EuroDURG Conference 2023
Sustainability of drug use: equity and innovation

BOOKLET
Dear friends and colleagues,

On behalf of the Scientific and Local Organising Committees we welcome you to Bologna, Italy, for our EuroDURG Scientific Meeting.

Our conference theme is “Sustainability of drug use: equity and innovation”.

EuroDURG, the European Branch of the ISPE Special Interest Group for Drug Utilisation Research, has a long tradition of arranging scientific meetings focusing on quality use of medicines. We have now planned an attractive, interactive educational and scientific programme reaching out to our networks both in Europe and globally. The conference begins with a half day of educational sessions, followed by a dynamic range of plenary sessions on sustainable use of medicines, globalization of medicine use as well as unmet needs in drug utilisation. There are also dedicated presentations and workshops on e.g. patient perspectives on drug utilisation, impact of Covid-19 on drug utilisation, use of eHealth and artificial intelligence in drug utilisation data generation and analysis, cross-national comparisons, polypharmacy and deprescribing. A special focus will also be dedicated to medication adherence in collaboration with the COST Enable project who will organize a three-day training school on medication adherence prior to the conference.

We have a long tradition of combining high-level scientific content with social activities to support networking with new and old friends and colleagues. This summer, we have the pleasure to do this in the historical city of Bologna, the place of the first European university.

A warm welcome to Bologna

Björn Wettermark  
Chair, Scientific Organising Committee

Elisabetta Poluzzi  
Chair, Local Organising Committee

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**Welcome Ceremony - 27 June at 7 pm**  
15 minutes walking distance from the venue (1.2 km)

**Smatinée, Breakfast at the Museum - 29 June at 6.30 am**  
6 minutes walking distance from the venue (500m)

**Gala Dinner - 29 June at 8 pm**  
12 minutes walking distance from the venue (950 m)
### TUESDAY 27 JUNE

**EDUCATIONAL SESSIONS**
- **T-ES1** Introduction to DUR
  - Room A
  - Bldg. A
- **T-ES2** Qualitative/quantitative mixed methods
  - Room C
  - Bldg. A
- **T-ES3** Adherence I (in collaboration with ENABLE)
  - Room B
  - Bldg. A

**Welcome to the educational sessions** (2.00 pm)
- Room A
  - Bldg. A

### WEDNESDAY 28 JUNE

**SCIENTIFIC PROGRAM PART I**
- **WELCOME PLENARY 1:** Sustainability of drug utilizations – economic, social and environmental aspects
  - Room A
  - Bldg. A

**Coffee break**

**SCIENTIFIC PROGRAM PART II**
- **W-KL1/OC1** Medication adherence
  - Room A
  - Bldg. A
- **W-KL2/OC2** Impact of COVID-19 on DU
  - Room B
  - Bldg. A

**Poster Session I**
- **Hallway Ground Floor Bldg. A**
  - Room A
  - Bldg. A
  - Room C
  - Bldg. A
  - Room Q
  - Bldg. A

**Lunch**

### THURSDAY 29 JUNE

**SCIENTIFIC PROGRAM PART III**
- **T-KL5/OC3** Cross-national comparisons
  - Room B
  - Bldg. A
- **T-KL6/OC4** Drugs & Environment
  - Room C
  - Bldg. A
- **T-KL7/OC5** Methodological challenges in DUR
  - Room A
  - Bldg. A

**Coffee break**

**SCIENTIFIC PROGRAM PART IV**
- **PLENARY 2:** Globalization of medicines use - Advances in DUR across the globe
  - Room A
  - Bldg. A

**Poster Session II**
- **Hallway Ground Floor Bldg. A**
  - Room A
  - Bldg. A
  - Room P
  - Bldg. A
  - Room Q
  - Bldg. A

**Coffee break**

### FRIDAY 30 JUNE

**SCIENTIFIC PROGRAM PART V**
- **F-OC8** DUR in specific therapeutic areas
  - Room A
  - Bldg. A
- **F-OC9** Different roles of DUR in health policy
  - Room B
  - Bldg. A
- **F-OC10** DUR and safety
  - Room C
  - Bldg. A

**Coffee break**

**Legend**
- **ES** educational session
- **KL** key lecture
- **OC** oral communication
- **WS** workshop

**DU(R) drug utilizations (research)**
- **QIs** quality indicators
- **AI** artificial intelligence
- **PROM** patient reported outcome measure

