

Chapter 12

A Primer of Methods in Biobehavioral Research: Improving a Study's Design, Analysis, and Write Up

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Abstract

This chapter describes several best practices for collecting, storing, analyzing, and writing up data generated from biobehavioral research. The goal is to provide a foundation for researchers who wish to consider more advanced topics of experimental design and statistical inference in their work. The principles considered here are general and apply to basic biobehavioral research using a variety of different model systems and animals. Common issues and pitfalls are discussed, and considerations draw on both traditional principles and newer ideas.

Key words Statistics, Data, Biobehavioral, Research, Methods, Analysis, Design, Write up, Format, Style, Best practices

1 Introduction

This chapter provides an introduction to the design and analysis of experiments for researchers in biobehavioral sciences. The goal of this chapter is to serve as a reference for both established researchers and graduate students who are just beginning in research. The principles considered here are general and apply to basic biobehavioral research using a variety of different model systems or animals (e.g., *in vitro* cell culture, *C. elegans*, *D. melanogaster*, *D. rerio*, *M. musculus*, and *R. norvegicus*). Many of these principles also apply to humans; however, the unique issues that arise in human biobehavioral research are not discussed. The focus is kept on common issues and pitfalls in the design of experiments, statistical analysis, and reporting of statistical tests. To aid understanding, statistical jargon and statistical equations are minimized in order to keep attention on the central concepts. Akin to an experimental protocol, the chapter begins with a discussion of issues to consider prior to data collection (experimental design considerations) and ends with a discussion of the best practices to use when reporting statistics in the manuscript. The chapter draws on both traditional principles from

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