

READ CLINICAL PAPERS WITH CONFIDENCE



Critical Appraisal Workshop

organised by the Education Committee of the British
Orthodontic Society

*A comprehensive and practical overview of everything you need to understand
and appraise clinical papers with the confidence to pass assessments*

at the British Orthodontic Society Headquarters
12 Bridewell Place
London EC4V 6AP

on Friday 31 March and Saturday 1st April 2017

The Critical Appraisal Company



The *Critical Appraisal Workshop* provides a comprehensive overview of everything you need to understand and appraise clinical papers with confidence.

Narinder Gosall will teach critical appraisal from first principles, assuming no prior knowledge. She will guide you through presentations and exercises designed to illustrate key points. You will test your understanding by completing exercises in the workshop handout and appraising real clinical papers. The workshop will use interactive handsets.

The workshop offers the opportunity to not only learn how to critically appraise clinical papers but to practice these new skills under supervision.

Become an expert!

By the end of the workshop, you will

- ★ understand the meaning of evidence-based medicine and the importance of critical appraisal skills
- ★ be able to identify different study designs
- ★ be able to evaluate the methodology of any study for strengths and weaknesses
- ★ understand how to choose a statistical test to analyse data and be able to interpret the results of any study
- ★ be able to calculate clinically useful statistics from results data
- ★ be able to decide whether to change clinical practice based on the results of a study

Outstanding value for money!

The workshop fee is £180 which includes the workshop handout, certificate of attendance (12 hours CPD), refreshments and lunch and complimentary access to the *Critical Appraisal Online Course* for three months after the workshop date. The online course includes the core teaching materials.

Book your place today by visiting the BOS website:

<http://www.bos.org.uk/News-and-Events/Events/BOS-Events>

Registration opens 0845 on
Friday 31 March
Workshop starts 0900 on
Friday 31 March
Workshop ends 1600 on
Saturday 1st April

Venue

British Orthodontic Society
Headquarters, 12 Bridewell
Place, London EC4V 6AP

Workshop topics include

Types of studies
Populations and samples
Sample size and power
Inclusion and exclusion criteria
Bias and confounding
Randomisation and allocation
Blinding and placebos
Reliability and validity
Intention-to-treat analysis
Incidence and prevalence
Means, medians, modes
Null hypothesis and P values
Type 1 and type 2 errors
Choosing statistical tests Risks
and odds
Numbers needed to treat
Correlation and regression
Systematic reviews
Meta-analyses
Forest plots and funnel plots
Homogeneity/heterogeneity
Non-inferiority/equivalence
Diagnostic studies
Sensitivity & specificity
Pre/post-test probabilities
ROC curves
Prognostic studies
Kaplan Meier survival graphs
and more!

Friday 31 March 2017	
0845	Registration
0900	Introduction to Evidence Based Orthodontics
0915	Appraising Methodology <i>The clinical question and primary hypothesis; types of studies; samples and populations; endpoints</i>
1000	Appraising Methodology <i>Bias; confounding factors; restriction; matching; randomisation; blinding; reliability; validity</i>
1045	Coffee
1100	Understanding Results <i>Intention to treat analysis; null hypothesis and p values; confidence intervals</i>
1230	Lunch
1330	Understanding Results <i>Power; type I and type II errors</i>
1430	Understanding Results <i>Types of data; statistical tests; risks and odds</i>
1515	Coffee
1530	Understanding Results <i>Correlation; regression; ANCOVA; MANOVA; MANCOVA</i>
1700	Feedback and Close
Saturday 1st April 2017	
0900	Critical Appraisal <i>RCTs</i>
1045	Coffee
1100	Critical Appraisal <i>Prognostic studies</i>
1230	Lunch
1330	Critical Appraisal <i>Observational studies</i>
1500	Coffee
1515	Critical Appraisal <i>Systematic reviews and meta-analyses</i>
1600	Summary and Close