Supplementary File 2: List of Radiomics features used with cutoffs of P-values, Q-values, and COV

1. Criterion: stable threshold is 5; Pval is 0.005; Qval is 0.04

Stable Features:
- wavelet_HHL_glcm_Id
- wavelet_HLL_gli_lm_RunLengthNonUniformityNormalized
- wavelet_HLH_gldm_DependenceNonUniformityNormalized

Full Features:
- wavelet_HHL_glcm_Id
- wavelet_LLL_glszm_LargeAreaHighGrayLevelEmphasis
- original_glszm_LargeAreaHighGrayLevelEmphasis
- wavelet_LLL_glszm_LargeAreaEmphasis
- wavelet_HLL_gli_lm_RunLengthNonUniformityNormalized
- wavelet_HLL_glszm_LargeAreaEmphasis
- wavelet_LHL_gldm_GrayLevelNonUniformity
- wavelet_HLH_gldm_DependenceNonUniformityNormalized

2. Criterion: stable threshold is 10; Pval is 0.005; Qval is 0.04

Stable Features:
- wavelet_HHL_glcm_Id
- wavelet_HLL_gli_lm_RunLengthNonUniformityNormalized
- wavelet_LHL_gldm_GrayLevelNonUniformity
- wavelet_HLH_gldm_DependenceNonUniformityNormalized

Full Features:
- wavelet_HHL_glcm_Id
- wavelet_LLL_glszm_LargeAreaHighGrayLevelEmphasis
- original_glszm_LargeAreaHighGrayLevelEmphasis
- wavelet_LLL_glszm_LargeAreaEmphasis
- wavelet_HLL_gli_lm_RunLengthNonUniformityNormalized
- wavelet_HLL_glszm_LargeAreaEmphasis
- wavelet_HLH_gldm_DependenceNonUniformityNormalized
- wavelet_HLH_gldm_DependenceNonUniformityNormalized

3. Criterion: stable threshold is 15; Pval is 0.005; Qval is 0.04

Stable Features:
- wavelet_HHL_glcm_Id
- wavelet_HLL_gli_lm_RunLengthNonUniformityNormalized
- wavelet_LHL_gldm_GrayLevelNonUniformity
- wavelet_HLH_gldm_DependenceNonUniformityNormalized

Full Features:
- wavelet_HHL_glcm_Id
- wavelet_LLL_glszm_LargeAreaHighGrayLevelEmphasis
- original_glszm_LargeAreaHighGrayLevelEmphasis
- wavelet_LLL_glszm_LargeAreaEmphasis
- wavelet_HLL_gli_lm_RunLengthNonUniformityNormalized
- wavelet_HLL_glszm_LargeAreaEmphasis
- wavelet_HLH_gldm_GrayLevelNonUniformity
- wavelet_HLH_gldm_DependenceNonUniformityNormalized

4. Criterion: stable threshold is 20; Pval is 0.005; Qval is 0.04

Stable Features:
wavelet_HHL_glcm_Id
wavelet_LLL_glszm_LargeAreaEmphasis
wavelet_HLL_glrIm_RunLengthNonUniformityNonUniformityNormalized
wavelet_HLL_glszm_LargeAreaEmphasis
wavelet_LHL_gldm_GrayLevelNonUniformity
wavelet_HLH_gldm_DependenceNonUniformityNormalized

**Full Features:**
wavelet_HHL_glcm_Id
wavelet_LLL_glszm_LargeAreaHighGrayLevelEmphasis
original_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_LLL_glszm_LargeAreaEmphasis
wavelet_HLL_glrIm_RunLengthNonUniformityNonUniformityNormalized
wavelet_HLL_glszm_LargeAreaEmphasis
wavelet_LHL_gldm_GrayLevelNonUniformity
wavelet_HLH_gldm_DependenceNonUniformityNormalized

5. **Criterion:** stable threshold is 25; Pval is 0.005; Qval is 0.04

**Stable Features:**
wavelet_HHL_glcm_Id
wavelet_LLL_glszm_LargeAreaHighGrayLevelEmphasis
original_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_LLL_glszm_LargeAreaEmphasis
wavelet_HLL_glrIm_RunLengthNonUniformityNonUniformityNormalized
wavelet_HLL_glszm_LargeAreaEmphasis
wavelet_LHL_gldm_GrayLevelNonUniformity
wavelet_HLH_gldm_DependenceNonUniformityNormalized

