

THURSDAY NOVEMBER 14 (pre-conference educational day)

Parallel morning sessions:

08.00

Opening of the registration desk

10.00-12.00

Workshop 1: Introduction to statistical methods for longitudinal analysis of adherence data

Moderators: Bernard Vrijens and Eric Tousset

Objective: Based on concrete case studies, illustrate&brainstorm about appropriate statistical methods for analyzing adherence related data. Time will however not allow for hands on and software coding.

- Longitudinal description of adherence depicted in the 3 elements of adherence
- Between-group comparisons of the 3 elements of adherence
- Modeling Adherence as an outcome variable
- Comparison between adherence measures
- Dosing history data as input to models of pharmacokinetics (PK)/ pharmacodynamics (PD)
- Association between adherence and outcomes of treatment
- Causation from external drug exposure to outcome
- M&S based on adherence data (re-sampling vs 2 coins model vs more complex models)
- Impact of the foregoing on drug development

Learning methods: presentations, case studies, brainstorming

Bibliography: each published case study will be sent to the participants one week prior to the workshop

09.00-12.00

Workshop 2: Introduction to patient adherence for the Central and East European Countries

09.00-09.05

Welcome&presentation of the aims and agenda of the workshop + short survey for the workshop participants (Judit Simon)

09.05-09.35

ABC of non-adherence to medication: basic concepts, prevalence, reasons, and consequences (Przemyslaw Kardas)

09.35-10.00

Non-adherence in Central and Eastern Europe (Judit Simon&Przemyslaw Kardas)

10.00-10.15

Patients perspective of non-adherence in Central and Eastern Europe (Szymon Chrostowski, Fundacja “Wygrajmy Zdrowie” (Foundation “let’s win the Health”))

10.15-10.40

Introduction of pharmaceutical care guideline in Hungary in order to manage patient adherence (Ildiko Csoka, Delegate of Hungarian Chamber of Pharmacists, Head of Hungarian National Committee of Pharmaceutical Care)

10.40-11.20

Changing Models in the Medical Communication (György Purebl, associate professor and deputy director of Institute of Behavioural Sciences, Semmelweis University)

11.20-11.50

Patient adherence in diabetes (Tibor Hidvégi, Secretary General of Hungarian Diabetes Association)

11.50-12.00

Presentation of the survey results, conclusions and closing remarks (Judit Simon)

12.00-13.00

Lunch

13.00-19.00

Workshop 3: Medication Adherence interventions: translating the state of art evidence in to your daily clinical practice

Moderators: [Sabina De Geest](#), PhD, RN (University of Basel, Switzerland&KU Leuven, Belgium) [Martha Hill](#), PhD, RN (Johns Hopkins University, Baltimore, USA)

Faculty: [Hayden Bosworth](#), PhD, Duke University (USA), [Sabina De Geest](#), PhD, RN (University of Basel, Switzerland&KU Leuven, Belgium), [Martha Hill](#), PhD, RN (Johns Hopkins University, Baltimore, USA, [Marie Schneider](#), PhD, RPh, University of Lausanne&Geneva (CH), [Liset Van Dijk](#), PhD, NIVEL (NL).

Introduction: Medication non-adherence is a major public health problem negatively impacting clinical and economical outcomes. The state of science in view of adherence interventions is steadily growing I view of randomized clinical trials, systematic literature reviews and meta-analyses. Whereas most tested adherence interventions have targeted the patient level, it is recognized in order to effectively tackle medication non-adherence, that multi-level interventions are needed. Multi-level interventions refer to targeting not only patients yet also health care workers (micro level) (e.g. communication style; competencies for behavioral change management), the organization of care processes (meso level) (e.g. continuity of care; continuous behavioral assessments integrated as part of follow up) and/or health care system (e.g. medication coverage). Health care technology is increasingly used as part of adherence enhancing interventions (e.g. electronic monitoring feedback, reminder

systems). Translating the state of evidence regarding adherence enhancing interventions into daily clinical practice remains nevertheless a major challenge.

