

## Workshop Series 2019-20



	Topics	Date
1.	Psychological Counselling in Health Settings	Apr 30-May 3, 2019
2.	Medical Writing	May 14-17, 2019
3.	Economic Evaluation of Health Care Programs	May 20-24, 2019
4.	Effective Behaviour Change Communication Strategies in Public Health	Jul 9-12, 2019
5.	Leadership in Health and Development Sectors	Jul 23-26, 2019
6.	Basic Statistical Analysis using R	Jul 30-Aug 2, 2019
7.	Advanced Data Analysis Techniques in Qualitative Research using Atlas.ti	Aug 19-23, 2019
8.	Nutritional Management of Severe Acute Malnutrition (SAM): A Capacity Building Workshop	Aug 26-30, 2019
9.	Contingent Valuation of Health Programs-assigning Monetary Values to Health Outcome	Sep 16-20, 2019
10.	Data Management, Analysis and Interpretation in Quantitative Health Research	Sep 23-27, 2019
11.	Statistical Analysis using Stata	Oct 14-18, 2019
12.	Introduction to Multivariable Analysis using Stata	Nov 4-8, 2019
13.	Spatial Analysis using R and GeoDa	Nov 13-15, 2019
14.	Operations Research in Public Health	Nov 19-22, 2019
15.	Ethics in Clinical Research	Nov 26-28, 2019
16.	Basic Statistical Analysis using SPSS	Nov 26-29, 2019
17.	Project Management of Health Programs	Dec 3-6, 2019
18.	Applied Methods of Equity Analysis in Health Care Financing	Jan 13-17, 2020
19.	Sample Size Estimation and Sampling Techniques	Jan 28-31, 2020
20.	Approaches for Implementing Adolescent Health Programs	Feb 17-20, 2020
21.	Strengthening of Routine Health Information Systems	Feb 24-28, 2020
22.	Systematic Reviews and Meta-analysis using RevMan	Mar 2-6, 2020
23.	Impact Evaluation: Public Programs in Health	Mar 16-20, 2020
24.	Short Course on Access to Medicines with focus on Pharmaceutical Policy Analysis	Mar 17-20, 2020
25.	Monitoring and Evaluation of Health Programs for Improved Decision Making	Mar 23-27, 2020
26.	Design, Analysis and Interpretation of Diagnostic test studies	Mar 31-Apr 3, 2020

**Key contact Person: Ms. Tanuja Bhandari**  
 Assistant Manager- Program (Training)  
 Indian Institute of Public Health-Delhi  
 Public Health Foundation of India (PHFI)  
 Plot 47, Sector 44, Institutional Area  
 Near HUDA City Centre Metro Station  
 Gurgaon 122002, Haryana, INDIA  
 Tel: +91 124 4722900 (Extn: 4110)

**Email: [trainings@iiphd.org](mailto:trainings@iiphd.org), Website: [www.phfi.org](http://www.phfi.org)**





# 1 Psychological Counselling in Health Settings

**April 30-May 3, 2019**  
(Tuesday-Friday)

Evidences suggest psychological counselling effectively reduces morbidity outcomes related to behavioural, physical and mental health. Psychological counselling has emerged as one of the key preventive and promotive health interventions in facilitating behaviour change, development of health seeking behaviour, adherence to treatment and care etc. The focus of training is to improve technical capacity of participants in providing psychological counselling to their clients in different health settings. Exercises related to effective counselling supervision will also be carried out.

**Last date of registration: April 16, 2019**

## CONTENTS

- Basics of psychological counselling, Principles of counselling, Process and stages of counselling, Factors that can influence counselling session
- Practical considerations in counselling skills. Role plays and case studies on counselling
- Skills for effective counselling supervision, functions, methods and ethical consideration
- Thematic areas to be addressed in training-Maternal and Newborn healthcare, Adolescent health, Reproductive Health, HIV/ AIDS and STIs

## COURSE FEE

**Indian Participant**  
8000 INR per participant  
**International Participant**  
16000 INR per participant

## COURSE COORDINATOR

**Dr. Rajesh Nair**  
Additional Professor  
Tel.: +91 124 4722900 (Extn: 4117)  
E-mail: rnair@iiphd.org

# 2 Medical Writing

**May 14-17, 2019**  
(Tuesday-Friday)

Medical writing includes developing a proposal/ grant application to undertake research, writing a report after completion of the study and writing for a scientific journal. Writing scientific papers is hard even for persons who have a natural skill for writing. A clear and transparent reporting of research finding is essential to avoid misinterpretation of the study results. This workshop is intended to impart researchers with basic skills in medical writing and get introduced to standard reporting guidelines for various research designs.

**Last date of registration: April 30, 2019**

## CONTENTS

- Literature review
- Referencing methods and plagiarism
- Proposal writing
- Requirements for grant submission
- Writing a report
- Writing for a scientific journal
- Reporting Guidelines
- Submission process to medical journals
- Peer reviewing and responding to peer reviewers' comments

## COURSE FEE

**Indian Participant**  
8000 INR per participant  
**International Participant**  
16000 INR per participant

## COURSE COORDINATOR

**Dr. Sutapa B. Neogi**  
Professor  
Tel.: +91 124 4722900 (Extn: 4101)  
E-mail: sutapa.bneogi@iiphd.org

## 3 Economic Evaluation of Health Care Programs

May 20-24, 2019  
(Monday-Friday)

Policy makers and managers have to constantly look for evidences to base and back up their decisions with. These evidences come from various forms of Research conducted at different levels. Economic Evaluations provide valuable evidence on the Economic aspects of Public Health Programs. This workshop would provide an overview at the various forms of Economic Evaluations and their usage while dealing in great details with one specific form – Cost Effectiveness Analysis. The participants would conduct a CE analysis during the course using a Case study and have hands on experience of working on a Decision Analysis Software.