**EuroDURG Gala Dinner**
Tuesday June 27th

12.30 pm | Hallway Building A
Registrations

2.00 pm | Room A – Building A Ground Floor
Welcome to the educational sessions

2.15 – 3.45 pm | Room A – Building A Ground Floor
**T-ES1**
INTRODUCTION TO DUR
Special focus on classification systems and measurement units
Trainer: Hege Salvesen Blix

2.15 – 3.45 pm | Room C – Building A First Floor
**T-ES2**
QUALITATIVE/QUANTITATIVE MIXED METHODS
The added value of doing mixed methods research
Trainers: Petra Denig, Lisa Pont

2.15 – 3.45 pm | Room B – Building A First Floor
**T-ES3**
ADHERENCE I (in collaboration with ENABLE)
Medication adherence technologies – opportunities to measure adherence in drug utilisation research
Trainers: Monique Elseviers, Enrica Menditto, Cristina Ghiciuc

4.15 – 5.45 pm | Room A – Building A Ground Floor
**T-ES4**
CRITICAL APPRAISAL OF STATISTICS IN DUR
Trainers: Monique Elseviers, Mina Tadrous

4.15 – 5.45 pm | Room C – Building A First Floor
**T-ES5**
LONGITUDINAL DU STUDIES
Trainers: Amanj Kurdi, Per-Jostein Samuelsen, Björn Wettermark

4.15 – 5.45 pm | Room B – Building A First Floor
**T-ES6**
ADHERENCE II (in collaboration with ENABLE)
Medication adherence technologies – research designs on effectiveness and safety
Trainers: Elisabetta Poluzzi, Carlotta Lunghi, Janette Ribaut

Wednesday June 28th

9.00 – 10.30 am | Room A - Building A Ground Floor
**Conference Welcome**
Elisabetta Poluzzi, Chair of the local committee
Björn Wettermark, Chair of the scientific committee

**PLENARY 1**
SUSTAINABILITY OF DRUG UTILISATION - ECONOMIC, SOCIAL, AND ENVIRONMENTAL ASPECTS
Chairs: Sabine Vogler, Fabrizio de Ponti
Keynote Lecturers: Giampiero Mazzaglia, Aukje Mantel-Teeuwisse, Marmar Nekoro

11.00 am – 12:30 pm | Room A - Building A Ground Floor
**W-KL1/OC1**
MEDICATION ADHERENCE
Chairs: Gabriel Sanfélix-Gimeno, Enrica Menditto
Keynote Lecturer: Alexandra L. Dima
Oral Contributions
• Laura Mortelmans, Evaluation of methods measuring medication adherence in patients with polypharmacy: a longitudinal and patient perspective.
• Lynn Elsev, Digital Adherence Monitoring of Controller Therapy among Patients with Severe Asthma enrolled in a 6-month Service Evaluation.
• Marie Ekenberg, Socioeconomic factors associated with low initiation rates of treatment for patients with type 2 diabetes.
• Sara Mucherino, Medication Adherence Trajectories to Oral Antidiabetics and Clinical Outcomes in Type2 Diabetic Patients.

11.00 am – 12:30 pm | Room B - Building A First Floor
**W-KL2/OC2**
IMPACT OF COVID-19 ON DU
Chairs: Ana Tomas Petrović, Francesco Trotta
Keynote Lecturer: Mina Tadrous
Oral Contributions
• Helga Hambalek, Impact of COVID-19 pandemic on national outpatient antibiotic use.
Wednesday June 28th

1.30 – 2.15 pm | Room A - Building A Ground Floor
THE VALUE OF THE PATIENT PERSPECTIVE IN DUR
Chair: Anna Birna Almarsdóttir
Keynote Lecturer: Tommasina Iorno

1.30 – 2.15 pm | Room B - Building B First Floor
eHEALTH, DIGITALIZATION AND DRUG UTILISATION RESEARCH
Chairs: Seán MacBride-Stewart, Katarina Gvozdanović
Keynote Lecturers: Lorenzo Chiari

2.15 – 3.45 pm | Hallway - Building A Ground Floor
Drug utilisation research and safety - Quality of medicine use
| Corridor - Building B Ground Floor
Late breaking contributions
| Room P - Building B Ground Floor
Specific therapeutic areas (cardiovascular, cancer, antibiotics etc.)
| Room Q - Building B Ground Floor
Specific therapeutic areas (cardiovascular, cancer, antibiotics etc.) - Specific populations (age and gender differences, socio-economic impact on drug utilisation, etc.)