This workshop has following goals:

- To discuss multi-level medication adherence interventions.
- To present case studies of adherence interventions implemented in daily clinical practice with or without the use of health care technology.
- To reflect and discuss the use and implementation of medication adherence interventions in your daily clinical practice.

Learning methods: presentations, case studies, group work, discussion round

Bibliography: will be sent to the participants the beginning of November.

All participants need to print out the materials themselves as no hard copies will be provided at the conference!!

13.00-13.20

Welcome and review of workshop program (Sabina De Geest, Martha Hill)

Each of faculty presents him/herself. Participants are invited to communicate his/her expectations/goals for the workshop.

13.20-14.00

Multi-level medication adherence interventions: State of science (Martha Hill)

Goal: to explain multilevel perspective and exemplify each level with evidence

14.00-14.30

How to communicate clearly what we are doing in research and practice? Use of behavioral taxonomies for adherence enhancing interventions (Sabina De Geest)

Goal: to introduce Michie et al.'s Behavioral Change Technique Taxonomy V1 to describe and communicate components of interventions and to showcase the link with behavioural theory (Michie et al. Ann. Beh. Med., 2013)

14.30-15.10

Group work:

All participants - 5 groups: max 10 persons per group (a faculty member will be part of each group)

Discussion of perceived/experienced valuable intervention(s), barriers and facilitators in the implementation and sustainability of adherence interventions in the daily clinical practice.

- Each table receives a chart with different levels to note interventions, barriers facilitators.

- Findings are synthesized during break , printed out and distributed to participants for further group work

15.10-15.30

Coffee Break

15.30-16.10

Translation of medication adherence intervention in practice: from efficacy to effectiveness (Hayden Bosworth)

Goal: to discuss criteria to identify potential successful research projects to be scaled up into implementation. To highlight methods to scale and evaluate the implementation of medication adherence programs.

16.10-17.10

Case studies 15'+5' per case study (Liset van Dijk, Marie Schneider, Hayden Bosworth)

Goal of the case studies is to provide examples from real life.

The presenters will:

- highlight at which level(s) the adherence intervention(s) was/were implemented
- use the Michie et al.'s Behavioral Change Technique Taxonomy V1 to describe the content of the intervention(s).
- make links with behavioral theory where relevant.
- highlight use of health care technology yet also position this using Michie et al.'s Behavioral Change Technique Taxonomy V1.
- describe barriers and used strategies for implementation and/or sustainability of the intervention.
- report outcomes if they are available.

1. Implementation of real time medication monitoring in Dutch community pharmacies: a challenge (Liset van Dijk)

2. A pharmacist-led adherence clinic as part of the outpatient department of the University Hospital of Lausanne (Marie Schneider)

3. Medicaid adherence program for hypertension (Hayden Bosworth)

17.10-17.30

Break

17.30-18.10

Group work (All participants 5 groups: max 8-10 persons per group moderated by faculty member- Each group has a reporter for the group discussion)

Discussion of findings of 1st group work in light of the presented theory and case studies (synthesis notes 1st group work will be provided to all groups)

- What are strategies / interventions which you deem to be valuable for your practice setting/patient population?

- How do you plan to tackle the issues you anticipate to encounter in your practice setting for implementing these strategies?
- What do you see as first step to be successful in the implementation of change in your context?

18.10-18.50

Discussion round: group work (Martha Hill, Marie Schneider, Liset van Dijk, Hayden Bosworth, Sabina De Geest)

Faculty and other participants participate actively in the discussion Identifying common themes and strategies

18.50-19.00

Evaluation of workshop and conclusion (Martha Hill, Sabina De Geest)

- Review of the goals of the workshop
- What was appreciated? What was less valuable?
- Which content has not been covered that could be integrated in a similar workshop at the next year's ESPACOMP conference in Lausanne (CH)?
- What should be the emphasis / priorities for research from your perspective?

19.00-20.00

Drinks

FRIDAY NOVEMBER 15

08.00

Opening of the registration desk

09.15-09.30

Welcome

09.30-10.15

Why is patient adherence getting so much attention lately?