At the end of this workshop participants should be able to: understand the various forms of Economic Evaluations and their usage, get a detailed understanding and practice of Cost Effectiveness Analysis, identify various areas in their own workplaces that may benefit from economic evaluations, initiate independent studies using basic economic modelling.

**Last date of registration: May 6, 2019**

### CONTENTS

- Need for Economic Evaluations
- Types of Economic Evaluations
- Decision Analysis using computer software
  - Cost Effectiveness Evaluation
  - Methods
  - Data requirements
  - How to conduct a CE analysis
  - Interpretation of results
- Cost Effectiveness and decision making

### COURSE FEE

**Indian Participant**  
12500 INR per participant

**International Participant**  
25000 INR per participant

### COURSE COORDINATOR

**Mr. Shomik Ray**  
Associate Professor  
Tel.: +91 124 4722900 (Extn: 4115)  
E-mail: shomik.ray@iiphd.org

## 4 Effective Behaviour Change Communication Strategies in Public Health

July 9-12, 2019  
(Tuesday-Friday)

The objective of this workshop is to enhance the health communication skills of those who work in the area of Behaviour Change Communication (BCC), Development Communication, Advocacy and other allied fields to strategically utilize key tools of BCC, advocacy and media engagement so as to support the achievement of key milestones as part of the health response. Supporting communities in enhancing health-seeking behaviours and facilitating the decision-making people need to do in order to be or become healthy, keeping people informed on important public health issues and basic health care services, counselling for behaviour change and awareness and knowledge-building on key national health programs would be addressed through the workshop. Using participatory, adult-learning techniques and a specially designed training manual, the trainer will focus on providing hands-on health communication skills within the larger context of national health Programs and global perspectives.

**Last date of registration: June 25, 2019**

### CONTENTS

- The Fundamentals of Health Communication and Behaviour Change
- Creating Impact through Strategic and Planned Health Literacy Programs (including Impact Evaluation)
- Communities and Communication: Assessments, Participation, Ownership, Grass- roots Communication
- The Health Communication Toolbox (Ways to tell the Story and Communicating for Impact)

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**Dr. Rajesh Nair**  
Additional Professor  
Tel.: +91 124 4722900 (Extn: 4117)  
E-mail: rnair@iiphd.org



## 5 Leadership in Health and Development Sectors

July 23-26, 2019  
(Tuesday-Friday)

The 21st century has seen a lot of transition in the health and development sectors, with the focus being on transformative education and leadership. This reform depends on development of leadership skills and change agents. While sound managerial skills ensure results in the short and medium term, the progress of a country is shaped by managers with a vision and inspired leadership abilities. Leadership is a complex multidimensional concept; strong leadership is critical for realizing the vision of transformed healthcare and development sectors. In these fields, leadership serves as an asset to face challenges and is an important skill to possess. In order to reach this goal, common leadership skills must be looked for among young as well as experienced professionals studying or working in these sectors.

This workshop deals with leadership skills for those in the health and development sectors. The participants at the end of the workshop would be able to demonstrate leadership attributes in their respective workplaces, so as to address the challenges and needs of their respective organizations and the clients they cater to.

**Last date of registration: July 9, 2019**

### CONTENTS

- What is leadership?
- Leadership characteristics
- Leadership styles
- Motivation
- Time management
- Managing an organization
- Team building
- Conflict resolution
- Advocacy
- Ethics of leadership

### COURSE FEE

**Indian Participant**  
8000 INR per participant

**International Participant**  
16000 INR per participant

### COURSE COORDINATOR

**Dr. Preeti Negandhi**  
Additional Professor  
Tel.: +91 124 4722900 (Extn: 4212)  
E-mail: preeti.negandhi@iiphd.org

## 6 Basic Statistical Analysis using R

July 30-August 2, 2019  
(Tuesday-Friday)

Statistics helps researchers make sense of the data collected and to make informed decisions. Basic understanding of statistical concepts helps in not only deciding on the suitable analysis but to understand what results a statistician generates. R is free open source software widely used for data analysis. R has a richer set of statistical packages which makes it convenient to use for health sciences researchers.

This workshop is designed to introduce fundamental statistical principles and methods with application to health-related research using R software. Individuals who wish to use statistics to make fact based decisions can attend this workshop.

After completing this workshop, the participants will be able to decide on the most suitable statistical technique to be used in common study designs, understand the basic principles of the statistical tests and reflect on suitable measures to be reported.

