|  |  |
| --- | --- |
| Reference |  |
| Predicted | - Event | - No Event |
| Event | A | B |
| No Event | C | D |
|  |  |  |

The formulas used here are:

Sensitivity | Recall = A/(A+C)

Specificity = D/(B+D)

Prevalence = (A+C)/(A+B+C+D)

PPV (Pos Pred Value) | Precision [1] = (sensitivity \* prevalence)/((sensitivity\*prevalence) + ((1-specificity)\*(1-prevalence))) = A/(A+B)

NPV (Neg Pred Value) | Precison [0] = (specificity \* (1-prevalence))/(((1-sensitivity)\*prevalence) + ((specificity)\*(1-prevalence))) = D

/(C+D)

Detection Rate = A/(A+B+C+D)

Detection Prevalence = (A+B)/(A+B+C+D)

Balanced Accuracy = (sensitivity+specificity)/2

F1 = (1+beta^2)\*precision\*recall/((beta^2 \* precision)+recall)

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