Chairs : Judit Simon&Bernard Vrijens

09.30-10.00

Key lecture

European innovation for adherence to treatment ([Read abstract](#))

[Orsi Nagy](#) (Policy Officer, DG Health and Consumers, European Commission)

10.00-10.15

Selected abstract (Francesco Mennini)

Cost of poor adherence to anti-hypertensive therapy in Europe

10.15-10.45
Coffee break

10.45-12.30

Key lecture and selected abstracts

Measurement and determinants of the three elements of patient adherence to medications: initiation, implementation, and discontinuation

Chairs: Judit Simon&Monique Elseviers

10.45-11.30

Jean-Michel Métry Memorial Lecture: Robert Vander Stichele (Ghent University, Belgium)

11.30-11.45

Oral presentation of selected abstract 1 (Liset van Dijk)

Validation of the Dutch 9-item medication adherence report scale for asthma (MARS) with Electronic Monitoring data in children using inhaled corticosteroids

11.45-12.00

Oral presentation of selected abstract 2 (Ian Kronish)

Impaired Executive Functioning is Associated with Poor Adherence to Antihypertensive Medications

12.00-12.15

Oral presentation of selected abstract 3 (Yoleen van Camp)

Adherence to phosphate binders in haemodialysis patients: prevalence and determinants

12.15-12.30

Oral presentation of selected abstract 4 (Marie-Paule Schneider)

A dynamic assessment of medication-taking behavior during pregnancy and postpartum: should cART adherence be reinforced during postpartum?

12.30-13.30

Lunch break combined with poster session

13.15-14.00

Poster session

Conveners: Monique Elseviers&Juliet Foster

14.00-15.30

Key lecture and selected abstracts

International initiatives towards adherence-related quality/performance metrics used within the healthcare industry

Chairs: Harm Geers&Przemyslaw Kardas

14.00-14.30

Key lecture

The Impact of Quality Measures of Adherence on the US Healthcare Marketplace ([Read abstract](#))

[Samuel Stolpe](#) (Associate Director, Quality Initiatives Pharmacy Quality Alliance, Inc.)

14.30-14.45

Oral presentation of selected abstract 1 (Isabelle Arnet)

A method for calculating adherence to polymedication from dispensing data

14.45-15.00

Oral presentation of selected abstract 2 (Jacqueline Hugtenburg)

Depression and anxiety as risk factors of medication non-adherence

15.00-15.15

Oral presentation of selected abstract 3 (Anna Kristina Jönsson)

A tablet a day or a tablet a week- does it affect refill adherence to bisphosphonates in Sweden?

15.15-15.30

Oral presentation of selected abstract 4 (Bernard Vrijens)

Projected inhibition of platelet aggregation with Ticagrelor BID versus Clopidogrel QD based on patient adherence data (the TWICE project)

15.30-16.00

Coffee break

16.00-17.30

Key lecture and selected abstracts

Efficacy and effectiveness of medication adherence interventions

Chairs: Rob Heerdink&John Urquhart

16.00-16.30

Key lecture

Adherence to HIV treatment: where are we now? Cascades, MAPS and MEMS!

[David White](#) (Clinical Lead for GU Medicine, Birmingham Heartlands hospital)

16.30-16.45

Oral presentation of selected abstract 1 (Mathieu Verbrugghe)

Adherence in patients taking oral anticancer drugs: results of a qualitative study

16.45-17.00

Oral presentation of selected abstract 2 (Hans Wouters)

Primary care patients' trade-off preferences with regard to antidepressants

17.00-17.15

Oral presentation of selected abstract 3 (Marcel Kooy)

Does counseling by telephone improve patients perceptions on medication and pharmaceutical care? The results of a cluster randomized controlled trial

17.15-17.30

Oral presentation of selected abstract 4 (Eline Tommelein)

Pharmaceutical care for patients with COPD (PHARMACOP-Trial): focus on adherence outcomes

17.30-18.30

ESPACOMP board meeting

19.00

Evening dinner: Cruise on the Danube with dinner

Venue: Boat Primus

Dock: short walking distance from the hotel

The participation is included in the registration fees. The trip will take approximately 2 hours.



