



# Statistics for Clinical Researchers

October - November 2010 (5 Fridays)

*A detailed & practical statistics course, run for 1 day a week over 5 weeks, covering basic analyses and how to critically appraise these in the literature.*

## Course Outline:

The course will comprise lectures, practical demonstrations, individual practical workbook exercises, group exercises and literature review on the following topics:

- Presenting Experimental Results
- Understanding Confidence Intervals
- Understanding Hypothesis Tests and p-values
- Hypothesis Tests and Confidence intervals in Practice - continuous data
- Hypothesis Tests and Confidence intervals in Practice - categorical data
- Non-parametric versus parametric analysis

The one sample, two sample and paired sample situations are considered. For the practical work Minitab software will be used for the most part, SPSS will be used to a lesser extent. Emphasis is on the methodology and not specific statistical packages.

## Who will benefit from this course?

The course is designed for researchers inexperienced in data analysis, presentation and interpretation. It assumes minimal knowledge but for those with some knowledge it will provide an opportunity to reflect critically on previous work.

## Course prerequisites:

Participants should have a sound knowledge of the Windows environment and knowledge of terms such as mean, median and standard deviation.

## By the end of this course:

Participants will have the confidence to carry out basic statistical analyses (in the one sample, two sample and paired sample situations) and critically appraise them in the literature.

### *Dates of course:*

Wednesdays 27<sup>th</sup> October, 3<sup>rd</sup> November, 10<sup>th</sup> November, 17<sup>th</sup> November and 24<sup>th</sup> November 2010  
(09:15 - 16:00)

*(Attendance is required at all 5 days)*

**Course Staff:** Dr Lilian Murray  
Senior University Teacher in Statistics, University of Glasgow

**Course fee:** £395 (academic rate)

**Venue:** Medical Education Centre, Western General Hospital, Edinburgh

For more information, please contact:

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