| **Serial No** | **Feature Names** | **Feature Group** | **Related References** | **Definitions/Notable Modifications** |
| --- | --- | --- | --- | --- |
| **1** | BreastVol | Breast and FGT Volume Features | Klifa et al., 2010 | NA |
| **2** | tissueVol\_T1 | Breast and FGT Volume Features | Klifa et al., 2010 | NA |
| **3** | breastDensity\_T1 | Breast and FGT Volume Features | Klifa et al., 2010 | NA |
| **4** | tissueVol\_PostCon | Breast and FGT Volume Features | Klifa et al., 2010 | NA |
| **5** | breastDensity\_PostCon | Breast and FGT Volume Features | Klifa et al., 2010 | NA |
| **6** | TumorMajorAxisLength | Tumor Size and Morphology | Grimm et al., 2015 | NA |
| **7** | Median\_solidity\_tumor | Tumor Size and Morphology | Sutton et al., 2015 | The median values of the solidity computed in each slice |
| **8** | Median\_Elongation\_tumor | Tumor Size and Morphology | NA | The ratio of the values of the tumor major axis length to tumor minor axis length computed in each slice |
| **9** | Median\_Euler\_No\_tumor | Tumor Size and Morphology | Sutton et al., 2015 | The median values of the Euler number computed in each slice |
| **10** | BEVR\_tumor | Tumor Size and Morphology | Czarnek, Clark, Peters, & Mazurowski, 2017 | NA |
| **11** | BEDR1\_tumor | Tumor Size and Morphology | Czarnek, Clark, Peters, & Mazurowski, 2017 | NA |
| **12** | BEDR2\_tumor | Tumor Size and Morphology | Czarnek, Clark, Peters, & Mazurowski, 2017 | NA |
| **13** | MF\_tumor | Tumor Size and Morphology | Giger, Vyborny, & Schmidt, 1994, Czarnek, Clark, Peters, & Mazurowski, 2017 | NA |
| **14** | ASD\_tumor | Tumor Size and Morphology | Georgiou, Mavroforakis, Dimitropoulos, Cavouras, & Theodoridis, 2007, Czarnek, Clark, Peters, & Mazurowski, 2017 | NA |
| **15** | Volume\_cu\_mm\_tumor | Tumor Size and Morphology | Faermann, Sperber, Schneebaum, & Barsuk, 2014 | NA |
| **16** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_0percent\_from\_T1\_to\_Breast\_Vol | FGT Enhancement | Wu et al., 2015 | The zero percent level was added along with other features |
| **17** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_10percent\_from\_T1\_to\_Breast\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **18** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_20percent\_from\_T1\_to\_Breast\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **19** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_30percent\_from\_T1\_to\_Breast\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **20** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_40percent\_from\_T1\_to\_Breast\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **21** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_50percent\_from\_T1\_to\_Breast\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **22** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_60percent\_from\_T1\_to\_Breast\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **23** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_70percent\_from\_T1\_to\_Breast\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **24** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_80percent\_from\_T1\_to\_Breast\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **25** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_90percent\_from\_T1\_to\_Breast\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **26** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_100percent\_from\_T1\_to\_Breast\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **27** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_0percent\_from\_T1\_to\_Tissue\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **28** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_10percent\_from\_T1\_to\_Tissue\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **29** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_20percent\_from\_T1\_to\_Tissue\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **30** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_30percent\_from\_T1\_to\_Tissue\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **31** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_40percent\_from\_T1\_to\_Tissue\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **32** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_50percent\_from\_T1\_to\_Tissue\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **33** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_60percent\_from\_T1\_to\_Tissue\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **34** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_70percent\_from\_T1\_to\_Tissue\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **35** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_80percent\_from\_T1\_to\_Tissue\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **36** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_90percent\_from\_T1\_to\_Tissue\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **37** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_100percent\_from\_T1\_to\_Tissue\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **38** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_0percent\_from\_PostCon\_to\_Breast\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **39** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_10percent\_from\_PostCon\_to\_Breast\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **40** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_20percent\_from\_PostCon\_to\_Breast\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **41** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_30percent\_from\_PostCon\_to\_Breast\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **42** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_40percent\_from\_PostCon\_to\_Breast\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **43** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_50percent\_from\_PostCon\_to\_Breast\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **44** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_60percent\_from\_PostCon\_to\_Breast\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **45** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_70percent\_from\_PostCon\_to\_Breast\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **46** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_80percent\_from\_PostCon\_to\_Breast\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **47** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_90percent\_from\_PostCon\_to\_Breast\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **48** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_100percent\_from\_PostCon\_to\_Breast\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **49** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_0percent\_from\_PostCon\_to\_Tissue\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **50** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_10percent\_from\_PostCon\_to\_Tissue\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **51** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_20percent\_from\_PostCon\_to\_Tissue\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **52** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_30percent\_from\_PostCon\_to\_Tissue\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **53** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_40percent\_from\_PostCon\_to\_Tissue\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **54** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_50percent\_from\_PostCon\_to\_Tissue\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **55** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_60percent\_from\_PostCon\_to\_Tissue\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **56** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_70percent\_from\_PostCon\_to\_Tissue\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **57** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_80percent\_from\_PostCon\_to\_Tissue\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **58** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_90percent\_from\_PostCon\_to\_Tissue\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **59** | Ratio\_Tissue\_vol\_enhancing\_more\_than\_100percent\_from\_PostCon\_to\_Tissue\_Vol | FGT Enhancement | Wu et al., 2015 | NA |
