

DENTAL RESEARCH: An Introduction to Research Methods

Birmingham Dental Hospital

3rd & 4th July 2018



Overview

This course provides an introduction to the design, analysis and interpretation of different study designs used to investigate dental research questions.

The course will consider the key features of randomised controlled trials, cohort, case-control and cross-sectional studies.

Participants will be guided through the key issues to consider when designing a study. They will also be introduced to key epidemiological and statistical concepts to aid their design and interpretation of research studies.

The course will include talks and practical exercises, using examples relevant to dental research.

Course Objectives

By the end of the course participants should be able to:

- review the literature and formulate an appropriate research question
- choose an appropriate study design to answer a research question
- recognise and define common measures of disease and association
- utilise methods to minimise bias in different study designs
- appreciate statistical considerations in the design and analyses of studies
- understand how an economic evaluation can be embedded in a study
- interpret and critically appraise different study designs
- report different study designs appropriately

£250

non-
residential

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Draft Timetable

Day 1

9:00	Registration, tea & coffee	
9:30	Introduction to the course	Razia Meer-Baloch & Sara Brookes
9:45	Measures of disease occurrence and association	Professor Dietrich
10:15	Statistical inference, confidence intervals and P-values	
11:00	Tea/Coffee	
11:15	Observational studies	Professor Dietrich
12:15	Lunch	
13:00	Principles of randomised controlled trials	
14:00	Systematic reviews and meta-analysis	
15:00	Tea/Coffee	
15:15	Research Ethics & Research Governance	
15:45	Practical exercise	
16:30	End of day 1	

Day 2

9:30	Overview of Day 1	
9:45	Choosing outcomes	
10:15	Sample size calculations	
11:15	Study design practical (inc. Tea/Coffee)	
13:15	Lunch	
14:00	Health Economics	
14:45	Reporting the results of a study	
15:15	Tea/Coffee	
15:30	Critical Appraisal	
16:00	Critical Appraisal Practical	
16:30	End of Course	