**Full Features:**
wavelet_HHL_glcm_Id
wavelet_LLL_glszm_LargeAreaHighGrayLevelEmphasis
original_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_LLL_glszm_LargeAreaEmphasis
wavelet_HLL_glrIm_RunLengthNonUniformityNonUniformityNormalized
wavelet_HLL_glszm_LargeAreaEmphasis
wavelet_LHL_gldm_GrayLevelNonUniformity
wavelet_HLH_gldm_DependenceNonUniformityNormalized

6. **Criterion:** stable threshold is 5; Pval is 0.007; Qval is 0.045

**Stable Features:**
wavelet_HHL_glcm_Id
wavelet_HLL_gldm_DependenceNonUniformityNormalized
wavelet_LHL_gldm_GrayLevelNonUniformity

**Full Features:**
wavelet_HHL_glcm_Id
wavelet_LLL_glszm_LargeAreaHighGrayLevelEmphasis
original_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_LLL_glszm_LargeAreaEmphasis
wavelet_HLL_glrIm_RunLengthNonUniformityNonUniformityNormalized
wavelet_HLL_glszm_LargeAreaEmphasis
wavelet_LHL_gldm_GrayLevelNonUniformity
wavelet_HLH_gldm_DependenceNonUniformityNormalized

7. **Criterion:** stable threshold is 10; Pval is 0.007; Qval is 0.045

**Stable Features:**
wavelet_HHL_glcm_Id
wavelet_HLL_gldm_DependenceNonUniformityNormalized
wavelet_LHL_gldm_GrayLevelNonUniformity
Full Features:
wavelet_HHL_glcm_Id
wavelet_LLL_glszm_LargeAreaHighGrayLevelEmphasis
original_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_HLL_gldm_DependenceNonUniformityNormalized
waveletLLL_glszm_LargeAreaEmphasis
wavelet_HLL_glszm_LargeAreaEmphasis
wavelet_LHL_gldm_GrayLevelNonUniformity

8. Criterion: stable threshold is 15; Pval is 0.007; Qval is 0.045
Stable Features:
wavelet_HHL_glcm_Id
wavelet_HLL_gldm_DependenceNonUniformityNormalized
wavelet_LHL_gldm_GrayLevelNonUniformity

Full Features:
wavelet_HHL_glcm_Id
wavelet_LLL_glszm_LargeAreaHighGrayLevelEmphasis
original_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_HLL_gldm_DependenceNonUniformityNormalized
waveletLLL_glszm_LargeAreaEmphasis
wavelet_HLL_glszm_LargeAreaEmphasis
wavelet_LHL_gldm_GrayLevelNonUniformity

9. Criterion: stable threshold is 20; Pval is 0.007; Qval is 0.045
Stable Features:
wavelet_HHL_glcm_Id
wavelet_HLL_gldm_DependenceNonUniformityNormalized
wavelet_LHL_gldm_GrayLevelNonUniformity

Full Features:
wavelet_HHL_glcm_Id
wavelet_LLL_glszm_LargeAreaHighGrayLevelEmphasis
original_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_HLL_gldm_DependenceNonUniformityNormalized
waveletLLL_glszm_LargeAreaEmphasis
wavelet_HLL_glszm_LargeAreaEmphasis
wavelet_LHL_gldm_GrayLevelNonUniformity

10. Criterion: stable threshold is 25; Pval is 0.007; Qval is 0.045
Stable Features:
wavelet_HHL_glcm_Id
wavelet_LLL_glszm_LargeAreaHighGrayLevelEmphasis
original_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_HLL_gldm_DependenceNonUniformityNormalized
waveletLLL_glszm_LargeAreaEmphasis
wavelet_HLL_glszm_LargeAreaEmphasis
wavelet_LHL_gldm_GrayLevelNonUniformity

Full Features:
wavelet_HHL_glcm_Id
wavelet_LLL_glszm_LargeAreaHighGrayLevelEmphasis
original_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_HLL_gldm_DependenceNonUniformityNormalized
waveletLLL_glszm_LargeAreaEmphasis
wavelet_HLL_glszm_LargeAreaEmphasis
wavelet_HLL_glszm_LargeAreaEmphasis
wavelet_LHL_gldm_GrayLevelNonUniformity

11. Criterion: stable threshold is 5; Pval is 0.01; Qval is 0.05
Stable Features:
wavelet_HHL_glcm_Id
wavelet_HHH_glcm_DifferenceAverage
wavelet_HLL_gldm_DependenceNonUniformityNormalized

Full Features:
wavelet_HHL_glcm_Id
wavelet_HHH_glcm_DifferenceAverage
wavelet_LLL_glszm_LargeAreaHighGrayLevelEmphasis
original_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_HLL_gldm_DependenceNonUniformityNormalized
wavelet_LLL_glszm_LargeAreaEmphasis
wavelet_HLL_glszm_LargeAreaEmphasis
wavelet_LHL_gldm_GrayLevelNonUniformity

