

Predisposition?

Result

yes, 0.03

positive, 0.99

$$0.03 * 0.99 = 0.0297$$

negative, 0.01

$$0.03 * 0.01 = 0.0003$$

no, 0.97

positive, 0.02

$$0.97 * 0.02 = 0.0194$$

negative, 0.98

$$0.97 * 0.98 = 0.9506$$