

The 27th Norwegian Conference on Epidemiology

Bergen, 3-4 November 2021

Programme Overview

Wednesday, November 3rd

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| 08:45 | Registration at Radisson Royal Blu Hotel Bergen |
| 09:15 | Welcome and opening: NOFE leader Linda Ernstsen |
| 09:30 | Invited speakers – Introduction to large Norwegian health surveys Chair/ co-chair: Grethe S. Tell, Marjolein M. Iversen 09.30-09.50 Eva Gerds – The Hordaland Health Studies – HUSK3 (HHS/HUSK) 09.50-10.10 Bjørn Olav Åsvold – The Trøndelag Health Study (The HUNT Study) 10.10-10.30 Sameline Grimsgaard – The Tromsø Study 10.30-10.50 Ragnhild Brandlistuen – The Norwegian Mother, Father and Child Cohort Study (MoBa) |
| | Coffee break with refreshments |
| 11:15 | Invited speakers – Examples from studies using Norwegian health surveys Chair/ co-chair: Laila Hopstock, Ragnhild B. Strandberg 11.15-11.45 Steinar Krokstad – Social epidemiology in the HUNT Study 11.45-12.15 Ole Andreassen – Genetic factors in health surveys |
| 12:15 | Lunch |
| 13:15 | Oral presentations of submitted abstracts – part 1: Methods A1-A4. <i>Room: Kongesal 1-2</i> Reproductive factors B1-B4. <i>Room: Kongesal 3</i> FHUS/NHUS C1-C4. <i>Room: Kongesal 4</i> Cancer D1-D4. <i>Room: Dræggen 3</i> Infection/COVID E1-E4. <i>Room: Dræggen 4</i> |
| 14:15 | Coffee break |
| 14:45 | Publication of the year award and Honorary membership award Chairs: NOFE secretary Marie W. Lundblad and NOFE leader Linda Ernstsen |
| 15:45 | Coffee break with refreshments |
| 16:00 | Invited speakers – COVID-19 and health surveys Chair/ co-chair: Eiliv Lund, Anne Kjersti Daltveit 16.00-16.30 Anja Lindman – Beredt C19 – a datalake and preparedness register – a national realtime surveillance system for covid-19 16.30-17.00 Arnaldo Frigessi – Mathematical modelling of the corona virus pandemic in Norway |
| 17:00 | Coffee break |
| 17.15-18.15 | NOFE annual meeting |
| 19:30 | Welcome drink at Radisson Royal Blu Hotel Bergen |
| 20:00 | Conference dinner at Radisson Royal Blu Hotel Bergen |

Thursday, November 4th

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| 08:45 | Invited speakers – Methodological and analytic challenges and opportunities with health surveys Chair/ co-chair: Rolv Terje Lie, Roy Miodini Nilsen 08.45-09.15 Kyrre Breivik – Missing data in health surveys 09.15-09.45 Håkon K. Gjessing – Event history analysis, with examples from health surveys |
| 09:45 | Coffee break with refreshments |
| 10:15 | Oral presentation of submitted abstracts – part 2: Methods A5-A8. <i>Room: Kongesal 1-2</i> Mortality/ fractures B5-B8. <i>Room: Kongesal 3</i> Cancer C5-C8. <i>Room: Kongesal 4</i> CVD D5-D8. <i>Room: Dræggen 3</i> Mental health/ pain E5-E8. <i>Room: Dræggen 4</i> |
| 11:15 | Poster viewing and coffee break with refreshments Please see overview of abstracts for the posters P1-P30 in the abstract leaflet |
| 12:00 | Oral presentation of submitted abstracts – part 3: Reproductive factors A9-A12. <i>Room: Kongesal 1-2</i> Occupation/ environmental B9-B12. <i>Room: Kongesal 3</i> Nutrition/BMI C9-C12. <i>Room: Kongesal 4</i> Pharmaco-epi/ methods D9-D12. <i>Room: Dræggen 3</i> Infection/ COVID E9-E12. <i>Room: Dræggen 4</i> |
| 13:00 | Lunch |
| 14:00 | Keynote speakers - International health surveys Chair/ co-chair: Lars Christian Stene, Kari Klungsgøy 14.00-14.30 Janet Rich-Edwards – The Nurses' Health Study 14.30-15.00 Nicholas J. Timpson – Avon Longitudinal Study of Parents and Children (the ALSPAC Study) |
| 15:00 | Coffee break |
| 15:15 | User involvement in population studies How can user involvement add value to health research? Expectations, opportunities and challenges, by Anne Rita Øksengård Chair: Sameline Grimsgaard |
| 16.15 | Closing of the conference by NOFE leader Linda Ernstsen |

