Yearly report

2022

by

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Key numbers 2022

4 PhD defenses
54 scientific publications/book chapters
76 posters/oral presentations/external lectures
63 media coverages
4 international guest researchers
5 research grants awarded (total of 11.3 mill. NOK)

2021: 2 PhD defenses, 51 scientific publications, 42 posters/oral presentations/external lectures, 25 media coverages, 9 multimedia events, 4 visits from international guest researchers, 6 research grants awarded

2020: 34 scientific publications, 13 posters, 6 oral presentations/external lectures, >50 media coverages, 4 visits from international guest researchers, 7 research grants awarded

2019: 31 scientific publications, 10 clinical guidelines, 20 posters/oral abstracts, 33 presentations/external lectures, 39 media coverages, 4 visits from international guest researchers, 6 PhD defense committees as an international member

2018: 43 scientific publications, 25 posters, 40 oral presentations/external lectures, 22 media coverages, 7 visits from international guest researchers

2017: 50 scientific publications, 30 posters, 44 oral presentations/external lectures, 13 media coverages, 6 visits from international guest lecturers

PhD defenses

- **Alma Mulac,** PhD thesis defense: *Medication errors in hospitals - Exploring medication safety through incident reports and observation of practice.* April 1, 2022.
- **Alma Mulac,** trial lecture: *The potential of technology and digitalization to improve patient safety in healthcare*. April 1, 2022.

- **Gerd Marie Harris,** PhD thesis defense: *Migraine pharmacotherapy during pregnancy: Utilization patterns and associations with child neurodevelopment*. June 10, 2022.
- **Gerd Marie Harris,** trial lecture: *Causal inference based on observational data: when can we trust our results?* June 10, 2022.
- **Johanne Naper Trønnes**, PhD thesis defense: *Medication safety in pregnancy - with focus on analgesics and neurodevelopmental outcomes in children*. June 24, 2022.
- **Johanne Naper Trønnes**, trial lecture: *COVID-19: Impact on data collection and analysis in pharmaco-epidemiological studies*. June 24, 2022.
- **Anette Vik Jøsendal,** PhD thesis defense: *Multidose drug dispensing in home care services - Impact of a shared medication list on medication safety.* December 9, 2022.
- **Anette Vik Jøsendal,** trial lecture: *Rational pharmacotherapy and ways to get there.* December 9, 2022.

External PhD defenses with PharmaSafe supervisors

- **Kjerstin Havnes,** PhD thesis defense: *Optimising drug therapy in older patients. Exploring different approaches across the patient pathway.* December 14, 2022.
- **Kjerstin Havnes,** trial lecture: *Pharmaceutical care in a Norwegian context.* December 14, 2022.

PhD committees

- **Granås AG.** 1st opponent for PhD student Sini Kuitunen. "Medication safety in intravenous drug administration: error causes and systemic defenses in hospital setting." University of Helsinki, Helsinki, Finland, 2022 Oct 7.
- **Granas AG.** Member of pre-examination committee for PhD student Kisti Kvarnström. "Why people don't take medication as prescribed: the complexity of medication adherence as a phenomenon. University of Helsinki, Finland, 2022 Aug 3.
- **Lupattelli A**. 2nd opponent for PhD student Fatemeh Chalabianloo, "Steady-state methadone pharmacokinetics in opioid agonist treatment: Influencing factors and clinical outcomes". University of Bergen, Bergen, Norway, 2022 Dec 13.
- **Lupattelli A**. 3rd opponent for PhD student Anne Sverdrup Efjestad "Use of acetylcholinesterase inhibitors: length of treatment, sex differences and comedication with focus on psychotropics, analgesics and heart rate related drugs". University of Oslo, Oslo, Norway. 2022 Oct 27.

Scientific publications

International publications

January

(1) **Mulac A,** Hagesaether E, **Granas AG.** Medication dose calculation errors and other numeracy mishaps in hospitals: Analysis of the nature and enablers of incident reports. J Adv Nurs. 2022 Jan;78(1):224-238.

(2) **Ngo E,** Spigset O, **Lupattelli A,** Panchaud A, Annaert P, Allegaert K, **Nordeng H.** Antihistamine use during breastfeeding with focus on breast milk transfer and safety in humans: A systematic literature review. Basic Clin Pharmacol Toxicol. 2022 Jan;130(1):171-181.

