Appendix 3. Formulas for Validation

$$precision = \frac{True\ Positives}{True\ Positives + False\ Positives}$$

$$sensitivity = \frac{True\ Positives}{True\ Positives + False\ Negatives}$$

$$accuracy = \frac{True\ Positives + True\ Negatives}{TP + TN + FP + FN}$$

$$F_1 score = 2 \cdot \frac{precision \cdot sensitivity}{precision + sensitivity}$$

$$specificity = \frac{True\ Negatives}{True\ Negatives + False\ Positives}$$