**Last date of registration: July 16, 2019**

### CONTENTS

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Introduction to R             <ul style="list-style-type: none"> <li>▪ About the software</li> <li>▪ Data Management</li> </ul> </li> <li>• Introduction to descriptive statistics             <ul style="list-style-type: none"> <li>▪ Understanding data</li> <li>▪ Numerical summary</li> <li>▪ Visualization of data</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>• Inferential Statistics             <ul style="list-style-type: none"> <li>▪ Sampling distribution and confidence-interval</li> <li>▪ Basics of testing of hypothesis</li> <li>▪ Tests of significance – Parametric and Non-Parametric</li> </ul> </li> <li>• Modelling data             <ul style="list-style-type: none"> <li>▪ Linear Regression</li> <li>▪ Logistic Regression</li> </ul> </li> </ul> |
|--|---|

### COURSE FEE

**Indian Participant**  
10000 INR per participant

**International Participant**  
20000 INR per participant

### COURSE COORDINATORS

**Dr. Ranjana Singh**, Associate Professor  
**Ms. Nilima**, Senior Lecturer  
Tel.: +91 124 4722900 (Extn: 4213)  
E-mail: nilima@iiphd.org

7

## Advanced Data Analysis Techniques in Qualitative Research using Atlas.ti

August 19-23, 2019  
(Monday-Friday)

This workshop is meant for those who are familiar with qualitative methods of data collection but want to learn more about various approaches to designing and analyzing qualitative studies. In this workshop, participants would be exposed to variety of approaches to designing and analysing qualitative studies. The goal of the course is to build five-core competencies in the area of theoretical frameworks, study design, data management, data analysis, and software aided data analysis using Atlas.ti. Being an advanced workshop this is open only to researchers who already have experience in collecting qualitative data. Participants are also expected to bring their own data in the form of transcripts of FGDs or interviews, which they would analyse during the workshop.

**Last date of registration: August 5, 2019**

### CONTENTS

- Key theoretical approaches to qualitative data analysis
- Recording qualitative data and data management using best practices
- Key components and functions available in Atlas.ti
- Key approaches to analysing qualitative data sets
- Categorizing and analysing qualitative data using standard techniques in Atlas.ti
- Formulating relationships within the data set and represent them visually using network views
- Fine tuning results
- Writing qualitative reports and manuscripts

### COURSE FEE

**Indian Participant**  
12500 INR per participant

**International Participant**  
25000 INR per participant

### COURSE COORDINATOR

**Mr. Mathew Sunil George**  
Assistant Professor  
Tel.: +91 124 4722900 (Extn: 4215)  
E-mail: sunil.george@iiphd.org

8

## Nutritional Management of Severe Acute Malnutrition (SAM): A Capacity Building Workshop

August 26-30, 2019  
(Monday-Friday)

India currently has one of the highest malnutrition rates in the world. More than half of all death in children in India is attributed to malnutrition. In order to address this, nutrition has received renewed attention by all stakeholders of the country particularly at the highest level of policy making. The workshop on "Nutritional Management of Children with Severe Acute Malnutrition (SAM)" aims at enabling the participants develop technical competencies in nutrition service delivery targeted towards children with undernutrition at the facility as well as the community level. The workshop will focus on core principles of paediatric nutrition with key focus on infant and young child feeding practices, growth monitoring and promotion, community and facility based management of children with SAM and principles of behaviour change communication in providing effective nutrition education to the care givers for long term management.

**Last date of registration: August 12, 2019**

### CONTENTS

- General principles of child nutrition and nutritional requirements in childhood.
- Infant and Young Child Feeding (IYCF) practices
- Principles of Behaviour Change Communication (BCC)
- Nutrition education and counselling
- Assessment of nutritional status, growth monitoring and promotion, hands on session on growth monitoring
- Child undernutrition: Screening, detection and referral
- Facility based management of severe acute malnutrition
- Community based management of severe acute malnutrition
- Applying principles of nutrition education and BCC for planning counselling sessions, follow up and compliance

### COURSE FEE

**Indian Participant**  
10000 INR per participant

**International Participant**  
20000 INR per participant

### COURSE COORDINATOR

**Dr. Suparna Ghosh-Jerath**  
Additional Professor  
Tel.: +91 124 4722900 (Extn: 4104)  
E-mail: suparna.ghoshj@iiphd.org

## 9 Contingent Valuation of Health Programs- assigning Monetary Values to Health Outcome

September 16-20, 2019  
(Monday-Friday)

Assigning monetary values to health outcomes has been a contentious issue for health program managers and researchers due to ethical and methodological concerns for long. Monetary values of health outcomes are needed to arrive at costs of interventions/treatments and is a key outcome measure for economic evaluations, especially cost-benefit analysis.

Contingent valuation (CV) method is a survey based, hypothetical and direct method determine monetary valuations of effect of health technologies or interventions. The use of contingent valuation methods in health care is well established in literature and is under-researched in India. The method provides a promising tool to value health outcomes and can have multiple uses in program evaluation beyond economic evaluation.

This training program would provide a hands on training on CV methods including design, execution, data analysis and use of such studies. The participants would conduct a CV study and use their own data to analyse and interpret results.

The course would use Stata software for statistical analysis.

**Last date of registration: September 2, 2019**

### CONTENTS

- Monetary valuations of health outcomes
  - Traditional methods
  - Limitations of existing methods.
- Contingent valuation of health outcomes
  - Methods of contingent valuation
  - Biases in contingent valuation
- Designing a contingent valuation study
- Data collection
- Data entry, analysis and interpretation
- Use of CV results

### COURSE FEE

**Indian Participant**  
12500 INR per participant

**International Participant**  
25000 INR per participant

### COURSE COORDINATOR

**Mr. Shomik Ray**  
Associate Professor  
Tel.: +91 124 4722900 (Extn: 4115)  
E-mail: shomik.ray@iiphd.org

## 10 Data Management, Analysis and Interpretation in Quantitative Health Research

September 23-27, 2019  
(Monday-Friday)

Quantitative health research involves epidemiological and statistical skills. Once data is collected one must be skilled in managing such data in terms of its entry, cleaning, management, analysis and finally interpretation. All of these links are critically important in creating results which will be useful at the end in terms of fulfilling the purpose for which huge amounts of time and money are devoted in any research project. This workshop will benefit anyone involved in quantitative health research such as surveys, experiments or trials, disease surveillance etc. Thus this workshop can be very useful for health professionals, social researchers, health economists, NGO professionals and government health workers. This workshop will enable the participants to manage, analyse and interpret data in quantitative health research.

