

# CRITICAL APPRAISAL VIRTUAL WORKSHOP

## Aim

To gain a comprehensive overview and understanding of how to critically appraise clinical papers.

## Objectives

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

## Agenda

0900	Introduction to evidence-based medicine - <i>Types of studies; samples and populations; endpoints.</i>
1010	Appraising methodology I - <i>The clinical question, primary hypothesis, secondary hypotheses (type I &amp; II errors and power / sample size calculations)</i>
1100	<b>Coffee Break</b>
1115	Appraising methodology II - <i>Bias; confounding factors</i>
1130	Linear Regression: <i>simple vs multiple regression; Logistic Regression; Cox regression</i>
1230	<b>Lunch Break</b>
1300	<b>Clinical Paper practice</b>
1330	Understanding results I - <i>Statistical tests: descriptive statistics, inferential statistics; OR/RR/absolute risk/NNT/NNH</i>
1430	Interpretation of results II - <i>Survival studies; Kaplan Meier analysis, Hazards ratios</i>
1500	Interpretation of results III – <i>Systematic reviews and meta-analyses</i>
1530	<b>Feedback and close</b>
<b>DAY 2</b>	<b>Clinical Paper Day</b>
0900	Quick fire theory test
0930	Interpretation of tables/graphs using clinical paper extracts
1030	<b>Coffee Break</b>
1045	Clinical papers and exam style questions
1230	<b>Lunch break</b>
1300	Clinical papers and exam style questions
1530	<b>Feedback and close</b>