(3) Ceulemans M, Foulon V, Panchaud A, Winterfeld U, Pomar L, Lambelet V, Cleary B, O'Shaughnessy F, Passier A, Richardson JL, **Nordeng H**. Self-Reported Medication Use among Pregnant and Breastfeeding Women during the COVID-19 Pandemic: A Cross-Sectional Study in Five European Countries. Int J Environ Res Public Health. 2022 Jan 26;19(3):1389.

(4) Liu X, Molenaar N, Agerbo E, Momen NC, Rommel AS, **Lupattelli A,** Bergink V, Munk-Olsen T. Antidepressant discontinuation before or during pregnancy and risk of psychiatric emergency in Denmark: A population-based propensity score-matched cohort study. PLoS Med. 2022 Jan 31;19(1):e1003895.

(5) Thurin N, Pajouheshnia R, Roberto G, Dodd C, Hyeraci G, Bartolini C, Paoletti O, **Nordeng H**, Kildemoes HW, Ehrenstein V, Dudukina E, MacDonald T, De Paoli G, Loane M, Damase-Michel C, Beau AB, Droz-Perroteau C, Lassalle R, Bergman J, Swart K, Schink T, Cavero-Carbonell C, Barrachina-Bonet L, Gomez-Lumbreras A, Giner-Soriano M, Aragón M, Neville AJ, Puccini A, Pierini A, Ientile V, Trifirò G, Rissmann A, Leinonen M, Martikainen V, Jordan S, Thayer D, Scanlon I, Georgiou ME, Cunnington M, Swertz M, Sturkenboom M, Gini R. From Inception to ConcePTION: Genesis of a Network to Support Better Monitoring and Communication of Medication Safety During Pregnancy and Breastfeeding. Clinical Pharmacology and Therapeutics Jan 2022; 111(1): 321-331.

February

(6) **Lupattelli A,** Barone-Adesi F, **Nordeng H.** Association between antidepressant use in pregnancy and gestational diabetes mellitus: Results from the Norwegian Mother, Father and Child Cohort Study. Pharmacoepidemiol Drug Saf. 2022 Feb;31(2):247-256.

(7) Grzeskowiak LE, Saha MR, **Nordeng H, Ystrom E,** Amir LH. Perinatal antidepressant use and breastfeeding outcomes: Findings from the Norwegian Mother, Father and

Child Cohort Study. Acta Obstet Gynecol Scand. 2022 Feb 16. doi: 10.1111/aogs.14324.

(8) Yang S, **Trinh NTH,** Chalumeau M, Kaguelidou F, Ruemmele FM, Milic D, Lemaitre M, Cohen JF, **Taine M.** Pediatric Prescriptions of Proton Pump Inhibitors in France (2009-2019): A Time-Series Analysis of Trends and Practice Guidelines Impact. J Pediatr. 2022 Feb 1:S0022-3476(22)00072-5.

(9) Kittel-Schneider S, Felice E, Buhagiar R, Lambregtse-van den Berg M, Wilson CA, Banjac Baljak V, Vujovic KS, Medic B, Opankovic A, Fonseca A, **Lupattelli A**. Treatment of Peripartum Depression with Antidepressants and Other Psychotropic Medications: A Synthesis of Clinical Practice Guidelines in Europe. Int J Environ Res Public Health. 2022 Feb 10;19(4):1973.

March

(10) **Trinh NTH,** de Visme S, Cohen JF, Bruckner T, Lelong N, Adnot P, Rozé JC, Blondel B, Goffinet F, Rey G, Ancel PY, Zeitlin J, Chalumeau M. Recent historic increase of infant mortality in France: A time-series analysis, 2001 to 2019. Lancet Reg Health Eur. 2022 Mar 1;16:100339.

(11) Jacobsen R, Almarsdóttir AB, Cantarero-Arevalo L, **Granås AG,** Hansen JM, Henman MC, Jacobsen SN, Kaae S, Nørgaard LS, Taxis K, Sporrong SK. Online and Blended Learning Courses for Healthcare Professionals and Policymakers on Patients' Perspectives on Medicine: A Project Report. Pharmacy (Basel). 2022 Mar 16;10(2):39.

