

## Chapter 222

# Mixed Models - Repeated Measures

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## Introduction

This specialized Mixed Models procedure analyzes results from repeated measures designs in which the outcome (response) is continuous and measured at fixed time points. The procedure uses the standard mixed model calculation engine to perform all calculations. However, the user-interface has been simplified to make specifying the repeated measures analysis much easier.

These designs that can be analyzed by this procedure include

- Split-plot designs
- Repeated-measures designs
- Cross-over designs
- Designs with covariates

This chapter gives an abbreviated coverage of mixed models in general. We rely on the *Mixed Models - General* chapter for a comprehensive overview. We encourage you to look there for details of mixed models.

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## Types of Factors

It is important to understand between-subject factors and within-subject factors.

### Between-Subject Factors

Each subject is assigned to only one category of a each between-subject factor. For example, if 12 subjects are randomly assigned to three treatment groups (four subjects per group), treatment is a between-subject factor.

### Within-Subject Factors

Within-subject factors are those in which the subject's response is measured at several time points.

Within-subject factors are those factors for which multiple levels of the factor are measured on the same subject. If each subject is measured at the low, medium, and high level of the treatment, treatment is a within-subject factor.

# Mixed Models Repeated Measures Statistical Ncss

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