## Chapter 4: Screening for Disease

Reproducibility statistics

| Rater A | Rater B |  |  |
| :---: | :---: | :---: | :---: |
|  | + | - |  |
| + | a | $b$ | $p_{1}$ |
| - | C | $d$ | $q_{1}$ |
|  | $p_{2}$ | $q_{2}$ | $N$ |
|  |  |  |  |

Despite what the book says, you do not have to convert counts into percents to use this formula. K quantifies the percent agreement that is above that due to chance. See Table 4.4 (p. 82) for interpretation guidelines.

## Validity statistics



SEN = (TP)/ (those with disease) $=(T P) /(T P+F N)$

SPEC $=(\mathrm{TN}) /$ (those without disease)

$$
=(\mathrm{TN}) /(\mathrm{TN}+\mathrm{FP})
$$

PVP = (TP) / (those who test positive)
$=(T P) /(T P+F P)$
PVN = (TN) / (those who test negative)
$=(\mathrm{TN}) /(\mathrm{TN}+\mathrm{FN})$

See text for Bayesian equivalents for determining predictive value based on prior probabilities and test parameters.

