Table E1 The rank of selected features in 8-VOI Model and VOIcore Model

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| model | feature class | mode | AUC | AUC 95% CIs | Acc | Sen | Spe | PPV | NPV |
| VOI core Model | First Order and Shape Features(n=18) | train | 0.852  | [0.781-0.917] | 0.820  | 0.761  | 0.841  | 0.636  | 0.906  |
| test | 0.818  | [0.636-0.964] | 0.796  | 0.700  | 0.824  | 0.539  | 0.903  |
| Gray Level Features(n=89) | train | 0.715  | [0.642-0.783] | 0.663  | 0.826  | 0.603  | 0.432  | 0.905  |
| test | 0.788  | [0.630-0.903] | 0.727  | 0.900  | 0.677  | 0.450  | 0.958  |
| Wavelet Features(n=744) | train | 0.825  | [0.745-0.895] | 0.831  | 0.739  | 0.865  | 0.667  | 0.901  |
| test | 0.829  | [0.682-0.953] | 0.818  | 0.700  | 0.853  | 0.583  | 0.906  |
| The Above Features(n=851) | train | 0.843  | [0.772-0.908] | 0.831  | 0.739  | 0.865  | 0.667  | 0.901  |
| test | 0.835  | [0.682-0.963] | 0.818  | 0.700  | 0.853  | 0.583  | 0.906  |
| 8-VOI Model | First Order and Shape Features(n=144) | train | 0.853  | [0.785-0.918] | 0.843  | 0.696  | 0.897  | 0.711  | 0.890  |
| test | 0.827  | [0.675-0.957] | 0.818  | 0.600  | 0.882  | 0.600  | 0.882  |
| Gray Level Features(n=712) | train | 0.845  | [0.779-0.907] | 0.738  | 0.913  | 0.675  | 0.506  | 0.955  |
| test | 0.782  | [0.584-0.953] | 0.818  | 0.600  | 0.882  | 0.600  | 0.882  |
| Wavelet Features(n=5952) | train | 0.905  | [0.859-0.951] | 0.802  | 0.913  | 0.762  | 0.583  | 0.960  |
| test | 0.877  | [0.725-0.985] | 0.841  | 0.800  | 0.853  | 0.615  | 0.936  |
| The Above Features(n=6808) | train | 0.907  | [0.862-0.948] | 0.831  | 0.848  | 0.825  | 0.639  | 0.937  |
| test | 0.897  | [0.784-0.985] | 0.841  | 0.900  | 0.824  | 0.600  | 0.966  |