



University of California
San Francisco



MANIPAL
ACADEMY of HIGHER EDUCATION
(Institution of Eminence Deemed to be University)

Six Months Certification Course in

 **RESEARCH TO
PUBLICATION**





About BMJ & UCSF

About the Course

Research to Publication is a research methodology and publishing programme specifically designed for healthcare researchers, brought to you by BMJ in collaboration with University of California, San Francisco (UCSF). With an option to enrol for 3 days workshop at KMC, Manipal

This is the only research course to combine the expertise of a high impact publisher with a world-class university.

The programme, made up of 8 multimedia units and 52 modules, is focused entirely on healthcare research. BMJ's research editors and UCSF's academics, guide learners through the entire process from designing a study, to seeing it published in an international journal.

Interactive self-study modules give learners the skills necessary to conduct investigations and overcome the challenges associated with getting published in international journals.

This course is suitable for anyone conducting research on medicine, healthcare, public health, and epidemiology.

About UCSF

University of California, San Francisco (UCSF), one of the world's leading medical schools and research institutions to train healthcare workers, junior researchers and medical students in conducting and publishing clinical research.

UCSF is a collection of dedicated scientists, clinicians, students and staff who share a common drive to make the world a better place by advancing health and the human condition.

UCSF was the top public recipient of research grants from the US National Institutes of Health for the seventh consecutive year in 2017, and the second-highest recipient among all public and private institutions worldwide.

About MAHE

Manipal Academy of Higher Education (MAHE) is one of India's leading academic and research institutions. It has been granted Institution of Eminence status by the Ministry of Education, Government of India. Manipal Institutions have long been distinguished for excellence in professional education. The University is home to some of the top ranking institutions across diverse disciplines.



Course Contributors



Professor Deborah Grady

Associate Dean of Clinical and Translational Research at UCSF

Deborah Grady, MD, MPH is a physician, clinical trialist and leader in clinical research methodology and women's health. She is Professor of Medicine, Associate Dean for Clinical and Translational Research, Director of the UCSF Clinical and Translational Sciences Institute (CTSI) Online Education program, and Director of the UCSF Women's Health Clinical Research Center.



Dr. Trish Groves

Associate editor, The BMJ, and Editorial consultant

Trish Groves (MBBS, MRCPsych) trained in medicine and psychiatry before going to The BMJ in 1989. She is now Associate editor, The BMJ, and Editorial consultant. Both The BMJ and BMJ Open publish research with open access and open peer review and have policies to facilitate data sharing.

Her other focus currently is to explore what practical support might be needed to improve capabilities for health research, particularly in emerging economies, through international outreach and initiatives such as BMJ's eLearning programme for health researchers, Research to Publication.



Dr Naveen Salins

Honorary Professor of Medicine at Cardiff University, UK.

Associate Dean of Research, KMC, Manipal, MAHE

Professor and Head, Department of Palliative Medicine and Supportive Care, KMC Manipal. Dr Salins is an accomplished medical professional who graduated with honours in Internal Medicine MD from KMC Manipal in 2003. He has extensive experience in Palliative Medicine, having completed three years of specialist fellowship training at the Lyell McEwin Hospital and working as a consultant at the Royal Adelaide Hospital in South Australia. Upon returning to India, Dr Salins held clinical and academic positions at HCG Bangalore Institute of Oncology and Tata Memorial Hospital, Mumbai. He is currently the Professor and Head of the Department of Palliative Medicine and Supportive Care at KMC Manipal. He is also the Coordinator of the Manipal Comprehensive Cancer Care Centre.



About course & content

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This course is suitable for anyone conducting research on medicine, healthcare, public health, and epidemiology.

Course Objectives

This curriculum guide is designed to help you get the best out of Research to Publication, taking you through the concepts you need to develop mastery in the areas of investigation and research.

Eligibility and course fee:

Minimum Eligibility: Medical Doctors, PG Students, Researcher conducting research on subjects related to medicine, healthcare, public health, and epidemiology.

Fee

Six months certification course in RTOP (with contact program) Fee: INR 30,680/- inclusive of GST

Curriculum

Unit 1 How to develop and report good research questions

- Module 1 Developing a research question for your research project
- Module 2 Reporting the research question in your paper

Unit 2 Developing and writing protocols

- Module 1 How to write and publish a study protocol : overview
- Module 2 Clinical trial protocols: how to write and publish them
- Module 3 How to write a research protocol for a grant application
- Module 4 Good medical writing
- Module 5 Choosing and citing references

Unit 3 Choosing the best study design

- Module 1 Study design
- Module 2 Studies of medical tests
- Module 3 Enhancing causal inference
- Module 4 The methods: matching study designs to research questions
- Module 5 Subjects and variables
- Module 6 Sample size and power
- Module 7 Statistics
- Module 8 Questionnaires and qualitative research

Unit 4 How to do ethical research

- Module 1 Ethical considerations in research
- Module 2 History of research ethics
- Module 3 Institutional review board (IRB) and informed consent
- Module 4 Data and safety monitoring
- Module 5 Ethics aspects of study methods
- Module 6 Data and safety monitoring
- Module 7 Principles of research ethics
- Module 8 Ethics in "big data" research
- Module 9 Research in resource-poor environments

Unit 5 How to write a research paper

- Module 1 Reporting statistical methods and analyses
- Module 2 The results: reporting all findings succinctly
- Module 3 Scientific transparency: the pitfalls of selective reporting
- Module 4 The discussion: using structure and balance
- Module 5 Optimising the abstract and title

Unit 6 The essentials of running a clinical trial

- Module 1 Course overview and trial designs
- Module 2 Selection of participants
- Module 3 Recruitment
- Module 4 Choosing the interventions and controls
- Module 5 Randomization
- Module 6 Blinding
- Module 7 Outcome measures
- Module 8 Assessing safety
- Module 9 Adherence and complete follow up
- Module 10 Ethical issues in clinical trials
- Module 11 Regulatory issues
- Module 12 How to write up industry-sponsored trials

Unit 7 Picking the right journal and getting published

- Module 1 Navigating journal and peer review processes
- Module 2 Compliance with journal and ICMJE requirements
- Module 3 Patients' consent for publication
- Module 4 Surviving peer review
- Module 5 What to do with rejections and appeals
- Module 6 Pre-submission inquiries and cover letters

Unit 8 Avoiding scientific misconduct

- Module 1 Scientific misconduct, authorship and conflict of interest
- Module 2 Reporting conflicts of interest
- Module 3 Journal rules on authorship
- Module 4 How and why to avoid plagiarism
- Module 5 How journals uncover scientific fraud
- Module 6 How journals act on scientific misconduct



Certificate of completion

This certificate confirms that

Completed the module

On

Score %

Accreditor

Accreditation statement

A handwritten signature in black ink, appearing to read 'J. Grandis'.

Jennifer R. Grandis

Associate Vice Chancellor of Clinical and Translational
Research, Director of Clinical and Translational Science Institute



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