SATURDAY NOVEMBER 16

08.00

Opening of the registration desk

09.00-10.30

Key lecture and selected abstracts

Use of claims databases or electronic medical records in adherence research

Chair: Sabina de Geest&Marie-Paule Schneider

09.00-09.30

Key lecture

Translating efficacious adherence interventions into practice: challenges and solutions

[Hayden Bosworth](#)

09.30-09.45

Oral presentation of selected abstract 1 (Eric Tousset)

Illustration of the combined effect of patient's adherence and individual biological characteristics on blood pressure

09.45-10.00

Oral presentation of selected abstract 2 (Przemyslaw Kardas)

Adherence and persistence to inhaled corticosteroids correlate with asthma severity

10.00-10.15

Oral presentation of selected abstract 3 (Karolina Andersson Sundell)

Effects of generic substitution on refill adherence to statin therapy

10.15-10.30

Oral presentation of selected abstract 4 (Majken Linnemann Jensen)

Patient characteristics associated with poor adherence to medication and discontinuation of medication therapy in type 2 diabetes

10.30-11.00

Coffee break

11.00-12.00

Best abstracts selection

Chairs: Dora-Agnes Berend& Marcel Bouvy

11.00-11.20

Oral presentation of selected abstract 1 (Juliet Foster)

Inhaler reminders and personalised adherence discussions for improving adherence and asthma control in primary care

11.20-11.40

Oral presentation of selected abstract 2 (Dana Tiggelman)

Does parental asthma-management influence adolescents' medication adherence?

11.40-12.00

Oral presentation of selected abstract 3 (Barbara Gresch)

Medication nonadherence in long-term survivors taking immunosuppressants after allogenic hematopoietic stem cell transplantation (PROVIVOMed): a multicenter cross-sectional study

12.00-12.30

Key lecture

Adherence management through integrated e-health approaches

Chair: Liset van Dijk

12.00-12.30

Tailored clinical eHealth interventions ([Read abstract](#))

[Sandra van Dulmen](#)

POSTER PRESENTATIONS

- P-01 ASSOCIATION OF MEDICATION ADHERENCE AND QUALITY OF LIFE IN PATIENTS WITH COPD
Tamás Ágh, Ágnes Mészáros
- P-02 DEVICE FOR MULTI-DOSE DRUG DISPENSING WITH REAL-TIME ELECTRONIC MONITORING: A QUALITATIVE ASSESSMENT IN AMBULATORY PATIENTS
Samuel Allemann, Kurt E. Herberger, Isabelle Arnet
- P-03 A MODEL-BASED META-ANALYSIS TO DETERMINE THE INDEPENDENT INFLUENCE OF FACTORS THAT IMPACT ADHERENCE USING ELECTRONIC MONITORING DATA
Piyanan Assawasuwannakit, Rhiannon Braund, Stephen B Duffull
- P-04 A CASE OF NEO ADHERENCE TO MEDICATIONS IN AN ASTHMATIC PATIENT
Saida Bensliman, Marc Tomas
- P-05 MEDICATION ADHERENCE IN CHRONIC MYELOID LEUKEMIA AND PATIENTS' NEED FOR INFORMATION
Christel Boons, Lonneke Timmers, Jeroen Janssen, Jan de Jong, Eleonora Swart, Jacqueline Hugtenburg
- P-06 PILOT RANDOMIZED-CONTROL TRIAL TO ASSESS THE EFFECT PRODUCT SAMPLING HAS ON ADHERENCE USING ADAPALENE/BENZOYL PEROXIDE IN ACNE PATIENTS
Scott Davis
- P-07 NON-ADHERENCE AND ITS DETERMINANTS IN HIV PATIENTS
Degroote Sophie, Vogelaers Dirk, Vermeir Peter, Mariman An, De Rick Ann, Van Der Gucht Beatrijs, Van Wanseele Filip, Pelgrom Jolanda, Vandijck Dominique
- P-08 DETERMINANTS OF ADHERENCE TO INHALED CORTICOSTEROIDS IN ASTHMATIC ADULTS: A SYSTEMATIC REVIEW OF OBSERVATIONAL STUDIES
Alexandra Dima, Oriol Cunillera, Gimena Hernandez, Marijn de Bruin, and the ASTRO-LAB group
- P-09 FACTORS ASSOCIATED WITH PATIENT NON-ADHERENCE TO ANTIRETROVIRAL THERAPY AMONG HIV-1 INFECTED ADULTS
Milene Fernandes, João Marques, Rui Simões, Luís Caldeira, Emília Valadas, Paulo Jorge Nicola, Ana Paula Martins, Vasco Maria
- P-10 RELATIONSHIP BETWEEN ILLNESS PERCEPTION AND ADHERENCE OF DIABETES OUTPATIENTS IN JAPAN
Sora HASHIMOTO
- P-11 REFILL ADHERENCE AND SELF-REPORTED ADVERSE DRUG REACTIONS AND SUB-THERAPEUTIC EFFECTS: A POPULATION-BASED STUDY
Hedna Khedidja, Staffan Hägg, Karolina Andersson Sundell, Max Petzold, Katja.M. Hakkarainen