| **60** | Grouping\_based\_mean\_of\_peak\_enhancement\_slope\_3D\_tissue\_T1\_Group\_1 | FGT Enhancement | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. |
| **61** | Grouping\_based\_mean\_of\_peak\_enhancement\_slope\_3D\_tissue\_T1\_Group\_2 | FGT Enhancement | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. |
| **62** | Grouping\_based\_mean\_of\_peak\_enhancement\_slope\_3D\_tissue\_T1\_Group\_3 | FGT Enhancement | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. Group 3 is the time point related to last available sequence |
| **63** | Grouping\_based\_mean\_of\_washin\_slope\_3D\_tissue\_T1\_Group\_1 | FGT Enhancement | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. |
| **64** | Grouping\_based\_mean\_of\_washin\_slope\_3D\_tissue\_T1\_Group\_2 | FGT Enhancement | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. |
| **65** | Grouping\_based\_mean\_of\_washin\_slope\_3D\_tissue\_T1\_Group\_3 | FGT Enhancement | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. Group 3 is the time point related to last available sequence |
| **66** | Grouping\_based\_mean\_of\_washout\_slope\_3D\_tissue\_T1\_Group\_1 | FGT Enhancement | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. |
| **67** | Grouping\_based\_mean\_of\_washout\_slope\_3D\_tissue\_T1\_Group\_2 | FGT Enhancement | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. (Feature for group 3 is not present as it was computed as zero for all patients) |
| **68** | Grouping\_based\_proportion\_of\_voxels\_3D\_tissue\_T1\_Group\_1 | FGT Enhancement | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. |
| **69** | Grouping\_based\_proportion\_of\_voxels\_3D\_tissue\_T1\_Group\_2 | FGT Enhancement | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. |
| **70** | Grouping\_based\_proportion\_of\_voxels\_3D\_tissue\_T1\_Group\_3 | FGT Enhancement | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. Group 3 is the time point related to last available sequence |
| **71** | Grouping\_based\_mean\_of\_peak\_enhancement\_slope\_3D\_tissue\_PostCon\_Group\_1 | FGT Enhancement | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. |
| **72** | Grouping\_based\_mean\_of\_peak\_enhancement\_slope\_3D\_tissue\_PostCon\_Group\_2 | FGT Enhancement | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. |
| **73** | Grouping\_based\_mean\_of\_peak\_enhancement\_slope\_3D\_tissue\_PostCon\_Group\_3 | FGT Enhancement | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. Group 3 is the time point related to last available sequence |
| **74** | Grouping\_based\_mean\_of\_washin\_slope\_3D\_tissue\_PostCon\_Group\_1 | FGT Enhancement | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. |
| **75** | Grouping\_based\_mean\_of\_washin\_slope\_3D\_tissue\_PostCon\_Group\_2 | FGT Enhancement | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. |
| **76** | Grouping\_based\_mean\_of\_washin\_slope\_3D\_tissue\_PostCon\_Group\_3 | FGT Enhancement | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. Group 3 is the time point related to last available sequence |
| **77** | Grouping\_based\_mean\_of\_washout\_slope\_3D\_tissue\_PostCon\_Group\_1 | FGT Enhancement | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. |
| **78** | Grouping\_based\_mean\_of\_washout\_slope\_3D\_tissue\_PostCon\_Group\_2 | FGT Enhancement | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. (Feature for group 3 is not present as it was computed as zero for all patients) |
| **79** | Grouping\_based\_proportion\_of\_voxels\_3D\_tissue\_PostCon\_Group\_1 | FGT Enhancement | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. |
| **80** | Grouping\_based\_proportion\_of\_voxels\_3D\_tissue\_PostCon\_Group\_2 | FGT Enhancement | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. |
| **81** | Grouping\_based\_proportion\_of\_voxels\_3D\_tissue\_PostCon\_Group\_3 | FGT Enhancement | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. Group 3 is the time point related to last available sequence |
| **82** | SER\_Total\_tissue\_vol\_cu\_mm\_T1 | FGT Enhancement | Arasu et al., 2011 | Features were defined for tumor, extended to tissue |
| **83** | SER\_Partial\_tissue\_vol\_cu\_mm\_T1 | FGT Enhancement | Arasu et al., 2011 | Features were defined for tumor, extended to tissue |
| **84** | SER\_Washout\_tissue\_vol\_cu\_mm\_T1 | FGT Enhancement | Arasu et al., 2011 | Features were defined for tumor, extended to tissue |
| **85** | Peak\_SER\_tissue\_T1 | FGT Enhancement | Arasu et al., 2011 | Features were defined for tumor, extended to tissue |
| **86** | Peak\_PE\_tissue\_T1 | FGT Enhancement | Arasu et al., 2011 | Features were defined for tumor, extended to tissue |
| **87** | SER\_map\_mean\_tissue\_T1 | FGT Enhancement | Arasu et al., 2011 | Features were defined for tumor, extended to tissue |
| **88** | PE\_map\_mean\_tissue\_T1 | FGT Enhancement | Arasu et al., 2011 | Features were defined for tumor, extended to tissue |
| **89** | WashinRate\_map\_mean\_tissue\_T1 | FGT Enhancement | Arasu et al., 2011 | Features were defined for tumor, extended to tissue |
| **90** | SER\_Total\_tissue\_vol\_cu\_mm\_PostCon | FGT Enhancement | Arasu et al., 2011 | Features were defined for tumor, extended to tissue |
| **91** | SER\_Partial\_tissue\_vol\_cu\_mm\_PostCon | FGT Enhancement | Arasu et al., 2011 | Features were defined for tumor, extended to tissue |
| **92** | SER\_Washout\_tissue\_vol\_cu\_mm\_PostCon | FGT Enhancement | Arasu et al., 2011 | Features were defined for tumor, extended to tissue |
| **93** | Peak\_SER\_tissue\_PostCon | FGT Enhancement | Arasu et al., 2011 | Features were defined for tumor, extended to tissue |
| **94** | Peak\_PE\_tissue\_PostCon | FGT Enhancement | Arasu et al., 2011 | Features were defined for tumor, extended to tissue |
| **95** | SER\_map\_mean\_tissue\_PostCon | FGT Enhancement | Arasu et al., 2011 | Features were defined for tumor, extended to tissue |
| **96** | PE\_map\_mean\_tissue\_PostCon | FGT Enhancement | Arasu et al., 2011 | Features were defined for tumor, extended to tissue |
| **97** | WashinRate\_map\_mean\_tissue\_PostCon | FGT Enhancement | Arasu et al., 2011 | Features were defined for tumor, extended to tissue |
| **98** | Grouping\_based\_mean\_of\_peak\_enhancement\_slope\_3D\_tumor\_Group\_1 | Tumor Enhancement | Ashraf et al., 2014 | The features were defined for tumor in a selected slice in the related work, we computed them for 3D tumor as well. |
| **99** | Grouping\_based\_mean\_of\_peak\_enhancement\_slope\_3D\_tumor\_Group\_2 | Tumor Enhancement | Ashraf et al., 2014 | The features were defined for tumor in a selected slice in the related work, we computed them for 3D tumor as well. |
| **100** | Grouping\_based\_mean\_of\_peak\_enhancement\_slope\_3D\_tumor\_Group\_3 | Tumor Enhancement | Ashraf et al., 2014 | The features were defined for tumor in a selected slice in the related work, we computed them for 3D tumor as well. Group 3 is the time point related to last available sequence. |
| **101** | Grouping\_based\_mean\_of\_washin\_slope\_3D\_tumor\_Group\_1 | Tumor Enhancement | Ashraf et al., 2014 | The features were defined for tumor in a selected slice in the related work, we computed them for 3D tumor as well. |
| **102** | Grouping\_based\_mean\_of\_washin\_slope\_3D\_tumor\_Group\_2 | Tumor Enhancement | Ashraf et al., 2014 | The features were defined for tumor in a selected slice in the related work, we computed them for 3D tumor as well. |
| **103** | Grouping\_based\_mean\_of\_washin\_slope\_3D\_tumor\_Group\_3 | Tumor Enhancement | Ashraf et al., 2014 | The features were defined for tumor in a selected slice in the related work, we computed them for 3D tumor as well. Group 3 is the time point related to last available sequence . |
| **104** | Grouping\_based\_mean\_of\_washout\_slope\_3D\_tumor\_Group\_1 | Tumor Enhancement | Ashraf et al., 2014 | The features were defined for tumor in a selected slice in the related work, we computed them for 3D tumor as well. |