**Last date of registration: September 9, 2019**

### CONTENTS

- Overview of quantitative research
- Skills required for quantitative research
- Data entry and management using CPro
- Data analysis in quantitative research using SPSS
- Introduction to software for data management and analysis (CPro and SPSS)
- Interpreting quantitative data analysis results

### COURSE FEE

**Indian Participant**  
12500 INR per participant

**International Participant**  
25000 INR per participant

### COURSE COORDINATOR

**Dr. Tanica Lyngdoh**  
Additional Professor  
Tel.: +91 124 4722900 (Extn: 4208)  
E-mail: tanica.lyngdoh@iiphd.org



## 11 Statistical Analysis using Stata

October 14-18, 2019  
(Monday-Friday)

With the evolution of statistical packages, quantitative analysis of the data is restricted not only to statisticians, even non-statisticians have ventured in analysing their own data. This workshop on Stata aims to enable the researcher in managing data, performing basic statistical and epidemiological analysis, turning raw data into effective tables, figures and other research products. This workshop will also empower the researcher to communicate confidently with the scientific community. Participants applying to this workshop are expected to have basic knowledge in biostatistics and do not require prior working knowledge in Stata.

**Last date of registration: September 30, 2019**

### CONTENTS

- Data management using Stata
- Describing qualitative and quantitative data
  - Numerically and graphically
- Univariable analyses
  - For means, proportions and rates
- Analysis of Variance (ANOVA)
- Linear regression
- Introduction to logistic regression

### COURSE FEE

**Indian Participant**  
12500 INR per participant

**International Participant**  
25000 INR per participant

### COURSE COORDINATOR

**Dr. Ranjana Singh**  
Associate Professor  
Tel.: +91 124 4722900 (Extn: 4211)  
E-mail: ranjana.singh@iiphd.org

## 12 Introduction to Multivariable Analysis using Stata

November 4-8, 2019  
(Monday-Friday)

Multivariable techniques are the mainstay of statistical analysis allowing the analysis of more than two independent variables at once. This workshop is intended to provide a sound grounding in analytical techniques involving multiple exposures and adequate skills to perform such analyses using Stata. This workshop will cover key issues surrounding the principles and application of regression techniques, in particular, linear and logistic regression. Participants applying to this workshop are expected to have knowledge in basic biostatistics.

At the end of workshop, participants will gain theoretical insights and applied skills into the use of multivariable techniques in addressing research questions. S/he will be confident to use Stata to conduct statistical work on their own data.

**Last date of registration: October 21, 2019**

### CONTENTS

- **Overview of statistical concepts:** inferential statistics, univariable analysis
- Introduction to Stata
- **Introduction to multivariable analysis:** overview of confounding and effect modification, need for multivariable analysis, type of multivariable analysis etc.
- **Linear regression:** Simple and multiple linear regression, interpretation of coefficients, regression diagnostics
- **Logistic regression:** Odds and Odds ratio, stratified analysis (Mantel-Haenszel Test), interaction effects, conditional logistic regression, introduction to multinomial logistic regression, fitting and evaluating models

### COURSE FEE

**Indian Participant**  
12500 INR per participant

**International Participant**  
25000 INR per participant

### COURSE COORDINATOR

**Dr. Tanica Lyngdoh**  
Additional Professor  
Tel.: +91 124 4722900 (Extn: 4208)  
E-mail: tanica.lyngdoh@iiphd.org

## 13 Spatial Analysis using R and GeoDa

**November 13-15, 2019**  
(Wednesday-Friday)

Spatial analysis includes techniques to study entities using their geographic properties. Spatial epidemiology assists in understanding the pattern and determinants of the condition of concern. Identification of clusters by mapping the spread is important to plan for control strategies and prioritise the allocation of resources to the areas requiring attention. This workshop focuses at the application of spatial statistics in health sciences. Any health sciences researcher with elementary knowledge of statistics can attend this workshop.

By the end of this workshop, the participants will be able to plot and identify the vulnerable locations, analyse and interpret the spatial data for improved decision making.

**Last date of registration: October 30, 2019**

### CONTENTS

- Getting familiarized to R and GeoDa
  - About R and GeoDa
  - R packages for spatial analysis
- Introduction to spatial data
  - Geographic Information System
  - What is a shapefile?
  - Types of Spatial Data – Point and Areal
- Spatial data
  - Import–Data and shapefile
  - Merge shapefile with the data
- Visualization of spatial data
  - Basic plotting of observations
  - Creating subsets and plot
- Exploring spatial data
  - Detecting overall clustering using Moran's I
  - Detection of local clusters using Local Indicators of Spatial Association (LISA)
  - Introduction to other global and local spatial measures
- Spatial Regression
  - Spatial Lag model
  - Spatial Error model