- P-12 INFLUENCE OF DEPRESSION AND ANXIETY ON MEDICATION COMPLIANCE OF DIALYSIS PATIENTS IN COMPARISON TO LIVER CIRRHOSIS PATIENTS
Rita Marina Heeb, Irene Krämer
- P-13 ASSOCIATION BETWEEN GENERIC SUBSTITUTION AND REFILL ADHERENCE TO ACE-INHIBITORS - ANALYSING THE IMPACT OF CONCURRENT USE OF MULTIPLE MEDICATIONS
Jonsson Pernilla, Jönsson Anna, Mårdby Anne-Charlotte, Lesen Eva, Andersson Sundell Karolina
- P-14 OPPORTUNITIES FOR SCREENING FOR PRIMARY NON-ADHERENCE IN POLAND DUE TO COUNTRYWIDE ELECTRONIC PRESCRIPTION, AND ELECTRONIC PATIENT RECORD SYSTEMS
Irena Mlynarska, Marcin Kedzierski, Kardas Przemyslaw
- P-15 ATTITUDES TOWARDS MEDICATION USE IN A GENERAL POPULATION OF ADOLESCENTS
Ellen S. Koster, M. L. Bouvy, C. Hakkers, T. Hosman, L. Nelemans, E. R. Heerdink
- P-16 MEDICATION ADHERENCE IN ADOLESCENT ASTHMATICS
Ellen S. Koster, Nina A. Winters, Marcel L. Bouvy
- P-17 PATIENTS ENGAGEMENT FROM THE PATIENTS' EYES: A DYNAMIC EXPERIENTIAL MODEL
Isabella Cecchini, Guendalina Graffigna, Zoltan Lantos
- P-18 PATIENT ENGAGEMENT IS DETERMINED BY PERSONAL HEALTH ENERGY LEVEL – DESCRIPTION OF PUBLIC HEALTH SEGMENTS
Zoltan Lantos, Isabella Cecchini, Guendalina Graffigna
- P-19 THE RELIABILITY OF ADHERENCE TO MEDICATION SELF-REPORTING SCALES
Josip Culig, Marcel Leppée, Borna Culig
- P-20 THE VALUE OF TAILORED COMMUNICATION IN DISCUSSING MEDICINES: THE RELATION BETWEEN COMMUNICATION AND BELIEFS
Annemiek J. Linn, Julia C.M. van Weert, Liset van Dijk, Rob Horne, Edith G. Smit
- P-21 ADHERENCE MEASUREMENT OF RHEUMATOID ARTHRITIS PATIENTS USING SUBCUTANEOUS METHOTREXATE
Kerstin Maiwald, Irene Krämer
- P-22 GENETIC COUNSELLING AS A TOOL FOR IMPROVING MEDICATION ADHERENCE IN HYPERTENSION PATIENTS.
Ülle Helena Meren, Helene Alavere, Krista Fischer, Liis Leitsalu-Moynihan, Marika Tammaru, Daisy Volmer
- P-23 IMPLEMENTATION OF AN ELECTRONIC MEDICATION SUPPORT SYSTEM IN DANISH HOME CARE – A COLLABORATION BETWEEN PHARMACY AND MUNICIPAL HOME CARE SYSTEM
Pernille Dam Naumann, Charlotte Rossing, Hanne Herborg, Sanne Hansen
- P-24 DEVELOPMENT OF A QUESTIONNAIRE TO PREDICT ADHERENCE TO DMARD THERAPY IN NEWLY DIAGNOSED POLYARTHRITIS PATIENTS : A STUDY PROTOCOL

