Clinical Research Methods

eCourse in Clinical Research Methods

eLearning Course

Course Duration: 4 Months

Offered by: Indian Institute of Public Health - Delhi

eCourse in Clinical Research Methods

BACKGROUND

A large pool of human resource exists in the form of researchers, public health specialists, scientists, clinicians in medical colleges/teaching hospitals and academicians, to carry out quality research. However, it is well known that research in India is limited both in terms of quantity and quality. There is enough evidence to support the urgent need to offer training in research methodology and help support the development of research methodology curricula on regional and national levels to advance the state of research in medical education and allied sciences. To harness the potential of the existing pool, capacity building in research methodology is imperative and should be a recognised priority. The eCourse in Clinical Research Methods is intended to support professional development through an eLearning mode. The course will provide greater flexibility to those with constraints in terms of time, distance, or other reasons. Further, self-paced learning using adult learning technique spread over a duration of four months will be less intensive and more realistic for achieving educational goals.

AIM

The aim of this course is to provide participants with a multi-disciplinary perspective to facilitate their skills in health research. This course will expose them to fundamental concepts and basic analytic methods to cover topics spanning from conceptualization of research idea to dissemination of research findings to fully equip them to carry out original research and report their findings.

LEARNING OBJECTIVES

By the end of the course, the student should be able to:
- Frame a well-defined and specific research question
- Perform a literature search on a defined topic and critically appraise published literature
- Have a basic understanding of qualitative and quantitative research designs in clinical context
- Understand basic statistical concepts, data management and design basic analysis plan
- Develop a research proposal with all key elements of methodology
- Apply ethical principles of research and understand ethical and regulatory processes of human research
- Present and report their findings in the form of a thesis report/ manuscript

COURSE DESIGN AND DURATION

The course is designed as a four month eCourse. It is an eLearning computer based online course, largely self-taught, complemented with online lectures and comprehensive printed study materials.

ELIGIBILITY CRITERIA

The course is open to the following candidates:

Medical postgraduate (MD/MS) students, Diplomate of National Board (DNB) students, junior to mid-career researchers and PhD scholars in health and other closely-related disciplines, Public Health professionals, senior residents, faculty/clinicians from medical and other health sciences (dental, physiotherapy, nursing, AYUSH professionals, pharmacy etc.) colleges/institutes, researchers from pharmaceutical industries, clinical research organisations, health and hospital establishments, and professionals from non-clinical background with an interest in professional capacity development in research design and analysis. Eligible candidates would be screened based on their online application and statement of purpose by the selection committee. Decision taken by the selection committee will be final.

TEACHING METHODOLOGY

The course will be delivered through a web-based platform and will utilize a blended online teaching/ learning technique. The basic course structure includes a combination of interactive online computer-based sessions, online virtual lectures, assessments and recommended readings from journal articles and text books in a modular format. Online learning sessions would be conducted by designated faculty members and students would be able to log on from their laptops/ personal computers.

SYSTEM REQUIREMENTS

- **Internet Bandwidth:** 1 Mbps
- **Processor:** Intel Pentium 4 or equivalent and above
- **RAM:** 512 MB and above (1GB recommended)
- **Supported browsers:** Recent Google Chrome, recent Mozilla Firefox, Safari 6, Internet Explorer 9
- Latest Adobe Flash Player
- **Supported Operating Systems:** Windows XP, Windows Vista, Windows 7, Mac OS, Linux, iOS, Android, etc.
- Headset with microphone (web camera- optional)

EVALUATION AND AWARD OF CERTIFICATE

Participants will be evaluated at the end of the course through a final online MCQ-based examination. Online certificate will be awarded only to the participants who successfully complete the course and clear all the course requirements.

COURSE FEE

For Indian nationals and South Asian candidates: The course fee per participant is INR 6000 for course participation (inclusive of complementary reading material) and additional INR 3000 for the final assessment/ examination and award of certificate.

For other International candidates: The course fee per participant is USD 220 for course participation (inclusive of complementary reading material) and additional USD 110 for the final assessment/ examination and award of certificate.

COURSE MODULES

The basic course structure will follow module-based learning. The entire course is divided into four modules covering various aspects of research methodology.

