

15th Annual NorPEN Meeting

*Strengthening our Nordic network for
preparedness and impact*



Norwegian Institute of Public Health



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| Wednesday, November 22 | |
| University of Oslo, Professorboligen, Karl Johans gate 47 | |
| 12:30-13:00 | Registration |
| 13:00-17:00 | <p>Pre-Conference Course - <i>The target trial emulation framework: An introduction to causal inference concepts</i> Organized by Nhung Trinh, PhD, Researcher, University of Oslo Instructors: Michalis Katsoulis, Associate Professor, University College London & Anteneh Desalegn, PhD, Researcher, Department of Pharmacy, University of Oslo</p> |
| 18:30 | Tour the Aula , University of Oslo's ceremonial hall (space is limited) |
| 19:00 | Welcome Reception , Professorboligen |
| 20:00 | <p>PhD & early career researchers' networking event Location: Oslo Camping, Møllergata 12 (indoor mini golf, drinks & food, self-paid)</p> |
| Thursday, November 23 | |
| Oslo Congress Centre, Youngs gate 21, Hall C | |
| 8:30-12:00 | <p>08:30-09:00 Registration 09:00-09:10 Welcome and Introduction Jacqueline Cohen, Lotte Rasmussen, Carolyn Cesta 09:10-09:30 History and evolution of NorPEN Kari Furu and Ingvild Odsbu 09:30-10:30 Using Nordic registers for pharmacovigilance Chair: Kari Furu <i>The future of (emergency) pharmacoepidemiology</i> Anton Pottegård, Professor, University of Southern Denmark 10:30-11:00 Coffee break & poster viewing 11:00-12:00 Oral presentations I (5 x 12 min) <i>Drug utilization</i> Chair: Øystein Karlstad</p> |
| 12:00-13:00 | Lunch (Torgutsikten) |
| 13:00-17:00 | <p>13:00-13:30 PharmacoepiSLAMs I (8 x 3 min) <i>Pediatric and perinatal pharmacoepidemiology</i> Chair: Ingvild Odsbu 13:30-14:30 Challenges and real-world impact of Nordic projects Chair: Marte Handal <i>Challenges and opportunities when Nordic drug prescription registries inform antiseizure medication labelling</i> Marte Bjørk, Professor of Neurology, University of Bergen <i>Real-time COVID-19 vaccine safety surveillance</i> Hanne Løvdal Gulseth, Research Director, Norwegian Institute of Public Health 14:30-15:00 Coffee break & poster viewing</p> |

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| | <p>15:00-15:30 PharmacoepiSLAMs II (8 x 3 min) Chair: Ingvild Odsbu <i>Hot topics including signal detection and social determinants</i></p> <p>15:30-16:30 Complementary approaches to pharmacovigilance Chair: Angela Lupattelli <i>Opportunities for use of routinely collected health data in pharmacovigilance signal detection and validation</i> Niklas Norén, Chief Science Officer, Uppsala Monitoring Centre <i>A new approach for causality assessment in small datasets for pharmacovigilance</i> Elena Rocca, Associate Professor of Pharmacy, OsloMet</p> <p>16:30-17:00 Chair: Nhung Trinh <i>Weight change and CVD using TTE: Reflections on emulating "well-defined" interventions and potential applications to pharmacoepidemiology</i> Michalis Katsoulis, Associate Professor, University College London</p> |
| 19:00 | Dinner , Salome, Henny Mürers gang 1, 0150 Oslo |
| Friday, November 24 | |
| Oslo Congress Centre, Youngs gate 21, Hall C | |
| 8:45-13:00 | <p>08:45-09:45 Data harmonization initiatives in Europe and the role of Open Science Chair: Hedvig Nordeng <i>Data stay local and evidence goes global</i> Daniel Prieto-Alhambra, Professor, University of Oxford</p> <p>09:45-10:45 Oral presentations II (5 x 12 min) <i>Drug adherence and methods</i> Chair: Jacqueline Cohen</p> <p>10:45-11:15 Coffee break & poster viewing</p> <p>11:15-11:45 Chair: Marleen van Gelder <i>Applying the principals of Open Science</i> Live Kvale, Senior Academic Librarian, University of Oslo</p> <p>11:45-12:45 Oral presentations III (5 x 12 min) <i>Drug and vaccine safety</i> Chair: Marleen van Gelder</p> <p>12:45-13:00 Closing of the meeting</p> |
| 13:00-14:00 | Lunch (Fojaeen) |
| 13:00-15:00 | NorPEN executive committee meeting with lunch, Hall C |

