



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

 EuroDURG

 ispe

International Society
for Pharmacoepidemiology



EuroDURG Conference 2023

Sustainability of drug use: equity and innovation

BOOKLET



Welcome

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".

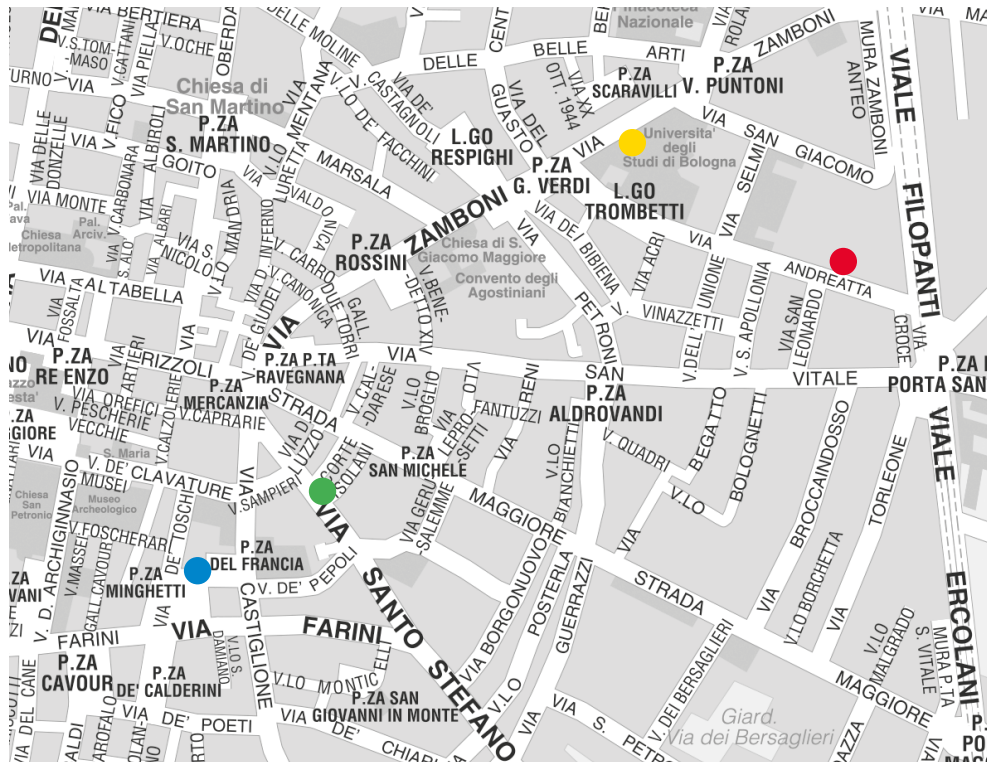
EuroDURG, the European Branch of the ISPE Special Interest Group for Drug Utilisation Research, has a long tradition of arranging scientific meetings focusing on quality use of medicines. We have now planned an attractive, interactive educational and scientific programme reaching out to our networks both in Europe and globally. The conference begin 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



- **Belmeloro Complex, via Andreatta 8**
Venue
- **Palazzo De' Toschi, Piazza Minghetti 4**
Welcome Ceremony - 27 June at 7 pm
15 minutes walking distance from the venue (1,2 km)
- **Palazzo Poggi, Via Zamboni 33**
Smatinée, Breakfast at the Museum - 29 June at 6.30 am
Museum of Palazzo Poggi Tour - 29 June at 6 pm
6 minutes walking distance from the venue (500m)
- **Palazzo Isolani, Via Santo Stefano 16**
Gala Dinner - 29 June at 8 pm
12 minutes walking distance from the venue (950 m)

	TUESDAY 27 JUNE			WEDNESDAY 28 JUNE	
9.00 am				SCIENTIFIC PROGRAM PART I WELCOME PLENARY 1: Sustainability of drug utilisations – economic, social and environmental aspects Room A Bldg. A	
10.30 am				Coffee break	
11.00 am				W-KL1/OC1 Medication adherence Room A Bldg. A	W-KL2/OC2 Impact of COVID-19 on DU Room B Bldg. A
12.30 pm	Registration in the hallway of Building A			Lunch	
	EDUCATIONAL SESSIONS			SCIENTIFIC PROGRAM PART II	
1.30 pm	Welcome to the educational sessions (2.00 pm) Room A Bldg. A			W-KL3 The value of the patient perspective in DUR Room A Bldg. A	W-KL4 eHealth, digitalization and DUR Room B Bldg. A
2.15 pm	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	Poster Session I Hallway Ground Floor Bldg. A Hallway Ground Floor Bldg. B Room P Bldg. B Room Q Bldg. B	
3.45 pm	Coffee break			Coffee break	
4.15-5.45 pm	T-ES4 Critical appraisal of statistics in DUR Room A Bldg. A	T-ES5 Longitudinal DU studies Room C Bldg. A	T-ES6 Adherence II (in collaboration with ENABLE) Room B Bldg. A	W-WS1 QIs and sustainable DU Room A Bldg. A	W-WS2 Outcome measures in studies on the quality of (de) prescribing in older people Room B Bldg. A
	Welcome Ceremony			EuroDURG general assembly	