12. Criterion: stable threshold is 10; Pval is 0.01; Qval is 0.05
Stable Features:
wavelet_HHL_glcm_Id
wavelet_HHH_glcm_DifferenceAverage
wavelet_HLL_gldm_DependenceNonUniformityNormalized
wavelet_HLH_gldm_SmallDependenceEmphasis
wavelet_LHL_gldm_GrayLevelNonUniformity
wavelet_LHL_gldm_GrayLevelNonUniformity

Full Features:
wavelet_HHL_glcm_Id
wavelet_HHH_glcm_DifferenceAverage
wavelet_LLL_glszm_LargeAreaHighGrayLevelEmphasis
original_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_HLL_gldm_DependenceNonUniformityNormalized
wavelet_LLL_glszm_LargeAreaEmphasis
wavelet_HLL_glszm_LargeAreaEmphasis
wavelet_HLH_gldm_SmallDependenceEmphasis
wavelet_LHL_gldm_GrayLevelNonUniformity

13. Criterion: stable threshold is 15; Pval is 0.01; Qval is 0.05
Stable Features:
wavelet_HHL_glcm_Id
wavelet_HHH_glcm_DifferenceAverage
wavelet_HLL_gldm_DependenceNonUniformityNormalized
wavelet_HLH_gldm_SmallDependenceEmphasis
wavelet_LHL_gldm_GrayLevelNonUniformity
wavelet_LHL_gldm_GrayLevelNonUniformity
14. Criterion: stable threshold is 20; Pval is 0.01; Qval is 0.05

**Stable Features:**
- wavelet_HHL_glcma_Id
- wavelet_HHH_glcma_DifferenceAverage
- wavelet_HLL_gldm_DependenceNonUniformityNormalized
- wavelet_LLL_glszm_LargeAreaEmphasis
- wavelet_HLL_glszm_LargeAreaEmphasis
- wavelet_HLH_gldm_SmallDependenceEmphasis
- wavelet_LHL_gldm_GrayLevelNonUniformity

**Full Features:**
- wavelet_HHL_glcma_Id
- wavelet_HHH_glcma_DifferenceAverage
- wavelet_LLL_glszm_LargeAreaHighGrayLevelEmphasis
- original_glszm_LargeAreaHighGrayLevelEmphasis
- wavelet_HLL_gldm_DependenceNonUniformityNormalized
- wavelet_LLL_glszm_LargeAreaEmphasis
- wavelet_HLL_glszm_LargeAreaEmphasis
- wavelet_HLH_gldm_SmallDependenceEmphasis
- wavelet_LHL_gldm_GrayLevelNonUniformity

15. Criterion: stable threshold is 25; Pval is 0.01; Qval is 0.05

**Stable Features:**
- wavelet_HHL_glcma_Id
- wavelet_HHH_glcma_DifferenceAverage
- wavelet_LLL_glszm_LargeAreaHighGrayLevelEmphasis
- original_glszm_LargeAreaHighGrayLevelEmphasis
- wavelet_HLL_gldm_DependenceNonUniformityNormalized
- wavelet_LLL_glszm_LargeAreaEmphasis
- wavelet_HLL_glszm_LargeAreaEmphasis
- wavelet_HLH_gldm_SmallDependenceEmphasis
- wavelet_LHL_gldm_GrayLevelNonUniformity

**Full Features:**
- wavelet_HHL_glcma_Id
- wavelet_HHH_glcma_DifferenceAverage
- wavelet_LLL_glszm_LargeAreaHighGrayLevelEmphasis
- original_glszm_LargeAreaHighGrayLevelEmphasis
- wavelet_HLL_gldm_DependenceNonUniformityNormalized
- wavelet_LLL_glszm_LargeAreaEmphasis
- wavelet_HLL_glszm_LargeAreaEmphasis
- wavelet_HLH_gldm_SmallDependenceEmphasis
- wavelet_LHL_gldm_GrayLevelNonUniformity

16. Criterion: stable threshold is 5; Pval is 0.03; Qval is 0.07

**Stable Features:**
- wavelet_HHL_glcma_Id
- wavelet_HHH_glcma_DifferenceAverage
- wavelet_HLL_glcma_DifferenceEntropy
- original_glrlm_LongRunEmphasis
- wavelet_LHL_firstorder_Entropy
- wavelet_LHL_glcma_Idmn
- wavelet_LHL_glszm_SmallAreaEmphasis
- original_glcma_lmc2
wavelet_HLH_gldm_DependenceNonUniformityNormalized
original_firstorder_10Percentile

