



About the Institute

The National Institute of Health & Family Welfare is a premier autonomous Institute, funded by the Ministry of Health and Family Welfare, Government of India. It has kept pace with the new thinking and substantially contributed to the health manpower development in the country.

NIHFW serves as an apex 'technical institute' as well as a 'think tank' to promote national health and family welfare programmes in the country through education and training, research and evaluation, consultancy & advisory services, specialized projects, etc.

The Department of Epidemiology of the institute is organizing an offline 7th Training Course on "Application of Biostatistics in Epidemiology and Public Health".



Course Coordinating Team

Course Coordinators : Dr. Rajesh Ranjan

Dr. D. K. Yadav

Course Co-Coordinators : Mr. Subhash Chand

Mrs. Bhawna Kathuria

Course Associate : Mr. Vishal Drall

Details of Submission of Course Fee

There is a course fee of **Rs. 5,000/-** (excluding Taxes) per participant which can be paid through online banking. The bank details are:

Name of the beneficiary : Director, NIHFW

Bank Name & Branch : SBI, NIHFW,
Munirka, New Delhi-67

Account No. : 43901234540

IFSC Code No. : SBIN0001624

MICR Code No. : 110002056

The course fee of Rs. 5,000/- includes training kit, tea and working lunch during the course.

Further Correspondence to be Addressed to:

Dr. Rajesh Ranjan

Course Coordinator

**The National Institute of Health and Family Welfare
Munirka, New Delhi-110 067**

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7th Training Course

on

Application of Biostatistics in Epidemiology and Public Health

1st – 5th March, 2027



Department of Epidemiology

**The National Institute of Health and Family Welfare,
Baba Gangnath Marg, Munirka,
New Delhi - 110067**

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Introduction

To have a better health care delivery system and health management, the programme managers and academia require evidence which usually comes from research. Research in public health requires an adequate information which comes from quality data and its scientific analysis. Biostatistics is an interdisciplinary scientific field and Biostatisticians develop and apply statistical methods to scientific research in health-related fields, including medicine, epidemiology, and public health etc. The role of the biostatistician is an important one, especially when it comes to designing studies and analyzing data from research problems. Whereas Epidemiologists study the distribution and determinants of health and disease in populations.

Epidemiology and biostatistics both are the cornerstone of public health research and practice. It is very important for program officers, academicians, public health researchers to have basic knowledge and skills of epidemiology and biostatistics and its application.

This training course introduces the health researchers to the quantitative methods that are helpful in public health research and evidence-based public health policy and practice. Statistical and epidemiological concepts will be taught in parallel to promote integration of knowledge across both disciplines.

General Objective

To enhance the knowledge and skills of the health professionals in application of biostatistics in field of epidemiology and public health.

Specific Objectives

This course will prepare the participants:

- To apply basic epidemiological methods in public health settings.
- To describe the biostatistical skills involved in the analysis of health statistics.
- To describe the applications of statistical software in data analysis.

Course Contents

- Introduction to Epidemiology
- Measures of disease occurrence and risk
- Epidemiological Study design- Descriptive, Analytical and Experimental
- Bias in Epidemiological studies and confounding factors
- Surveillance and Screening
- Reliability and validity of screening and diagnostic tests
- Statistical exercises those are applicable in epidemiological studies
- Introduction to Biostatistics in Public Health
- Data Collection- Tools and Techniques
- Data Presentation techniques
- Data summarization
- Sampling technique and sample size estimation
- Introduction to Inferential Statistics and Hypothesis Testing
- Tests of significance
- Correlation and Regression
- Basics of Epi Info

Methodology

The participatory approach will be adopted throughout the course comprising of

- **Lecture cum Discussion:** Each lecture session will be followed by discussion and interaction with participants
- **Case Studies:** Case studies will be discussed
- Hands on training and problem solving exercises

Duration

5 days (1st — 5th March, 2027) 9.00 am - 5.30 pm.

Nature of Participants

The participants will be health professionals working in Govt./ Pvt. Medical and Nursing Colleges, SIHFW. Demographers, Epidemiologists, Statisticians and Biostatisticians.

Training Outcome

The course will be helpful in capacity building of the faculty of the medical colleges and other public health personnel to analyze the health statistics in public health research.

Last date for receiving nominations

5th February, 2027

Link for Registration of Course

<https://forms.gle/eWBASPFHnc9AcsP8>