

Biostat 6)
part 3

* Sensitivity = $\frac{TP}{TP + FN}$

ability to diagnos +ve

* specificity = $\frac{TN}{TN + FP}$

ability to diagnos -ve

* Positive predictive value (PPV) = $\frac{TP}{\text{all +ve}}$

Probability that a person who
has a +ve Result Really has the
disease.

* Negative predictive value (NPV) = $\frac{TN}{\text{all -ve}}$

Probability that a person who
has a -ve Result Really is healthy

* Efficiency = $\frac{TP + TN}{\text{all } TP + FP + TN + FN}$

To which extent
the test is efficient
to diagnos certain
disease.

* prevalence = $\frac{\text{Cases}}{\text{pop.}}$

note 1 : 100 sensitivity $\rightarrow$ No FN
100 specificity $\rightarrow$ No FP

note 2 : $\uparrow$ sens $\rightarrow$ to prevent transmission
of dis.
 $\uparrow$ spec $\rightarrow$ fatal dis.