(12) **Lupattelli A, Trinh NTH.** Polysubstance Exposure During Pregnancy and Attention-Deficit/Hyperactivity Disorder in Offspring-Methodological Challenges and Opportunities for Future Research. JAMA Netw Open. 2022 Mar 1;5(3):e221964.

(13) Barbieri E, Liberati C, Cantarutti A, Di Chiara C, **Lupattelli A**, Sharland M, Giaquinto C, Hsia Y, Doná D.Antibiotic Prescription Patterns in the Paediatric Primary Care Setting before and after the COVID-19 Pandemic in Italy: An Analysis Using the AWaRe Metrics. Antibiotics (Basel). 2022 Mar 29;11(4):457.

April

(14) **Hjorth S, Nordeng H.** Does antibiotic treatment choice in pregnancy affect child cancer risk? BestPractice Nordic. 2022 April.

(15) Gerbier E, Favre G, **Tauqeer F**, Winterfeld U, Stojanov M, Oliver A, Passier A, **Nordeng H,** Pomar L, Baud D, Panchaud A, Meyer-Massetti C, Ceulemans M. Self-Reported Medication Use among Pregnant and Postpartum Women during the Third Wave of the COVID-19 Pandemic: A European Multinational Cross-Sectional Study. Int J Environ Res Public Health. 2022 Apr 27;19(9):5335.

(16) Slattery J, Quinten C, Candore G, Pinheiro L, Flynn R, Kurz X, **Nordeng H.** Ondansetron use in nausea and vomiting during pregnancy: A descriptive analysis of prescription

patterns and patient characteristics in UK general practice. Br J Clin Pharmacol. 2022 Apr 28.

(17) **Trinh NTH, Nordeng HME,** Bandoli G, Eberhard-Gran M, **Lupattelli A.** Antidepressant and mental health care utilization in pregnant women with depression and/or anxiety: An interrupted time-series analysis. J Affect Disord. 2022 Apr 21;308:458-465.

(18) Pavlović M, Al Hajj GS, Pensar J, **Wood M**, Sollid, LM, Greiff V, Sandve GK. Improving generalization of machine learning-identified biomarkers with causal modeling: an investigation into immune receptor diagnostics. Under review. https://arxiv.org/abs/2204.09291

May

(19) **Lupattelli A, Nordeng H.** Does Intrapartum Epidural Analgesia Increase the Risk of Autism Spectrum Disorder in Offspring? Most Likely Not. JAMA Netw Open. 2022 May 2;5(5):e2214279.

(20) Ceulemans M, Sillis L, Foulon V, Panchaud A, Winterfeld U, Pomar L, Cleary B, O'Shaughnessy F, Passier A, Richardson JL, **Nordeng H.** Comment to "Pregnancy and COVID-19, focus on vaccine and pharmacological treatment". J Reprod Immunol. 2022 May 10;152:103639.

(21) Tesli M, Degerud E, Plana-Ripoll O, Gustavson K, Torvik FA, **Ystrom E**, Ask H, Tesli N, Høye A, Stoltenberg C, Reichborn-Kjennerud T, Nesvåg R, Naess Ø. Educational attainment and mortality in schizophrenia. Acta Psychiatr Scand. 2022 May;145(5):481-493.

(22) Haan E, Sallis HM, Zuccolo L, Labrecque J, **Ystrom E,** Reichborn-Kjennerud T, Andreassen O, Havdahl A, Munafò MR. Prenatal smoking, alcohol and caffeine exposure and maternal-reported attention deficit hyperactivity disorder symptoms in childhood: triangulation of evidence using negative control and polygenic risk score analyses. Addiction. 2022 May;117(5):1458-1471.

(23) Rajula HSR, Manchia M, Agarwal K, Akingbuwa WA, Allegrini AG, Diemer E, Doering S, Haan E, Jami ES, Karhunen V, Leone M, Schellhas L, Thompson A, van den Berg SM, Bergen SE, Kuja-Halkola R, Hammerschlag AR, Järvelin MR, Leval A, Lichtenstein P, Lundstrom S, Mauri M, Munafò MR, Myers D, Plomin R, Rimfeld K, Tiemeier H, **Ystrom E**, Fanos V, Bartels M, Middeldorp CM. Overview of CAPICE-Childhood and Adolescence Psychopathology: unravelling the complex etiology by a large Interdisciplinary Collaboration in Europe-an EU Marie Skłodowska-Curie International Training Network. Eur Child Adolesc Psychiatry. 2022 May;31(5):829-839.

