# ANOVAs

# Tailored & Dedicated Statistics Training for Health & Medical Professionals

## Training Options

Medical Statistics Basic Concepts CourseSPSS Introduction CoursesInference Statistics With SPSS CoursesCorrelation & Regression CoursesANOVAs CoursesFactor Analysis Using SPSS CoursesStructural Equation Modelling CoursesSurvival Analysis CourseClient Site Training1 To 1 Tailored TrainingWebinar After-Training SupportData Diagnosis ClinicLearning Resources

## One-day and Half-day Analysis of Variance (ANOVA) Courses

These one-day and half-day courses will provide you with the understanding of ANOVA Designs; consisting of 1-Way Independent ANOVA, Factorial ANOVA, Repeated Measures ANOVA and Mixed Designs ANOVA. You will be guided on how to generate the correct statistics for each ANOVA design from the SPSS menus and sometimes the Syntax. You will gain knowledge and competence to enable you to format your data to use ANOVA Designs and related statistics correctly and also to interpret and report the results.

### Small Class Size

To ensure that high quality and responsive learning support is given to each participant on our public courses, we only take a small class with a maximum of **9 participants**. Therefore, it is important you register your interest early to secure a place.

### Pre-requisite

This is a follow up course on the Introduction to SPSS course. It is assumed that you have had some exposure to the basic SPSS skills.

### Teaching Methods

The teaching method is mainly hands-on. It is supported by presentation, demonstration, discussions, questions and answers.

The tutor will screen share to examine each participant’s project to provide suggestions, corrections and efficiency tips.

**Training Workbook**

Each participant receives an instructional workbook.

**Certificate of Completion & After Training Support**

Each participant receives a certificate of completion and ongoing after training support via phone, email and screen sharing.

**One-way ANOVA Course Outline**

**In this lesson, you will learn to:**

- Identify the various ANOVA designs by names.
- Explore your data to ensure it meets the assumptions for using ANOVA.
- Differentiate between, the dependent variable and factor variable.
- Generate One-Way ANOVA statistics.
- Calculate and interpret effect size.
- Report output and interpret results.
- Generate Post-hoc analysis if ANOVA proves statistically significance, i.e P-value <0.05.
- Explain the outputs and interpret the statistical results.

**Univariate Models – General Linear Models**

In this lesson, you will learn to:

- Understand data required for univariate model.
- Differentiate between the dependent variable, fixed, random and covariate factors.
- Generate an univariate analysis.
- Explore the effects of factors, covariate, and covariate interactions with factors on the dependent variable.
- Perform post-hoc analysis where appropriate.
- Examine the fit of the model.
- Explain the outputs and report findings.

**Course Reminders**

- If you do not have IBM SPSS software installed on your laptop, you can download a 14-days FREE trial copy from this link.
- Practice files come with a working copy of the software.

**Multivariate Models – General Linear Models**

In this lesson, you will learn to:

- Understand data required for multivariate model.
- Generate multivariate analysis on two or more dependant variables.
- Examine the influence of fixed factors, and covariate on the dependent variables.
- Perform post-hoc analysis where appropriate.
- Examine the fit of the model.

- Explain the outputs and report findings.

**Repeated Measures Model – General Linear Models**

In this lesson, you will cover the following topics:

- Understand data required for Repeated Measures model.
- Generate repeated measures model, which may include between subject factors, and covariates and interaction of factors and covariates.
- Understand the associated statistics produced.
- Perform post-hoc analysis where fixed factor groups are included in the model.
- Explain the outputs and report findings.

**Course Reminders**

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**One-way ANOVA Course Outline**

**In this lesson, you will learn to:**

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- Explore your data to ensure it meets the assumptions for using ANOVA.
- Differentiate between, the dependent variable and factor variable.
- Generate One-Way ANOVA statistics.
- Calculate and interpret effect size.
- Report output and interpret results.
- Generate Post-hoc analysis if ANOVA proves statistically significance, i.e P-value <0.05.
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- Explore the effects of factors, covariate, and covariate interactions with factors on the dependent variable.
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## See Course Dates

## Register Your Interest

We only need 4 interested people to schedule this course, so please submit your interest to make it happen.

Your Name (required)

Your Email (required)

What is your preferred date? (required)

When we create new FREE learning resources or remind you of important upgrade critical to help you build your data analysis skill, would you like to receive it?Yes☐No☐

Send