FELLOWSHIP IN
EPIDEMIOLOGY AND BIOSTATISTICS

ABOUT
MEDVARSITY

Asia's Largest Healthcare EdTech Company

Medvarsity is Asia`s largest healthcare ed-tech company offering online and blended learning programs (Fellowship, Post-Graduate Programs and Certificate courses) for healthcare professionals. In the last five years, we have positively impacted the careers of over five lakh healthcare professionals across 192+ countries. We are a team of 300 high-energy professionals of which more than 120 team members have joined us in the last 12 months. Today, we cater to the requirements of both healthcare professionals as well as non-clinicians ensuring industry demand and skilled workforce are in a perfect state of equilibrium.

Medvarsity has won several accolades for contribution to healthcare education and healthcare technology. In 2022, Entrepreneur India and the Ministry of Electronic and Information Technology awarded us with the Best Ed-tech Deployment for higher education. In 2021, Medvarsity won Asia's Greatest Brands in education and ed-tech, an award by Asia One magazine.are here to partner with you through that journey.

ALUMNI

5,00,000+ medical professionals trained and certified

COURSES

200+ courses in clinical, management and administration

PARTNERS

Global universities and industry leaders

PRESENCE

Students and partners from 190+ countries

Knowledge Changes Lives

FELLOWSHIP IN
EPIDEMIOLOGY AND BIOSTATISTICS

Epidemiology and biostatistics are the cornerstones of public health and preventive medicine. With an ongoing shortage of Epidemiologists and biostatisticians globally, the highly skilled professionals are in high demand. They collaborate to work towards the shared goal of generating and synthesizing epidemiological data to identify and solve health problems.

The Fellowship in Epidemiology and Biostatistics program is based on two seamlessly integrated sciences of public health. It is a specialized course designed to help healthcare professionals to develop essential knowledge and skills in quantitative public health research by integrating the core disciplines of epidemiology and biostatistics. A skilled epidemiologist and biostatistician does not focus on a single set of diseases but encompasses the range of health conditions and health-related behaviors.

This online course will provide you with a detailed overview of an epidemiological approach to the study of disease and illnesses and to apply appropriate statistical techniques in the analysis of public health data. The course is certified by the School of Public Health and Community Medicine, University of New South Wales, (UNSW) Australia, and Medvarsity.

In addition to providing you with exposure to the epidemiological and biostatistical concepts and methods, this course will also expose you to a full breadth of practical applications in the field.

Develop a broad understanding of quantitative thinking in the health sciences.

DR. PADMANESAN NARASIMHAN
COURSE FACULTY

Faculty – MPH, Epidemiology & Biostatistics, PGDID
Consultant, UNSW

ACCREDITATION PARTNER

PROGRAM
DETAILS

HIGHLIGHTS

- Seminars by global faculty

- Fellowship course with accreditation certified by UNSW

- The curriculum reflects core epidemiological and biostatistical concepts and practices.

CERTIFICATION

- Each module is followed by an online test

- On completing the course, contact program and passing the final assessment, the student will be awarded a certificate of Fellowship in Epidemiology and Biostatistics

ELIGIBILITY

- MBBS, MD, B.Pharm, M. Pharm, Graduates in statistics, Bsc, Msc, Nursing, BDS, MDS, BPT, MPT, BOT, MOT, Ph.D., MPhil, BAMS, BUMS, BHMS.

COURSE FEE

₹104,348 + GST

COURSE
OUTLINE

Module 1

- Defining Public Health

- Introduction to Epidemiology

- Measures of Disease Frequency

Module 2

- Measures of Risk and Association

- Measures of Health Impact in the Population

- Measures of Association and Health Impact from a Case-control Study

- Risk Versus Prevention

- Reporting Measures of Association and Health Impact

COURSE
OUTLINE

Module 3

- Introduction to Critical Appraisal

- Epidemiological Studies

- Analytic Intervention Studies
  Analytical Observational Studies

Module 4

- Sources of Bias in Epidemiological Studies – Overview

- Assessing Epidemiological Studies

- Selection Bias

- Measurement Bias

- Confounding and Effect Modification

COURSE
OUTLINE

Module 5

- Intervention Studies

- Cohort Studies

- Case-control studies

- Cross-sectional studies

Module 6

- Screening Programs and Tests

- Causal Inference in Epidemiology

- Synthesis of Evidence

- References and Extra Reading

COURSE
OUTLINE

Module 7

- Introduction to Statistics: Presenting and Summarising Data

- What is Statistics?

- Summary Statistics and Variation in Data

Module 8

- Normal Distribution

- Confidence Intervals

Module 9

- Hypothesis testing: Comparing Means

- Hypothesis Testing

- Comparing the Means of Two Groups

COURSE
OUTLINE

Module 10

- Hypothesis Testing with Categorical Data
- Comparing Independent Proportions

Module 11

- Analysis of Paired Data
- Correlation and Regression

Module 12

- Analysis of Non-Normal Data
- Sample Size Estimation

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