

CHAPTER OVERVIEW

6: Comparing Three or More Group Means

Hello everyone, and welcome to the sixth chapter of the University of Southern Queensland's online, open access textbook for statistics for research students.

The aim of this chapter is to discuss the testing of differences between mean values on a central variable of interest between three or more groups. When we examined differences between two groups we used a form of the t-test. However, when moving to an examination of differences between three or more groups we can extend the logic of the t-test to a method known as Analyses of Variance or ANOVA.

There are some slides that appear via links within Chapter Six. Please look for these as you review the current chapter.

[6.1: Between Versus Within Group Analyses](#)

[6.2: One-Way ANOVA Assumptions, Interpretation, and Write Up](#)

[6.3: Section 6.3 Repeated Measures ANOVA Assumptions, Interpretation, and Write Up](#)

[6.4: Chapter Six Self-Test](#)

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