Supplemental Table 5: Number of features with an AUC significantly greater than 0.5 using original ROIs and eroded ROIs. The last row gives the features found significant both using the original ROIs and the eroded ROIs. Bold numbers in brackets give the numbers of significant features after Benjamini-Hochberg correction for multiple comparisons, with corresponding feature names are in bold.

| Number of significant 2D features |  |  |  |  |
| :---: | :---: | :--- | :--- | :--- |

Supplemental Table 6: Number of features with an AUC significantly greater than 0.5 using our 2D approach, selecting the median value of the 2D features computed for all slices encompassing the tumor and the conventional approach 2D approach, selecting the feature value in the slice including the largest tumor area. Numbers in brackets give the numbers of significant features after Benjamini-Hochberg correction for multiple comparisons, with corresponding feature names in bold.

| Number of significant 2D features (Discovery set) |  |  |  |  |
| :---: | :---: | :---: | :--- | :--- |