### COURSE FEE

**Indian Participant**  
7500 INR per participant  
**International Participant**  
15000 INR per participant

### COURSE COORDINATORS

**Dr. Ranjana Singh**  
Associate Professor  
**Ms. Nilima**  
Senior Lecturer  
Tel.: +91 124 4722900 (Extn: 4213)  
E-mail: nilima@iiphd.org

## 14 Operations Research in Public Health

**November 19-22, 2019**  
(Tuesday-Friday)

Operations Research (OR) or Implementation Research (IR) is the application of systematic research techniques to improve health Programs indicators. The purpose of OR provide information for management decision-making for better Program planning and implementation. OR enhances Program quality and facilitates efficient resource use. Successful OR is characterized by a close collaboration between public health personnel, Program managers and researchers throughout the study. The value of OR is that it provides empirical evidence to support Program decisions and thus advance optimal utilization of resources. Through innovative and interactive pedagogic techniques the course will augment the knowledge and skills of the participants in fundamentals of design and conduct of OR. At the end of training, participants will be able to describe the concepts of Operations Research, identify and write problem statement, good research questions, apply knowledge and skills of using different study designs and highlight the prospects of using OR in the field of public health and draft operations research proposal.

**Last date of registration: November 5, 2019**

### CONTENTS

- Overview and ingredients of operations research
  - Identification and writing of problem statement
  - Developing good research questions
- Key study designs in OR- Exploratory, Field Intervention, Evaluative and Cost Effectiveness
- Use of Mathematical modeling in Operations Research
- Quantitative and Qualitative research methods
- Writing an OR proposal

### COURSE FEE

**Indian Participant**  
8000 INR per participant  
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16000 INR per participant

### COURSE COORDINATOR

**Dr. Rajesh Nair**  
Additional Professor  
Tel.: +91 124 4722900 (Extn: 4117)  
E-mail: rnair@iiphd.org

## 15 Ethics in Clinical Research

**November 26-28, 2019**  
(Tuesday-Thursday)

Bioethics is the bedrock of quality health research. Bioethics is critical for design, development, implementation, of research projects. All research on humans require clearance from ethics committee. Publication of your research findings are also almost impossible without ethical clearance. Thus it is imperative for a public health researcher to be equipped with issues related to this pertinent component enabling them to conduct research in an ethical manner.

This workshop covers the basic ethical principal in bio-medical research in humans. Much of the course will be taught using a case method approach and participants will have an opportunity to work through a number of ethical dilemmas in a variety of situations.

**Last date of registration: November 12, 2019**

### CONTENTS

- Evolution of the discipline of
- Bioethics
- Principals of ethics in research on human subjects
- Informed consent
- Privacy, Confidentiality and responsible conduct of research
- Ethics of placebo control trials
- Ethics in qualitative research
- Key Ethical Regulatory requirements governing ethics committees and DCGI- schedule Y
- Informed consent
- IRBs (Ethics Committees) constitution, roles and responsibilities in its functioning

### COURSE FEE

**Indian Participant**  
6000 INR per participant  
**International Participant**  
12000 INR per participant

### COURSE COORDINATOR

**Dr. Shifalika Goenka**  
Professor  
Tel.: Tel.: +91 124 4722900  
E-mail: shifalika.goenka@iiphd.org

## 16 Basic Statistical Analysis using SPSS

**November 26-29, 2019**  
(Tuesday-Friday)

Statistics plays an essential part at all stages of a research study in almost all disciplines, from planning, through conduct and to the final analysis. A researcher needs basic knowledge and understanding of statistical concepts to communicate with a statistician. With the introduction of statistical packages, by and large computing is done using computers and not manually, hence quantitative analysis of the data is often attempted by most researchers who are familiar with their research objectives and the data. This workshop proposes to cover basic statistical concepts required for understanding study results along with hands on experience of doing basic analysis using the statistical software SPSS (IBM SPSS Statistics 22). This workshop will help new users achieve a basic understanding of how to use SPSS for basic statistical analysis; as well as aid those who wish to further their skills in SPSS.

**Last date of registration: November 12, 2019**

### CONTENTS

- Introduction to SPSS
  - Data management
- Summarizing data
  - Numerically
  - Graphically
- Inferential statistics
  - Hypothesis testing
  - Parametric and non-parametric tests
- Adjusted analysis
  - Linear regression
  - Introduction to logistic regression

### COURSE FEE

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Associate Professor  
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E-mail: ranjana.singh@iiphd.org



## 17 Project Management of Health Programs

December 3-6, 2019  
(Tuesday-Friday)

This workshop would cover key issues in project management and go through each part of the Project Cycle Management. This workshop aims to provide participants with certain tools of project management that would enable managers to use/assess and respond to issues in their own workplaces. The training would use adult learning methods including case-studies and practice sessions.

At the end of the workshop the participants are expected to be capable of designing a robust health project with a focus on final results, identify various project management activities and use relevant tools for efficient functioning.

