayLevelVariance	2292.05
	original_glrlm_HighGrayLevelRunEmphasis	4749.75
	original_glrlm_LongRunEmphasis	-3001.06
	original_glrlm_LongRunHighGrayLevelEmphasis	-501.23
	original_glrlm_LongRunLowGrayLevelEmphasis	-301.23
	original_glrlm_LowGrayLevelRunEmphasis	8480.08
	original_glrlm_RunEntropy	360.48
	original_glrlm_RunLengthNonUniformity	2752.04
	original_glrlm_RunLengthNonUniformityNormalized	-1245.12
	original_glrlm_RunPercentage	6525.68
	original_glrlm_RunVariance	2684.96
	original_glrlm_ShortRunEmphasis	-1577.59
	original_glrlm_ShortRunHighGrayLevelEmphasis	3868.34
	original_glrlm_ShortRunLowGrayLevelEmphasis	-6854.75
	original_glszm_GrayLevelNonUniformity	-290.32
	original_glszm_GrayLevelNonUniformityNormalized	458.70
	original_glszm_GrayLevelVariance	272.42
	original_glszm_HighGrayLevelZoneEmphasis	-298.97
	original_glszm_LargeAreaEmphasis	-34256.75
	original_glszm_LargeAreaHighGrayLevelEmphasis	95.45
	original_glszm_LargeAreaLowGrayLevelEmphasis	-142.87
	original_glszm_LowGrayLevelZoneEmphasis	-484.91
	original_glszm_SizeZoneNonUniformity	172.93
	original_glszm_SizeZoneNonUniformityNormalized	-560.24
	original_glszm_SmallAreaEmphasis	807.79
	original_glszm_SmallAreaHighGrayLevelEmphasis	-242.76
	original_glszm_SmallAreaLowGrayLevelEmphasis	309.32
	original_glszm_ZoneEntropy	296.09
	original_glszm_ZonePercentage	652.58
	original_glszm_ZoneVariance	34649.53
	original_ngtdm_Busyness	49.99
	original_ngtdm_Coarseness	-121.67
	original_ngtdm_Complexity	-51.92
	original_ngtdm_Contrast	179.30
	original_ngtdm_Strength	-147.09
	original_shape_Elongation	243.28
	original_shape_Flatness	-209.95
	original_shape_LeastAxisLength	469.95
	original_shape_MajorAxisLength	380.49
	original_shape_Maximum2DDiameterColumn	-197.71

127.0.0.1:6523 57/60

1	
original_shape_Maximum2DDiameterRow	-20.22
original_shape_Maximum2DDiameterSlice	-209.22
original_shape_Maximum3DDiameter	209.75
original_shape_MeshVolume	76632.70
original_shape_MinorAxisLength	-182.24
original_shape_Sphericity	-28.09
original_shape_SurfaceArea	-717.89
original_shape_SurfaceVolumeRatio	-349.54
original_shape_VoxelVolume	-79265.10
	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
original_firstorder_RobustMeanAbsoluteDeviation	<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_Autocorrelation original_glcm_ClusterProminence	<2e-16
original_glcm_ClusterFromIntence	<2e-16
original_glcm_ClusterSnade 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
original_glcm_SumEntropy	<2e-16
original_glcm_SumSquares	1
original_gldm_DependenceEntropy	<2e-16
original_gldm_DependenceNonUniformity	<2e-16
original_gldm_DependenceNonUniformityNormalized	<2e-16
original_gldm_DependenceVariance	<2e-16
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127.0.0.1:6523 58/60

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	original_gldm_GrayLevelNonUniformity	<2e-16
	original_gldm_GrayLevelVariance	<2e-16
l	original_gldm_HighGrayLevelEmphasis	<2e-16
l	original_gldm_LargeDependenceEmphasis	<2e-16
l	$original\_gldm\_Large Dependence High Gray Level Emphas is$	<2e-16
l	original_gldm_LargeDependenceLowGrayLevelEmphasis	<2e-16
l	original_gldm_LowGrayLevelEmphasis	<2e-16
l	original_gldm_SmallDependenceEmphasis	<2e-16
	original_gldm_SmallDependenceHighGrayLevelEmphasis	<2e-16
l	original_gldm_SmallDependenceLowGrayLevelEmphasis	<2e-16
	original_glrlm_GrayLevelNonUniformity	<2e-16
l	original_glrlm_GrayLevelNonUniformityNormalized	<2e-16
l	original_glrlm_GrayLevelVariance	<2e-16
	original_glrlm_HighGrayLevelRunEmphasis	<2e-16
	original_glrlm_LongRunEmphasis	<2e-16
	original_glrlm_LongRunHighGrayLevelEmphasis	<2e-16
l	original_glrlm_LongRunLowGrayLevelEmphasis	<2e-16
l	original_glrlm_LowGrayLevelRunEmphasis	<2e-16
	original_glrlm_RunEntropy	<2e-16
l	original_glrlm_RunLengthNonUniformity	<2e-16
	original_glrlm_RunLengthNonUniformityNormalized	<2e-16
	original_glrlm_RunPercentage	<2e-16
l	original_glrlm_RunVariance	<2e-16
	original_glrlm_ShortRunEmphasis	<2e-16
	original_glrlm_ShortRunHighGrayLevelEmphasis	
l	original_glrlm_ShortRunLowGrayLevelEmphasis	<2e-16
	original_glszm_GrayLevelNonUniformity	<2e-16
l		
	original_glszm_GrayLevelNonUniformityNormalized	<2e-16
	original_glszm_GrayLevelVariance	<2e-16
	original_glszm_HighGrayLevelZoneEmphasis	<2e-16
l	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
l	original_glszm_SmallAreaHighGrayLevelEmphasis	<2e-16
	original_glszm_SmallAreaLowGrayLevelEmphasis	<2e-16
	original_glszm_ZoneEntropy	<2e-16
l	original_glszm_ZonePercentage	<2e-16
	original_glszm_ZoneVariance	<2e-16
	original_ngtdm_Busyness	<2e-16
l	original_ngtdm_Coarseness	<2e-16
	original_ngtdm_Complexity	<2e-16
	original_ngtdm_Contrast	<2e-16
l	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
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127.0.0.1:6523 59/60

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

Likelihood ratio test=262.3 on 107 df, p=4.777e-15 n= 361, number of events= 47

## \$time

Time difference of 31.25362 secs

127.0.0.1:6523 60/60