4.15 – 5.45 pm | Room A - Building A Ground Floor
QUALITY INDICATORS AND SUSTAINABLE DRUG UTILISATION
Facilitators: Björn Wettermark, Indrė Trečiokienė, Kristina Garuoliene

4.15 – 5.45 pm | Room B - Building A First Floor
OUTCOME MEASURES IN STUDIES ON THE QUALITY OF (DE)PRESCRIBING IN OLDER PEOPLE
Facilitators: Lisa Pont, Petra Denig, Monique Elseviers

Thursday June 29th

9.00 – 10.30 am | Room B - Building A First Floor
OPPORTUNITIES AND CHALLENGES FOR COMPARISON OF DRUG UTILISATION ACROSS COUNTRIES
Chairs: Luciane Cruz Lopes, Seán MacBride-Stewart
Keynote Lecturer: Monique Elseviers, Indrė Trečiokienė

Oral Contributions
- Alva Gyllenhammar, Utilisation of opioids in Sweden and Lithuania – A cross-national comparison.
- Carlotta Lunghi, Prevalence of antidepressant drugs utilisation among adults and older adults: results from a systematic review and meta-analysis.
- Ippazio Cosimo Antonazzo, Essential Tremor and medications use: a retrospective cohort study by using UK and France primary care data.

9.00 – 10.30 am | Room C Building A First Floor
DRUGS & ENVIRONMENT
Chairs: Tanja Mueller, Francesco Barone Adesi
Keynote Lecturer: Marmar Nekoro

Oral Contributions
- Agnese Cangini, The antibiotics consumption in Italy according to the AWaRe Classification.
- Johanna Villén, Environmental burden and utilisation of analgesics around Lake Mälaren, Sweden’s largest drinking water source.
- Valentina Giunchi, Assessing environmental risks of pharmaceuticals included in the European Watch List using drug utilisation data.
- Abdullah Jazzaa, To which extent are future doctors and pharmacists in Sweden educated about the environmental impact of pharmaceuticals?

9.00 – 10.30 am | Room A - Building A Ground Floor
METHODOLOGICAL CHALLENGES IN DUR: ITALIAN INPUTS
Chairs: Hege Salvesen Blix, Rosa Gini
Keynote Lecturer: Giuseppe Roberto

Oral Contributions
- Sabrina Giometto, Adherence to riluzole therapy in patients with Amyotrophic Lateral Sclerosis in three Italian regions - The CAESAR study.
- Alessandro Rosa, Implementation of a novel approach to monitor exposure to lifelong therapies: the use of state sequence analysis (SSA) to assess maintenance immunosuppressive therapies after solid organ transplantation.
- Ylenia Ingrasciotta, Comparison of biological drug use for the treatment of immune-mediated inflammatory diseases in pivotal clinical trials vs. real-world setting: an Italian population-based study from the VALORE project.
- Giorgia Pellegrini, Adherence trajectories to biological treatments in patients with inflammatory bowel diseases: a pilot study from Sicily region.
11.00 am – 12.30 pm | Room A - Building A Ground Floor

DEPRESCRIBING: GUIDELINES, IMPLEMENTATION AND DUR
Chairs: Anna Birna Almarsdóttir, Alessandro Mugelli
Keynote Lecturer: Gianluca Trifirò

Oral Contributions
• Simon Hand, A pharmacologically stratified model of multiple drug treatments in polypharmacy.
• Marc Simard, Ten-year trajectories of multimorbidity and impact on health services and polypharmacy in older people.
• Emma Bjørk, Polypharmacy's association to mortality: A methodological case study.