**Last date of registration: November 19, 2019**

### CONTENTS

- Project Management
- Project Cycle Management
  - Scenario De?nition and tools therein
  - Design and Development and tools therein
  - Implementation and Monitoring and tools therein
- Evaluation
  - Tools in project Management
  - The Logical Framework
- Project Prioritization Matrix
- Stakeholder Management Framework
- Risk Management Framework

### COURSE FEE

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#### International Participant

16000 INR per participant

### COURSE COORDINATOR

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Associate Professor

Tel.: +91 124 4722900 (Extn: 4115)

E-mail: shomik.ray@iiphd.org

## 18 Applied Methods of Equity Analysis in Healthcare Financing

January 13-17, 2020  
(Monday-Friday)

Healthcare systems are concerned with a fair and socially just distribution of the access to and financing of healthcare, so that health outcomes are distributed equally across society. Financial implications of healthcare, however, restrict many poor households to seek healthcare and causes severe disruption in the living status of many others who go for purchasing even the bare essentials of healthcare. Equity in access to healthcare services and the related financial burden on households, hence, has been one of the major concerns of health systems particularly in developing countries. The challenges are related to reducing the financial burden of healthcare on poor households. Analytic methods of equity analysis are applied in healthcare financing to address the fundamental question that how different segments of population are protected from the financial burden of healthcare. This course teaches the latest methods of conducting equity analysis in healthcare finance.

The course is designed for those who need to perform equity analysis in healthcare finance, and those who want to understand the issues that health economists face when performing these analyses. Since the course offers practical methods to conduct these analyses, researchers and commercial and academic organizations concerned with healthcare resource allocation would be benefited by developing analytical skills during the course.

Stata 15 software will be used for demonstration and to work on the practical exercise. The participant is expected to know basic Stata for participating in the workshop.

**Last date of registration: December 30, 2019**

### CONTENTS

- Introduction
  - Basics of health financing
  - Lab sessions with Introducing Stata
- Understanding equity and measures of inequality
  - Concepts of equity in healthcare finance: Horizontal and Vertical equity
  - Gini, Kakawani and Concentration Indices of inequality
- Impacts of inequality in health care financing
  - Catastrophic impacts-headcount and gaps
  - Poverty impacts-headcount and gaps
- Other Measures of Inequality
  - Progressivity in payments
  - Benefit incidence Analysis (BIA)

### COURSE FEE

#### Indian Participant

12500 INR per participant

#### International Participant

25000 INR per participant

### COURSE COORDINATOR

#### Dr. Anup Karan

Additional Professor

Tel.: +91 124 4722900 (Extn: 4251)

E-mail: anup.karan@iiphd.org

## 19 Sample Size Estimation and Sampling Techniques

January 28-31, 2020  
(Tuesday-Friday)

Sample size estimation is one of the key activities undertaken while designing any research study. An adequate estimate (not less and not more) of sample size is important for ethical, scientific and logistic reasons. This workshop will introduce the statistical concept behind sample size estimation and go on to have practical exercises for sample size calculation of various study designs and outcome variables.

Appropriate sampling techniques are essential to avoid selection bias and improve generalizability of study findings. In this workshop various sampling techniques including randomization methods for experimental designs will be covered with discussions on the advantages and disadvantages of each method.

At the end of the workshop the participants will be able to decide the sample size calculation method given the study design, appreciate the effect of assumptions on sample size calculation and choose the appropriate sampling technique given the sample size.

**Last date of registration: January 14, 2020**

### CONTENTS

- Statistical principles for sample size calculation
- Relating study design and analysis with sample size calculation
- Using “nMaster” software for sample size calculation
- Sampling techniques
  - Probability sampling methods
  - Calculation of sampling weights
  - Non Probability methods

### COURSE FEE

**Indian Participant**  
10000 INR per participant

**International Participant**  
20000 INR per participant

### COURSE COORDINATOR

**Dr. Ranjana Singh**  
Associate Professor  
Tel.: +91 124 4722900 (Extn: 4211)  
E-mail: ranjana.singh@iiphd.org

## 20 Approaches for implementing Adolescent Health Programs

February 17-20, 2020  
(Monday-Thursday)

Adolescence is a critical phase of life in which an individual undergoes physical, cognitive and emotional changes. One fifth of the Indian population comprises of adolescents, a significant population whose health status is a key determinant of the country's overall development. This group has specific health issues and needs which calls for concerted attention and action. Planning and implementation of health programs for adolescents require adoption of specific approaches to encourage involvement of adolescents in the programs, to understand their issues and to enable them adopt healthy lifestyle and practices. The training workshop will strengthen the competency (knowledge and skills) of participants in applying various approaches while planning and implementing adolescent health programs.

**Last date of registration: February 3, 2020**

### CONTENTS

The training will focus on building skills in use of different program approaches laying emphasis on:

- Identifying health issues related to adolescents
- Sexual and Reproductive Health-
- Rights based approach
- Peer education approach
- Counselling
- Life-skills education
- Nutrition and health education
- Community mobilization
- Behaviour Change Communication
- Planning & Managing adolescent health
- Program-monitoring & supportive supervision

### COURSE FEE

**Indian Participant**  
8000 INR per participant

**International Participant**  
16000 INR per participant

### COURSE COORDINATOR

**Dr. Jyoti Sharma**  
Additional Professor  
Tel.: +91 124 4722900 (Extn: 4114)  
E-mail: jyoti@iiphd.org

## 21 Strengthening of Routine Health Information Systems

February 24-28, 2020  
(Monday-Friday)

One of the six building blocks of health system is a sound and reliable health information system (HIS). Key attributes of the health information system are not only generation of reliable data but also critical utilization of this data for decision-making. Many health-related programs often fail to reach optimal success because they fall short of efficient use of data to inform decisions. There is limited evidence to suggest that effective use of RHIS leads to better value of the data generated by the health workers, improvement in the quality of health care and in providing support to program planning and decision making.