June

(24) **Harris GM, Wood M, Ystrom E, Nordeng H.** Association of Maternal Use of Triptans During Pregnancy With Risk of Attention-Deficit/Hyperactivity Disorder in Offspring. JAMA Netw Open. 2022 Jun 1;5(6):e2215333.

(25) Wegler C, Saleh A, Lindqvist A, **Nordeng H,** Smeraglia J, Baranczewski P. Simple and rapid quantification of cetirizine, venlafaxine, and O-desmethylvenlafaxine in human breast milk, and metformin in human milk and plasma with UHPLC-MS/MS. J Chromatogr B Analyt Technol Biomed Life Sci. 2022 Jun 16;1205:123340

(26) Agh T, Hadziabdic MO, Garuoliene K, **Granas AG**, Aarnio E, Menditto E, Gregorio J, Barnestein-Fonseca P, Mevsim V, Kardas P. Reimbursed medication adherence enhancing interventions in European countries: Results of the EUREcA study. Front. Pharmacol. June 17 2022 (online) https://doi.org/10.3389/fphar.2022.892240

(27) **Olstad EW, Nordeng HME,** Sandve GK, Lyle R, **Gervin K.** Low reliability of DNA methylation across Illumina Infinium platforms in cord blood: implications for replication studies and meta-analyses of prenatal exposures. Clinical Epigenetics 2022 Jun 28; 14.(1): 80. doi: 10.1186/s13148-022-01299-3.

(28) **Hjorth S**, Pottegård A, Broe A, Hemmingsen CH, Leinonen M, Hargreave M, Nörby U; **Nordeng H**. Prenatal exposure to nitrofurantoin and risk of childhood leukaemia: A registry-based cohort study in four Nordic countries. International Journal of Epidemiology June 2022; 51(3): 778-788.

July

(29) **Ngo E, Truong MBT,** Wright D, **Nordeng H.** Impact of a mobile application for tracking nausea and vomiting during pregnancy (NVP) on NVP symptoms, quality of life, and decisional conflicts regarding NVP. JMIR mHealth and uHealth. JMIR mHealth and uHealth 2022 Jul 5; 10 7 (e36226).

(30) **Trønnes JN**, **Lupattelli A**, **Ystrøm E**, **Nordeng H**. Analysis of Prenatal Exposure to Opioid Analgesics and Scholastic Skills in Children in Fifth Grade in Norway. JAMA Network Open Jul 1 2022; 5(7): 1-14. doi: 10.1001/jamanetworkopen.2022.22425.

(31) Aymone M, Heap W, **Zhao J.** (2022) Sign changes of the partial sums of a random multiplicative function. Bulletin of the London Mathematical Society https://doi.org/10.1112/blms.12710 .

August

(32) Burvenich R, Dillen H, **Trinh NTH**, Freer J, Wynants L, Heytens S, De Sutter A, Verbakel JY. Antibiotic use in ambulatory care for acutely ill children in high-income countries: a systematic review and meta-analysis. Arch Dis Child. 2022 Dec;107(12):1088-1094. doi: 10.1136/archdischild-2022-324227.

September

(33) **Ngo ETP**, Truong MBT, Wright DJ, **Nordeng H**. Erratum: Authorship Correction: Impact of a Mobile Application for Tracking Nausea and Vomiting During Pregnancy (NVP) on NVP Symptoms, Quality of Life, and Decisional Conflict Regarding NVP Treatments: MinSafeStart Randomized Controlled Trial. JMIR mHealth and uHealth 2022 Jul 5; 10 7 (e36226). JMIR Mhealth Uhealth. 2022 Sep 26;10(9):e41927. doi: 10.2196/41927.

(34) Bjørndal LD, **Tauqeer F**, Heiervang KS, Clausen HK, Heitmann K, **Lupattelli A**. Perceived risk of neurodevelopmental outcomes in offspring related to psychotropic and mental illness exposures in pregnancy and breastfeeding: a cross-sectional survey of women with past or current mental illness. BMJ Open. 2022 Sep 30;12(9):e061159. doi: 10.1136/bmjopen-2022-061159.

