

True disease status

Disease is present

Disease is absent

Surveillance outcome

$$p(D^+) = \pi_t$$

$$p(D^-) = 1 - \pi_t$$

Disease is present (O^+)

$$SSe.\pi_t$$

$$(1 - SSp).(1 - \pi_t)$$

Disease is absent (O^-)

$$(1 - SSe).\pi_t$$

$$SSp.(1 - \pi_t)$$