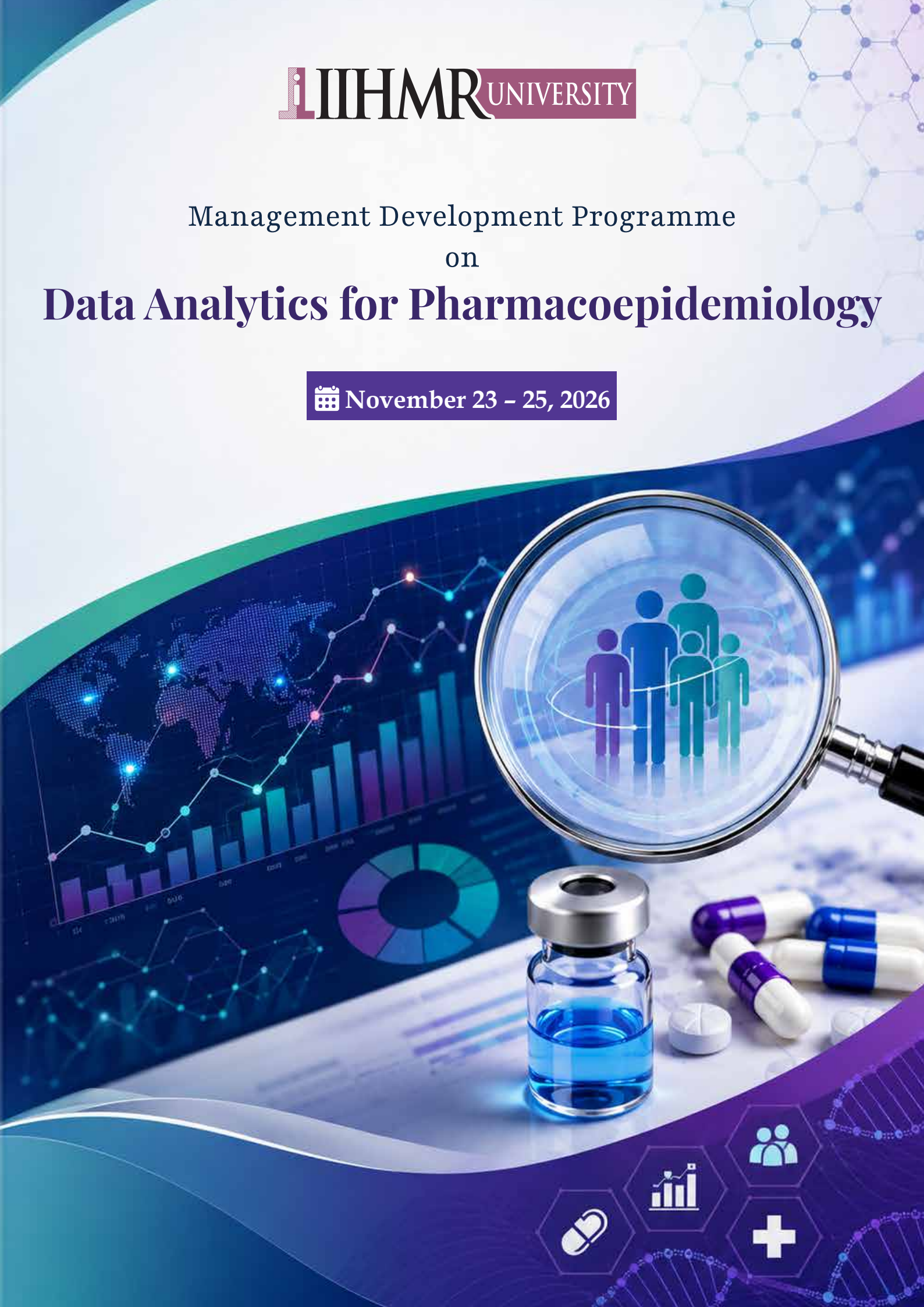


Management Development Programme
on
Data Analytics for Pharmacoepidemiology

 November 23 – 25, 2026



Background

Pharmacoepidemiological studies provide critical assessments of potential short- and long-term adverse drug events across diverse populations, health statuses, and extended follow-up periods – far beyond what pre-marketing clinical trials can offer. With the explosion of real-world big data – Electronic Health Records (EHRs), insurance claims, and patient registries – data analytics has become the essential bridge that transforms massive, unstructured data volumes into actionable insights for drug utilization research, safety surveillance, and pharmaceutical policy.

