DIA Learning

Artificial Intelligence in Pharmacovigilance

Virtual Live Training Course

29-31 January 2024 13:00-17:30 CET

OVERVIEW

A practical orientation course for the next level of pharmacovigilance technology as it is being implemented across the industry. Over the last 7 years, major advances in artificial intelligence (AI) technology have reached the pharmacovigilance (PV) industry and are changing how we operate with ever-increasing speed. A new skillset for pharmacovigilance professionals is required.

The course is designed to give all senior pharmacovigilance professionals sufficient orientation to make an informed decision and use the new technology in a smart and compliant way.

The course is given by pharmacovigilance and IT veterans who are fearless in enabling sustainable innovation and have hands-on experience with AI tools in pharmacovigilance. A regulatory point of view is represented in panel discussions.

- *50:50 mix of technology vs business contents. Technology topics require no prior technical knowledge; all are explained clearly.*
- *Each day mixes business and technology topics.*

LEARNING OBJECTIVES

- Understand how main AI methodologies work - machine learning, natural language processing, classifications, large language models, other ML
- Clearly explain pros and cons of AI models that are already being used in PV, including OpenAI ChatGPT (3.5 and 4.0), Google Bard, Anthropic Claude 2, MS Copilot etc.
- Identify and manage risks to your data security, data privacy, bias and ethical concerns
- Discuss the management perspective and challenges - people, skills, governance, audits, and compliance
- Review what today's PV IT platforms deliver in terms of implementations, AI, and automation, including major systems such as Oracle Argus, IQVIA IVP, RxLogix, LifeSphere by ArisGlobal etc.
- Brainstorm what would be the perfect PV IT intelligent system of the future
- Roadmap for successful AI implementation in your PV system

KEY TOPICS

- PV journey from manual process through RPA to Generative AI
- Foundations of AI in PV: Supervised vs Unsupervised, NLP, LLMs...
- Ensuring compliance while using AI
- Today's PV interfaces and systems using AI
- PV AI barriers and challenges
- Developing regulatory environment for AI in PV
- Near future PV IT developments

WHO WILL ATTEND

Pharmacovigilance and IT professionals with 2+ years of PV experience who wish to gain a practical overview of all AI technologies coming to the pharmacovigilance industry.

FACULTY

Jan Petracek
Director
Institute of Pharmacovigilance
EU

Robert Scheiner
CIO
iVigee
USA

Phil Tregunno
Deputy Director - Patient Safety Monitoring
MHRA
UK

PharmaTrain
MASTERING MEDICINES DEVELOPMENT
CENTRE RECOGNITION

DAY 1

13:00 WELCOME AND INTRODUCTION

13:30 SESSION 1

PV JOURNEY FROM MANUAL THROUGH ROBOTIC PROCESS AUTOMATION (RPA) TO AI

Jan Petracek

- Business experience from 7-year-long development and implementation of intelligent automation in pharmacovigilance
- What is changing in pharmacovigilance and why, the main trends and competencies needed for the near future
- AI initiatives from major regulatory authorities and CIOMS

15:00 BREAK

15:30 SESSION 2

AI AND NATURAL LANGUAGE LEARNING (NLP) IN PV

Robert Scheiner

- Main principles of AI technology, especially in the PV context
- Main use cases where AI is used within PV, where it augments human workflows and vice versa - where humans may complement what AI is primarily (or will be soon) doing

17:00 DISCUSSION AND Q&A

17:30 END OF DAY 1

DAY 2

13:00 SESSION 3

COMPLIANCE AND MANAGEMENT PERSPECTIVE ON IMPLEMENTING INTELLIGENT AUTOMATION

Jan Petracek

- Business case and management views - how senior management and CEOs view investments in innovative technology
- Prepare your departments, teams, hire the right talent, and create your roadmaps
- What are some of the myths on either side - management and business and how might we bridge them
- Exercise a clever approach to validation and quality management requirements to stay compliant while using the most modern technology
- Defence of more intelligent data management practices in front of auditors and inspectors

14:30 BREAK

15:00 SESSION 4

TODAY'S PV INTERFACES AND SYSTEMS

Robert Scheiner

- Current PV IT platforms and patterns
- What to expect from FDA, EMA, and MHRA in terms of intelligent automation
- Ongoing Prove of Concepts (PoCs) and development AI labs at major and smaller pharma, regulators, and service organisations

16:30 DISCUSSION AND Q&A

17:30 END OF DAY 2

Continuing Education

The Swiss Association of Pharmaceutical Professionals (SwAPP) and the Swiss Society for Pharmaceutical Medicine (SGPM) have accredited this training course with 10 credits.

SwAPP Swiss Association of Pharmaceutical Professionals

DAY 3

13:00 SESSION 5

NEAR FUTURE PV IT DEVELOPMENTS

Robert Scheiner

- Future of PV IT platforms
- Technology architectural patterns supporting high scalability, throughput, and flexibility
- Wise and informed decisions about the future use of technology like NLP, RPA, and advanced ChatGPT-like technologies in their daily work
- Distinguish buzz from reality when assessing options
- How to go from labs to future production and build a real ML Ops
- How to build in explainability from early on and avoid compliance issues later

14:30 BREAK

15:00 SESSION 6

DEVELOPING REGULATORY ENVIRONMENT FOR AI IN PV

Jan Petracek, Robert Scheiner and Phil Tregunno

- Case studies
- View of leading regulators
- 2023 as a breakthrough year and what will happen in 2024+
- Discussion and Q&A

17:30 END OF THE VIRTUAL LIVE TRAINING COURSE

Technical Requirements

In preparation for the course, please create a free account (or use existing account) for OpenAI GPT and Google Bard!

