



INDUS HOSPITAL
&
HEALTH NETWORK

**Indus Hospital & Health Network
Academic Directorate**

Clinical Research Training Series Protocol Development

A Gateway to Clinical Research

STUDENT HANDBOOK

Year 2022 – Batch 1

CONTACT DETAILS

✉ clinical.research@tih.org.pk

☎ 0333-1033937

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PROTOCOL WRITING COURSE

● OBJECTIVES

At the end of the training, participants will be able to develop a research proposal and after get feedback from experts.

● CURRICULUM

The course includes a series of didactics and workshop-based sessions to walk participants through the fundamentals of clinical research, from how to develop a research question, literature search, proposal writing, basic epidemiology & biostatistics, data management, and research ethics [see attached program of course as Annexure 1].

● TEACHING FACILITATORS

1. Prof. Faridah Amin
2. Ahwaz Akhter
3. IHRC team (Chair – Dr. Naila Baig Ansari)
4. Guest Speakers with clinical research training

● PARTICIPANTS

Residents, Trainees, faculty, clinical service providers, medical officers, nurses, medicine and allied personnel.

● REGISTRATION

All participants will apply by filling out an online registration form.

● COURSE FEE

- IHHN employees: Rs. 8,000/-
- Non-IHHN employees: Rs. 15,000/-

● SELECTION

After selection, participants will be given an orientation about the program, and teaching material will be distributed a week prior to the beginning of sessions.

● DURATION

3 months, once weekly session of 1.5-2 hours each
Total = 18 teaching hours

● MODE OF TEACHING

- 1) Online sessions
- 2) Face-to-face, hands-on workshops
(Fully online option also available)

● ASSESSMENT AND CERTIFICATION

All participants who successfully complete the course will receive a certificate. Criteria for successful completion of the course:

- Submission of pre- and post-test.
- Score of 70%
 - 30% weightage of assignments
 - 70% weightage of final protocol submission

● FEEDBACK

- 1) Facilitator feedback and session feedback will be taken after each session from participants to improve the quality of the program.
- 2) Pre and post-test (BCQs) to measure knowledge improvement.

● OPPORTUNITY FOR RESEARCH INTERNSHIP

An opportunity for a research internship shall be provided for participants of the program if requested.

ANNEXURE 1:

CURRICULUM MAPPING

	Description	Delivery	Teaching Hours	Assignment
01	How to Develop “Research Question”/ Hypothesis <ul style="list-style-type: none"> • To be able to formulate a research question. • To be able to justify, develop and write a rationale for a research topic. • To know the concept of null and alternate hypotheses and form hypotheses for research. 	Online	1.5	Develop a research question
02	How to Write Protocol/Synopsis <ul style="list-style-type: none"> • To know the basics of research synopsis development. • To understand the publication processes. 	Online	1.5	Write objectives
03	Literature Search and Introduction Writing <ul style="list-style-type: none"> • To know the common search engines for literature search. • To be able to write an introduction/ background of research with rationale. 	Online	1.5	Search literature and write an intro
04	EndNote Workshop <ul style="list-style-type: none"> • To know how to cite references in a synopsis of research. • To be able to write an introduction or synopsis with an endnote referencing. 	Online	1	Reference intro using endnote

	Description	Delivery	Teaching Hours	Assignment
05	Research Methodology (Basic Epidemiology) <ul style="list-style-type: none"> • To know the epidemiological study designs. • To know how to choose a research setting. • To know the practical implications of possible confounders and biases in a research study and the means to avoid or control it. • To know how to select study participants (sampling techniques). 	Online	4	Choose a study design, setting and eligibility for participation
06	Basic Biostatistics <ul style="list-style-type: none"> • To know the significance and basic tools for calculating a sample size of a study. • To be able to use sample size calculation software. • To know which test of significance to apply to different clinical data. • To know how a p-value is interpreted. • To be able to interpret basic analysis for a test of significance. 	Online	1	Write a plan of analysis
07	Research Ethics <ul style="list-style-type: none"> • To know the ethical principles guiding medical research. • To be able to document and apply the ethical principles for conducting a research study. • To know the process of taking an informed consent. 	Online	1.5	Document ethical considerations in proposal

	Description	Delivery	Teaching Hours	Assignment
08	Data Management and SPSS Workshop <ul style="list-style-type: none"> • To be able to make a research questionnaire with coding for data entry. • To be able to make a data entry template on SPSS and enter /import data. • To be able to prepare an online research questionnaire and clean data in excel. • To be able to check for normality of data. • To be able to do a basic analysis which includes. percentages, means, frequency, chi-square, and t-test in order to calculate a p-value. • To be able to write results of analysis and make data tables and graphs. 	Online and F2F hands-on workshop	4	Develop a research questionnaire and make data collection and entry plan.
09	Final Assignment (Protocol Submission)	Online	2	Graded
10	Feedback & E-Certificate			