

$$\text{Precision} = \frac{TP}{TP+FP} = \frac{4}{4+2} = 0.666$$

$$\text{Recall (Sensitivity)} = \frac{TP}{TP+FN} = \frac{4}{4+2} = 0.666$$

$$\text{Specificity} = \frac{TN}{N} = \frac{2}{4} = 0.5$$

$$F_1 \text{ Score} = F_1 = \frac{2PR}{P+R} = \frac{2 \left( \frac{4}{6} \right) \left( \frac{4}{6} \right)}{\left( \frac{4}{6} \right) + \left( \frac{4}{6} \right)} = \frac{2}{3} = 0.66$$