



Indian Institute of Public Health – Delhi Public Health Foundation of India

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Workshop Series 2022- 23

Online workshop on “Application of Econometrics in Health Policy Analysis”

March 13-17, 2023

Last date of registration: 27th Feb 2023

Course Lead Faculty: Dr. Anup Karan, Additional Professor, Indian Institute of Public Health-Delhi

Registration form: <http://tof.phfi.org/>

About the course

This five-day course on “Econometrics for Health Policy” (EHP) will serve as an introduction to some of the concepts and principles in the economics of health and health care. The course focuses on developing the theoretical basis and practical application of the most common empirical issues faced by researchers in health policy observational research. Thanks to the increasing availability of detailed micro-data, the EHP course aims to develop specific methodological and computational skills among the participants enabling them to handle most pressing issues in health and healthcare policy analysis. It has two main objectives: (1) to develop skills of econometric analysis in linking economic behavioural models and quantitative analysis for addressing issues related health policy; (2) to develop abilities among the participants to understand and evaluate critically other existing econometric studies.

The course is designed especially for healthcare professionals, doctoral and advanced master level students, MD students, researchers, and CEOs interested in pursuing a high-stake career in the field healthcare policy analysis. A basic knowledge of statistics including regression analysis, Ordinary Least Square (OLS), is a pre-requisite for attending this course. Primarily will be taught through lectures and practical exercises. Real-time data will be used in lectures and demonstration of analysis. Problem-solving classes will familiarise participants with concepts and techniques through a hands-on approach. Problem sheets will be provided to encourage self-study.

Contents

- Review of Ordinary Least Square (OLS) regression analysis; Assumptions of OLS, Identification of econometric issues causing biases in OLS estimates;
- Understanding and addressing multi-collinearity and heteroscedasticity issues;
- Maximum Likelihood Estimation (MLE); When and why use logit-probit models; Application to healthcare (healthcare financing) analysis;
- Handling “Selection Bias” – Two-Part Model (TPM), Heckman selection model; Application to healthcare (healthcare financing) analysis
- Handling “Endogeneity”, in econometric analysis – Instrumental variable approach; Application to healthcare (healthcare financing) analysis.

Note: This is an online workshop that will be facilitated on CISCO WebEx at IIPH-Delhi Platform, participants are expected to have stable internet connection

About the Faculty

Dr. Anup Karan is a full-time faculty at the institute with D. Phil in public health (health economics) from the University of Oxford. He has more than 25 years of teaching and research experience in the areas of health, poverty and employment and their inter-linkages. Dr. Karan has been working in the area of impact evaluation, equity in healthcare financing and financial risk protection of households and has published papers on these topics in national and international journals of repute. He has been also involved in online distance learning academic programs and workshops at the institute.

Who should attend?

The course is designed for those who need to perform rigorous economic analysis, and those who need to understand in some depth the issues that health economists face when performing these analyses. Since the course offers practical methods to conduct these analyses, researchers, program implementers and academic organizations concerned with monitoring and evaluation would be benefited by developing analytical skills during the course.

How to Apply?

Interested participants may [Apply Online](#) and submit online registration form or write an email to trainings@iiphd.org. The fee will be submitted by E-transfer, the **bank details for E-transfer will be shared upon applying for the workshop**.

Registration Fee:

Indian National: 9000 INR per participant	Foreign National: 18000 INR per participant
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* We have limited seats available; registrations will be confirmed on a first come first serve basis.