11.00 am – 12.30 pm | Room B - Building A First Floor

MACHINE LEARNING FOR DRUG UTILISATION ANALYSIS
Chairs: Gisbert W. Selke, Ursula Kirchmayer
Keynote Lecturer: Maurizio Sessa

Oral Contributions
• Kate Preston, Assessing the needs of clinicians working in adult critical care in Scotland for a sepsis fluid management Artificial Intelligence tool.
• Giorgio Limoncella, Extracting pregnancies from heterogeneous data sources in Europe: a novel algorithm in the ConcePTION project.
• Clara Rodríguez-Bernal, The PREGVAL cohort. A dynamic population-based cohort of over 600,000 pregnancies from electronic health records in the Valencia Region.
• Tanja Mueller, Using record linkage of routinely collected electronic health care data to describe and evaluate systemic anti-cancer treatment: experiences from the Cancer Medicines Outcomes Programme in Scotland.

1.30 – 2.15 pm | Room A - Building A Ground Floor

GLOBALISATION OF MEDICINES USE: ADVANCES IN DUR ACROSS THE GLOBE
Chairs: Marion Bennie, Gisbert Silke
Keynote Lecturers: Lisa Pont, Claudia Osorio, Amanj Kurdi

2.15 – 3.45 pm | Hallway - Building A Ground Floor

POSTER SESSION 2

Drug utilisation research and health policy - Polypharmacy and deprescribing
| Corridor - Building B Ground Floor
Methodological advances in drug utilisation
| Room P - Building B Ground Floor
Cross-national comparison - Drug utilisation research and pandemics - Interventions and implementation
| Room Q - Building B Ground Floor
Patient perspectives - Medication adherence

4.15 – 5.45 pm | Room A - Building A Ground Floor

CHALLENGES WITH NEW MEDICATIONS
Facilitators: Björn Wettermark, Sabine Vogler

4.15 – 5.45 pm | Room B - Building A First Floor

PROMS: ADDED VALUE FOR DU
Facilitators: Emma Dunlop, Marion Bennie, Tanja Mueller
9.00 – 10.30 am  |  Room A - Building A Ground Floor

DUR IN SPECIFIC POPULATIONS AND THERAPEUTIC AREAS
Chairs: Ana Tomas Petrović, Antonio Clavenna

Oral Contributions
- Irene Mommers, The management of adult asthma: An observational study into real-world prescription patterns of inhalation medication.
- Ingvild Odsbu, Prevalence of pain-related and mental health diagnoses among persistent opioid users: a population-based registry-linkage study.
- Heidi Taipale, Effectiveness of antidepressant use in persons with schizophrenia in real-world setting.
- Erika Papfalvi, A pilot field study on antibacterial use at an Emergency Department.
- Indrė Trečiokienė, Prescribing of antihypertensives for different diagnoses – a cross sectional study in Stockholm, Sweden.

9.00 – 10.30 am  |  Room B - Building A First Floor

DIFFERENT ROLES OF DUR IN HEALTH POLICY
Chairs: Seán MacBride-Stewart, Francesco Nonino

Oral Contributions
- Mina Tadrous, Effects of the July 2018 worldwide valsartan recall and shortage on global trends in antihypertensive medication use: a time-series analysis in 83 countries.
- Barbara Mostacci, The impact of regulatory restrictions on the use of valproic acid in women of childbearing age: an Italian study.
- Barbara Mintzes, Is industry influence on pharmacoepidemiology ‘muddying the waters’? A synthesis of current research evidence.
- Giacomo Vitturi, Strategies to improve the prescribing appropriateness in patients with type 2 diabetes mellitus (T2DM) in Veneto region: the impact of the Italian Medicines Agency’s Note 100.
- Irene Dell’Anno, The utilisation of ruxolitinib in patients with myelofibrosis through a large Italian administrative healthcare database.

11.00 am – 11.45 am  |  Room A - Building A Ground Floor

UNMET NEEDS IN DRUG UTILISATION CLINICAL, PATIENT AND DRUG POLICY PERSPECTIVE
Chairs: Björn Wettermark, Elisabetta Poluzzi
Keynote Lecturers: Björn Wettermark, Aukje Mantel-Teeuwisse

11.45 am – 1.00 pm  |  Room A - Building A Ground Floor

CLOSING CEREMONY - CELEBRATING 50 YEARS OF DUR
Chairs: Björn Wettermark, Elisabetta Poluzzi

Roundtable on the history and the future of DUR
Pioneers: Ulf Bergman (Sweden) – Monique Elseviers (Belgium)
Frank May (Australia) – Nicola Montanaro (Italy)
Gyöngyver Soos (Hungary) – Robert Vander Stichelen (Belgium)
Young DURGers panel

Oral communication and poster awards

Closing remarks