**Full Features:**
- wavelet_HHL_glcm_Id
- wavelet_HHH_glrIm_GrayLevelVariance
- wavelet_LLL_glrIm_RunVariance
- wavelet_HLL_glcm_DifferenceEntropy
- wavelet_LLL_glszm_LargeAreaHighGrayLevelEmphasis
- original_glszm_LargeAreaHighGrayLevelEmphasis
- wavelet_LLL_firstorder_Entropy
- wavelet_LLL_glcm_Idmn
- wavelet_LLL_glszm_LargeAreaEmphasis
- wavelet_HLL_glszm_ZonePercentage
- wavelet_LLL_glszm_SmallAreaEmphasis
- wavelet_HHH_firstorder_Median
- wavelet_HLL_glszm_LargeAreaEmphasis
- wavelet_LLL_glszm_ZoneVariance
- wavelet_HLL_glszm_ZoneVariance
- original_glcM_lmc2
- wavelet_HLL_glszm_LargeAreaHighGrayLevelEmphasis
- original_firstorder_10Percentile
- wavelet_HLL_firstorder_Kurtosis
- wavelet_LHL_gldm_GrayLevelNonUniformity
- original_firstorder_10Percentile

**17. Criterion:** stable threshold is 10; Pval is 0.03; Qval is 0.07

**Stable Features:**
- wavelet_HHL_glcm_Id
- wavelet_HHH_glrIm_GrayLevelVariance
- wavelet_LLL_glrIm_RunVariance
- wavelet_HLL_glcm_DifferenceEntropy
- wavelet_LLL_firstorder_Entropy
- wavelet_LLL_glcm_Idmn
- wavelet_HLL_glszm_ZonePercentage
- wavelet_LLL_glszm_SmallAreaEmphasis
- original_glcM_lmc2
- wavelet_HLL_gldm_GrayLevelNonUniformity
- original_firstorder_10Percentile
- wavelet_HLL_firstorder_Kurtosis

**Full Features:**
- wavelet_HHL_glcm_Id
- wavelet_HHH_glrIm_GrayLevelVariance
- wavelet_LLL_glrIm_RunVariance
- wavelet_HLL_glcm_DifferenceEntropy
- wavelet_LLL_glszm_LargeAreaHighGrayLevelEmphasis
- original_glszm_LargeAreaHighGrayLevelEmphasis
- wavelet_LLL_firstorder_Entropy
- wavelet_LLL_glcm_Idmn
- wavelet_LLL_glszm_LargeAreaEmphasis
- wavelet_HLL_glszm_ZonePercentage
- wavelet_LLL_glszm_SmallAreaEmphasis
- wavelet_HHH_firstorder_Median
- wavelet_HLL_glszm_LargeAreaEmphasis
wavelet_LLH_glszm_ZoneVariance
wavelet_HHL_glszm_ZoneVariance
original_glcm_Imc2
wavelet_HLH_glszm_LargeAreaHighGrayLevelEmphasis
original_firstorder_10Percentile
wavelet_HLL_firstorder_Kurtosis
wavelet_LLH_glszm_LargeAreaHighGrayLevelEmphasis

18. Criterion: stable threshold is 15; Pval is 0.03; Qval is 0.07
Stable Features:
wavelet_HHL_glcm_Id
wavelet_HHH_glrM_GrayLevelVariance
wavelet_LLH_glrM_RunVariance
wavelet_HLL_glcm_DifferenceEntropy
wavelet_LLH_firstorder_Entropy
wavelet_LLH_glcm_Idmn
wavelet_HLH_glszm_ZonePercentage
wavelet_LLH_glszm_SmallAreaEmphasis
original_glcm_Imc2
wavelet_LHL_gldm_GrayLevelNonUniformity
original_firstorder_10Percentile
wavelet_HLL_firstorder_Kurtosis

Full Features:
wavelet_HHL_glcm_Id
wavelet_HHH_glrM_GrayLevelVariance
wavelet_LLH_glrM_RunVariance
wavelet_HLL_glcm_DifferenceEntropy
wavelet_LLH_glszm_LargeAreaHighGrayLevelEmphasis
original_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_LLH_firstorder_Entropy
wavelet_HHL_glcm_Idmn
wavelet_LLL_glszm_LargeAreaEmphasis
wavelet_HLH_glszm_ZonePercentage
wavelet_LLL_glszm_SmallAreaEmphasis
wavelet_HHH_firstorder_Median
wavelet_HLL_glszm_LargeAreaEmphasis
wavelet_HLL_glszm_ZoneVariance
original_glcm_Imc2
wavelet_HLH_glszm_LargeAreaHighGrayLevelEmphasis
original_firstorder_10Percentile
wavelet_HLL_firstorder_Kurtosis
wavelet_HLL_glszm_LargeAreaHighGrayLevelEmphasis

