IPI Academy

MANAGEMENT forum



Presented by
Management Forum

AI & ML in Clinical Trials: Fundamentals, Applications, and Regulatory Aspects

10 May 27
+ 12 November 27

AI and Machine Learning are revolutionising clinical trial data management by enhancing efficiency, streamlining processes, and minimising human error. This course will be of use in both the pharmaceutical and medical device industry.

Format:
Live online

CPD:
6 hours for your records

Certificate of completion

Course overview

Artificial Intelligence (AI) and Machine Learning (ML) are rapidly reshaping the clinical trials landscape, driving innovation in how research is designed, conducted and evaluated. While these technologies hold immense promise to enhance efficiency, reduce costs, and improve outcomes, their adoption is paired with ethical concerns, prompting the development of robust regulatory frameworks to guide their responsible use. For professionals in the field, understanding the fundamentals of AI and ML and their implications is becoming increasingly essential.

This comprehensive one-day training course provides an overview of AI and ML, focusing on their applications in clinical trials and the regulatory and ethical considerations that accompany their use. Participants will explore how AI and ML are being used to optimize trial efficiency, predict patient outcomes, and support adaptive trial designs. The course will also examine the regulatory frameworks, including the EU AI Act and related regulatory initiatives, to ensure compliance and ethical use of these technologies in a highly regulated environment.

Through engaging lectures, real-world case studies, and interactive assessments, attendees will gain valuable insights into the transformative potential of AI and ML in clinical trials while understanding the challenges and responsibilities associated with their implementation. Join us to enhance your knowledge of these cutting-edge technologies and their role in advancing clinical research.

Benefits of attending

- **Explore** the fundamental concepts of AI and ML
- **Learn** how to address common challenges with cutting-edge solutions
- **Explore** real-world use cases of AI-powered tools for clinical trial optimization
- **Understand** the ethical and regulatory requirements essential to adopting AI in clinical settings
- **Reflect** on change management in people, process, and tools for implementing an AI based tools
- **Prepare** for the future of clinical trials and stay ahead of industry advancements

Who should attend?

This course is aimed at anyone working in clinical research, clinical operations, data management, regulatory and compliance, and associated functions seeking to leverage AI and ML in clinical trials. Whether you're new to AI/ML or looking to deepen your understanding, this course provides valuable insights into how these technologies are reshaping the clinical research landscape.

Programme

Introduction to AI and ML

- Key concepts and terminologies
- Types of machine learning
- Applications in healthcare, trends and innovations

Applications of AI and ML in clinical trials

- Opportunities and challenges
- Real-world data analysis
- Trial design and simulation
- Patient recruitment and retention optimization
- Predictive modelling for outcomes

Applications of AI and ML in clinical trials cont'd

Patient monitoring and safety surveillance
Clinical data management and analysis
Workflow optimization

Regulatory landscape for AI in clinical trials

- Overview of FDA, EMA, and other relevant agencies' positions on AI and ML
- Validation and approval processes for AI-based tools
- Requirements for data handling and reporting

Ethical aspects

- Transparency, fairness, and accountability
- Mitigating bias in AI models
- Balancing innovation with patient safety

Integration and future directions

- Steps to incorporate AI into clinical trial workflows
- Overcoming common obstacles in AI/ML adoption
- Future directions

Presenter



Zuzanna Kwade

Zuzanna Kwade is Software Clinical Evaluation Lead at Dedalus Healthcare. Zuzanna holds a PhD in Biochemistry and has 15 years of experience in clinical and medical research. She is the co-author of several white papers on regulatory aspects of clinical research and clinical evaluation.

Since 2016, she has been actively involved in Clinical Evaluations according to MEDDEV 2.7.1 (Rev.4) for multiple devices, including high risk hardware devices and medical software. She also represented COCIR in the European Union Task Force on clinical evaluation of software and co-authored MDCG2020-1 guidance on clinical evaluation of MDSW.

Course dates

10 May 27	**Live online** 09:00-17:00 **UK (London)** (UTC+01) *Course code 17161*	GBP **649** ~~749~~ EUR **909** ~~1,049~~ USD **1,043** ~~1,199~~ **Until 15 Mar**
12 November 27	**Live online** 09:00-17:00 **UK (London)** (UTC+00) *Course code 17459*	GBP **649** ~~749~~ EUR **909** ~~1,049~~ USD **1,043** ~~1,199~~ **Until 17 Sep**

How to book

Online:
ipi.academy/2896

Alternatively contact us to book, or if you have any queries:

Email:
info@ipiacademy.com

Phone:
+44 (0)20 7749 4749

Discounts

- Booking more than one delegate on any one date qualifies for a **30% discount** on the second and subsequent places.
- Most events qualify for an **early booking discount** prior to 6 weeks before the course date. Be sure to check on our website, where the latest discounts will be shown.

Further information

Fee
The fee includes all meals and refreshments for the duration of the course (for venue-based courses) and a complete set of course materials (provided electronically). If you have any particular requirements, please advise customer services when booking.

Please note
IPI Academy (and our training partners) reserve the right to change the content and timing of the programme, the speakers, the date and venue due to reasons beyond their control. In the unlikely event that the course is cancelled, we will refund the registration fee and disclaim any further liability.

Terms and conditions
The rest of the our terms, the event cancellation policy and the terms and conditions are on our website, please visit ipi.academy/content/terms-and-conditions

Reviews

★★★★★

Zuzanna was very knowledgeable and well-prepared for teaching this course. She showed a genuine interest in the subject-matter and communicated in a clear and effective manner. In my experience, Trainers are typically not as knowledgeable or prepared as Zuzanna, so I was pleasantly surprised. I will definitely consider attending other IPI Academy courses because of this experience.

Michelle Camenzuli
Senior Manager
Kedrion BioPharma
Nov 5 2026

Run this programme in-house for your whole team

Coming to IPI Academy for your in-house training provides an all-inclusive service which gives you access to a wide variety of content, learning platforms and delivery mechanisms as well as your own personal training adviser who will work with you from the initial enquiry through to feedback and follow-up after the programme.

With over 600 trainers, all practitioners and experts across a huge range of fields, we can provide the training you need, where you need it, when you need it, and at a price which suits your budget. Our approach to tailored learning and development consists of designing and delivering the appropriate solution for each client.

For your FREE consultation and to find out more about how we can work with you to solve your training needs, please contact our training advisers:



ALEKSANDRA BEER
Tel: +44 (0)20 7749 4749
Email:
inhouse@ipiacademy.com



YESIM NURKO
Tel: +44 (0)20 7749 4749
Email:
inhouse@ipiacademy.com



Harry ALTAMONT
Tel: +44 (0)20 7749 4749
Email:
inhouse@ipiacademy.com

IPI Academy

IPI Academy is a training initiative of Falconbury and Management Forum; leading providers of industry training for over 30 years, based in the UK.

10-12 Rivington Street
London EC2A 3DU

ipi.academy
Tel: +44 (0)20 7749 4749
Email: info@ipiacademy.com