



ERASMUS BIP program

Charles University, Czech Republic

Title:

Artificial intelligence (AI) in the Healthcare. Clinical Pharmacy and Optimization of Pharmacotherapy: New Advances in Research and Clinical Practice

Main organizer:



University Centre of Clinical Pharmacy, Faculty of Pharmacy, Charles University, Czech Republic
(see: www.faf.cuni.cz/uckf). Assoc. Prof. Daniela Fialová, PharmD, Ph.D. fialovad@faf.cuni.cz)

Other subjects professionally collaborating on the scientific program

Consortium of the I-CARE4OLD Horizon 2020 project (principle investigator: Prof. Hein van Hout and team), European Society of Clinical Pharmacy - ESCP (Research Committee (ReSCom) Chair: Prof. Martin Henman and collaborators; Special Interest Group (SIG) on Deprescribing, Chair: Prof. Stephen Byrne and collaborators), WP4 of the NETPHARM project (Chair: Assoc. Prof. D. Fialová and collaborators)



Participating ERASMUS Universities

Ghent University and Ghent University Hospital, Ghent, Belgium; University of Belgrade, Belgrade, Serbia; University of Zagreb, Zagreb, Croatia; Comenius University, Bratislava, Slovakia; University College Cork, Cork, Ireland; Trinity College Dublin, Dublin, Ireland; Lithuanian University of Health Sciences, Kaunas, Lithuania; D'Annunzio University of Chieti-Pescara, Chieti, Italy; Yeditepe University, Instambul, Turkey.



Professional program

Monday April 28th, 2025

Place: **Karolinum, Charles University**, small hall, 1st floor

Address: Ovocný trh 560/5, 110 00 Staré Město

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| 10:00- 10:30 | Welcome of the participants. Introduction to the Training School
Assoc. Prof. Daniela Fialová, Charles University, Czech Republic |
| 10:30- 11:30 | Clinical pharmacy medication reviews in complex older patients: current needs, future perspectives and possibilities or limits in using AI tools
Prof. Annemie Somers, Ghent University Hospital, Belgium |
| 11:30- 12:30 | Practicing complex medication reviews in geriatric patients using polypharmacy - medication risks and benefits, deprescribing- an interactive part |
| 12:30-13:30 | Lunch break |
| 13:30-14:30 | I-CARE4OLD Horizon 2020 project on AI/ML methods: aims, major outputs and impact
Prof. Hein van Hout, Amsterdam Medical Centre, Amsterdam |
| 14:30- 15:15 | How to write a European grant?
Prof. Hein van Hout, Amsterdam Medical Centre, Amsterdam |
| 15:15-15:30 | Coffee break |
| 15:30- 17:00 | How to use AI tools in grant/research proposal writing - practical part
Prof. Hein van Hout, Amsterdam Medical Centre, Amsterdam |
| 20:00 | Welcome dinner |

