Lab 3

Duke STA 240 Fall 2025

replace this text with your name

In what follows, you may find some notation useful. Let D denote your true disease status, and T denote the result of your test. Then

$$\begin{split} p &= P(D = +) \\ f_- &= P(T = -|D = +) \\ f_+ &= P(T = +|D = -) \\ 1 - f_- &= P(T = +|D = +) \\ 1 - f_+ &= P(T = -|D = -). \end{split}$$

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$$P(A|B) = \frac{P(B|A)P(A)}{P(B)}.$$

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