D = "having the disease"

N = "not having the disease"

$$P(D) = 0.005, \qquad P(N) = 0.995$$
$$P_D(T_+) = 0.90, \qquad P_N(\mathrm{T}_+) = 0.05$$

$$P(T_+) = P(D) * P_D(T_+) + P(N) * P_N(T_+) \; = \; 0.005{*}0.90 + 0.995{*}0.05 = \; 0.05425$$

By Bayes's theorem:

$$\boldsymbol{P_{T_+}(D)} = \frac{P_D(T_+)P(\mathrm{D})}{P(T_+)} = \frac{0.90 * 0.005}{0.05425} \approx \mathbf{0.08295}$$

The probability of having the disease given that the test is positive is approximately **8.295%**