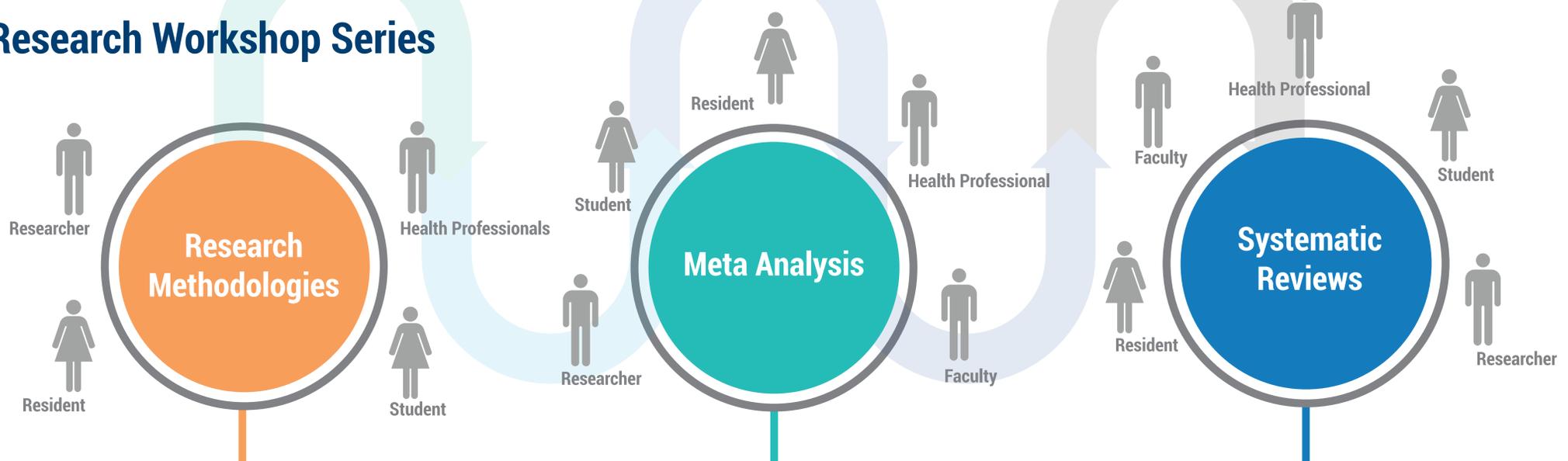


AMML Striving to Enhance Research Quality and Output at MBRU

AMML initiated Research workshop series for students, faculty, staff at MBRU and other medical professionals at Dubai Healthcare City. These workshops aims to develop more confidence by exploring techniques in research methodology, meta analysis and systematic reviews.

Research Workshop Series



Research methodology workshop provides an introduction to research methodologies in both qualitative and quantitative. This workshop introduces participants to contemporary perspectives in research, and focuses on developing a range of skills involved in formulating a research proposal; including framing research questions, reviewing the literature and choosing appropriate methodologies for different types of study.

Objectives

- To familiarize participants with basic research and research process
- Understand research terminology
- To understand the ethical principles of research, challenges and approval processes
- Describe quantitative, qualitative and mixed methods approaches to research
- Identify the components of a literature review process and Critically analyze published research

Learning Outcomes

- Participants will be able to understand various kinds of research, objectives of doing research, research process, research designs and sampling.
- Develop basic knowledge of qualitative research techniques
- Participants will be able to have adequate knowledge on measurement & scaling techniques as well as the quantitative data analysis
- Participants will be able to have basic awareness of data analysis-and hypothesis testing procedures

The Meta-analysis workshop for health professionals is designed to provide an overview of different meta-analysis methods and common problems encountered with extracting data. Basic and advanced methods which can be used to combine data from various study types will be covered using Review Manager and Stata software.

Objectives

- Be able to plan, carry out and interpret meta-analysis of different study designs for questions in evidence based healthcare.
- Extract data in different formats and deal with missing data
- Use three different software packages (Stata, Review Manager and R) to perform meta-analysis
- Use methods to explore heterogeneity and appropriately use fixed and random effects, subgroup analysis, sensitivity analysis and meta-regression
- Carry out and interpret cumulative meta-analysis, diagnostic accuracy meta-analysis and network meta-analysis
- Understand the advantages and limitations of an individual patient data meta-analysis

Learning Outcomes

Researcher will be able to use standard methods for intervention comparisons, approaches which can be used for combining different summary measures, subgroup analyses and methods to investigate heterogeneity, as well as advanced methods for diagnostic accuracy, individual patient data and network meta-analysis.

A systematic review of the literature is the gold-standard approach for integrating evidence-based information and assessing gaps in health care. Systematic reviews require a specific and precise methodology. It includes introductory concepts related to systematic reviews including the role and purpose of different types of systematic reviews, assessment of the quality of studies, and the management of bias.

Objectives

- To participate in all of the steps involved in the conduct of a systematic review
- Understand the theory behind a systematic review
- How to formulate an answerable research question
- To recall and develop the components of a research question amenable to systematic review
- To gain familiarity with components of a comprehensive and systematic literature search strategy
- To determine the steps needed for including/excluding studies in a systematic literature review including data abstraction and development of a standard database

Learning Outcomes

Participants will be able to understand concepts and the role and purpose of different types of systematic reviews, assess the quality of studies, and the management of bias, to have comprehensive workbook which includes practical instructions and guidelines for the conduction of specific types of systematic reviews.