The 27th Norwegian Conference on Epidemiology
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Scientific Programme for Parallel Sessions

Oral presentations of submitted abstracts – part 1

Wednesday, November 3rd 13.15-14.15

| Theme: Methods | | | |
|-----------------------------|-----|---|----------------------------|
| Time | No. | Room: Kongesal 1-2 Chair/ co-chair: Jannicke Iglund, Marjolein M. Iversen | Presenters |
| 13:15 | A1 | Can we trust the hazard ratio? -Causal consequences of observed proportional hazards | Morten Valberg |
| 13:30 | A2 | Separable Effects of Baseline Exposure in Multi-StateModels | Niklas Nyboe Maltzahn |
| 13:45 | A3 | Diving into registry data: enhancing epidemiology with bioinformatics and experiments | Julia Romanowska |
| 14:00 | A4 | Causal inference in survival analysis using longitudinal observational data: Sequential trials and marginal structural models | Jon Michael Gran |
| Theme: Reproductive factors | | | |
| Time | No. | Room: Kongesal 3 Chair/ co-chair: Rolv Skjærven, Kari Klungsøyr | Presenters |
| 13:15 | B1 | Birthweight, consecutive pregnancies, and long-term maternal mortality: at term and beyond | Yeneabeba Tilahun Sima |
| 13:30 | B2 | How is birth weight affected in the next singleton birth following a first singleton or twin birth? | Prativa Basnet |
| 13:45 | B3 | Epigenome wide association study of folate levels in pregnancy | Nicolas Fragoso- Bargas |
| 14:00 | B4 | Preconception leisure-time physical activity and family history of cardiovascular disease as they relate to preterm delivery | Tone Engen |
| Theme: FHUS/NHUS | | | |
| Time | No. | Room: Kongesal 4 Chair/ co-chair: Ann Kristin S. Knudsen, Ragnhild B. Strandberg | Presenters |
| 13:15 | C1 | Norwegian County Public Health Surveys – Cohort Update. | Thomas Nilsen |
| 13:30 | C2 | Quality of life, psychological distress, sleeping problems and global subjective health after injuries. A study among adults in three Norwegian counties. | Leif Edvard Aarø |

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| 13:45 | C3 | Psychological distress before and nine months into the COVID-19 pandemic: a longitudinal study from The Norwegian Counties Public Health Surveys | Marit Knapstad |
| 14:00 | C4 | The National Health Survey from the Norwegian Institute of Public Health – Establishing a new data source for surveillance- and research | Marianne Hope Abel |

| Theme: Cancer | | | |
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| Room: Dræggen 3 | | | |
| Chair/ co-chair: Tone Bjørge, Roy Miodini Nilsen | | | |
| Time | No. | | Presenters |
| 13:15 | D1 | Pigmentary Characteristics and Melanoma Survival in Norwegian Women | Ashley Ahimbisibwe |
| 13:30 | D2 | Cohort profile: The Clinical and Multi-omic (CAMO) cohort, part of the Norwegian Women and Cancer (NOWAC) study | Andre B. Delgado |
| 13:45 | D3 | The Norwegian Women and Cancer study (NOWAC) | Guri Skeie |
| 14:00 | D4 | Childhood cancer risk among individuals with major birth defects: A Nordic collaborative study | Dagrun S. Daltveit |

| Theme: Infection/ COVID | | | |
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| Room: Dræggen 4 | | | |
| Chair/ co-chair: Siri Håberg, Anne Kjersti Daltveit | | | |
| Time | No. | | Presenters |
| 13:15 | E1 | Understanding long-term symptoms after covid-19: Results from MoBa | Ida Henriette Caspersen |
| 13:30 | E2 | COVID-19 vaccination in Norway – using nationwide individual level data to identify distribution and overlap of prioritized groups | Hanne L. Gulseth |
| 13:45 | E3 | Short-term safety of SARS-CoV-2 vaccination in the elderly population in Norway | Nina Gunnes |
| 14:00 | E4 | Sex differences in incidence of bloodstream infections and the mediating role of known risk factors. Results from the population-based HUNT study in Norway | Randi Marie Mohus |

