Confusion matrix results table (N=349)

| Comparison | Sensitivity | Specificity | PPV | NPV | Accuracy | F1\_Score | Kappa |
| --- | --- | --- | --- | --- | --- | --- | --- |
| lowest cut ast vs highest cut ast | 0.743 | 1 | 1 | 0.690 | 0.837 | 0.853 | 0 |
| lowest cut ast vs lowest cut alt | 0.221 | 1 | 1 | 0.423 | 0.504 | 0.362 | 0 |
| lowest cut ast vs highest cut alt | 0.126 | 1 | 1 | 0.396 | 0.444 | 0.224 | 0 |
| lowest cut ast vs cirrhosis | 0.968 | 0.008 | 0.630 | 0.125 | 0.619 | 0.764 | 0 |
| lowest cut ast vs cirrhosis diagnosed | 0.498 | 0.752 | 0.783 | 0.455 | 0.589 | 0.608 | 0 |
| highest cut ast vs lowest cut ast | 1 | 0.690 | 0.743 | 1 | 0.837 | 0.853 | 0 |
| highest cut ast vs lowest cut alt | 0.297 | 1 | 1 | 0.613 | 0.668 | 0.458 | 0 |
| highest cut ast vs highest cut alt | 0.170 | 1 | 1 | 0.573 | 0.607 | 0.290 | 0 |
| highest cut ast vs cirrhosis | 0.958 | 0.005 | 0.463 | 0.125 | 0.456 | 0.625 | 0 |
| highest cut ast vs cirrhosis diagnosed | 0.573 | 0.755 | 0.698 | 0.642 | 0.665 | 0.629 | 0 |
| lowest cut alt vs lowest cut ast | 1 | 0.423 | 0.221 | 1 | 0.504 | 0.362 | 0 |
| lowest cut alt vs highest cut ast | 1 | 0.613 | 0.297 | 1 | 0.668 | 0.458 | 0 |
| lowest cut alt vs highest cut alt | 0.571 | 1 | 1 | 0.935 | 0.940 | 0.727 | 0 |
| lowest cut alt vs cirrhosis | 0.857 | 0.003 | 0.123 | 0.125 | 0.123 | 0.215 | 0 |
| lowest cut alt vs cirrhosis diagnosed | 0.532 | 0.613 | 0.194 | 0.882 | 0.601 | 0.284 | 0 |
| highest cut alt vs lowest cut ast | 1 | 0.396 | 0.126 | 1 | 0.444 | 0.224 | 0 |
| highest cut alt vs highest cut ast | 1 | 0.573 | 0.170 | 1 | 0.607 | 0.290 | 0 |
| highest cut alt vs lowest cut alt | 1 | 0.935 | 0.571 | 1 | 0.940 | 0.727 | 0 |
| highest cut alt vs cirrhosis | 0.750 | 0.003 | 0.062 | 0.125 | 0.063 | 0.114 | 0 |
| highest cut alt vs cirrhosis diagnosed | 0.500 | 0.601 | 0.109 | 0.925 | 0.592 | 0.178 | 0.333 |
| cirrhosis vs lowest cut ast | 0.630 | 0.125 | 0.968 | 0.008 | 0.619 | 0.764 | 0 |
| cirrhosis vs highest cut ast | 0.463 | 0.125 | 0.958 | 0.005 | 0.456 | 0.625 | 0 |
| cirrhosis vs lowest cut alt | 0.123 | 0.125 | 0.857 | 0.003 | 0.123 | 0.215 | 0 |
| cirrhosis vs highest cut alt | 0.062 | 0.125 | 0.750 | 0.003 | 0.063 | 0.114 | 0 |
| cirrhosis vs cirrhosis diagnosed | 0.416 | 0.875 | 0.992 | 0.037 | 0.427 | 0.586 | 0 |
| cirrhosis diagnosed vs lowest cut ast | 0.783 | 0.455 | 0.498 | 0.752 | 0.589 | 0.608 | 0 |
| cirrhosis diagnosed vs highest cut ast | 0.698 | 0.642 | 0.573 | 0.755 | 0.665 | 0.629 | 0 |
| cirrhosis diagnosed vs lowest cut alt | 0.194 | 0.882 | 0.532 | 0.613 | 0.601 | 0.284 | 0 |
| cirrhosis diagnosed vs highest cut alt | 0.109 | 0.925 | 0.500 | 0.601 | 0.592 | 0.178 | 0 |
| cirrhosis diagnosed vs cirrhosis | 0.992 | 0.037 | 0.416 | 0.875 | 0.427 | 0.586 | 0 |

Diagnosis of new categorical endpoints compared to case control status (gold standard) in total ppl (N=349)

| Comparison | Sensitivity | Specificity | PPV | NPV | Accuracy | F1\_Score | Kappa |
| --- | --- | --- | --- | --- | --- | --- | --- |
| lowest cut ast vs cirrhosis diagnosed | 0.498 | 0.752 | 0.783 | 0.455 | 0.589 | 0.608 | 0 |
| highest cut ast vs cirrhosis diagnosed | 0.573 | 0.755 | 0.698 | 0.642 | 0.665 | 0.629 | 0 |
| lowest cut alt vs cirrhosis diagnosed | 0.532 | 0.613 | 0.194 | 0.882 | 0.601 | 0.284 | 0 |
| highest cut alt vs cirrhosis diagnosed | 0.500 | 0.601 | 0.109 | 0.925 | 0.592 | 0.178 | 0.333 |
| cirrhosis vs cirrhosis diagnosed | 0.416 | 0.875 | 0.992 | 0.037 | 0.427 | 0.586 | 0 |

Diagnosis of new categorical endpoints compared to case control status (gold standard) after excluding NCSU (N=173)

| Comparison | Sensitivity | Specificity | PPV | NPV | Accuracy | F1\_Score | Kappa |
| --- | --- | --- | --- | --- | --- | --- | --- |
| lowest cut ast vs cirrhosis diagnosed | 0.029 | 1 | 1 | 0.514 | 0.521 | 0.056 | 0 |
| highest cut ast vs cirrhosis diagnosed | 0.029 | 0.990 | 0.500 | 0.754 | 0.750 | 0.054 | 0 |
| lowest cut alt vs cirrhosis diagnosed | 0 | 0.985 | 0 | 0.942 | 0.929 | NA | 0 |
| highest cut alt vs cirrhosis diagnosed | 0 | 0.985 | 0 | 0.964 | 0.950 | NA | 0 |
| cirrhosis vs cirrhosis diagnosed | 0.015 | 1 | 1 | 0.022 | 0.036 | 0.029 | 0 |