Tuesday April 29th, 2025

Place: **Karolinum, Charles University**, small hall, 1st floor

Address: Ovocný trh 560/5, 110 00 Staré Město

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| 9.00- 9:45 | New horizons in health statistics by using AI/ML methods
Prof. Mark Hoogendoorn, Vrije University, Amsterdam |
| 9:45- 10:45 | I-CARE4OLD H2020 project findings: the real impact of a new use of antipsychotics and discontinuation of antipsychotics in complex older adults
Prof. Rosa Liperotti, Universita Catolica del Sacro Cuore, Italy |
| 10:45-11:00 | Coffee break |
| 11:00- 11:45 | Testing real medication outcomes in clinically complex patients by ML/AI methods
Dr. Mikko Nuutinen, Nordic Healthcare Group, Finland |
| 11:45-12:45 | I-CARE4OLD H2020 project findings: the real impact of a new use of anticholinergics and discontinuation of anticholinergics in complex older patients
Assoc. Prof. Daniela Fialová, PharmD, Ph.D., Charles University, Czech Republic |
| 12:45-13:45 | Lunch break |
| 13:45-14:30 | Testing the real impact of non-pharmacological interventions in complex older adults- which problems we had to overcome?
Dr. Louk van Remmerden, Vrije University, Amsterdam |
| 14:30- 15:15 | I-CARE4OLD H2020 project findings: the real impact of psychotherapy and other non-pharmacological interventions in complex older patients
Assoc. Prof. Jitka Pokladníková, Ph.D., Charles University, Czech Republic |
| 15:15-15:30 | Short break |
| 15:30- 17:00 | How to conduct epidemiological outcome analyses on big data by using AI/ML methods? (practical training) <ul style="list-style-type: none">- for Pythone users: prof. Mark Hoogendoorn, Dr. Mikko Nuutinen and Dr. Louk van Remmerden- for no users of Pythone: prof. Rosa Liperotti, Assoc. Prof. Daniela Fialová, Assoc. Prof. Jitka Pokladníková |
| 17:00 | End of the day (free evening) |

Wednesday April 30th, 2025

Travels by train together from the Prague Main Train Station to Hradec Králové (train direction to: Hradec Králové, departure: 7:08)

Place of the meeting: Faculty of Pharmacy, Charles University in Hradec Králové, new campus, Aula A101

Address: Zborovská 2083, Hradec Králové 3, 500 03

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| 10:00- 10:30 | Welcome from the ESCP President: ESCP as an international society of clinical pharmacy - activities and support for national societies
Dr. Monika Lutters, ESCP president, Switzerland |
| 10:30- 11:00 | Research activities of the ESCP Research Committee
Prof. Martin Henmann, Chair of the ESCP Research Committee Chair, Ireland |
| 11:00- 11:30 | European randomized controlled trials in clinical pharmacy and new studies using AI methods
Prof. Stephen Byrne, Chair of the ESCP SIG Deprescribing, Ireland |
| 11:30- 12:00 | Coffee break |
| 12:00- 12:30 | Achievements in the development of clinical pharmacy in the Czech Republic- full-time positions in acute and ambulatory care, plans for provision of services in long-term care
speaker tbc |
| 12:30- 13:00 | MERIE AI support for clinical pharmacists – experiences from the Czech hospitals
speaker tbc |
| 13:00- 13:30 | Ceremonial event |
| 13.30- 14:30 | Lunch |
| 14:30- 15:30 | Meeting of the European training school participants with Czech students and clinical pharmacists
What is the work of clinical pharmacists in the Czech Republic?
Where I can use an expertise of a clinical pharmacist? |
| 15:30 | End of the visit, return to Prague, free evening |

Thursday, May 1st, 2025

Travels by train from Prague Main Train Station to Karlštejn (morning time to be specified)

Visit of the Summer Castle of the Charles the IVth called Karlštejn (10:00- 14:30), return to Prague 14:30

Afternoon program: Institute of Care for Mother and Child, small congress hall
Address: Podolské nábřeží 157, 147 00 Praha 4 – Podolí (tram 17, 2, 3 from the city centre)

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| 16:00- 16:30 | Experience of clinical pharmacists with tools helping to predict deliria in older patients
Dr. Monika Lutters, ESCP president, Switzerland |
| 16:30- 17:00 | Ethical issues to be considered when using AI tools in research and clinical practice
Prof. Martin Henmann, Chair of the ESCP Research Committee, Ireland |
| 17:00- 17:30 | Coffee break |
| 17:30- 18:30 | Presentation of students' research works - all participating University teams (part I.) |

Friday, May 2nd, 2025

Institute of Care for Mother and Child, small congress hall
Address: Podolské nábřeží 157, 147 00 Praha 4 – Podolí (tram 17, 2, 3 from the city centre)

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| 9:00- 10:30 | Presentation of students' research works - all participating University teams (part II.) |
| 10:30- 11.30 | Discussions on possible future collaborations |
| 11:30- 12:00 | Closing remarks |
| 12:00- 14:00 | Farewell lunch |