This 3-day Management Development Program is designed to bridge the gap between epidemiology and data science. Participants will explore statistical, regulatory, and technical methodologies to manage pharmacoepidemiological datasets, apply causal inference frameworks, and leverage Real-World Evidence (RWE) to guide strategic clinical and market decisions. The program is heavily application-oriented, combining conceptual rigour with hands-on labs using statistical tools

Objectives

By the end of this program, participants will be able to:

-  Understand the fundamental principles and applications of pharmacoepidemiology and pharmacovigilance in practice.
-  Navigate the structure, extraction, and standardization of large pharmaceutical datasets and healthcare registries.
-  Apply data analytics techniques – including risk ratio, odds ratio estimation, and regression modelling – to control confounding and bias.
-  Implement quantitative signal detection algorithms (PRR, ROR) and interpret Risk Management Plans (RMPs) in drug safety.
-  Generate and critically interpret Real-World Evidence (RWE) to inform clinical practice and regulatory decisions.

Pedagogy

The programme offers a multifaceted learning experience through lectures, group discussions, case studies, and hands-on experiential learning. Participants are immersed in a dynamic learning environment designed to foster theoretical understanding, actionable real-world insights, and service-ready skills.



Course Contents

The 3-day program is structured into intensive technical sessions, case discussions, and hands-on workshops:

-  Introduction to Pharmacoepidemiology
-  Healthcare Big Data Sources: EHRs, Claims, and Registries
-  Study Designs in Pharmacoepidemiology: Cohort, Case-Control, and RCTs
-  Hands-on Lab: Exploring & Cleaning Health Databases
-  Biases & Confounding in Pharmacoepidemiology
-  Causal Inference
-  Statistical Modelling
-  Pharmacovigilance & Signal Detection: PRR and ROR Algorithms
-  Real-World Evidence (RWE) and Risk Management Plans (RMPs)
-  Participant Presentations: Case Study Analysis & Reviews

Who Should Attend?

This program is designed for:

- Data analysts, statisticians, and data scientists working in pharmaceutical companies and contract research organizations (CROs).
- Pharmacovigilance (PV) officers, safety managers, and medical directors overseeing drug safety, risk management, and pharmacovigilance operations.
- Clinical researchers, epidemiologists, and academic scholars engaged in observational studies, public health research, and healthcare analytics.
- Program administrators, medical officers, hospital managers, and healthcare practitioners—including physicians and pharmacists—interested in using data-driven insights to improve patient outcomes and evidence-based drug utilization.
- Regulatory affairs and policy professionals who review and interpret Real-World Evidence (RWE) for drug safety assessment, risk management, and strategic decision-making.

Programme Coordinator



Dr. Rahul Sharma
Assistant Professor
IIHMR University, Jaipur

The programme will be offered by a team of national and international subject experts.

Nominations/Registration

Please send your nominations/registrations to the following address:

Management Development Programme (MDP) Office

IIHMR University

1, Prabhu Dayal Marg, Sanganer Airport

Jaipur - 302029, INDIA

Tel: +91-141-3924700

Mobile: +91 9116006536

E-mail: training@iihmr.edu.in

Duration and Venue

The programme will start on Monday, November 23, 2026,, and will conclude on Wednesday, November 25, 2026. The programme will be held at IIHMR University, 1, Prabhu Dayal Marg, Sanganer Airport, Jaipur - 302029. The University campus provides a conducive learning environment for participants, who are welcome to use the library and recreational facilities available on campus.

Certificate

A certificate of participation on completion of the programme will be issued by IIHMR University, Jaipur.

Programme fee

The programme fee for Indian participants is Rs. 30,000 plus GST (18% as applicable), and for international participants it is USD 315 plus GST (18% as applicable). The programme fee covers tuition, background reading material, lodging, and boarding.

Discounts on Fee

- 🌟 **Early Bird Discount:** Nominations received with payment before four weeks of the commencement of the programme will be entitled to a 10% early bird discount.
- 🌟 **Group Discount:** Any organization sponsoring four or more participants to the programme will be entitled to a 20% discount on the total fee payable, provided that at least four participants attend the programme.
- 🌟 **Maximum Discount:** Organizations can avail themselves of both discounts, subject to a maximum discount of 20%.





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