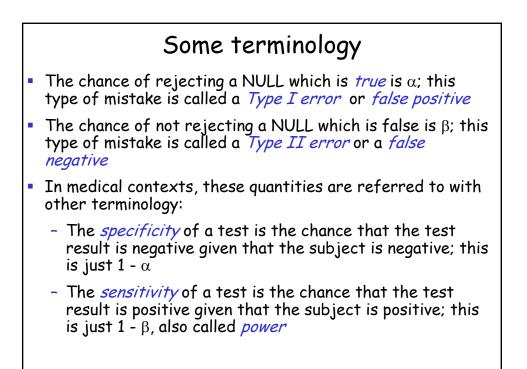
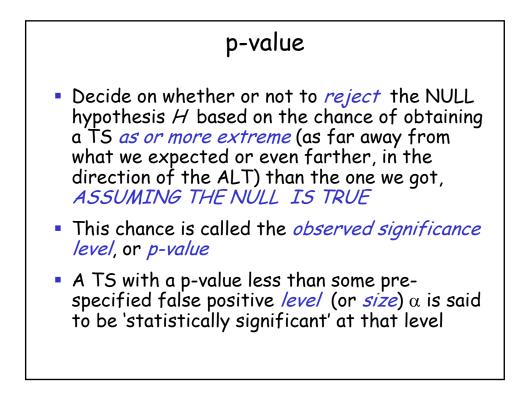
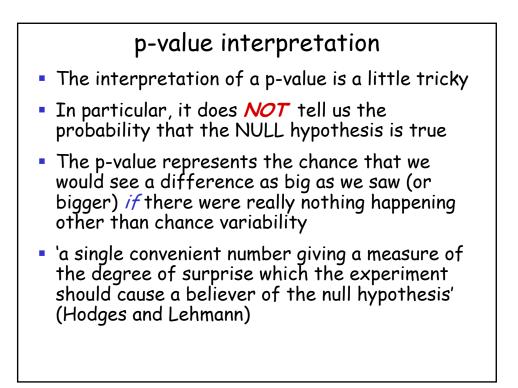
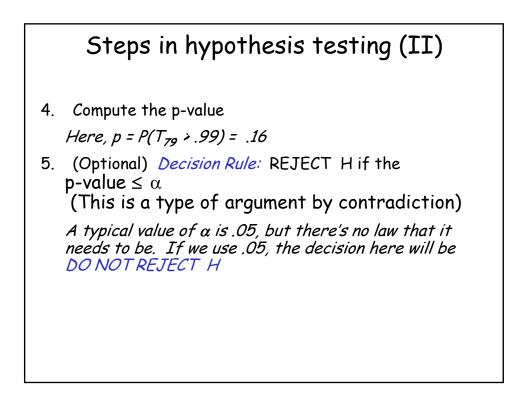


Hypothesis Truth vs. Decision		
Decision Truth	not rejected	rejected
true H	© specificity	X Type I error (False +) α
false H	X Type II error (False -)β	<b>e</b> Power 1-β; sensitivity









## Power

- Not only do you want to have a low FALSE positive rate, but you would also like to have a high TRUE positive rate - that is, high *power*, the chance to find an effect (or difference) if it is really there
- Statistical tests will not be able to detect a true difference if the sample size is too small compared to the effect size of interest

