

# PPV vs Sensitivity vs Specificity



Ask Mish

- $PPV = TP / FP$  low usually because TP low in comparison to FP
- $SENSITIVITY = TP / FN$  if high, because TP high in comparison to FN
- **INCREASING SENSITIVITY** usually by decreasing the screening test threshold which will produce an increase in TP but also in FP
- Relationship sensitivity vs specificity: any increase in FP will decrease specificity! Remember  $SPECIFICITY = TN / FP$ . We can say any increase in sensitivity will produce a decrease in specificity!