



Research Series Session 4: Design and Appraisal of Randomized Controlled Trials

Date: Tuesday 20th October 2020 6-8pm via WebEx

Registrants will receive Web Ex session link through their emails.

Aim: To enhance healthcare practitioners' knowledge and confidence in designing and appraising randomized controlled studies (RCTs)

Learning objectives:

- Illustrate the methodology of randomized control trials (RCTs).
- Understand how to formulate good research question and hypothesis specifically in RCT research studies.
- Describe the key characteristics of RCT study design including research questions, hypothesis, participant's selection, data collection methods and analysis.
- Discuss the factors that determine when a particular RCT design is indicated.
- Evaluate the quality of RCTs using a systematic critical appraisal process
- Report and interpret results of RCTs for practices and future research.
- To make effective uses of CONSORT-a standard guideline applicable to conduct and report high quality RCT research studies.

Speakers:

- **Dr. Hazem Elewa**, Associate Professor, College of Pharmacy, Qatar University
- **Dr. Prem Chandra**, Academic Research Scientist (Biostatistics), Hamad Medical Corporation (HMC)
- **Dr. Mohamed A Yassin**, Consultant Hematologist, Hamad Medical Corporation (HMC)

This educational round is accredited as Category 1 by Qatar Council for Healthcare Practitioners Accreditation Department (QCHP-AD) for all Healthcare providers for a maximum of 2.0 CE Units.



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Continuing Professional Development of Health Professionals

Dr. Hazem Elewa, Associate Professor and Head of Clinical Education and Training, College of Pharmacy, QU Health, Qatar University



Dr. Hazem received his Bachelor degree in pharmacy from Alexandria University, Egypt in 2000, then PhD from University of Georgia (UGA) in 2008. He joined University of Florida for a one year post-doctoral fellowship in pharmacogenomics. Since October 2010, Dr. Hazem served as a Clinical Pharmacist at Georgia Regents Medical Center and was appointed as a Clinical Assistant Professor at the University of Georgia, College of Pharmacy as well as a clinical rotation preceptor since 2011.

Dr. Hazem's currently works as the Head of Clinical training and Associate Professor at the College of Pharmacy, Qatar University. His clinical practice is focused on Cardiology and anticoagulation. His research interest includes anticoagulation and precision medicine in cardiovascular diseases through the use of pharmacogenetics. He received several awards including a pre-doctoral fellowship grant from the American Heart Association and multiple grants through Qatar National Research Foundation and Hamad Medical Corporation. To date he has published over 50 peer-reviewed papers and was invited speaker at different international conferences. He supervised several MSc students and currently supervises 2 PhD students at the College of Pharmacy. Dr. Elewa also serves as a board member in the International Pharmacists Anticoagulation Care Taskforce (iPACT).





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Dr. Prem Chandra ,Academic Research Scientist (Biostatistics), Medical Research Centre,
Academic Health System, Hamad Medical Corporation (HMC).



Dr. Prem Chandra is an Academic Research Scientist (Biostatistics) at Medical Research Centre, Academic Health System, Hamad Medical Corporation (HMC), Doha, Qatar. He graduated from the Vikram University, Ujjain, and International Institute for Population Sciences, Mumbai, and did his Doctorate (PhD) in Biostatistics from All India Institute of Medical Sciences (AIIMS), New Delhi, India. His main areas of research interests focus on medical statistics, design, conduct, statistical analysis and reporting of clinical trials, epidemiological and public health research methodology, clinical trials, diagnostic research, survival analysis, mathematical and applied statistics, development of prognostic models and its validation, dose response analysis, general linear models etc. He has published more than eighty research articles in peer reviewed national and international journals including articles in high impact factors.

Dr. Prem involved in a number of academic and administrative duties which included Associate Editor, Model Assisted Statistics-An International Journal of Statistics, reviewers of various national and international peer reviewed journals, reviewer for Qatar University internal grants research projects, technical committee member for research projects at Ministry of Public Health, Qatar, member of Institutional Review Board (IRB) at HMC, life member of Indian Society for Medical Statistics and the Indian Science Congress Association. He has been awarded prestigious fellowship and grants from Government of India during his doctorate course at AIIMS and to attend various international conferences and research symposiums. He is the scientific program lead in conducting research methodology course at HMC since year 2017 and involved in teaching research methodology course particularly topics on research study designs and biostatistical methods. He has been working as Co-investigator/Senior Biostatistician in more than forty research project studies at HMC.





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Dr .Mohamed A Yassin
MBBS, CABM, MSC.
FACP .MSC
Consultant Hematologist
and Associate Professor of
Medicine-NCCCR –HMC
College of Medicine –Qatar
University

- ☐ Graduated from Faculty of Medicine University of Khartoum.
- ☐ Certified in Internal Medicine by Arab Board of Medical Specialization
- ☐ Completed his fellowship in Hematology in HMC.
- ☐ Obtained His Master Degree in Hematology (Hemoglobiopaathies) from University College of London UK.
- ☐ Obtained European master for transfusion and advanced cell therapy from University of Barcelona Spain.
- ☐ Completed short term training in Bone marrow Transplant in institute Gustave Russee France.
- ☐ Trained in Molecular Biology and clinical trials in Saint Louis Hospital France
- ☐ Fellowship of American College of Physician.
- ☐ Membership of American Society of Hematology, Association, Thalassemia International Federation. European Hematology
- ☐ Published More than 400 publications and abstracts in Peer reviewed journals like Blood, Leukemia , British Journal of Hematology and international conferences like ASH, EHA, ESMO, TIF, and ELN
- ☐ Had one patent and 2 innovations, More than 15 research grants, 6 awards in educations.
- ☐ Course director for Medical writing, Statistics Made Medicine, Communication Skills Easy, Evidence Based
- ☐ Mentoring and supervising resident's fellows, undergraduate and post graduate students.
- ☐ Instructor in 2 research methods courses.
- ☐ Clinical Lead for Hemoglobinopathies and Myeloproliferative Neoplasm
- ☐ Research interest Myeloproliferative Neoplasms, Hemoglobinopathies, and Therapeutics.
- ☐ Obtained many Grants regionally and internationally, as well as conducting many multicenter clinical trials and high level research collaboration with RIKEN institute , University of Paris, Verona, Tourine.European Leukemia Net

