

National Heart and Lung Institute (Imperial College)  
Occupational and Environmental Medicine, London SW3 6LR  
**INTRODUCTORY MEDICAL STATISTICS COURSE**

National Heart and Lung Institute, Guy Scadding Building, Dovehouse Street, London SW3 6LY

**Introduction:** This two-day introductory course has been running successfully for six years for clinical and scientific research staff. Designed to introduce doctors, nurses, clinical research fellows and postgraduate students (anyone who requires an understanding of statistics in their work or research) to a number of statistical concepts, listed in the “Aims and Objectives” below. No prior knowledge of statistics is assumed.

**Candidates:** This course is run on different dates for:

- a. internal candidates:** NHLI and RBHT staff and students – free
- b. external candidates:** non-NHLI and RBHT staff – registration fee is charged

**Registration:**

- a. Internal candidates** - National Heart & Lung Institute (NHLI) and Royal Brompton & Harefield NHS Foundation Trust (RBHT) staff and students (no registration fee).
  - o Global e-mails, with an application form attached, are circulated some months before each course. Priority is given to previous unsuccessful candidates, and the remaining places are allocated at random.
- b. External candidates** - Registration fee to be confirmed (includes handout and daytime refreshments/lunch; currently including optional evening dinner on the first evening).
  - o Places are allocated on a “first come, first served basis”, and registration is online only. Places are confirmed upon payment of the registration fee.
  - o Delegate numbers are limited to 50, and demand is always very high, so please register early. If you need to apply for study leave, please check with Magda Wheatley first if there is a place available. The registration link and course details are circulated in the Spring before each course.

**Accreditation:**

- a. Internal candidates** – Accredited by Imperial College’s Academic Training Committee as a recognised ‘B’ equivalent course on the GSLSM (Graduate School of Life Sciences and Medicine) Transferable Skills Programme
- b. External candidates** - CPD (Royal College of Physicians): 12 non-clinical points

**Aims and Objectives** – By the end of the two days, participants should:

- o Have an appreciation of the uses of statistics in research
- o Understand how their research hypothesis relates to statistical null and alternative hypothesis
- o Identify different data types and describe and summarise them
- o Appreciate which statistical tests are appropriate for their data (two and three group scenarios)
- o Assess agreement using a variety of methods
- o Calculate sample sizes for basic study designs
- o Understand the principles behind various forms of regression analysis
- o Critically appraise statistical methodology and reported results in peer-reviewed publications

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*For further information, please contact:*

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