- Annelieke Pasma, Adriaan van 't Spijker, Jan J.V. Busschbach, Johanna M.W. Hazes
- P-25 RATIONALE, STUDY DESIGN AND INTERIM DATA FROM THE ALIGN STUDY: A MULTI-COUNTRY, CROSS-SECTIONAL, EPIDEMIOLOGICAL STUDY EVALUATING BELIEFS AND CONCERNS ABOUT SYSTEMIC MEDICATION IN 6 CHRONIC INFLAMMATORY DISEASES
Pierre Michetti, John Weinman, Ulrich Mrowietz, Josef Smolen, Dieter Schremmer, Jingdong Chao, Fabrice Gillas, Nicole Selenko-Gebauer
- P-26 PATIENTS' PERSPECTIVES ON ADHERENCE TO INTRAVENOUS HOME TREATMENT IN HAEMOPHILIA: A GROUNDED THEORY APPROACH
Schrijvers Liesbeth, Kars Marijke, Beijlevelt – van der Zande Marlène, Peters Marjolein, Schuurmans Marieke, Fischer Kathelijn
- P-27 DEPRESSIVE SYMPTOMS, HEALTH LITERACY, SELF-EFFICACY, AND ADHERENCE TO GLAUCOMA MEDICATIONS
Betsy Sleath, Susan Blalock, Delesha Carpenter, Kelly Muir, Alan Robin
- P-28 PHARMACISTS' INTERVENTION TO IMPROVE MEDICATION ADHERENCE IN ASTHMA/COPD PATIENTS
Tadic Ivana, Simisic Mika, Crnjanski Tatjana, Rudinski Svetlana
- P-29 ADHERENCE AND PATIENTS' EXPERIENCES WITH THE USE OF ERLOTINIB IN DAILY PRACTICE
Lonneke Timmers Christel C.L.M. Boons, Josee Moes-ten Hoven, Peter M. van de Ven, Eleonora L. Swart, Egbert F. Smit, Epie Boven, Jacqueline G. Hugtenburg
- P-30 PERSISTENCE TO ORAL BISPHOSPHONATES IN PORTUGUESE WOMEN WITH POSTMENOPAUSAL OSTEOPOROSIS (PMO): 18-MONTH RESULTS
Carla Torre, José Guerreiro, Zilda Mendes, Ana Miranda, Helena Canhão, Jaime Branco, Manuela Machado, I Ferreira, M Feudjo-Tepie, Joaquim Cristino
- P-31 NARRATIVE REVIEW OF THE LAST FIVE YEAR'S QUALITATIVE STUDIES ON MEDICATION ADHERENCE
Yoleen PM Van Camp, Hilde Bastiaens, Paul Van Royen, Etienne Vermeire, Bart Van Rompaey en Monique Elseviers
- P-32 EFFECT OF TYPE D PERSONALITY ON MEDICATION ADHERENCE IN EARLY ADOLESCENTS WITH ASTHMA
Monique van de Ven, Cilia Witteman, Dana Tiggelman
- P-33 VARIATION IN ADHERENCE BETWEEN PHARMACIES
Marcia Vervloet, Christel van Dijk, Fabienne Griens, Liset van Dijk
- P-34 EFFECTIVENESS OF A GROUP-BASED INTERVENTION TO IMPROVE MEDICATION BELIEFS AND ADHERENCE IN NON-ADHERENT PATIENTS WITH RHEUMATOID ARTHRITIS: A RANDOMIZED CONTROLLED TRIAL
Hanneke Zwikker, Cornelia van den Ende, Wim van Lankveld, Alfons den Broeder, Frank van den Hoogen, Birgit van de Mosselaar, Sandra van Dulmen, Bart van den Bemt