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## Introduction to Research Methods and Practical Statistics

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### For Whom

The course is relevant to all grades of non-consultant hospital doctors but is particularly suitable for Specialist Registrars in Higher Medical or Surgical Training. The course is also relevant to other Health Care Professionals or anyone in the Health Care field who needs to understand, use or carry out Health Care Research studies. Material covered is of an introductory and intermediate level and provides foundation for more advanced techniques. The course does not assume any previous training in statistics.

### Learning Objectives

The course aims to teach Health Care researchers the essential elements of research methodology, critical appraisal of evidence and statistics. The focus is mainly on interpretation and understanding appropriate methodology and providing a practical introduction to using statistical software. By the end of the course, participants will have acquired the essential skills for performing Health Care research and understanding, reviewing and using published research.

### Content

The course consists of a combination of lectures and practical sessions. Practical sessions are either computer based for analysis work or workshop style in smaller groups. The course is designed to encourage participant involvement. Participants are provided with an extensive course folder including presentations, practical questions, solutions and recommended reading and other useful background information. **Please note that the SPSS Software is not included in the fee and can be purchased separately at a discounted price.**

#### Day 1 - Content

- The Basics of Clinical Research
- Introduction to Basic Statistics
- Clinical Trials Legislation
- Statistics Testing
- Introduction to Critical Appraisal

#### Day 2 – Content

- Review of Evening Assignments
- Session 1: Sample Size and Randomisation
- Introduction to Observational Studies
- Session 2: Advanced Statistical Methods
- How to get started in clinical research
- How to perform statistics using a statistical package (computer laboratory) Break for coffee mid-session

#### Day 3 – Content

- Practical session on how to perform statistics using a statistical package.
- Question and Answer Session



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## **Learning Methods**

The course is highly participative with the use of a variety of learning techniques, which includes lectures, skills & practical use of the SPSS Software. **Please be advised that the SPSS Software is not included in the programme fee.**

## **Course Delivery**

The course will begin at 9.00am Day 1 and Day 2 and will finish at 5.30pm. The course will start at 9.30 am and finish at 1pm on the Saturday.

## **Venue**

Post Graduate Medical Centre of St James's Hospital, Dublin 8

## **Joint Course Directors**

The course is jointly organised by The Royal College of Physicians of Ireland, the Department of Pharmacology & Therapeutics, Trinity Centre, and The Centre for Advanced Clinical Therapeutics (CACT) St James's Hospital Dublin. The course organisers are Dr. Kathleen Bennett, (Statistician, Department of Pharmacology & Therapeutics) and Dr. Mary Teeling (Medical Advisor, National Medicines Information Centre NMIC) & (Lecturer in Pharmacology, Trinity College, Dublin).

## **Course Fee**

Inclusive of tuition, documentation, morning coffee and afternoon tea the fee is €550 for RCPI members and €600 for non members. Lunch will not be provided.

**Fees are payable to the RCPI in advance of programme. Please be advised that the SPSS Software is not included in price.**

## **CME**

**This programme is accredited for 18 CME Credits.**



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## Introduction to Research Methods and Practical Statistics

4<sup>th</sup> – 6<sup>th</sup> November 2010

3<sup>rd</sup> – 5<sup>th</sup> March 2011

(Please tick the date you wish to attend)

**PLEASE PRINT YOUR DETAILS IN BLOCK CAPITALS – ALL FIELDS MUST BE COMPLETED**

SURNAME

FIRST NAME

EMAIL  @

CONTACT NO.

SPECIALTY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

GRADE:      CONSULTANT       SPR       REGISTRAR       OTHER

HOSPITAL: \_\_\_\_\_ RCPI No. (if applicable) \_\_\_\_\_

REGISTERED RCPI MEMBERS & FELLOWS	€550	<input type="checkbox"/>
<u>NON</u> RCPI MEMBERS	€600	<input type="checkbox"/>

CHEQUE/BANK DRAFT MADE OUT TO THE ROYAL COLLEGE OF PHYSICIANS OF IRELAND OR

VISA       MASTERCARD

                      

EXPIRES END OF:   /

CARDHOLDER'S NAME: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**The College is unable to process credit card details for anyone other than the applicant**

### Cancellation Fees

Please note that fees will not be refunded for cancellations received later than 10 working days prior to the programme date. This also applies to no-shows.

**Please send this registration form to:**  
The Educational Development Department, Royal College of Physicians of Ireland, Frederick House,  
19 South Frederick Street, Dublin 2.  
**Phone: (01) 863 9700      Fax (01) 672 4707**