Name of the Modules:
1. Clinical Research Methods
2. Basic biostatistics
3. Ethical and regulatory considerations in research
4. Medical writing

Other eLearning Programs offered by PHFI

S.No	Name of the Program	Duration	Offered at
1.	ePost Graduate Program in Public Health Nutrition	1 year	IIPH-Delhi
2.	ePost Graduate Program in Epidemiology	1 year	IIPH-Delhi
3.	ePost Graduate Program in Management of Reproductive and Child Health Programmes	1 year	IIPH-Delhi
4.	ePost Graduate Program in Health Promotion	1 year	PHFI
5.	ePost Graduate Program in Public Health & Hospital Management for Nursing & Allied Health Professionals	1 year	IIPH-Gandhinagar
6.	ePost Graduate Program in Public Health Services Management	1 year	IIPH-Bhubaneswar
7.	ePost Graduate Program in Health Economics, Health Care Financing & Policy	1 year	IIPH-Delhi
8.	eCourse in Research Methodology	6 months	IIPH-Gandhinagar
9.	eCourse in STI & HIV/AIDS	6 months	IIPH-Delhi
10.	eCourse on Monitoring & Evaluation of Health Programs	6 months	IIPH-Delhi
11.	eCourse on GIS Application in Public Health	6 months	IIPH-Delhi
12.	eCourse in Public Health Surveillance	6 months	IIPH-Hyderabad
13.	eCourse on Public Health Development for ICDS Officials	6 months	IIPH-Delhi
14.	eCourse in Advanced Hospital Management	6 months	IIPH-Gandhinagar
15.	eCourse in Health, Safety & Environment Management	4 months	IIPH-Gandhinagar
16	eCourse in Good Public Health and Clinical Laboratory Practices and Medical Ethics	4 months	IIPH-Bhubaneswar
17.	eCourse in Research Ethics	3 months	IIPH-Delhi
18.	eCourse on Tobacco Control	3 months	PHFI
19.	eCourse in Effective Grant Writing in Public Health	3 months	IIPH-Gandhinagar

Unique features of PHFI Centre for eLearning

- State of the art Learning Management System
- Multidisciplinary faculty
- Self-paced learning
- Collaboratively developed programs with national and international organizations

- Wide range of programs in key areas of public health practice
- Competency driven curriculum
- Enriching virtual classroom experience

Online Application → Application Status Monitoring → Automatic Email Notifications → Online payment via payment gateway → Automatic Student Registration in LMS → Online Lectures & Assessments → Validation of Online Certificate

On-Campus Programs offered by PHFI

Name of the Program	Duration	Offered at
PhD (Full time) in Health Sciences / Public Health	Min. 3 years	IIPH-Delhi[1]
PhD in Public Health	Min. 3 years	IIPH-Gandhinagar[2]
Integrated MSc & PhD in Clinical Research*	2 years for MSc and min. 3 years for PhD	IIPH-Delhi
Integrated MSc & PhD in Health Informatics*	2 years for MSc and min. 3 years for PhD	IIPH-Hyderabad
Master of Public Health (MPH)	2 years	IIPH-Delhi[1], IIPH-Gandhinagar[2], IIPH-Hyderabad[3], IIPH-Shillong[4], IIPH-Bhubaneswar[5]
Master of Hospital Administration (MHA)	2 years	IIPH-Gandhinagar[2]
Post Graduate Diploma in Public Health Management (PGDPHM)#	1 year	IIPH-Delhi, IIPH-Gandhinagar, IIPH-Hyderabad and IIPH-Bhubaneswar
Certificate Course in Community Health (CCCH)^^	6 months	IIPH-Gandhinagar
Certificate Course on Geriatric Health Caregiving (CCGHC)@	4 months	IIPH-Gandhinagar
Certificate Course in Public Health Management (CCPHM)##	3 months	IIPH-Bhubaneswar
Associate Fellow of Industrial Health (AFIH)^	3 months	IIPH-Gandhinagar

[1] *Affiliated to Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST) Trivandrum, an Institute of National Importance under Govt. of India*

[2] *Offered by Indian Institute of Public Health Gandhinagar, Gujarat, India (A University under State Govt. Act)*

[3] *Affiliated to Kaloji Narayana Rao University of Health Sciences, Telangana*

[4] *In collaboration with Martin Luther Christian University, Shillong*

[5] *In collaboration with Utkal University, Bhubaneswar, Odisha (proposed)*

* *A two-year Master's program (MSc in Clinical Research or Health Informatics), with the option of pursuing a PhD, if eligible, as an Integrated MSc-PhD in Clinical Research or Health Informatics. Offered in collaboration with Academy of Scientific & Innovative Research (AcSIR), an Institute of National Importance established by Act of Parliament*

Supported under National Health Mission (NHM), MoHFW, Govt. of India

^^ *Supported by State Institute of Health and Family Welfare, Gujarat*

@ *Supported by Gujarat State Financial Services Limited and facilitated by Gujarat CSR Authority*

Offered in collaboration with Department of Health & Family Welfare, Odisha

^ *Regulated by Directorate General, Factory Advice Service and Labour Institutes (DGFASLI), Govt. of India*

For program related queries, please contact:

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