Despite several initiatives and numerous health information systems, overall data utilization in health sectors in India has been found to be very low. This inadequacy, in the long term, can affect the motivation of the health professionals which has a critical influence on the performance of the program. Data analysis skills have shown to be strongly related to data use. This is an opportune moment to invest in RHIS given the momentum surrounding the SDGs. Given this context, we propose a capacity building workshop for healthcare professionals that not only provides a basic orientation to the concepts and principles of RHIS but also generates an interest to motivate the use of data for operational and strategic decision making.

**Last date of registration: February 10, 2020**

### CONTENTS

- Role of routine data in health system strengthening
- RHIS data elements and indicators
- Overview of primary RHIS portals (HMIS, DHIS 2)
- RHIS data collection, presentation, analysis and interpretation
- RHIS data quality and checks
- RHIS data use to support decision making and action

### COURSE FEE

**Indian Participant**  
10000 INR per participant

**International Participant**  
20000 INR per participant

### COURSE COORDINATOR

**Dr. Preeti Negandhi**  
Additional Professor  
Tel.: +91 124 4722900 (Extn: 4212)  
E-mail: preeti.negandhi@iiphd.org

## 22 Systematic Reviews and Meta-analysis using RevMan

March 2-6, 2020  
(Monday-Friday)

Over the years formal methods have been developed for systematically reviewing studies, to produce explicitly formulated, reproducible and up to date summaries of effects of healthcare interventions. This has led to a sharp increase in the number of reviews that use these formal methods. It is therefore essential that students undertaking dissertation on work, practicing clinicians, health researchers and policymakers are familiar with the processes involved in the performance and interpretation of systematic reviews.

At the completion of this workshop, participants will know the steps involved in undertaking and interpreting a systematic review using RevMan; appraise published systematic reviews.

**Last date of registration: February 17, 2020**

### CONTENTS

- Rationale of systematic reviews
- Locating systematic reviews
- Formulating a systematic review question
- Developing a protocol for a systematic review
- Identifying and selecting trials
- Critical appraisal of trials
- Reducing bias in conduct of systematic reviews
- Synthesis in systematic reviews
- Statistical approaches and software (RevMan 5) for meta-analysis
- Working with RevMan
- Reporting standards of systematic reviews
- Critical appraisal of systematic reviews and meta-analysis

### COURSE FEE

**Indian Participant**  
12500 INR per participant

**International Participant**  
25000 INR per participant

### COURSE COORDINATOR

**Dr. Himanshu Negandhi**  
Additional Professor  
Tel.: +91 124 4722900 (Extn: 4217)  
E-mail: himanshu.negandhi@iiphd.org



## 23 Impact Evaluation: Public Programs in Health

March 16-20, 2020  
(Monday-Friday)

This 5-day course on Impact Evaluation of Public Health Programs aims to provide with the necessary scientific methodology and practical knowledge to meet the growing demand for rigorous impact evaluation of development programs in general and public health programs in particular. At the end of this course the participants will be able to understand fundamental concepts of 'Treatment Effects' and will be equipped to conduct quantitative rigorous impact evaluation. Through a combination of theory, application and practical examples this course will address:

- How to design an impact evaluation – research design?
- How to design a cluster randomized control trial?
- How to design a quasi-experimental study design?
- What is role of confounders and how to control them?
- How to use the study results for decision-making?

Stata 15 software will be used for demonstration and to work on the practical exercise. The participant is expected to know basic Stata for participating in the workshop. Participants are also expected to have some basic knowledge of statistical and econometric tools.

**Last date of registration: March 2, 2020**

### CONTENTS

The course is designed as blended course with both in-class lectures, exercises and self-learning.

- Types of impact evaluation designs
  - Randomized Control Trial - Randomization and masking; Trial protocol; Sample size estimation; Analyzing trial data
  - Quasi-experimental (non-experimental) designs
- Econometric techniques for impact evaluation
  - Revision of basic econometrics
  - Instrumental variables technique
  - Propensity score matching and other matching techniques
  - Regression discontinuity
  - Difference-in-difference methods

### COURSE FEE

**Indian Participant**  
12500 INR per participant  
**International Participant**  
25000 INR per participant

### COURSE COORDINATOR

**Dr. Anup Karan**  
Additional Professor  
Tel.: +91 124 4722900 (Extn: 4251)  
E-mail: anup.karan@iiphd.org

## 24 Short Course on Access to Medicines with focus on Pharmaceutical Policy Analysis

March 17-20, 2020  
(Tuesday-Friday)

Health is a basic human right and has an intrinsic and instrumental value for every human being. Effective public health interventions using medicines/pharmaceuticals for controlling major diseases exist, but a range of health system constraints hamper efforts to provide universal pharmaceutical services. Appropriate pharmaceutical policies in public health are critically important in view of constrained health budgets to achieve an optimum combination of effectiveness, efficiency, equity and quality of health care in pluralistic health systems such as India.