Thank you to our sponsors! The NorPEN conference was organized with the support of BCPT, UiO:Life Science, and the International Alliance for PharmacoGenetic Epidemiology Excellence (iAPOGEE)



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Oral Presentations

| <i>Oral Presentations I - Drug utilization</i> | |
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| Trends in postoperative opioid use in Norway 2011-18: a nationwide registry-based study | Per-Jostein Samuelsen |
| Drug Utilization Patterns of Anti-Rheumatic Medications among Pregnant Women with Rheumatoid Arthritis in Norway, 2004-2018 | Eun-Young Choi |
| Semaglutide (Ozempic®) use in Denmark: a population-based study of user trends and characteristics | Aurélie Mailhac |
| Longitudinal HbA1c patterns before the first treatment of diabetes in routine clinical practice: a latent class trajectory analysis | Sia Kromann Nicolaisen |
| Longitudinal cholesterol trends across educational groups: the influence of lipid-lowering drugs in the population-based Tromsø Study 1994-2016 | Chi Quynh Vo |
| <i>Oral Presentations II - Drug adherence and methods</i> | |
| Primary non-adherence to antidepressants and antipsychotics in first-episode psychotic depression | Aleksi Hamina |
| Clinical factors associated with patterns of endocrine therapy adherence in premenopausal breast cancer patients | Kirsten Marie Woolpert |
| PHAIR - Pharmacovigilance by AI Real-time Analysis | Espen Jimenez Solem |
| Medication use after diagnosis and Parkinson's disease survival: A target trial approach | Julia Axiina Tuominen |
| Detecting and dating miscarriages and elective terminations in early pregnancy: generation of a novel pregnancy algorithm from Norwegian linked health registries | Hedvig M.E. Nordeng |
| <i>Oral Presentations III - Drug and vaccine safety</i> | |
| Risk of preterm birth associated with ADHD medication use in pregnancy: a population-based cohort study from Norway and Sweden | Chaitra Srinivas |
| Cardiac Arrhythmias After COVID-19 mRNA Vaccination: A Nationwide Registry Study | Lars Jøran Kjerpeseth |
| SARS-CoV-2 vaccination and Guillain-Barré syndrome in a nationwide Scandinavian cohort | Nicklas Pihlström |
| Comparison of recurrent venous thromboembolism, major bleeding and mortality between direct oral anticoagulants and low molecular weight heparin in cancer associated thrombosis: a Swedish nation-wide cohort study | Marie Linder |
| Low-Dose Aspirin and Risk of Anemia in Older Individuals: A Danish Register-based Study | Maurizio Sessa |

PharmacoepiSLAM presentations

| PharmacoepiSLAMs I - <i>Pediatric and perinatal pharmacoepidemiology</i> | |
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| Socioeconomic differences in discontinuation, late initiation and switching of antiseizure medication in pregnancies in people with epilepsy in countries with universal healthcare systems: A Nordic population-based cohort study | Maarit Leinonen |
| Antidepressant use during trimester one and pregnancy loss: A longitudinal analysis in the Clinical Practice Research Datalink (CPRD) | Florence Z. Martin |
| Association of non-steroidal anti-inflammatory drug use during pregnancy and miscarriage: A Norwegian Registry Linkage Study | Marleen van Gelder |
| Algorithms to Identify Preeclampsia in European Healthcare Data Sources: A pilot study in Norway and Finland from the ConcePTION project | Vera Mitter |
| Trajectories of body mass index in the offspring up to 8 years of age following prenatal exposure to antidepressants alone and in co-exposure with other psychotropics | Elisabetta Paese |
| Prenatal exposure to benzodiazepines and z-hypnotics and fifth-grade scholastic skills – emulating target trials using data from the Norwegian Mother, Father and Child Cohort Study | Lene Maria Sundbakk |
| Prenatal exposure to antidepressants and longer-term risk of depressive and anxiety outcomes in children | Desirée Butti |
| COVID-19 Vaccine Uptake by children and adolescents in Norway: A Descriptive Analysis | Saima Orangezab |
| PharmacoepiSLAM II - <i>Hot topics including signal detection and social-determinants</i> | |
| Drug-wide prospective study associates thirty-one drug classes with the risk of Parkinson’s disease | Julia Romanowska |
| Use of Signal Detection Methods to Identify Associations Between Prenatal Medication Exposure and Subsequent Childhood Cancers: A Nordic Hypothesis-Generating Registry-Based Study | Hannah Johnson |
| Intention to treat exposure definition in observational safety studies: a real-world example and a simulation study | Diego Hernan Giunta |
| Utilizing ‘type of prescriber’ as a covariate in pharmacoepidemiological studies | Anton Pottegård |
| The risk of type 2 diabetes in young to middle-aged sertraline, venlafaxine, and citalopram users: a Danish registry-based cohort study | Elina Suominen |
| Comparison of sociodemographic factors, health care utilisation by general practitioner visits and somatic hospital admissions, and medication use in Norway, Sweden, and Denmark | Mette Bliddal |
| Association of educational level with clinical presentation and pharmacological treatment among 10,020 individuals with recently diagnosed type 2 diabetes | Marie Tange Sørensen |
| Immigrant background and long-term opioid use: a Norwegian registry-linkage study. | Håkon Høydal Nestvold |