Oral presentations of submitted abstracts – part 2

Thursday, November 4th 10.15-11.15

| Theme: Methods | | | |
|-----------------------------|-----|--|-----------------------|
| Time | No. | Room: Kongesal 1-2 Chair/ co-chair: Julia Romanowska, Kari Klungsøyr | Presenters |
| 10:15 | A5 | Body mass index and incidence of lung cancer in The HUNT Study: Using observational and Mendelian randomization approaches | Lin Jiang |
| 10:30 | A6 | Problems with Power: Unanticipated computational challenges in a large nutritional epidemiology cohort. | Andrew Mashchak |
| 10:45 | A7 | Validation study of the self-reported educational level in the Tromsø Study | Chi Q. Vo |
| 11:00 | A8 | Pizza made healthy – an epidemiological cookbook | Kajsa Møllersen |
| Theme: Mortality/ fractures | | | |
| Time | No. | Room: Kongesal 3 Chair/ co-chair: Kristin Holvik, Anne Kjersti Daltveit | Presenters |
| 10:15 | B5 | Hip-IMPACT: Explaining the declining hip fracture rate from 1999-2019. A NOREPOS study | Helena K. Kjeldgaard |
| 10:30 | B6 | Associations between vertebral fracture and mortality. The Tromsø Study 2007-2020 | Jonas Johansson |
| 10:45 | B7 | Cold- a risk factor for osteoporotic fractures and fracture related mortality | Cecilie Dahl |
| 11:00 | B8 | Stroke survival and the impact of geographic proximity to first-degree relatives: population-based cohort study | Hye Jung Choi |
| Theme: Cancer | | | |
| Time | No. | Room: Kongesal 4 Chair/ co-chair: Dagrún S. Daltveit, Roy Miodini Nilsen | Presenters |
| 10:15 | C5 | 30-day mortality after myocardial infarction in patients with prostate cancer in Norway- A population-wide registry-based study | Rachel B. Forster |
| 10:30 | C6 | Trends in melanoma tumour thickness in Norway 1980-2019 | Raju Rimal |
| 10:45 | C7 | The Oslo II-study 2000: Low level of antibodies to the oral bacteria <i>Tannerella forsythia</i> and <i>Treponema denticola</i> predict cancer incidence | Lise Lund Håheim |
| 11:00 | C8 | Breast cancer related exposures and gene expression profiles in normal breast tissue – The Norwegian Women and Cancer (NOWAC) study | Karina Standahl Olsen |

| Theme: CVD | | | |
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| Time | No. | Room: Dræggen 3 Chair/ co-chair: Teresa Haugsgjerd, Marjolein M. Iversen | Presenters |
| 10:15 | D5 | Risk factors and psycho-socioeconomic determinants for cardiovascular diseases according to various living areas with lifestyle factors as mediators. The Tromsø Study | Sweta Tiwari |
| 10:30 | D6 | Modelling unobserved heterogeneity by education level in cardiovascular disease mortality - A frailty analysis of Norwegian population-based health surveys | Huong Nguyen Thu |
| 10:45 | D7 | Time trends and characteristics of heart failure listed (incorrectly) as the underlying cause of death: a thirty-year nationwide study in Norway | Gerhard Sulo |
| 11:00 | D8 | Prevalence and incidence rates of atrial fibrillation in Denmark 2004-2018 – methodological considerations | Emilie R. Hegelund |

| Theme: Mental health/ pain | | | |
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| Time | No. | Room: Dræggen 4 Chair/ co-chair: Liv G. Kvalvik, Ragnhild B. Strandberg | Presenters |
| 10:15 | E5 | Feasibility of Twitter text mining as a tool for investigating patterns in antenatal mental health experiences | Sage Wyatt |
| 10:30 | E8 | The association between health anxiety and number of physical diseases in a general population | Anja Davis Norbye |
| 10:45 | E7 | Effect of physical activity on psychosocial health among adult survivors of childhood cancer - The SURfit study | Wei H. Deng |
| 11:00 | P16 | Maternal intake of sweetened carbonated beverages during pregnancy and association to ADHD symptoms in the offspring. A study from the Norwegian, Mother, Father and Child Cohort Study (MoBa) | Liv G Kvalvik |