The key objectives of this workshop are:

- Explain the role of pharmaceuticals as essential health technology in health systems
- Analyse the link between medicine pricing, financing, service costs and access
- Analyse impact of pharmaceutical policies on access to medicines

**Last date of registration: March 3, 2020**

### CONTENTS

- Link between public health and pharmaceutical services
- The role of pharmaceuticals as essential health technology in health systems
- Appropriate pre-conditions, steps and tools for the effective use of medicines
- Impact evaluation of pharmaceutical policies
- Actual key challenges of medicine use

### COURSE FEE

**Indian Participant**  
8000 INR per participant  
**International Participant**  
16000 INR per participant

### COURSE COORDINATOR

**Dr. Habib Hasan**  
Additional Professor  
Tel.: +91 124 4722900 (Extn: 4216)  
E-mail: habib.hasan@iiphd.org

## 25 Monitoring and Evaluation of Health Programs for Improved Decision Making

March 23-27, 2020  
(Monday-Friday)

Monitoring and Evaluation (M&E) is the process by which data are collected and analysed in order to provide information to policy makers and others for use in program planning and project management. M&E is important because it helps program implementers make informed decisions regarding program operations and service delivery based on objective evidence. It also ensures the most effective and efficient use of resources, helps determine the success or failure of a program, and assists in meeting organizational requirements. M&E skills are crucial to the successful implementation, design, and tracking of program progress and output of various programs. This workshop offers intensive training that will cover the fundamental concepts and tools for monitoring and evaluation of various health programs.

**Last date of registration: March 9, 2020**

### CONTENTS

- Introduction to M&E
- Overview of M&E plan
- M&E frameworks
- Indicators
- Data demand and use
- Data Sources and Data Quality
- Program Evaluation
- M&E tools like: PRISM, DQA, DDIU, LQAS etc.

### COURSE FEE

**Indian Participant**  
10000 INR per participant

**International Participant**  
20000 INR per participant

### COURSE COORDINATOR

**Dr. Himanshu Negandhi**  
Additional Professor  
Tel.: +91 124 4722900 (Extn: 4217)  
E-mail: himanshu.negandhi@iiphd.org

## 26 Design, Analysis and Interpretation of Diagnostic Test Studies

March 31-April 3, 2020  
(Tuesday-Friday)

Diagnostic tests are important tools in clinical practice that aid in screening/diagnosis of diseases/conditions which in turn impact on therapeutic decisions. A diagnostic test could be physical examination, a procedure or a questionnaire. The clinical usefulness of diagnostic tests are generally quantified using parameters like sensitivity, specificity and likelihood ratios that can be computed very easily. However, diagnostic studies that estimate these parameters are prone to several biases and further interpretation of the findings can be misleading and tricky. Hence, a knowledge on the design and interpretation of these studies, and applying this information to day to day clinical decision making, are vital for researchers and clinicians. This four day workshop aims to impart knowledge in designing, analysing and reporting diagnostic studies and critically appraising such study reports. Clinical and public health researchers, biotechnologists, and health professionals can apply for this workshop.

**Last date of registration: March 17, 2020**

### CONTENTS

- Computation of test performance parameters (Specificity/Sensitivity/Likelihood ratios/ROC) using Stata 15
- Choice of gold standard and sampling approaches for diagnostic studies
- Key biases in affecting diagnostic studies
- Sample size calculation using nMaster
- Reliability and agreement studies
- Computation of reliability and agreement statistics using Stata 15
- Critical appraisal for diagnostic studies
- Reporting standards (STARD and GRRAS guidelines)

### COURSE FEE

**Indian Participant**  
10000 INR per participant

**International Participant**  
20000 INR per participant

### COURSE COORDINATOR

**Dr. Niveditha Devasenapathy**  
Associate Professor  
Tel.: +91 124 4722900 (Extn: 4209)  
E-mail: niveditha@iiphd.org



## About the Institute

The core mandate of Indian Institute of Public Health- Delhi launched under the aegis of Public Health Foundation of India, is to address the need for trained public health workforce in India that can supplement ongoing efforts to provide services and ensure reach to those most needy. It aims to strengthen the overall health system in country through education, training, research, advocacy and policy initiatives. The strength of the institute lies in the multi-disciplinary faculty trained in specific domains, which enables to have a multidimensional perspective of healthcare. The faculty brief bio-profile can be accessed at [www.phfi.org](http://www.phfi.org).

## Who should attend

These workshops are ideal for physicians, medical students, clinical researchers, project managers, NGO coordinators, nutritionists, data managers, pharmaceutical scientists, statisticians and programme managers working at district, state and national level.

## How to register

Electronic copy of this brochure and the registration forms are available at ([www.phfi.org](http://www.phfi.org)). Interested participants may send their completed registration form to Key contact person- Trainings along with the fee (by Demand Draft in favour of “**Public Health Foundation of India**” payable at Delhi or by Electronic Transfer (NEFT). **International participants** are requested to make only electronic transfer to submit the fee. We do not accept direct cash payment.

Course fee as indicated under each workshop includes workshop kit, meals and refreshments. The participants will have to bear their own travel, boarding and lodging expenses. However, the organizers will be able to provide a list of hotels or guest houses nearby the institute upon request. **Confirmation will be on first come first serve basis.**

### Course Director

**Prof. Sanjay Zodpey, MD, PhD**

Director- Indian institute of Public Health-Delhi  
Vice President- Academics,  
Public Health Foundation of India, New Delhi

**E-mail:** [sanjay.zodpey@phfi.org](mailto:sanjay.zodpey@phfi.org)

### Key contact Person

**Ms Tanuja Bhandari**

Assistant Manager- Program (Training)  
Indian Institute of Public Health-Delhi  
Public Health Foundation of India (PHFI)  
Plot 47, Sector 44, Institutional Area  
Near HUDA City Centre Metro Station  
Gurgaon-122002, Haryana, INDIA  
Tel: +91 124 4722900 (Extn: 4110)

**E-mail:** [trainings@iiphd.org](mailto:trainings@iiphd.org),

**Website:** [www.phfi.org](http://www.phfi.org)