(35) **Robinson EG**, Hedna K, Hakkarainen KM, Gyllensten H (2022) Healthcare costs of adverse drug reactions and potentially inappropriate prescribing in older adults: a population-based study. BMJ Open 12:e062589

October

(36) Samara A, Spildrejorde M, Sharma A, Falck M, Leithaug M, Modafferi S, Bjørnstad PM, **Gervin K**, Lyle R, Eskeland R. A multi-omics approach to visualize early neuronal differentiation in 4D. iScience 2022 Oct 4;25(11):105279. doi: 10.1016/j.isci.2022.105279. eCollection 2022 Nov 18.

(37) Motrico E, Moreno-Peral P, Uriko K, Hancheva C, Brekalo M, Ajaz E, Apter G, Bramante A, Conejo-Cerón S, Christoforou A, Dikmen-Yildiz P, Evagorou O, Fonseca A, **Lupattelli A**, Radoš SN, Al Maach N, Rodriguez-Muñoz MF, Žutić M, Lambregtse-van den Berg MP. Clinical practice guidelines with recommendations for peripartum depression: A European systematic review. Acta Psychiatr Scand. 2022 Oct;146(4):325-339. doi: 10.1111/acps.13478.

(38) Johansen JS, Halvorsen KH, Svendsen K, Havnes K, **Robinson EG**, Wetting HL, Haustreis S, Småbrekke L, Kamycheva E, Garcia BH (2022) Interdisciplinary collaboration across secondary and primary care to improve medication safety in the elderly (The IMMENSE study) - a randomized controlled trial. BMC Health Serv Res 22:1290.

November

(39) Favre G, Gerbier E, Maisonneuve E, Pomar L, Winterfeld U, Lepigeon K, Bloemenkamp KWM, De Bruin O, **Hurley E**, **Nordeng H**, Siiskonen SJ, Sturkenboom MCJM, Baud D, Panchaud A, COVI-PREG, CONSIGN group. Covid-19 related medicine utilization study in pregnancy – the COVI-PREG cohort. Br J Clin Pharmacol 2022 Nov 23; doi: 10.1111/bcp.15611. Online ahead of print.

(40) **Mitter V**, Kohl Schwartz AS, Rueegg CS. Letter to the Editor. No Clear Answer on the Association of Assisted Reproductive Technology and Prevalence of Breastfeeding at different time points. Breastfeeding Medicine (accepted November 27, 2022).

December

(41) **Trinh NTH**, **Nordeng HME**, Bandoli G, Palmsten K, Eberhard-Gran M, **Lupattelli A**. Antidepressant Fill and Dose Trajectories in Pregnant Women with Depression and/or Anxiety: A Norwegian Registry Linkage Study. Clinical Epidemiology. 5 December 2022; 2022:14 1439—1451. DOI https://doi.org/10.2147/CLEP.S379370.

(42) **Trinh NTH**, Semark BD, Munk-Olsen T, Liu X, Rø Ø, Bulik CM, Torgersen L, **Lupattelli A**, Petersen L. Psychiatric visits during the postpartum year in women with eating disorders who continue or discontinue antidepressant treatment in pregnancy. International Journal of Eating Disorders (accepted on December 6, 2022).

(43) **Tauqeer F**, Ceulemans M, Gerbier E, Passier A, Oliver A, Foulon V, Panchaud A, **Lupattelli A**, **Nordeng H**. Mental health of pregnant and postpartum women during the third wave of the Covid-19 pandemic – a European cross-sectional study BMJ Open, accepted, December 7, 2022.

(44) Noh Y, Jeong HE, Choi A, Choi EY, Pasternak B, **Nordeng H**, Bliddal M, Man KKC, Wong ICK, Yon DK, Shin JY. Prenatal and Infant Exposure to Acid-Suppressive Medications and Risk of Allergic Diseases in Children: A Nationwide Cohort Study with Sibling-Matched Analysis. **JAMA Pediatrics** (in press).

(45) Spildrejorde M, Samara A, Sharma A, Leithaug M, Falck M, Modafferi S, Sundaram AYM, Acharya G, **Nordeng H**, Eskeland R, **Gervin K**, Lyle R. Multi-omics analysis of paracetamol exposure identifies dysregulated genes involved in neurotoxicity and neuronal differentiation of human embryonic stem cells. Genome Biology (submitted). *Also published on bioRxiv*.
https://www.biorxiv.org/content/10.1101/2022.12.08.519620v1

(46) **Sundbakk L**, Gran JM, **Wood M**, Handal M, Skurtveit S, **Nordeng H**. Association of Prenatal Exposure to Benzodiazepines and Z-Hypnotics With Risk of Attention-Deficit/Hyperactivity Disorder in Childhood. JAMA Network Open. 2022 Dec 1; 5 (12):e2246889. doi: 10.1001/jamanetworkopen.2022.46889.