19. Criterion: stable threshold is 20; Pval is 0.03; Qval is 0.07
Stable Features:
wavelet_HHL_glcm_Id
wavelet_HHH_glrM_GrayLevelVariance
wavelet_LLH_glrM_RunVariance
wavelet_HLL_glcm_DifferenceEntropy
wavelet_LLH_firstorder_Entropy
wavelet_HHL_glcm_Idmn
wavelet_LLL_glszm_LargeAreaEmphasis
wavelet_HLH_glszm_ZonePercentage
wavelet_LLL_glszm_SmallAreaEmphasis
wavelet_HHH_firstorder_Median
wavelet_HLL_glszm_LargeAreaEmphasis
wavelet_HLL_glszm_ZoneVariance
original_glcm_Imc2
wavelet_HLH_glszm_LargeAreaHighGrayLevelEmphasis
original_firstorder_10Percentile
wavelet_HLL_firstorder_Kurtosis
wavelet_HLL_glszm_LargeAreaHighGrayLevelEmphasis
Full Features:
wavelet_HHL_glcsm_ZonePercentage
wavelet_LLH_glcsm_SmallAreaEmphasis
wavelet_HLL_glcsm_LargeAreaEmphasis
wavelet_LLH_glcsm_ZoneVariance
wavelet_HHL_glcsm_ZoneVariance
original_glcsm_Idm2
original_firstorder_10Percentile
wavelet_HLL_firstorder_Kurtosis

Stable Features:
wavelet_HHL_glcsm_Id
wavelet_HHH_girlm_GrayLevelVariance
wavelet_LLH_girlm_RunVariance
wavelet_HLL_gicl_DifferenceEntropy
wavelet_HLL_glcsm_LargeAreaHighGrayLevelEmphasis
original_glcsm_LargeAreaHighGrayLevelEmphasis
wavelet_LLH_firstorder_Entropy
wavelet_HLL_glcsm_Ldmn
wavelet_HLL_glcsm_LargeAreaEmphasis
wavelet_HLL_glcsm_ZonePercentage
wavelet_LLH_glcsm_SmallAreaEmphasis
wavelet_HHH_firstorder_Median
wavelet_HLL_glcsm_LargeAreaEmphasis
wavelet_HLL_glcsm_ZoneVariance
wavelet_HHL_glcsm_ZoneVariance
original_glcsm_Idm2
wavelet_HLL_glcsm_LargeAreaHighGrayLevelEmphasis
original_firstorder_10Percentile
wavelet_HLL_firstorder_Kurtosis
wavelet_HLL_glcsm_LargeAreaHighGrayLevelEmphasis

20. Criterion: stable threshold is 25; Pval is 0.03; Qval is 0.07

Full Features:
wavelet_HHL_glcsm_Id
wavelet_HHH_glrlm_GrayLevelVariance
wavelet_L LH_glrlm_RunVariance
wavelet_HLL_glcm_DifferenceEntropy
wavelet_LLL_glszm_LargeAreaHighGrayLevelEmphasis
original_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_L LH_firstorder_Entropy
wavelet_L LH_glcm_Idmn
wavelet_L LL_glszm_LargeAreaEmphasis
wavelet_HLH_glszm_ZonePercentage
wavelet_L LH_glszm_SmallAreaEmphasis
wavelet_HHH_firstorder_Median
wavelet_HLH_glszm_LargeAreaEmphasis
wavelet_L LH_glszm_ZoneVariance
wavelet_HLL_glszm_LargeArea
original_glc_m_Idm2
wavelet_HLH_glszm_LargeAreaHighGrayLevelEmphasis
original_firstorder_10Percentile
wavelet_HLL_firstorder_Kurtosis
wavelet_L LH_glszm_LargeAreaHighGrayLevelEmphasis
21. Criterion: stable threshold is 5; Pval is 0.05; Qval is 0.09

Stable Features:
wavelet_HHL_glcm_Id
wavelet_HHH_gldm_DependenceEntropy
wavelet_HLL_glcm_DifferenceEntropy
wavelet_L LH_firstorder_RootMeanSquared
original_glrlm_LongRunEmphasis
wavelet_L LH_glcm_Idm2
wavelet_L LH_glszm_SmallAreaEmphasis
original_glc_m_Idm2
wavelet_HLH_gldm_DependenceNonUniformityNormalized
wavelet_HLL_glcm_Idn
wavelet_L LH_firstorder_Entropy