To test your system compatibility, please click on the link:
https://diaglobal.zoom.us/test

For further information on system requirements, please visit the website:
https://www.diaglobal.org/General/System-Requirements

Group Discounts

Register 3 individuals from the same company for the same course and receive complimentary registration for a 4th!

- All 4 individuals must register and prepay at the same time – no exceptions
- DIA will apply the value of the lowest applicable fee to this complimentary registration; it does NOT include fees for optional events or DIA membership
- You may substitute group participants of the same membership status at any time; however, administrative fees may be incurred.

Group registration is not available online and does not apply to the already discounted fees for government or charitable nonprofit/academia.

To take advantage of this offer, please print the registration form for EACH of the four registrants from your company. Include the names of all four group registrants on each of the forms and return them together via email to basel@diaglobal.org.

Plan Your Team's Professional Development

Why not take advantage and train your whole department (or even across different departments!) and benefit from increased:

- Focus
- Flexibility
- Convenience
- Cost Effectiveness

For more information please contact Basel@diaglobal.org.

REGISTRATION FORM Virtual Live Training Course

Artificial Intelligence in Pharmacovigilance # 24537
29-31 January 2024 13:00-17:30 CET

DIA Learning

REGISTRATION FEES

Registration fee includes full admission to virtual course, and electronic access to course materials. **Please note that the full amount must be received by DIA by commencement of the course to get the electronic access to the material.** Please check:

FEES	MEMBER EARLY-BIRD valid until 4 Dec 2023	MEMBER valid from 5 Dec 2023	NON-MEMBER
INDUSTRY/ REPRESENTATIVE	€ 1'215.00 ❑	€ 1'350.00 ❑	€ 1'610.00 ❑
ACADEMIA/CHARITABLE/GOVERNMENT/NON-PROFIT (FULL-TIME)	NA	€ 675.00 ❑	€ 935.00 ❑
A special discount for SMEs on the standard fee is available for a limited number of places. To prove your status as an SME, a confirmation of the European Medicines Agency is necessary. Please contact DIA for more information.			

All registration fees are subject to VAT if applicable.

Please enter your company's VAT number: _____

If DIA cannot verify your membership upon receipt of registration form, you will be charged the non-member fee.

Payment is due 30 days after registration and must be paid in full by commencement of the course.

DIA MEMBERSHIP

All nonmember fees include a one year DIA membership, at no additional cost. Explore membership benefits at DIAglobal.org/Membership.

DIA membership will renew automatically at the end of the complimentary membership term, at the then current membership rates. You may cancel automatic membership renewal at any time by accessing your account online at DIAglobal.org. If you would like to decline complimentary membership, please indicate your preference below.

❑ **I would like to decline a one year complimentary DIA membership.**

The DIA Contact Centre Team will be pleased to assist you with your registration from Monday to Friday between 09:00 and 17:00 CE(S)T. **Tel.** :+41 61 225 51 51

Email: Basel@DIAglobal.org **Mail:** DIA, Küchengasse 16, 4051 Basel, Switzerland
Web: **www.DIAglobal.org**

TERMS AND CONDITIONS

Cancellation Policy

All cancellations must be made in writing and be received at the DIA office four weeks prior to the event start date. Cancellations are subject to an administrative fee:

- Industry (Member/Non-member) € 200.00
- Academia/Charitable/Government/Non-profit (Full-time) (Member/Non-member) € 100.00

If you do not cancel four weeks prior to the event start date and do not attend, you will be responsible for the full registration fee.

DIA reserves the right to alter the venue and dates if necessary. If an event is cancelled or postponed, DIA is not responsible for airfare, hotel or other costs incurred by registered attendees. Registered attendees are responsible for cancelling their own hotel and travel reservations.

Transfer Policy

You may transfer your registration to a colleague prior to the start of the event but membership is not transferable. Substitute attendees will be responsible for the non-member fee, if applicable. Please notify the DIA office of any such substitutions as soon as possible.

Event Stream and Recording

If you attend a DIA event, we make video and audio recordings of events (both face-to-face and online) that may include your participation in the event, including your image, questions and comments. To view our full photography and video recording policy, click https://www.diaglobal.org/general/photography-policy.

Privacy Policy

DIA respects the privacy of all of its members and customers. To view our privacy policy, click https://www.diaglobal.org/about-us/privacy-policy. You agree that your personal data will be transferred to DIA in the US.

ATTENDEE DETAILS

Please complete in block capital letters or attach the attendee's business card here.

❑ Prof ❑ Dr ❑ Ms ❑ Mr

Last Name

First Name

Job Title

Company

Address

Postal Code

City

Country

Telephone Number

Attendee email required for course material access

PAYMENT METHODS

Credit cards: Payments by VISA, Mastercard or AMEX can be made by completing the details below. Please note that other types of credit card cannot be accepted.

❑ **Please charge my** ❑ VISA ❑ MC ❑ AMEX

Card N°

Exp. Date /

Cardholder's Name

❑ **Bank transfers:** When DIA completes your registration, an email will be sent to the address on the registration form with instructions on how to complete the bank transfer. Payments in EURO should be addressed to "Account Holder: DIA." Please include your name, company, Course ID #24537 as well as the invoice number to ensure correct allocation of your payment.

Please note: if you register 7 days or less before the start of the course, it is not possible to settle the registration fee by bank transfer, but only by credit card. Thank you for your understanding and cooperation.

Payments must be net of all charges and bank charges must be borne by the payer. **If you have not received your confirmation within five working days, please contact DIA.**

By signing below, I confirm that I agree with DIA's Terms and Conditions of booking. These are available from the office or on http://www.diaglobal.org/EUTerms

Date	Signature