| **105** | Grouping\_based\_mean\_of\_washout\_slope\_3D\_tumor\_Group\_2 | Tumor Enhancement | Ashraf et al., 2014 | The features were defined for tumor in a selected slice in the related work, we computed them for 3D tumor as well. (Feature for group 3 is not present as it was computed as zero for all patients) |
| **106** | Grouping\_based\_proportion\_of\_tumor\_voxels\_3D\_tumor\_Group\_1 | Tumor Enhancement | Ashraf et al., 2014 | The features were defined for tumor in a selected slice in the related work, we computed them for 3D tumor as well. |
| **107** | Grouping\_based\_proportion\_of\_tumor\_voxels\_3D\_tumor\_Group\_2 | Tumor Enhancement | Ashraf et al., 2014 | The features were defined for tumor in a selected slice in the related work, we computed them for 3D tumor as well. |
| **108** | Grouping\_based\_proportion\_of\_tumor\_voxels\_3D\_tumor\_Group\_3 | Tumor Enhancement | Ashraf et al., 2014 | The features were defined for tumor in a selected slice in the related work, we computed them for 3D tumor as well. Group 3 is the time point related to last available sequence . |
| **109** | Grouping\_based\_mean\_of\_peak\_enhancement\_slope\_2D\_tumorSlice\_Group\_1 | Tumor Enhancement | Ashraf et al., 2014 | NA |
| **110** | Grouping\_based\_mean\_of\_peak\_enhancement\_slope\_2D\_tumorSlice\_Group\_2 | Tumor Enhancement | Ashraf et al., 2014 | NA |
| **111** | Grouping\_based\_mean\_of\_peak\_enhancement\_slope\_2D\_tumorSlice\_Group\_3 | Tumor Enhancement | Ashraf et al., 2014 | Group 3 is the time point related to last available sequence . |
| **112** | Grouping\_based\_mean\_of\_washin\_slope\_2D\_tumorSlice\_Group\_1 | Tumor Enhancement | Ashraf et al., 2014 | NA |
| **113** | Grouping\_based\_mean\_of\_washin\_slope\_2D\_tumorSlice\_Group\_2 | Tumor Enhancement | Ashraf et al., 2014 | NA |
| **114** | Grouping\_based\_mean\_of\_washin\_slope\_2D\_tumorSlice\_Group\_3 | Tumor Enhancement | Ashraf et al., 2014 | Group 3 is the time point related to last available sequence . |
| **115** | Grouping\_based\_mean\_of\_washout\_slope\_2D\_tumorSlice\_Group\_1 | Tumor Enhancement | Ashraf et al., 2014 | NA |
| **116** | Grouping\_based\_mean\_of\_washout\_slope\_2D\_tumorSlice\_Group\_2 | Tumor Enhancement | Ashraf et al., 2014 | (Feature for group 3 is not present as it was computed as zero for all patients) |
| **117** | Grouping\_based\_proportion\_of\_tumor\_voxels\_2D\_tumorSlice\_Group\_1 | Tumor Enhancement | Ashraf et al., 2014 | NA |
| **118** | Grouping\_based\_proportion\_of\_tumor\_voxels\_2D\_tumorSlice\_Group\_2 | Tumor Enhancement | Ashraf et al., 2014 | NA |
| **119** | Grouping\_based\_proportion\_of\_tumor\_voxels\_2D\_tumorSlice\_Group\_3 | Tumor Enhancement | Ashraf et al., 2014 | Group 3 is the time point related to last available sequence . |
| **120** | SER\_Total\_tumor\_vol\_cu\_mm | Tumor Enhancement | Arasu et al., 2011 | NA |
| **121** | SER\_Partial\_tumor\_vol\_cu\_mm | Tumor Enhancement | Arasu et al., 2011 | NA |
| **122** | SER\_Washout\_tumor\_vol\_cu\_mm | Tumor Enhancement | Arasu et al., 2011 | NA |
| **123** | Peak\_SER\_tumor | Tumor Enhancement | Arasu et al., 2011 | NA |
| **124** | Peak\_PE\_tumor | Tumor Enhancement | Arasu et al., 2011 | NA |
| **125** | SER\_map\_mean\_tumor | Tumor Enhancement | Arasu et al., 2011 | NA |
| **126** | PE\_map\_mean\_tumor | Tumor Enhancement | Arasu et al., 2011 | NA |
| **127** | WashinRate\_map\_mean\_tumor | Tumor Enhancement | Arasu et al., 2011 | NA |
| **128** | F1\_T1(T11=0.05,T12=0.5) | Combining Tumor and FGT Enhancement | Mazurowski et al., 2015 | NA |
| **129** | F1\_T1(T11=0.05,T12=0.1) | Combining Tumor and FGT Enhancement | Mazurowski et al., 2015 | NA |
| **130** | F1\_T1(T11=0.02,T12=0.5) | Combining Tumor and FGT Enhancement | Mazurowski et al., 2015 | NA |
| **131** | F1\_T1(T11=0.02,T12=0.8) | Combining Tumor and FGT Enhancement | Mazurowski et al., 2015 | NA |
| **132** | F1\_T1(T11=0.05,T12=0.8) | Combining Tumor and FGT Enhancement | Mazurowski et al., 2015 | NA |
| **133** | F1\_T1(T11=0.1,T12=0.5) | Combining Tumor and FGT Enhancement | Mazurowski et al., 2015 | NA |
| **134** | F1\_T1(T11=0.1,T12=0.8) | Combining Tumor and FGT Enhancement | Mazurowski et al., 2015 | NA |
| **135** | F1\_T1(T11=0.2,T12=0.5) | Combining Tumor and FGT Enhancement | Mazurowski et al., 2015 | NA |
| **136** | F1\_T1(T11=0.2,T12=0.8) | Combining Tumor and FGT Enhancement | Mazurowski et al., 2015 | NA |
| **137** | F1\_PostCon(T11=0.05,T12=0.5) | Combining Tumor and FGT Enhancement | Mazurowski et al., 2015 | NA |
| **138** | F1\_PostCon(T11=0.05,T12=0.1) | Combining Tumor and FGT Enhancement | Mazurowski et al., 2015 | NA |
| **139** | F1\_PostCon(T11=0.02,T12=0.5) | Combining Tumor and FGT Enhancement | Mazurowski et al., 2015 | NA |
| **140** | F1\_PostCon(T11=0.02,T12=0.8) | Combining Tumor and FGT Enhancement | Mazurowski et al., 2015 | NA |
| **141** | F1\_PostCon(T11=0.05,T12=0.8) | Combining Tumor and FGT Enhancement | Mazurowski et al., 2015 | NA |
| **142** | F1\_PostCon(T11=0.1,T12=0.5) | Combining Tumor and FGT Enhancement | Mazurowski et al., 2015 | NA |
| **143** | F1\_PostCon(T11=0.1,T12=0.8) | Combining Tumor and FGT Enhancement | Mazurowski et al., 2015 | NA |
| **144** | F1\_PostCon(T11=0.2,T12=0.5) | Combining Tumor and FGT Enhancement | Mazurowski et al., 2015 | NA |
| **145** | F1\_PostCon(T11=0.2,T12=0.8) | Combining Tumor and FGT Enhancement | Mazurowski et al., 2015 | NA |
| **146** | Autocorrelation\_tissue\_T1 | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **147** | Contrast\_tissue\_T1 | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **148** | Correlation1\_tissue\_T1 | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue (definition in MATLAB) |
| **149** | Correlation2\_tissue\_T1 | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue (definition in ref Haralick, Shanmugam, & Dinstein, 1973) |
| **150** | Cluster\_Prominence\_tissue\_T1 | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **151** | Cluster\_Shade\_tissue\_T1 | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **152** | Dissimilarity\_tissue\_T1 | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **153** | Energy\_tissue\_T1 | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **154** | Entropy\_tissue\_T1 | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **155** | Homogeneity1\_tissue\_T1 | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue (definition in MATLAB) |
| **156** | Homogeneity2\_tissue\_T1 | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue (definition in ref Haralick, Shanmugam, & Dinstein, 1973) |
| **157** | Max\_Probability\_tissue\_T1 | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **158** | Sum\_of\_Squares\_variance\_tissue\_T1 | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **159** | sum\_average\_tissue\_T1 | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **160** | sum\_variance\_\_tissue\_T1 | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **161** | sum\_entropy\_tissue\_T1 | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **162** | difference\_entropy\_tissue\_T1 | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **163** | information\_measure\_correlation1\_tissue\_T1 | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **164** | information\_measure\_correlation2\_tissue\_T1 | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **165** | inverse\_difference\_is\_homom\_tissue\_T1 | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **166** | inverse\_difference\_normalized\_tissue\_T1 | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **167** | inverse\_difference\_moment\_normalized\_tissue\_T1 | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **168** | Autocorrelation\_tissue\_PostCon | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **169** | Contrast\_tissue\_PostCon | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **170** | Correlation1\_tissue\_PostCon | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **171** | Correlation2\_tissue\_PostCon | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **172** | Cluster\_Prominence\_tissue\_PostCon | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **173** | Cluster\_Shade\_tissue\_PostCon | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **174** | Dissimilarity\_tissue\_PostCon | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **175** | Energy\_tissue\_PostCon | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **176** | Entropy\_tissue\_PostCon | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **177** | Homogeneity1\_tissue\_PostCon | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **178** | Homogeneity2\_tissue\_PostCon | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **179** | Max\_Probability\_tissue\_PostCon | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **180** | Sum\_of\_Squares\_variance\_tissue\_PostCon | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **181** | sum\_average\_tissue\_PostCon | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **182** | sum\_variance\_\_tissue\_PostCon | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **183** | sum\_entropy\_tissue\_PostCon | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **184** | difference\_entropy\_tissue\_PostCon | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **185** | information\_measure\_correlation1\_tissue\_PostCon | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **186** | information\_measure\_correlation2\_tissue\_PostCon | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **187** | inverse\_difference\_is\_homom\_tissue\_PostCon | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **188** | inverse\_difference\_normalized\_tissue\_PostCon | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **189** | inverse\_difference\_moment\_normalized\_tissue\_PostCon | FGT Enhancement Texture | Haralick, Shanmugam, & Dinstein, 1973, Bhooshan et al.,2010 | Features were defined for tumor, extended to tissue |
| **190** | SER\_map\_Autocorrelation\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **191** | SER\_map\_Contrast\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **192** | SER\_map\_Correlation1\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **193** | SER\_map\_Correlation2\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **194** | SER\_map\_Cluster\_Prominence\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **195** | SER\_map\_Cluster\_Shade\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **196** | SER\_map\_Dissimilarity\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **197** | SER\_map\_Energy\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **198** | SER\_map\_Entropy\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **199** | SER\_map\_Homogeneity1\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **200** | SER\_map\_Homogeneity2\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **201** | SER\_map\_Max\_Probability\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **202** | SER\_map\_Sum\_of\_Squares\_variance\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **203** | SER\_map\_sum\_average\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **204** | SER\_map\_sum\_variance\_\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **205** | SER\_map\_sum\_entropy\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **206** | SER\_map\_difference\_entropy\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **207** | SER\_map\_information\_measure\_correlation1\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **208** | SER\_map\_information\_measure\_correlation2\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **209** | SER\_map\_inverse\_difference\_is\_homom\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **210** | SER\_map\_inverse\_difference\_normalized\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **211** | SER\_map\_inverse\_difference\_moment\_normalized\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **212** | PE\_map\_Autocorrelation\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **213** | PE\_map\_Contrast\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **214** | PE\_map\_Correlation1\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **215** | PE\_map\_Correlation2\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **216** | PE\_map\_Cluster\_Prominence\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **217** | PE\_map\_Cluster\_Shade\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **218** | PE\_map\_Dissimilarity\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **219** | PE\_map\_Energy\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **220** | PE\_map\_Entropy\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **221** | PE\_map\_Homogeneity1\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **222** | PE\_map\_Homogeneity2\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **223** | PE\_map\_Max\_Probability\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **224** | PE\_map\_Sum\_of\_Squares\_variance\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **225** | PE\_map\_sum\_average\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **226** | PE\_map\_sum\_variance\_\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **227** | PE\_map\_sum\_entropy\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **228** | PE\_map\_difference\_entropy\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **229** | PE\_map\_information\_measure\_correlation1\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **230** | PE\_map\_information\_measure\_correlation2\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **231** | PE\_map\_inverse\_difference\_is\_homom\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **232** | PE\_map\_inverse\_difference\_normalized\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **233** | PE\_map\_inverse\_difference\_moment\_normalized\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **234** | WashinRate\_map\_Autocorrelation\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **235** | WashinRate\_map\_Contrast\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **236** | WashinRate\_map\_Correlation1\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **237** | WashinRate\_map\_Correlation2\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **238** | WashinRate\_map\_Cluster\_Prominence\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **239** | WashinRate\_map\_Cluster\_Shade\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **240** | WashinRate\_map\_Dissimilarity\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **241** | WashinRate\_map\_Energy\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **242** | WashinRate\_map\_Entropy\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **243** | WashinRate\_map\_Homogeneity1\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **244** | WashinRate\_map\_Homogeneity2\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **245** | WashinRate\_map\_Max\_Probability\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **246** | WashinRate\_map\_Sum\_of\_Squares\_variance\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **247** | WashinRate\_map\_sum\_average\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **248** | WashinRate\_map\_sum\_variance\_\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **249** | WashinRate\_map\_sum\_entropy\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **250** | WashinRate\_map\_difference\_entropy\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **251** | WashinRate\_map\_information\_measure\_correlation1\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **252** | WashinRate\_map\_information\_measure\_correlation2\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **253** | WashinRate\_map\_inverse\_difference\_is\_homom\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **254** | WashinRate\_map\_inverse\_difference\_normalized\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **255** | WashinRate\_map\_inverse\_difference\_moment\_normalized\_tissue\_T1 | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **256** | SER\_map\_Autocorrelation\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **257** | SER\_map\_Contrast\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **258** | SER\_map\_Correlation1\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **259** | SER\_map\_Correlation2\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **260** | SER\_map\_Cluster\_Prominence\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **261** | SER\_map\_Cluster\_Shade\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **262** | SER\_map\_Dissimilarity\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **263** | SER\_map\_Energy\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **264** | SER\_map\_Entropy\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **265** | SER\_map\_Homogeneity1\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **266** | SER\_map\_Homogeneity2\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **267** | SER\_map\_Max\_Probability\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **268** | SER\_map\_Sum\_of\_Squares\_variance\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **269** | SER\_map\_sum\_average\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **270** | SER\_map\_sum\_variance\_\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **271** | SER\_map\_sum\_entropy\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **272** | SER\_map\_difference\_entropy\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **273** | SER\_map\_information\_measure\_correlation1\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **274** | SER\_map\_information\_measure\_correlation2\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **275** | SER\_map\_inverse\_difference\_is\_homom\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **276** | SER\_map\_inverse\_difference\_normalized\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **277** | SER\_map\_inverse\_difference\_moment\_normalized\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **278** | PE\_map\_Autocorrelation\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **279** | PE\_map\_Contrast\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **280** | PE\_map\_Correlation1\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **281** | PE\_map\_Correlation2\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **282** | PE\_map\_Cluster\_Prominence\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **283** | PE\_map\_Cluster\_Shade\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **284** | PE\_map\_Dissimilarity\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **285** | PE\_map\_Energy\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **286** | PE\_map\_Entropy\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **287** | PE\_map\_Homogeneity1\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **288** | PE\_map\_Homogeneity2\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **289** | PE\_map\_Max\_Probability\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **290** | PE\_map\_Sum\_of\_Squares\_variance\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **291** | PE\_map\_sum\_average\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **292** | PE\_map\_sum\_variance\_\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **293** | PE\_map\_sum\_entropy\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **294** | PE\_map\_difference\_entropy\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **295** | PE\_map\_information\_measure\_correlation1\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **296** | PE\_map\_information\_measure\_correlation2\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **297** | PE\_map\_inverse\_difference\_is\_homom\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **298** | PE\_map\_inverse\_difference\_normalized\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **299** | PE\_map\_inverse\_difference\_moment\_normalized\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **300** | WashinRate\_map\_Autocorrelation\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **301** | WashinRate\_map\_Contrast\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **302** | WashinRate\_map\_Correlation1\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **303** | WashinRate\_map\_Correlation2\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **304** | WashinRate\_map\_Cluster\_Prominence\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **305** | WashinRate\_map\_Cluster\_Shade\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **306** | WashinRate\_map\_Dissimilarity\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **307** | WashinRate\_map\_Energy\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **308** | WashinRate\_map\_Entropy\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **309** | WashinRate\_map\_Homogeneity1\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **310** | WashinRate\_map\_Homogeneity2\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **311** | WashinRate\_map\_Max\_Probability\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **312** | WashinRate\_map\_Sum\_of\_Squares\_variance\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **313** | WashinRate\_map\_sum\_average\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **314** | WashinRate\_map\_sum\_variance\_\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **315** | WashinRate\_map\_sum\_entropy\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **316** | WashinRate\_map\_difference\_entropy\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **317** | WashinRate\_map\_information\_measure\_correlation1\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **318** | WashinRate\_map\_information\_measure\_correlation2\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **319** | WashinRate\_map\_inverse\_difference\_is\_homom\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **320** | WashinRate\_map\_inverse\_difference\_normalized\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **321** | WashinRate\_map\_inverse\_difference\_moment\_normalized\_tissue\_PostCon | FGT Enhancement Texture | Wang et al., 2015, Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **322** | 1st\_DFT\_CoeffMap\_Momment\_Invariant\_1\_3D\_tumor | Tumor Enhancement Texture | Zheng et al., 2009 | NA |
| **323** | 1st\_DFT\_CoeffMap\_Momment\_Invariant\_2\_3D\_tumor | Tumor Enhancement Texture | Zheng et al., 2009 | NA |
| **324** | 1st\_DFT\_CoeffMap\_Momment\_Invariant\_3\_3D\_tumor | Tumor Enhancement Texture | Zheng et al., 2009 | NA |
| **325** | 1st\_DFT\_CoeffMap\_Momment\_Invariant\_4\_3D\_tumor | Tumor Enhancement Texture | Zheng et al., 2009 | NA |
| **326** | 1st\_DFT\_CoeffMap\_Momment\_Invariant\_5\_3D\_tumor | Tumor Enhancement Texture | Zheng et al., 2009 | NA |
| **327** | 1st\_DFT\_CoeffMap\_Momment\_Invariant\_6\_3D\_tumor | Tumor Enhancement Texture | Zheng et al., 2009 | NA |
| **328** | 1st\_DFT\_CoeffMap\_Momment\_Invariant\_7\_3D\_tumor | Tumor Enhancement Texture | Zheng et al., 2009 | NA |
| **329** | 2nd\_DFT\_CoeffMap\_Momment\_Invariant\_1\_3D\_tumor | Tumor Enhancement Texture | Zheng et al., 2009 | NA |
| **330** | 2nd\_DFT\_CoeffMap\_Momment\_Invariant\_2\_3D\_tumor | Tumor Enhancement Texture | Zheng et al., 2009 | NA |
| **331** | 2nd\_DFT\_CoeffMap\_Momment\_Invariant\_3\_3D\_tumor | Tumor Enhancement Texture | Zheng et al., 2009 | NA |
| **332** | 2nd\_DFT\_CoeffMap\_Momment\_Invariant\_4\_3D\_tumor | Tumor Enhancement Texture | Zheng et al., 2009 | NA |
| **333** | 1st\_DFT\_CoeffMap\_Momment\_Invariant\_1\_2D\_tumorSlice | Tumor Enhancement Texture | Zheng et al., 2009 | NA |
| **334** | 1st\_DFT\_CoeffMap\_Momment\_Invariant\_2\_2D\_tumorSlice | Tumor Enhancement Texture | Zheng et al., 2009 | NA |
| **335** | 1st\_DFT\_CoeffMap\_Momment\_Invariant\_3\_2D\_tumorSlice | Tumor Enhancement Texture | Zheng et al., 2009 | NA |
| **336** | 1st\_DFT\_CoeffMap\_Momment\_Invariant\_4\_2D\_tumorSlice | Tumor Enhancement Texture | Zheng et al., 2009 | NA |
| **337** | 1st\_DFT\_CoeffMap\_Momment\_Invariant\_5\_2D\_tumorSlice | Tumor Enhancement Texture | Zheng et al., 2009 | NA |
| **338** | 1st\_DFT\_CoeffMap\_Momment\_Invariant\_6\_2D\_tumorSlice | Tumor Enhancement Texture | Zheng et al., 2009 | NA |
| **339** | 1st\_DFT\_CoeffMap\_Momment\_Invariant\_7\_2D\_tumorSlice | Tumor Enhancement Texture | Zheng et al., 2009 | NA |