Full Features:
wavelet_HHL_glcm_Id
wavelet_HHH_glrlm_GrayLevelVariance
wavelet_L LH_glrlm_RunVariance
wavelet_HLL_glcm_DifferenceEntropy
wavelet_L LH_glrlm_RunVariance
wavelet_HLL_gldm_DependenceEntropy
wavelet_L LH_gldm_DependenceNonUniformityNormalized
wavelet_HLL_firstorder_Skewness
original_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_L LH_firstorder_RootMeanSquared
wavelet_L LH_glcm_Idm2
wavelet_L LH_glszm_LargeAreaEmphasis
wavelet_HLH_glszm_SizeZoneNonUniformityNormalized
wavelet_L LH_glszm_SmallAreaEmphasis
wavelet_HLH_glcm_JointAverage
wavelet_HHL_glcm_ClusterProminence
wavelet_HHL_ngtdm_Contrast
wavelet_HHH_firstorder_Median
wavelet_HLL_glszm_LargeAreaEmphasis
wavelet_HLL_ngtdm_Contrast
wavelet_LLH_glszm_ZoneVariance
original_firstorder_MeanAbsoluteDeviation
wavelet_HHL_glszm_ZoneVariance
original_glcmand_mean2
original_firstorder_Maximum
wavelet_HLH_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_HLL_firstorder_Kurtosis
wavelet_LLL_glszm_LargeAreaHighGrayLevelEmphasis

22. Criterion: stable threshold is 10; Pval is 0.05; Qval is 0.09

Stable Features:
wavelet_HHL_glcmand_Id
wavelet_HHH_grlm_GrayLevelVariance
wavelet_LLL_grlm_RunVariance
wavelet_HLL_grlm_DifferenceEntropy
wavelet_LLL_firstorder_RootMeanSquared
wavelet_LLL_glcmand_Idmn
wavelet_HLH_glszm_ZonePercentage
wavelet_HLL_glszm_SizeZoneNonUniformityNormalized
wavelet_LLL_glszm_SmallAreaEmphasis
original_firstorder_MeanAbsoluteDeviation
wavelet_LLL_gdlm_GrayLevelNonUniformity
original_glcmand_mean2
wavelet_LHL_gdlm_GrayLevelNonUniformity
wavelet_HLL_glcmand_Idn

Full Features:
wavelet_HHL_glcmand_Id
wavelet_HHH_grlm_GrayLevelVariance
wavelet_LLL_grlm_RunVariance
wavelet_HLL_glcmand_DifferenceEntropy
wavelet_LLL_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_LLL_firstorder_Skewness
original_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_LLH_firstorder_RootMeanSquared
wavelet_LLL_glcmand_Idmn
wavelet_LLL_glszm_LargeAreaEmphasis
wavelet_HLH_glszm_ZonePercentage
wavelet_HHH_glszm_SizeZoneNonUniformityNormalized
wavelet_LLL_glszm_SmallAreaEmphasis
wavelet_HLH_glcmand_JointAverage
wavelet_HHL_glcmand_ClusterProminence
wavelet_HHL_ngtdm_Contrast
wavelet_HHH_firstorder_Median
wavelet_HLL_glszm_LargeAreaEmphasis
wavelet_HLL_ngtdm_Contrast
wavelet_LLL_glszm_ZoneVariance
original_firstorder_MeanAbsoluteDeviation
wavelet_HHL_glszm_ZoneVariance
original_glcmand_mean2
original_firstorder_Maximum
wavelet_HLL_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_HLL_firstorder_Kurtosis
wavelet_LLH_glszm_LargeAreaHighGrayLevelEmphasis

23. Criterion: stable threshold is 15; Pval is 0.05; Qval is 0.09

Stable Features:
wavelet_HHL_glcml_Id
wavelet_HHH_glrlm_GrayLevelVariance
wavelet_LLH_glrlm_RunVariance
wavelet_HLL_glcml_DifferenceEntropy
wavelet_LLH_firstorder_RootMeanSquared
wavelet_LLH_glcml_Idmn
wavelet_HLH_glszm_ZonePercentage
wavelet_HLH_glszm_SizeZoneNonUniformityNormalized
wavelet_LLH_glszm_SmallAreaEmphasis
wavelet_HLH_glcml_JointAverage
wavelet_HHL_ngtdm_Contrast
wavelet_HLL_ngtdm_Contrast
original_firstorder_MeanAbsoluteDeviation
wavelet_LLL_gldm_GrayLevelNonUniformity
original_glcml_Mc2
wavelet_LHL_gldm_GrayLevelNonUniformity
wavelet_HLL_firstorder_Kurtosis

