

Chapter 6

The t-test and Basic Inference Principles

The t-test is used as an example of the basic principles of statistical inference.

One of the simplest situations for which we might design an experiment is the case of a nominal two-level explanatory variable and a quantitative outcome variable. Table 6.1 shows several examples. For all of these experiments, the treatments have two levels, and the treatment variable is nominal. Note in the table the various experimental units to which the two levels of treatment are being applied for these examples. If we randomly assign the treatments to these units this will be a randomized experiment rather than an observational study, so we will be able to apply the word “causes” rather than just “is associated with” to any statistically significant result. This chapter only discusses so-called “between subjects” explanatory variables, which means that we are assuming that each experimental unit is exposed to only one of the two levels of treatment (even though that is not necessarily the most obvious way to run the fMRI experiment).

This chapter shows one way to perform statistical inference for the two-group, quantitative outcome experiment, namely the independent samples t-test. More importantly, the t-test is used as an example for demonstrating the basic principles of statistical inference that will be used throughout the book. The understanding of these principles, along with some degree of theoretical underpinning, is key to using statistical results intelligently. Among other things, you need to really understand what a p-value and a confidence interval tell us, and when they can

Chapter 6 The T Test And Basic Inference Principles

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