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

The formulas used here are:

$$Sensitivity = \frac{A}{A + C}$$

$$Specificity = \frac{D}{B + D}$$

$$Prevalence = \frac{A + C}{A + B + C + D}$$

$$PPV = \frac{sensitivity \times prevalence}{((sensitivity \times prevalence) + ((1 - specificity) \times (1 - prevalence)))}$$

$$NPV = \frac{specificity \times (1 - prevalence)}{((1 - sensitivity) \times prevalence) + ((specificity) \times (1 - prevalence))}$$

$$Detection\ Rate = \frac{A}{A + B + C + D}$$

$$Detection\ Prevalence = \frac{A + B}{A + B + C + D}$$

$$Balanced\ Accuracy = (sensitivity + specificity)/2$$

$$Precision = \frac{A}{A + B}$$

$$Recall = \frac{A}{A + C}$$

$$F1 = \frac{(1 + \beta^2) \times precision \times recall}{(\beta^2 \times precision) + recall}$$