Poster presentations

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| 1 | Risk of cardiovascular events following COVID-19 vaccination – results from a nationwide cohort study of 8 million Swedish adults | Huiqi Li |
| 2 | Initiation of anti-diabetic drugs among patients with a positive COVID-19 PCR test compared with a comparison group without a positive test- A cohort study | Mohammadhossein Hajiebrahimi |
| 3 | Treatment assignment in observational analyses – a practical application in the Swedish Primary Care Cardiovascular Database | Anna Humphreys |
| 4 | A time series analysis of geriatric patients' prescriptions pre and post Janusmed's kidney function knowledge database support | Hussein N. Rubaiy |
| 5 | Use of antidepressant and anxiolytic drugs in Scandinavian countries between 2006 and 2021: a prescription database study | Ivana Bojanić |
| 6 | Prescription antibiotics use prior to colorectal cancer surgery and risk of postoperative complications: A population-based study | Sai San Moon Lu |
| 7 | Exploring The Impact of Co-Exposure Timing on Drug-Drug Interactions While Analyzing Spontaneous Reporting Databases: A Scoping Review | Maurizio Sessa |
| 8 | DPP4 and GLP-1 Treatments on Dementia and Cognitive Impairment Risks among Diabetic Patients: a Danish Register- Based Cohort Study | Maurizio Sessa |
| 9 | Unlocking Hope: Medications that Shape the Fate of Fibrosis in Crohn's Disease | Maurizio Sessa |
| 10 | Considerable paediatric drug use in Sweden – a cross-sectional study of all children | Elin Dahlén |
| 11 | Nationwide trends in the use of ADHD medications in the period 2006-2021. A study from the Norwegian Prescription Database | Nils Henry Haugen Madsstuen |
| 12 | Trends in drugs for obesity 2004 – 2022 in Norway | Paz Lopez-Doriga Ruiz |
| 13 | Risk of Gestational Diabetes Among Pregnant Women with COVID-19: A Population-Based Cohort Study | Benjamin P. Geisler |
| 14 | Research Evaluating the Validity of Expected Adverse drug reactions Listed in patient information leaflets (REVEAL) | Jakob Aabling-Thomsen |
| 15 | Detecting High-Risk Medications and Error Types in the Danish Patient Safety Database using Disproportionality Analysis | Olga Tchijevitch |
| 16 | Algorithms to Identify Gestational Diabetes in European Healthcare Data Sources: A pilot study in Norway and Finland from the ConcePTION project | Ditte Mølgaard-Nielsen |
| 17 | Can we improve predictions of drug-related problems by combining decision support algorithms and machine learning? | Tora Hammar |
| 18 | Prenatal antidepressant trajectories and risk of long-term psychiatric outcomes in the offspring | Anastasia Giorcelli |
| 19 | Harmonizing Norwegian registries onto OMOP Common Data Model: mapping challenges and opportunities for pregnancy and COVID-19 research | Nhung TH Trinh |
| 20 | Difficulties in combining prescription data from different European Countries | Joan Morris |