



UCD School of Medicine
UCD Clinical Research Centre

INTRODUCTION TO BIostatISTICS

Duration	6 weeks
Schedule	2-3 hours/week
Next intake	For more information contact the UCD Clinical Research Centre at crc@ucd.ie



BUILD YOUR KNOWLEDGE OF STATISTICS

The Introduction to Biostatistics course aims to develop a basic understanding of clinical biostatistics. The course is offered free of charge by the UCD Clinical Research Centre to all hospital staff and students.

You will be provided with basic introductory training in statistics, including principles of study design and the use of statistical software. This will help you with the design and analysis of your own studies as well as giving you skills in the critical appraisal of research literature.

IN YOUR OWN TIME

The course duration is 6 weeks and consists mostly of online lectures and exercises which can be completed in your own time. This will be supplemented with three live lessons, which will be delivered throughout the course.

SHOULD I TAKE THIS COURSE?

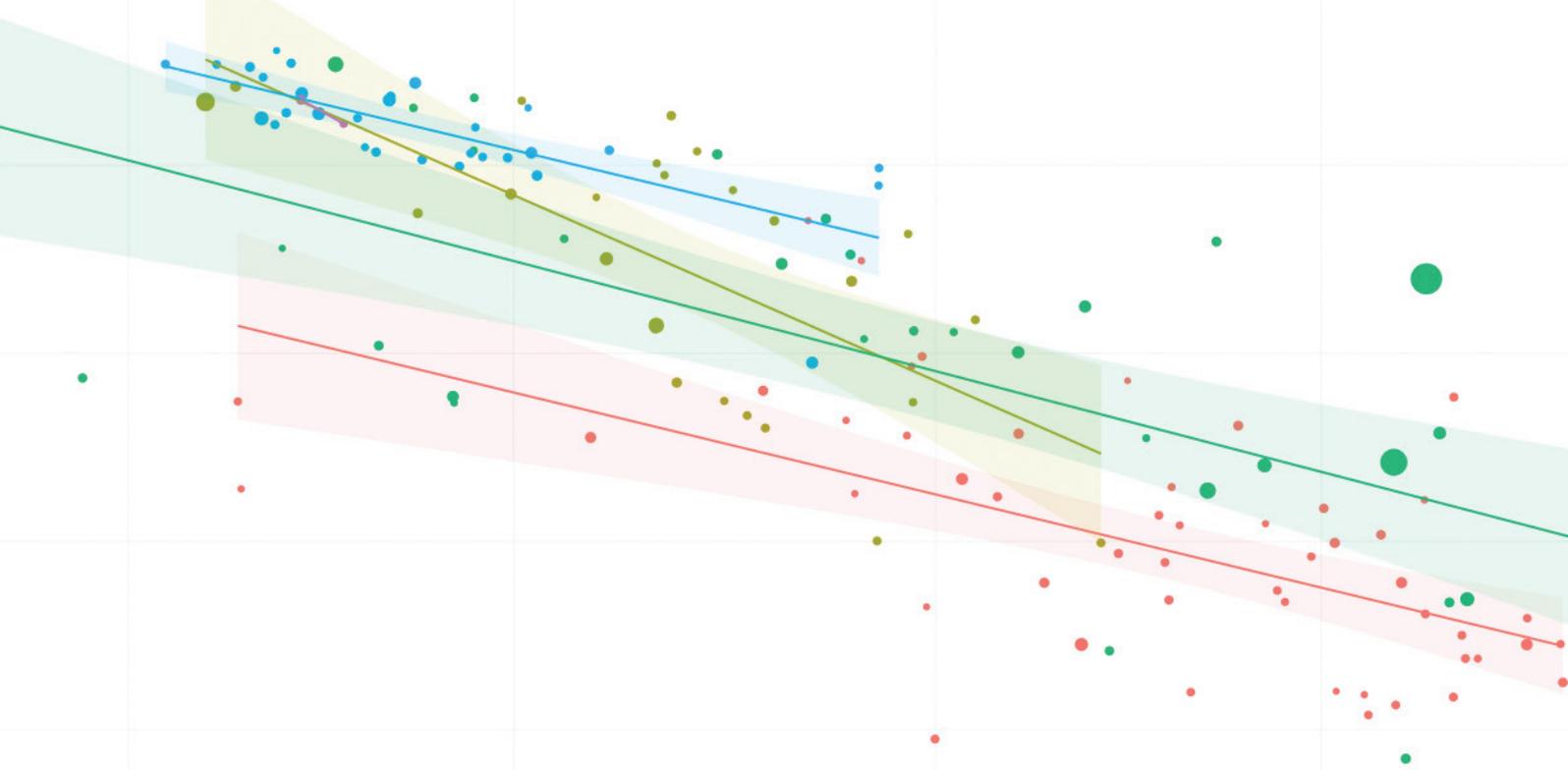
If you are engaged in research and evidence-based medicine, but you are having difficulty in understanding some of the statistics and study design involved, this course may help you along.

Led by Dr Sebastian Vencken and Dr Marie Galligan, Clinical Statisticians at the UCD Clinical Research Centre, this programme is designed as a guide to statistical thinking.

WHAT DO I RECEIVE AT THE END?

Upon completion of the Introduction to Biostatistics course you will receive a certificate of completion. This course is offered by the UCD Clinical Research Centre on a pro bono basis and is therefore unaccredited. You will therefore not be officially registered with the university nor will you receive a UCD accreditation.

However, with the certificate of completion, you may be able to apply for CPD points from your relevant professional organisation.



LEARNING OUTCOMES

On successful completion of the Introduction to Biostatistics course, students will be able to

Understand descriptive statistics and produce these using statistical software

Have a basic understanding of probability and statistical theory

Import, manipulate, clean and structure data sets using statistical software

Use models to make estimates and statistical inferences about populations

Understand the concepts of precision and uncertainty of estimates

Comprehend and perform hypothesis testing using statistical software

Identify bias and understand its impact on inference

Appraise and evaluate clinical studies and research literature

HOW WILL I LEARN?

To complete the Introduction to Biostatistics course you will

- » Participate in 6 weeks of study (2-3 hours/week)
- » Follow online video lectures and tutorials
- » Attend three live lectures
- » Complete weekly online exercises
- » Engage in the online discussion forum on statistics

ENTRY CRITERIA

- » You will have to be affiliated with the hospital
- » If the number of applications exceed the number of places, applications will be accepted on a first-come-first-serve basis.



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UCD Clinical Research Centre

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More information on this course

www.ucd.ie/medicine

For International Students

www.ucd.ie/international/study-at-ucd-ie

Apply for this course: Contact crc@ucd.ie