| **340** | 2nd\_DFT\_CoeffMap\_Momment\_Invariant\_1\_2D\_tumorSlice | Tumor Enhancement Texture | Zheng et al., 2009 | NA |
| **341** | 2nd\_DFT\_CoeffMap\_Momment\_Invariant\_2\_2D\_tumorSlice | Tumor Enhancement Texture | Zheng et al., 2009 | NA |
| **342** | 2nd\_DFT\_CoeffMap\_Momment\_Invariant\_3\_2D\_tumorSlice | Tumor Enhancement Texture | Zheng et al., 2009 | NA |
| **343** | 2nd\_DFT\_CoeffMap\_Momment\_Invariant\_4\_2D\_tumorSlice | Tumor Enhancement Texture | Zheng et al., 2009 | NA |
| **344** | Mean\_norm\_DHOG\_max\_timepoint\_binsize\_2\_without\_filling\_tumor | Tumor Enhancement Texture | Wan et al., 2016 | NA |
| **345** | Mean\_norm\_DHOG\_max\_timepoint\_binsize\_4\_without\_filling\_tumor | Tumor Enhancement Texture | Wan et al., 2016 | NA |
| **346** | Mean\_norm\_DHOG\_max\_timepoint\_binsize\_6\_without\_filling\_tumor | Tumor Enhancement Texture | Wan et al., 2016 | NA |
| **347** | Mean\_norm\_DHOG\_max\_timepoint\_binsize\_8\_without\_filling\_tumor | Tumor Enhancement Texture | Wan et al., 2016 | NA |
| **348** | Mean\_norm\_DHOG\_max\_timepoint\_binsize\_10\_without\_filling\_tumor | Tumor Enhancement Texture | Wan et al., 2016 | NA |
| **349** | Mean\_norm\_DLBP\_max\_timepoint\_binsize\_8\_without\_filling\_tumor | Tumor Enhancement Texture | Wan et al., 2016 | NA |
| **350** | Mean\_norm\_DLBP\_max\_timepoint\_binsize\_16\_without\_filling\_tumor | Tumor Enhancement Texture | Wan et al., 2016 | NA |
| **351** | Mean\_norm\_DLBP\_max\_timepoint\_binsize\_33\_without\_filling\_tumor | Tumor Enhancement Texture | Wan et al., 2016 | NA |
| **352** | Mean\_norm\_DLBP\_max\_timepoint\_binsize\_64\_without\_filling\_tumor | Tumor Enhancement Texture | Wan et al., 2016 | NA |
| **353** | Mean\_norm\_DLBP\_max\_timepoint\_binsize\_128\_without\_filling\_tumor | Tumor Enhancement Texture | Wan et al., 2016 | NA |
| **354** | Mean\_norm\_DLBP\_max\_timepoint\_binsize\_256\_without\_filling\_tumor | Tumor Enhancement Texture | Wan et al., 2016 | NA |
| **355** | Mean\_norm\_DHOG\_max\_timepoint\_binsize\_2\_with\_filling\_tumor | Tumor Enhancement Texture | Wan et al., 2016 | Holes in tumor mask are filled prior to extraction |
| **356** | Mean\_norm\_DHOG\_max\_timepoint\_binsize\_4\_with\_filling\_tumor | Tumor Enhancement Texture | Wan et al., 2016 | Holes in tumor mask are filled prior to extraction |
| **357** | Mean\_norm\_DHOG\_max\_timepoint\_binsize\_6\_with\_filling\_tumor | Tumor Enhancement Texture | Wan et al., 2016 | Holes in tumor mask are filled prior to extraction |
| **358** | Mean\_norm\_DHOG\_max\_timepoint\_binsize\_8\_with\_filling\_tumor | Tumor Enhancement Texture | Wan et al., 2016 | Holes in tumor mask are filled prior to extraction |
| **359** | Mean\_norm\_DHOG\_max\_timepoint\_binsize\_10\_with\_filling\_tumor | Tumor Enhancement Texture | Wan et al., 2016 | Holes in tumor mask are filled prior to extraction |
| **360** | Mean\_norm\_DLBP\_max\_timepoint\_binsize\_8\_with\_filling\_tumor | Tumor Enhancement Texture | Wan et al., 2016 | Holes in tumor mask are filled prior to extraction |
| **361** | Mean\_norm\_DLBP\_max\_timepoint\_binsize\_16\_with\_filling\_tumor | Tumor Enhancement Texture | Wan et al., 2016 | Holes in tumor mask are filled prior to extraction |
| **362** | Mean\_norm\_DLBP\_max\_timepoint\_binsize\_33\_with\_filling\_tumor | Tumor Enhancement Texture | Wan et al., 2016 | Holes in tumor mask are filled prior to extraction |
| **363** | Mean\_norm\_DLBP\_max\_timepoint\_binsize\_64\_with\_filling\_tumor | Tumor Enhancement Texture | Wan et al., 2016 | Holes in tumor mask are filled prior to extraction |
| **364** | Mean\_norm\_DLBP\_max\_timepoint\_binsize\_128\_with\_filling\_tumor | Tumor Enhancement Texture | Wan et al., 2016 | Holes in tumor mask are filled prior to extraction |
| **365** | Mean\_norm\_DLBP\_max\_timepoint\_binsize\_256\_with\_filling\_tumor | Tumor Enhancement Texture | Wan et al., 2016 | Holes in tumor mask are filled prior to extraction |
| **366** | Margin\_Gradient\_tumor | Tumor Enhancement Texture | Gilhuijs, Giger, & Bick, 1998 | NA |
| **367** | Variance\_of\_Margin\_Gradient\_tumor | Tumor Enhancement Texture | Gilhuijs, Giger, & Bick, 1998 | NA |
| **368** | Variance\_of\_RGH\_values\_tumor | Tumor Enhancement Texture | Gilhuijs, Giger, & Bick, 1998 | NA |
| **369** | SER\_map\_Autocorrelation\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **370** | SER\_map\_Contrast\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **371** | SER\_map\_Correlation1\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **372** | SER\_map\_Correlation2\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **373** | SER\_map\_Cluster\_Prominence\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **374** | SER\_map\_Cluster\_Shade\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **375** | SER\_map\_Dissimilarity\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **376** | SER\_map\_Energy\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **377** | SER\_map\_Entropy\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **378** | SER\_map\_Homogeneity1\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **379** | SER\_map\_Homogeneity2\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **380** | SER\_map\_Max\_Probability\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **381** | SER\_map\_Sum\_of\_Squares\_variance\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **382** | SER\_map\_sum\_average\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **383** | SER\_map\_sum\_variance\_\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **384** | SER\_map\_sum\_entropy\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **385** | SER\_map\_difference\_entropy\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **386** | SER\_map\_information\_measure\_correlation1\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **387** | SER\_map\_information\_measure\_correlation2\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **388** | SER\_map\_inverse\_difference\_is\_homom\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **389** | SER\_map\_inverse\_difference\_normalized\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **390** | SER\_map\_inverse\_difference\_moment\_normalized\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **391** | PE\_map\_Autocorrelation\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **392** | PE\_map\_Contrast\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **393** | PE\_map\_Correlation1\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **394** | PE\_map\_Correlation2\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **395** | PE\_map\_Cluster\_Prominence\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **396** | PE\_map\_Cluster\_Shade\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **397** | PE\_map\_Dissimilarity\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **398** | PE\_map\_Energy\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **399** | PE\_map\_Entropy\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **400** | PE\_map\_Homogeneity1\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **401** | PE\_map\_Homogeneity2\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **402** | PE\_map\_Max\_Probability\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **403** | PE\_map\_Sum\_of\_Squares\_variance\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **404** | PE\_map\_sum\_average\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **405** | PE\_map\_sum\_variance\_\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **406** | PE\_map\_sum\_entropy\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **407** | PE\_map\_difference\_entropy\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **408** | PE\_map\_information\_measure\_correlation1\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **409** | PE\_map\_information\_measure\_correlation2\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **410** | PE\_map\_inverse\_difference\_is\_homom\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **411** | PE\_map\_inverse\_difference\_normalized\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **412** | PE\_map\_inverse\_difference\_moment\_normalized\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **413** | WashinRate\_map\_Autocorrelation\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **414** | WashinRate\_map\_Contrast\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **415** | WashinRate\_map\_Correlation1\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **416** | WashinRate\_map\_Correlation2\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **417** | WashinRate\_map\_Cluster\_Prominence\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **418** | WashinRate\_map\_Cluster\_Shade\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **419** | WashinRate\_map\_Dissimilarity\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **420** | WashinRate\_map\_Energy\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **421** | WashinRate\_map\_Entropy\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **422** | WashinRate\_map\_Homogeneity1\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **423** | WashinRate\_map\_Homogeneity2\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **424** | WashinRate\_map\_Max\_Probability\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **425** | WashinRate\_map\_Sum\_of\_Squares\_variance\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **426** | WashinRate\_map\_sum\_average\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **427** | WashinRate\_map\_sum\_variance\_\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **428** | WashinRate\_map\_sum\_entropy\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **429** | WashinRate\_map\_difference\_entropy\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **430** | WashinRate\_map\_information\_measure\_correlation1\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **431** | WashinRate\_map\_information\_measure\_correlation2\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **432** | WashinRate\_map\_inverse\_difference\_is\_homom\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **433** | WashinRate\_map\_inverse\_difference\_normalized\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **434** | WashinRate\_map\_inverse\_difference\_moment\_normalized\_tumor | Tumor Enhancement Texture | Arasu et al., 2011, Haralick, Shanmugam, & Dinstein, 1973 | NA |
| **435** | Autocorrelation\_tumor | Tumor Enhancement Texture | Bhooshan et al., 2010 | NA |
| **436** | Contrast\_tumor | Tumor Enhancement Texture | Bhooshan et al., 2010 | NA |
| **437** | Correlation1\_tumor | Tumor Enhancement Texture | Bhooshan et al., 2010 | NA |
| **438** | Correlation2\_tumor | Tumor Enhancement Texture | Bhooshan et al., 2010 | NA |
| **439** | Cluster\_Prominence\_tumor | Tumor Enhancement Texture | Bhooshan et al., 2010 | NA |
| **440** | Cluster\_Shade\_tumor | Tumor Enhancement Texture | Bhooshan et al., 2010 | NA |
| **441** | Dissimilarity\_tumor | Tumor Enhancement Texture | Bhooshan et al., 2010 | NA |
| **442** | Energy\_tumor | Tumor Enhancement Texture | Bhooshan et al., 2010 | NA |
| **443** | Entropy\_tumor | Tumor Enhancement Texture | Bhooshan et al., 2010 | NA |
| **444** | Homogeneity1\_tumor | Tumor Enhancement Texture | Bhooshan et al., 2010 | NA |
| **445** | Homogeneity2\_tumor | Tumor Enhancement Texture | Bhooshan et al., 2010 | NA |
| **446** | Max\_probability\_tumor | Tumor Enhancement Texture | Bhooshan et al., 2010 | NA |
| **447** | Sum\_of\_squares\_variance\_tumor | Tumor Enhancement Texture | Bhooshan et al., 2010 | NA |
| **448** | Sum\_avg\_tumor | Tumor Enhancement Texture | Bhooshan et al., 2010 | NA |
| **449** | Sum\_variance\_tumor | Tumor Enhancement Texture | Bhooshan et al., 2010 | NA |
| **450** | Sum\_entropy\_tumor | Tumor Enhancement Texture | Bhooshan et al., 2010 | NA |
| **451** | Diff\_entropy\_tumor | Tumor Enhancement Texture | Bhooshan et al., 2010 | NA |
| **452** | Inf\_mea\_of\_corr1\_tumor | Tumor Enhancement Texture | Bhooshan et al., 2010 | NA |
| **453** | Inf\_mea\_of\_corr2\_tumor | Tumor Enhancement Texture | Bhooshan et al., 2010 | NA |
| **454** | Inv\_Diff\_homo\_tumor | Tumor Enhancement Texture | Bhooshan et al., 2010 | NA |
| **455** | Inv\_Diff\_normalized\_tumor | Tumor Enhancement Texture | Bhooshan et al., 2010 | NA |
| **456** | Inv\_diff\_moment\_normalized\_tumor | Tumor Enhancement Texture | Bhooshan et al., 2010 | NA |
| **457** | globalMoransIEnhancementVarianceMap\_tumor | Tumor Enhancement Spatial Heterogeneity | Song, Smith, Huang, Jeraj, & Fain, 2009 | Feature is computed using the variance of the uptake curve for each voxel |
| **458** | globalMoransISERMap\_tumor | Tumor Enhancement Spatial Heterogeneity | Song, Smith, Huang, Jeraj, & Fain, 2009 | Feature is computed using the variance of the SER map (ref Arasu et al., 2011) |
| **459** | EnhancementClusterNeighborhoodSimilarity\_tumor | Tumor Enhancement Spatial Heterogeneity | NA | 1. Enhancement curves for each voxel of the tumor are clustered into three groups 2. The proportion of voxels (having only tumor voxels as their neighbor) surrounded by all voxels of the same cluster as itself is the measure |
| **460** | EnhancementClusterDiscontinuity\_tumor | Tumor Enhancement Spatial Heterogeneity | NA | 1. Enhancement curves for each voxel of the tumor are clustered into three groups 2. The ratio of the number of 8-connected regions with the same cluster to the total number of tumor voxels is the measure |
| **461** | Grouping\_based\_variance\_of\_peak\_enhancement\_slope\_3D\_tissue\_T1\_Group\_1 | FGT Enhancement Variation | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. |
| **462** | Grouping\_based\_variance\_of\_peak\_enhancement\_slope\_3D\_tissue\_T1\_Group\_2 | FGT Enhancement Variation | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. |
| **463** | Grouping\_based\_variance\_of\_peak\_enhancement\_slope\_3D\_tissue\_T1\_Group\_3 | FGT Enhancement Variation | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. Group 3 is the time point related to last available sequence |
| **464** | Grouping\_based\_variance\_of\_washin\_slope\_3D\_tissue\_T1\_Group\_1 | FGT Enhancement Variation | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. |
| **465** | Grouping\_based\_variance\_of\_washin\_slope\_3D\_tissue\_T1\_Group\_2 | FGT Enhancement Variation | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. |
| **466** | Grouping\_based\_variance\_of\_washin\_slope\_3D\_tissue\_T1\_Group\_3 | FGT Enhancement Variation | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. Group 3 is the time point related to last available sequence |
| **467** | Grouping\_based\_variance\_of\_washout\_slope\_3D\_tissue\_T1\_Group\_1 | FGT Enhancement Variation | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. |
| **468** | Grouping\_based\_variance\_of\_washout\_slope\_3D\_tissue\_T1\_Group\_2 | FGT Enhancement Variation | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. (Feature for group 3 is not present as it was computed as zero for all patients) |
| **469** | Grouping\_based\_variance\_of\_peak\_enhancement\_slope\_3D\_tissue\_PostCon\_Group\_1 | FGT Enhancement Variation | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. |
| **470** | Grouping\_based\_variance\_of\_peak\_enhancement\_slope\_3D\_tissue\_PostCon\_Group\_2 | FGT Enhancement Variation | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. |
| **471** | Grouping\_based\_variance\_of\_peak\_enhancement\_slope\_3D\_tissue\_PostCon\_Group\_3 | FGT Enhancement Variation | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. Group 3 is the time point related to last available sequence |
| **472** | Grouping\_based\_variance\_of\_washin\_slope\_3D\_tissue\_PostCon\_Group\_1 | FGT Enhancement Variation | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. |
| **473** | Grouping\_based\_variance\_of\_washin\_slope\_3D\_tissue\_PostCon\_Group\_2 | FGT Enhancement Variation | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. |
| **474** | Grouping\_based\_variance\_of\_washin\_slope\_3D\_tissue\_PostCon\_Group\_3 | FGT Enhancement Variation | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. Group 3 is the time point related to last available sequence |
