15th Annual NorPEN Meeting

Strengthening our Nordic network for preparedness and impact

Wednesday, November 22 University of Oslo, Professorboligen, Karl Johans gate 47	
12:30-13:00	Registration
13:00-17:00	**Pre-Conference Course -** *The target trial emulation framework: An introduction to causal inference concepts* Organized by Nhung Trinh, PhD, Researcher, University of Oslo Instructors: Michalis Katsoulis, Professor, University College London & Anteneh Desalegn, PhD, Researcher, Department of Pharmacy, University of Oslo
18:30	**Tour the Aula**, University of Oslo's ceremonial hall (space is limited)
19:00	**Welcome Reception**, Professorboligen
20:00	**PhD & early career researchers' networking event** Location: Oslo Camping, Møllergata 12 (indoor mini golf, drinks & food, self-paid)
Thursday, November 23 Oslo Congress Centre, Youngs gate 21, Hall C	

8:30-12:00	**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
	    The future of (emergency) pharmacoepidemiology
	    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)
	    Drug utilization
	    Chair: Øystein Karlstad

12:00-13:00	**Lunch** (Torgutsikten)

13:00-17:00	**13:00-13:30** PharmacoepiSLAMs I (8 x 3 min)
	    Pediatric and perinatal pharmacoepidemiology
	    Chair: Ingvild Odsbu
	13:30-14:30 Challenges and real-world impact of Nordic projects
	    Chair: Marte Handal
	    Challenges and opportunities when Nordic drug prescription registries inform antiseizure medication labelling
	    Marte Bjørk, Professor of Neurology, University of Bergen
	    Real-time COVID-19 vaccine safety surveillance
	    Hanne Løvdal Gulseth, Research Director, Norwegian Institute of Public Health
	14:30-15:00 Coffee break & poster viewing

	15:00-15:30 PharmacoepiSLAMs II (8 x 3 min)
	     Chair: Ingvild Odsbu
	     Hot topics including signal detection and social determinants
	 15:30-16:30 Complementary approaches to pharmacovigilance
	     Chair: Angela Lupattelli
	     Opportunities for use of routinely collected health data in pharmacovigilance signal detection and validation
	     Niklas Norén, Chief Science Officer, Uppsala Monitoring Centre
	     A new approach for causality assessment in small datasets for pharmacovigilance
	     Elena Rocca, Associate Professor of Pharmacy, OsloMet
	 16:30-17:00
	     Chair: Nhung Trinh
	     Weight change and CVD using TTE: Reflections on emulating "well-defined" interventions and potential applications to pharmacoepidemiology
	     Michalis Katsoulis, Professor of Medical Statistics, University College London

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	**08:45-09:45** Data harmonization initiatives in Europe and the role of Open Science
	     Chair: Hedvig Nordeng
	     Data stay local and evidence goes global
	     Daniel Prieto-Alhambra, Professor, University of Oxford
	 09:45-10:45 Oral presentations II (5 x 12 min)
	     Drug adherence and methods
	     Chair: Jacqueline Cohen
	 10:45-11:15 Coffee break & poster viewing
	 11:15-11:45
	     Chair: Marleen van Gelder
	     Applying the principals of Open Science
	     Live Kvale, Senior Academic Librarian, University of Oslo
	 11:45-12:45 Oral presentations III (5 x 12 min)
	     Drug and vaccine safety
	     Chair: Marleen van Gelder
	 12:45-13:00 Closing of the meeting

13:00-14:00	**Lunch** (Fojaeen)
13:00-15:00	**NorPEN executive committee meeting with lunch, Hall C**

Oral Presentations

Oral Presentations I - Drug utilization	
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
Oral Presentations II - Drug adherence and methods	
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 Al 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
Oral Presentations III - Drug and vaccine safety	
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 - *Pediatric and perinatal pharmacoepidemiology*	
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	Desirèe Butti
COVID-19 Vaccine Uptake by children and adolescents in Norway: A Descriptive Analysis	Saima Orangzeb
PharmacoepiSLAM II - *Hot topics including signal detection and social-determinants*	
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

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