Full Features:
wavelet_HHL_glcml_Id
wavelet_HHH_glrlm_GrayLevelVariance
wavelet_LLH_glrlm_RunVariance
wavelet_HLL_glcml_DifferenceEntropy
wavelet_HLL_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_HLL_firstorder_Skewness
original_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_LLH_firstorder_RootMeanSquared
wavelet_LLH_glcml_Idmn
wavelet_LLL_glszm_LargeAreaEmphasis
wavelet_HLH_glszm_ZonePercentage
wavelet_HLH_glszm_SizeZoneNonUniformityNormalized
wavelet_LLL_glszm_SmallAreaEmphasis
wavelet_HLH_glcml_JointAverage
wavelet_HHL_glcml_ClusterProminence
wavelet_HHL_ngtdm_Contrast
wavelet_HHH_firstorder_Median
wavelet_HLL_glszm_LargeAreaEmphasis
wavelet_HLL_ngtdm_Contrast
wavelet_HLL_glszm_ZoneVariance
original_firstorder_MeanAbsoluteDeviation
wavelet_HHL_glszm_ZoneVariance
original_glcml_Mc2
original_firstorder_Maximum
wavelet_HLL_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_HLL_firstorder_Kurtosis
wavelet_HLH_glszm_LargeAreaHighGrayLevelEmphasis

24. Criterion: stable threshold is 20; Pval is 0.05; Qval is 0.09
Stable Features:
wavelet_HHL_glcm_Id
wavelet_HHH_glrlm_GrayLevelVariance
wavelet_LLL_glrlm_RunVariance
wavelet_HLL_glcm_DifferenceEntropy
wavelet_LLL_firstorder_RootMeanSquared
wavelet_LLL_glcm_Idmn
wavelet_LLH_glszm_LargeAreaEmphasis
wavelet_HLH_glszm_ZonePercentage
wavelet_HLH_glszm_SizeZoneNonUniformityNormalized
wavelet_LLL_glszm_SmallAreaEmphasis
wavelet_HLL_glcm_JointAverage
wavelet_HHL_glcm_ClusterProminence
wavelet_HHL_ngtdm_Contrast
wavelet_HHH_glrlm_GrayLevelVariance
wavelet_LLL_glszm_LargeAreaEmphasis
wavelet_HLH_glszm_ZonePercentage
wavelet_HLH_glszm_SizeZoneNonUniformityNormalized
wavelet_LLH_firstorder_RootMeanSquared
wavelet_HLH_glszm_LargeAreaEmphasis
wavelet_HLH_glszm_ZonePercentage
wavelet_HLH_glszm_SizeZoneNonUniformityNormalized
wavelet_HLH_glcm_JointAverage
wavelet_HHL_glcm_ClusterProminence
wavelet_HHL_ngtdm_Contrast
wavelet_HHH_firstorder_Median
wavelet_HLL_glszm_LargeAreaEmphasis
wavelet_HLH_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_HLL_firstorder_Kurtosis
wavelet_HLL_glszm_LargeAreaEmphasis
wavelet_HLL_ngtdm_Contrast
wavelet_LLH_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_HLH_glszm_ZonePercentage
wavelet_HLH_glszm_SizeZoneNonUniformityNormalized
wavelet_LLH_glszm_LargeAreaEmphasis
wavelet_HLH_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_HLL_firstorder_RootMeanSquared
wavelet_HLL_glszm_LargeAreaEmphasis
wavelet_HLL_ngtdm_Contrast
wavelet_HLH_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_HLL_firstorder_Kurtosis
wavelet_HLL_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_HHL_glszm_ZoneVariance
original_firstorder_MeanAbsoluteDeviation
wavelet_HHL_glszm_ZoneVariance
original_glcw_Lmc2
wavelet_HLL_firstorder_Kurtosis

