$$ProbCorrect_{1,z} = P(\hat{Y} = 1 | Z = z, Y = 1) = \frac{TP_z}{TP_z + FN_z}$$

$$ProbCorrect_{0,z} = P(\hat{Y} = 0 | Z = z, Y = 0) = \frac{TN_z}{TN_z + FP_z}$$