	THURSDAY 29 JUNE			FRIDAY 30 JUNE		
	SCIENTIFIC PROGRAM PART III			SCIENTIFIC PROGRAM PART V		
9.00 am	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	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
10.30 am	Coffee break			Coffee break		
11.00 am	T-KL8/OC6 Polypharmacy and Deprescribing Room A Bldg. A	T-KL9/OC7 AI/Machine Learning and Big Data Room B Bldg. A		PLENARY 3: Unmet needs in drug utilisations – clinical, patient and drug policy perspective Room A Bldg. A		
12.30 pm	Lunch			Closing session Celebrating 50 years of DUR		
	SCIENTIFIC PROGRAM PART IV					
1.30 pm	PLENARY 2: Globalization of medicines use - Advances in DUR across the globe Room A Bldg. A			Legend ES educational session KL key lecture OC oral communication WS workshop		
2.15 pm	Poster Session II Hallway Ground Floor Bldg. A Hallway Ground Floor Bldg. B Room P Bldg. B Room Q Bldg. B			DU(R) drug utilisations (research) QIs quality indicators AI artificial intelligence PROM patient reported outcome measure		
3.45 pm	Coffee break					
4.15-5.45 pm	T-WS3 Challenges with new medications Room A Bldg. A	T-WS4 PROMs: added value for DU Room B Bldg. A				
	EuroDURG Gala Dinner					

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

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 Eelsey*, 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

- *Guiling Zhou*, Community Repurposed Drug Use Before and During COVID-19 Pandemic in the Netherlands: A Drug-utilisation Study.
- *Beatriz Santos*, Impact of Covid-19 pandemic on medication adherence and management in chronic patients: A cross sectional online survey in Geneva.
- *Ana Tomas Petrović*, Impact of COVID-19 pandemic on initiation of antihypertensives in Sweden- An interrupted time series study.
- *Helga Hambalek*, Impact of COVID-19 pandemic on national outpatient antibiotic use.

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

W-KL3

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

W-KL4

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

POSTER
SESSION
1

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

W-WS1

QUALITY INDICATORS AND SUSTAINABLE DRUG UTILISATION

Facilitators: Björn Wettermark, Indrė Trečiokienė, Kristina Garuoliene

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

W-WS2

OUTCOME MEASURES IN STUDIES ON THE QUALITY OF (DE)PRESCRIBING IN OLDER PEOPLE

Facilitators: Lisa Pont, Petra Denig, Monique Elseviers

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

T-KL5/OC3

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.
- *Marteen Lambert*, Auditing Antibiotic Dispensing Practices in Community Pharmacies in 5 EU Countries.
- *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

T-KL6/OC4

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 Jazaa*, 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

T-KL7/OC5

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

T-KL8/OC6**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.
- *Ali Alghamdi*, A Cross-sectional Study on Polypharmacy and Co-medications in Alzheimer's Disease.
- *Emma Bjørk*, Polypharmacy's association to mortality: A methodological case study.

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

T-KL9/OC7**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

PLENARY 2**GLOBALISATION OF MEDICINES USE: ADVANCES IN DUR ACROSS THE GLOBE**Chairs: Marion Bennie, Gisbert Silke
Keynote Lecturers: Lisa Pont, Claudia Osorio, Amanj Kurdi2.15 – 3.45 pm | Hallway - Building A Ground Floor
Drug utilisation research and health policy - Polypharmacy and deprescribing**POSTER SESSION 2**

- | 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

T-WS3**CHALLENGES WITH NEW MEDICATIONS**

Facilitators: Björn Wettermark, Sabine Vogler

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

T-WS4**PROMS: ADDED VALUE FOR DU**

Facilitators: Emma Dunlop, Marion Bennie, Tanja Mueller

9.00 – 10.30 am | Room A - Building A Ground Floor

F-OC8**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.
- *Tanja Mueller*, Immunotherapy prescribing patterns in cancer patients across Scotland 2014 – 2020.
- *Indrè Trečkienė*, Prescribing of antihypertensives for different diagnoses – a cross sectional study in Stockholm, Sweden.

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

F-OC9**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.
- *Mikael Hoffmann*, Antidepressants to teenage girls in Sweden 2007–2022 – Incidence and prevalence as public national drug consumption statistics.
- *Irene Dell'Anno*, The utilisation of ruxolitinib in patients with myelofibrosis through a large Italian administrative healthcare database.

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

F-OC10**DUR AND SAFETY**

Chairs: Emanuel Raschi, Ria Benkő

Oral Contributions

- *Lisa Pont*, Validity of the ISMP Medication Safety Self-Assessment® for Long-Term Care tool in Australian nursing homes.
- *Nan Shang*, Factors associated with unresolved potential medication errors – an evaluation of prescriptions to patients receiving surgeries at a tertiary medical centre in Shanxi province in China.
- *Caitriona Cahir*, Adverse Drug Reactions in an Ageing Population (ADAPT) study: Prevalence and risk factors associated with adverse drug reaction-related hospital admissions in older patients.
- *Ria Benkő*, Drug poisonings with emergency department presentations.
- *Carina D'Aiuto*, Mortality and health care system costs associated with opioid use and potentially inappropriate opioid use in community-dwelling older adults.
- *Lisa Davies*, Patients' perspectives on the development of prescription opioid use disorder in patients with chronic non-cancer pain.

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

PLENARY 3**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 DURPioneers: **Ulf Bergman (Sweden) – Monique Elseviers (Belgium)****Frank May (Australia) – Nicola Montanaro (Italy)****Gyöngyver Soos (Hungary) – Robert Vander Stichele (Belgium)**

Young DURGers panel

Oral communication and poster awards**Closing remarks**



Contact us!

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Organizing secretariat

Fondazione Alma Mater