Full Features:
wavelet_HHL_glcm_Id
wavelet_HHH_glrlm_GrayLevelVariance
wavelet_LLL_glrlm_RunVariance
wavelet_HLL_glcm_DifferenceEntropy
wavelet_LLL_glszm_LargeAreaEmphasis
wavelet_HLH_glszm_ZonePercentage
wavelet_HLH_glszm_SizeZoneNonUniformityNormalized
wavelet_LLL_glszm_SmallAreaEmphasis
wavelet_HLL_glcm_JointAverage
wavelet_HHL_glcm_ClusterProminence
wavelet_HHL_ngtdm_Contrast
wavelet_HHH_firstorder_Median
wavelet_HLL_glszm_LargeAreaEmphasis
wavelet_HLH_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_HLL_firstorder_Kurtosis
wavelet_HLL_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_LLH_glszm_LargeAreaEmphasis
wavelet_HLH_glszm_ZonePercentage
wavelet_HLH_glszm_SizeZoneNonUniformityNormalized
wavelet_LLH_glszm_SmallAreaEmphasis
wavelet_HLH_glcm_JointAverage
wavelet_HHL_glcm_ClusterProminence
wavelet_HHL_ngtdm_Contrast
wavelet_HH_firstorder_Median
wavelet_HLL_glszm_LargeAreaEmphasis
wavelet_HLH_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_HLL_firstorder_RootMeanSquared
wavelet_HLL_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_HHL_glszm_ZoneVariance
original_firstorder_MeanAbsoluteDeviation
wavelet_HHL_glszm_ZoneVariance
original_glcw_Lmc2
original_firstorder_Maximum
wavelet_HLL_glszm_LargeAreaHighGrayLevelEmphasis
wavelet_HLL_firstorder_Kurtosis
wavelet_LLH_glszm_LargeAreaHighGrayLevelEmphasis

25. Criterion: stable threshold is 25; Pval is 0.05; Qval is 0.09
**Stable Features:**
- `wavelet_HHL_glcm_Id`
- `wavelet_HHH_glrlm_GrayLevelVariance`
- `wavelet_LLL_glrlm_RunVariance`
- `wavelet_HLL_glcm_DifferenceEntropy`
- `wavelet_LLL_glszm_LargeAreaHighGrayLevelEmphasis`
- `wavelet_LLL_firstorder_Skewness`
- `original_glszm_LargeAreaHighGrayLevelEmphasis`
- `wavelet_LLL_firstorder_RootMeanSquared`
- `wavelet_LLL_glcm_Idmn`
- `wavelet_LLL_glszm_LargeAreaEmphasis`
- `wavelet_HLH_glszm_ZonePercentage`
- `wavelet_HLH_glszm_SizeZoneNonUniformityNormalized`
- `wavelet_LLL_glszm_SmallAreaEmphasis`
- `wavelet_HLH_glcm_JointAverage`
- `wavelet_HHL_glcm_ClusterProminence`
- `wavelet_HHL_ngtdm_Contrast`
- `wavelet_HLL_glszm_LargeAreaEmphasis`
- `wavelet_HLL_ngtdm_Contrast`
- `wavelet_HLH_glszm_ZoneVariance`
- `original_firstorder_MeanAbsoluteDeviation`
- `wavelet_HLL_glszm_ZoneVariance`
- `original_glc_m_Imc2`
- `wavelet_HLL_firstorder_Kurtosis`
- `wavelet_LLL_glszm_LargeAreaHighGrayLevelEmphasis`

**Full Features:**
- `wavelet_HHL_glcm_Id`
- `wavelet_HHH_glrlm_GrayLevelVariance`
- `wavelet_LLL_glrlm_RunVariance`
- `wavelet_HLL_glcm_DifferenceEntropy`
- `wavelet_LLL_glszm_LargeAreaHighGrayLevelEmphasis`
- `wavelet_LLL_firstorder_Skewness`
- `original_glszm_LargeAreaHighGrayLevelEmphasis`
- `wavelet_LLL_firstorder_RootMeanSquared`
- `wavelet_LLL_glcm_Idmn`
- `wavelet_LLL_glszm_LargeAreaEmphasis`
- `wavelet_HLH_glszm_ZonePercentage`
- `wavelet_HLH_glszm_SizeZoneNonUniformityNormalized`
- `wavelet_LLL_glszm_SmallAreaEmphasis`
- `wavelet_HLH_glcm_JointAverage`
- `wavelet_HHL_glcm_ClusterProminence`
- `wavelet_HHL_ngtdm_Contrast`
- `wavelet_HHH_firstorder_Median`
- `wavelet_HLL_glszm_LargeAreaHighGrayLevelEmphasis`
- `wavelet_HLL_ngtdm_Contrast`
- `wavelet_LLL_glszm_ZoneVariance`
- `original_firstorder_MeanAbsoluteDeviation`
- `wavelet_HHL_glszm_ZoneVariance`
- `original_glc_m_Imc2`
- `original_firstorder_Maximum`
- `wavelet_HLH_glszm_LargeAreaHighGrayLevelEmphasis`
wavelet_HLL_firstorder_Kurtosis
wavelet_LLH_glszm_LargeAreaHighGrayLevelEmphasis