

screening tests design



Ask Mish

| | DISEASED people | HEALTHY people | |
|---------------|-----------------|----------------|---------------------------|
| TEST POSITIVE | true positive | false positive | positive predictive value |
| TEST NEGATIVE | false negative | true negative | negative predictive value |
| | sensitivity | specificity | accuracy |

screening tests concepts



Ask Mish

- **Sensitivity** = percentage of people w / **disease** detected by test
- **Specificity** = percentage of **healthy** p. detected by test
- **PPV** = if a **test** is positive what is the chance to be **true**
- **NPV** = if a **test** is negative what is the chance to be **true**
- **Accuracy** : what is the chance that a test (+ or -) is **true** = $\frac{tp+tn}{\text{all tested}(tp+tn+fp+fn)}$; chance=percent