



DEPARTMENT OF MEDICAL EDUCATION

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ADVANCED RESEARCH METHODOLOGY AND BIOSTATISTICS

The aim of the workshop is to equip the participants with the thorough understanding of identifying a research topic from the evidence base of clinical medicine & dentistry to be able to conduct good quality clinical research. This in turn will generate practice-based evidence for future Evidence Based Practice.

Intended Learning Outcomes

On successful completion of this workshop, the participants should be able to:

- Critically appraise the medical scientific literature, including the methodology of published and proposed investigations.
- Identify a focus for future research and scholarly work.
- Independently formulate a research question.
- Design and conduct a clinical study to address that question.
- Identify trial design that best answers the identified study question.
- Differentiate between a Randomized Controlled Trial and Pragmatic trial.
- Summarize the key functions & documents related to the ethical conduct of clinical trials.
- Describe the procedures for clinical trial data collection and data management to ensure optimal quality data.
- Outline a study level feasibility plan and describe the structure of a study budget.
- Outline the various quality management issues in clinical trials.
- Register trial in trial registries.
- Discuss the collection, evaluation, and reporting of adverse event data in clinical trials.
- Discuss the evaluation and interpretation of clinical trials results.
- Explain the role of DRAP and other governance committees during the study conduct.
- Present and publish the results of one's scholarly work based on CONSORT guidelines.