

ERS Research Seminar

Digital technologies to enhance respiratory medication adherence and outcomes: how to cost-effectively implement them in global respiratory care?

27 – 28 May 2022

Lisbon, Portugal

Friday, 27th May 2022

08.30 – 08.45 Arrival and registration

08.45 – 09.00 Welcome and opening

Session I: Harnessing digital health for supporting self-management: the clinical challenge

09.00 – 09.15 Overview: The clinical context: digital solutions to supporting self-management and promoting adherence

09.15 – 09.30 Digital monitoring of physiological disease parameters

09.30 – 09.45 Digital monitoring of environmental parameters: from pollen to pollution

09.45 – 10.00 Digital monitoring of medication usage: from smart pill bottles to smart inhalers

10.00 – 10.15 System challenges and goals of this seminar: a focus on digital medication adherence monitoring

10.15 – 10.45 Elevator pitches on real-life challenges related to digital adherence monitoring followed by plenary discussion – moderator

Pitches of 7 participants from different perspectives: GP, pulmonologist, nurse, pharmacist, paediatrician, industry, technological (3 minutes each)

10.45 – 11.15 *Coffee break*

11.15 – 12.00 Discussion forum 1/break outs: The digital adherence monitoring clinical interface - Key requirements for clinicians and the electronic medical record (EMR)

- Objectives – What is the aim, and what are the preferred outcomes? (adherence, control, QoL?)
- Digital health - What should we monitor? adherence, disease control, environmental factors?
- Diagnostics - What are the key adherence metrics to capture from electronic monitoring?

12.00 – 12.30 Presentation of break-out sessions and Joint discussion

12.30 – 13.30 *Lunch and posters viewing*

Session II: Harnessing digital health to enhance adherence: Patient perspectives on the challenges

- 13.30 – 14.15 Patients' views about using digital health in respiratory care
- 14.15 – 14.30 Oral presentation 1: selected from submitted abstracts
- 14.30-14.45 The use of digitally supported adherence in global respiratory guidelines: from COPD to TB and lung cancer
- 14.45 – 15.15 Discussion forum 2
- Electronic medication use monitoring and support- Key requirements for the patient
- 15.15 – 15.45 *Coffee break*

Session III: Harnessing digital health to enhance adherence: Regulator and payer perspectives

- 15.45 – 16.00 European Medicines Agency
- 16.00 – 16.15 Oral presentation 2: selected from abstracts
- 16.15 – 16.30 How will we pay for adherence enhancing digital health?: HMO models and a cost-effectiveness perspective
- 16.30 – 17.00 Discussion forum 3
- Achieving regulator and payer requirements
- 17.00– 18.30 *Freshen up/pre-dinner drinks*
- 18.30 *Dinner*

Saturday, 28th May 2022

Session IV: Technological challenges: towards a common data platform and EMR integration

- 08.30 – 08.45 Oral presentation 3: selected from abstracts
- 08.45 – 09.00 Towards a common data model: what can we learn from big data harmonization initiatives on the European level? Including regulatory issues for secondary use of data
- 09.00 – 09.15 Integration of electronic monitoring data in EMRs
- 09.15 – 10.00 Industry perspective and challenges (panel discussion with diverse industry representatives)
- 10.00 – 10.45 3 Breakout sessions (with input from invited pharma and technology industry stakeholders)
- How to harmonise the digital health clinical interface while incorporating ongoing adherence metrics research?
 - How to harmonise electronic monitoring outputs while promoting commercial innovation and diversity?
 - How to harmonise digital health data download while regulating data protection, privacy and ownership?
- 10.45 – 11.15 *Coffee break*

11.15 – 11.45 Breakout presentations and joint discussion (with input from invited pharma and technology industry stakeholders)

Session V: Harnessing technology to enhance adherence: Strategic planning

11.45 – 12.45 Discussion forum 4

- Drafting the initial roadmap for future actions and planning of seminar outputs

12.45 – 13.00 Conclusions and closing remarks

13.00 *Lunch and departure*