| **475** | Grouping\_based\_variance\_of\_washout\_slope\_3D\_tissue\_PostCon\_Group\_1 | FGT Enhancement Variation | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. |
| **476** | Grouping\_based\_variance\_of\_washout\_slope\_3D\_tissue\_PostCon\_Group\_2 | FGT Enhancement Variation | Ashraf et al., 2014 | The features were defined for tumor in the related work, we computed them for tissue as well. (Feature for group 3 is not present as it was computed as zero for all patients) |
| **477** | SER\_map\_std\_dev\_tissue\_T1 | FGT Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **478** | SER\_map\_skewness\_tissue\_T1 | FGT Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **479** | SER\_map\_kurtosis\_tissue\_T1 | FGT Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **480** | PE\_map\_std\_dev\_tissue\_T1 | FGT Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **481** | PE\_map\_skewness\_tissue\_T1 | FGT Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **482** | PE\_map\_kurtosis\_tissue\_T1 | FGT Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **483** | WashinRate\_map\_std\_dev\_tissue\_T1 | FGT Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **484** | WashinRate\_map\_skewness\_tissue\_T1 | FGT Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **485** | WashinRate\_map\_kurtosis\_tissue\_T1 | FGT Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **486** | SER\_map\_std\_dev\_tissue\_PostCon | FGT Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **487** | SER\_map\_skewness\_tissue\_PostCon | FGT Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **488** | SER\_map\_kurtosis\_tissue\_PostCon | FGT Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **489** | PE\_map\_std\_dev\_tissue\_PostCon | FGT Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **490** | PE\_map\_skewness\_tissue\_PostCon | FGT Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **491** | PE\_map\_kurtosis\_tissue\_PostCon | FGT Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **492** | WashinRate\_map\_std\_dev\_tissue\_PostCon | FGT Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **493** | WashinRate\_map\_skewness\_tissue\_PostCon | FGT Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **494** | WashinRate\_map\_kurtosis\_tissue\_PostCon | FGT Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **495** | Maximum\_variance\_of\_enhancement\_tumor | Tumor Enhancement Variation | Chen, Giger, Lan, & Bick, 2004 | NA |
| **496** | Peak\_location\_of\_enhancement\_variance\_dynamics\_tumor | Tumor Enhancement Variation | Chen, Giger, Lan, & Bick, 2004 | NA |
| **497** | Enhancement\_variance\_increasing\_rate\_tumor | Tumor Enhancement Variation | Chen, Giger, Lan, & Bick, 2004 | NA |
| **498** | Enhancement\_variance\_decreasing\_rate\_tumor | Tumor Enhancement Variation | Chen, Giger, Lan, & Bick, 2004 | NA |
| **499** | Grouping\_based\_variance\_of\_peak\_enhancement\_slope\_3D\_tumor\_Group\_1 | Tumor Enhancement Variation | Ashraf et al., 2014 | The features were defined for tumor in a selected slice in the related work, we computed them for 3D tumor as well. |
| **500** | Grouping\_based\_variance\_of\_peak\_enhancement\_slope\_3D\_tumor\_Group\_2 | Tumor Enhancement Variation | Ashraf et al., 2014 | The features were defined for tumor in a selected slice in the related work, we computed them for 3D tumor as well. |
| **501** | Grouping\_based\_variance\_of\_peak\_enhancement\_slope\_3D\_tumor\_Group\_3 | Tumor Enhancement Variation | Ashraf et al., 2014 | The features were defined for tumor in a selected slice in the related work, we computed them for 3D tumor as well. Group 3 is the time point related to last available sequence. |
| **502** | Grouping\_based\_variance\_of\_washin\_slope\_3D\_tumor\_Group\_1 | Tumor Enhancement Variation | Ashraf et al., 2014 | The features were defined for tumor in a selected slice in the related work, we computed them for 3D tumor as well. |
| **503** | Grouping\_based\_variance\_of\_washin\_slope\_3D\_tumor\_Group\_2 | Tumor Enhancement Variation | Ashraf et al., 2014 | The features were defined for tumor in a selected slice in the related work, we computed them for 3D tumor as well. |
| **504** | Grouping\_based\_variance\_of\_washin\_slope\_3D\_tumor\_Group\_3 | Tumor Enhancement Variation | Ashraf et al., 2014 | The features were defined for tumor in a selected slice in the related work, we computed them for 3D tumor as well. Group 3 is the time point related to last available sequence . |
| **505** | Grouping\_based\_variance\_of\_washout\_slope\_3D\_tumor\_Group\_1 | Tumor Enhancement Variation | Ashraf et al., 2014 | The features were defined for tumor in a selected slice in the related work, we computed them for 3D tumor as well. |
| **506** | Grouping\_based\_variance\_of\_washout\_slope\_3D\_tumor\_Group\_2 | Tumor Enhancement Variation | Ashraf et al., 2014 | The features were defined for tumor in a selected slice in the related work, we computed them for 3D tumor as well. (Feature for group 3 is not present as it was computed as zero for all patients) |
| **507** | Grouping\_based\_variance\_of\_peak\_enhancement\_slope\_2D\_tumorSlice\_Group\_1 | Tumor Enhancement Variation | Ashraf et al., 2014 | NA |
| **508** | Grouping\_based\_variance\_of\_peak\_enhancement\_slope\_2D\_tumorSlice\_Group\_2 | Tumor Enhancement Variation | Ashraf et al., 2014 | NA |
| **509** | Grouping\_based\_variance\_of\_peak\_enhancement\_slope\_2D\_tumorSlice\_Group\_3 | Tumor Enhancement Variation | Ashraf et al., 2014 | Group 3 is the time point related to last available sequence . |
| **510** | Grouping\_based\_variance\_of\_washin\_slope\_2D\_tumorSlice\_Group\_1 | Tumor Enhancement Variation | Ashraf et al., 2014 | NA |
| **511** | Grouping\_based\_variance\_of\_washin\_slope\_2D\_tumorSlice\_Group\_2 | Tumor Enhancement Variation | Ashraf et al., 2014 | NA |
| **512** | Grouping\_based\_variance\_of\_washin\_slope\_2D\_tumorSlice\_Group\_3 | Tumor Enhancement Variation | Ashraf et al., 2014 | Group 3 is the time point related to last available sequence . |
| **513** | Grouping\_based\_variance\_of\_washout\_slope\_2D\_tumorSlice\_Group\_1 | Tumor Enhancement Variation | Ashraf et al., 2014 | NA |
| **514** | Grouping\_based\_variance\_of\_washout\_slope\_2D\_tumorSlice\_Group\_2 | Tumor Enhancement Variation | Ashraf et al., 2014 | (Feature for group 3 is not present as it was computed as zero for all patients) |
| **515** | Variance\_of\_Uptake\_tumor | Tumor Enhancement Variation | Gilhuijs, Giger, & Bick, 1998 | NA |
| **516** | Change\_in\_variance\_of\_Uptake\_tumor | Tumor Enhancement Variation | Gilhuijs, Giger, & Bick, 1998 | NA |
| **517** | SER\_map\_std\_dev\_tumor | Tumor Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **518** | SER\_map\_skewness\_tumor | Tumor Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **519** | SER\_map\_kurtosis\_tumor | Tumor Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **520** | PE\_map\_std\_dev\_tumor | Tumor Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **521** | PE\_map\_skewness\_tumor | Tumor Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **522** | PE\_map\_kurtosis\_tumor | Tumor Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **523** | WashinRate\_map\_std\_dev\_tumor | Tumor Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **524** | WashinRate\_map\_skewness\_tumor | Tumor Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **525** | WashinRate\_map\_kurtosis\_tumor | Tumor Enhancement Variation | Wang et al., 2015, Arasu et al., 2011 | NA |
| **526** | Max\_Enhancement\_from\_char\_curve\_tumor | Tumor Enhancement Variation | Chen, Giger, Bick, & Newstead, 2006 | NA |
| **527** | Time\_to\_Peak\_from\_char\_curve\_tumor | Tumor Enhancement Variation | Chen, Giger, Bick, & Newstead, 2006 | NA |
| **528** | Uptake\_rate\_from\_char\_curve\_tumor | Tumor Enhancement Variation | Chen, Giger, Bick, & Newstead, 2006 | NA |
| **529** | Washout\_rate\_from\_char\_curve\_tumor | Tumor Enhancement Variation | Chen, Giger, Bick, & Newstead, 2006 | NA |

**Multiple references for a feature can mean an amalgamation of concepts from all of the manuscripts**

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