Oral presentations of submitted abstracts – part 3

Thursday, November 4th 12.00-13.00

| Theme: Reproductive factors | | | |
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| Time | No. | Room: Kongesal 1-2 Chair/ co-chair: Maria C. Magnus, Kari Klungsøyr | Presenters |
| 12:00 | A9 | Reproductive factors in relation to incidence of lung cancer in Norwegian women: the HUNT Study | Marion Denos |
| 12:15 | A10 | Smoking and subfertility: multivariable regression and Mendelian randomization analyses in the Norwegian Mother, Father and Child Cohort Study | Álvaro Hernáez |
| 12:30 | A11 | Risk of cardiovascular disease among subfertile women and men: The HUNT Study, Norway | Karoline H. Skåra |
| 12:45 | A12 | Early childhood respiratory tract infections according to parental subfertility and conception by assisted reproductive technologies | Vera Mitter |
| Theme: Occupation/ environmental | | | |
| Time | No. | Room: Kongesal 3 Chair/ co-chair: Ingrid S. Mehlum, Marjolein M. Iversen | Presenters |
| 12:00 | B9 | Burden of disease due to transportation noise in the Nordic countries – a NordSOUND study | Gunn Marit Aasvang |
| 12:15 | B10 | Educational and gender differences in duration in work participation and non-participation among older individuals in Norway | Suzanne L. Merkus |
| 12:30 | B11 | Gender differences in the impact of work exposures on age of withdrawal from paid employment among older workers | Karina Udem |
| 12:45 | B12 | Night shift work and risk of aggressive prostate cancer in the Norwegian Offshore Petroleum Workers (NOPW) Cohort | Leon A.M. Berge |
| Theme: Nutrition/ BMI | | | |
| Time | No. | Room: Kongesal 4 Chair/ co-chair: Anne Lise Brantsæter, Ragnhild B. Strandberg | Presenters |
| 12:00 | C10 | Intake of fermented dairy products and associations with blood lipid concentrations – The Tromsø Study: Tromsø7 | Monika L. Machlik |
| 12:15 | C11 | BMI and Waist circumference as predictors of Frailty/ Prefrailty among elderly people | Shreeshti Uchai |
| 12:30 | C12 | Intakes of Fish and Long Chain n-3 Polyunsaturated Fatty Acid Supplements During Pregnancy and Subsequent Risk of Type 2 | Jannike Øyen |

Diabetes in a Large Prospective Cohort Study of Norwegian Women

12:45 P26 Associations between postprandial triglyceride concentrations and sex, age, and body mass index: cross-sectional analyses from the Tromsø Study 2015-2016 Mari Mikkelsen

| Theme: Pharmaco-epi/ methods | | | |
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| Time | No. | Room: Dræggen 3 | Presenters |
| | | Chair/ co-chair: Angela Lupattelli, Roy Miodini Nilsen | |
| 12:00 | D9 | Estimating risk of disease in the presence of “fuzzy” loss to follow-up: type 1 diabetes in the MIDIA birth cohort 2001-2017 | Lars C. Stene |
| 12:15 | D10 | Antidepressant fill trajectories in pregnant women with depression and/or anxiety in Norway: results from a registry linkage study | Nhung TH. Trinh |
| 12:30 | D11 | Association between prenatal analgesic opioid exposure and fifth grade school performance – a MoBa study | Johanne Naper Trønnes |
| 12:45 | D12 | Prenatal triptan exposure and risk of ADHD in childhood: results from the Norwegian Mother, Father and Child Cohort study | Gerd-Marie E. Harris |

| Theme: Infection/ COVID | | | |
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| Time | No. | Room: Dræggen 4 | Presenters |
| | | Chair/ co-chair: Ida Caspersen, Anne Kjersti Daltveit | |
| 12:00 | E9 | The Young-HUNT COVID Survey | Kirsti Kvaløy |
| 12:15 | E10 | Within-host seasonal immunity and seasonal influenza – trajectories of gene expression from immune cells in blood - the NOWAC postgenome biobank | Eiliv Lund |
| 12:30 | E11 | Association of insomnia symptoms with the risk of bloodstream infections: results from the prospective population-based HUNT Study in Norway | Marianne S. Thorkildsen |
| 12:45 | E12 | Prevalence of mental disorders and suicidality in the general population before and during the first six months of the COVID-19 pandemic in Norway | Ann-Kristin Skrindo-Knudsen |