National publications

(47) **Granås AG,** Spigset O, Ruths S, Ranhoff AH, Bakken MS. Avmedisinering i siste leveår – praktisk beslutningsstøtte [Deprescribing in the last year of life – practical support to decision-making]. Tidsskr Nor Laegeforen. 2022 Jan 31;142(2). Norwegian.

(48) **Mulac A**, Feilmedisinering på sykehus. Medication errors in hospitals: Exploring medication safety through incident reports and observation of practice. Doctoral dissertation abstract and main findings in Norwegian. Farmatid - the Norwegian Pharmaceutical Journal. Aug 2022.

https://www.farmatid.no/getfile.php/1338675660298355/Farmatid/PDFer/2022/NFT%20nr%206-2022_s_25-26.pdf

Books and book chapters

(49) **Nordeng HME.** ENCePP Guide Rev. 10. Evaluation of medicines in pregnancy and lactation, June 2022.

(50) **Nordeng HME.** Drug Utilization Studies in Pregnancy, In: Drug Utilization Research – Methods and Applications. Publisher John Wiley & Sons; Textbook, revision, 2022.

(51) **Nordeng HME,** Jirasova E, Spigset O**.** Chapter 15. Safe prescribing and drug use in pregnancy and breastfeeding. In Pharmacovigilance and Drug Safety in Clinical Practice, A. Cox, J. José (Eds.), textbook. Publisher: Springer Nature, accepted, 2022.

(52) **Jøsendal AV**, Bergmo TS, **Granås AG**. Chapter 15. Multidose Drug Dispensing in Primary Care: A Review of the Literature. In Medication Safety in Municipal Health and Care Services. Rose Mari Olsen, Hege Sletvold (ed.), textbook. Publisher Cappelen Damm Akademisk. Nov 2022. Medication Safety in Municipal Health and Care Services | Nordic Open Access Scholarly Publishing

(53) **Mulac A**, **Granås AG**. Chapter 7: Detecting Medication Errors and Adverse Drug Events: A Review of Current Methodologies. In Medication Safety in Municipal Health and Care Services. Rose Mari Olsen, Hege Sletvold (ed.), textbook. Publisher Cappelen Damm Akademisk. Nov 2022. Medication Safety in Municipal Health and Care Services | Nordic Open Access Scholarly Publishing

(54) Krogstad T, Larsen R, Holm LB, Landmark CJ, **Granås AG**. Chapter 10: Patient-Centered Communication and Counseling to Ensure Patient Safety Through Correct Use of Medicines: Experiences and Challenges. In Medication Safety in Municipal Health and Care Services. Rose Mari Olsen, Hege Sletvold (ed.), textbook. Publisher Cappelen Damm Akademisk. Nov 2022. Medication Safety in Municipal Health and Care Services | Nordic Open Access Scholarly Publishing

Conference presentations

(1) **Tauqeer F.** Mental health of pregnant and postpartum women during the third wave of the Covid-19 pandemic – a European cross-sectional study. OTIS, June 2022.

(2) **Lupattelli A**. Association of Prenatal Antidepressant Exposure with Trajectories and Acceleration of Body Mass Index in Children from 6 Week to 8 Years of Age. ICPE annual meeting, August 2022 (oral presentation).

(3) **Trinh NTH.** Antidepressant Treatment in Pregnancy and Maternal Mental Health in the Postpartum Year: A Danish Registry Linkage Study in Pregnant Women with Obsessive-compulsive Disorder. ICPE annual meeting, August 2022 (oral presentation).

(4) **Lupattelli A**. Antidepressant continuation and adherence in pregnancy and risk of antenatal hospital admission for depression and/or anxiety. ICPE annual meeting, August 2022 (poster presentation).

(5) **Trinh NTH.** Association between antidepressant use patterns on the long-term trajectories of depressive and anxiety symptoms and health-related quality of life. ICPE annual meeting, August 2022 (poster presentation).

(6) **Tauqeer F**. Barriers and enablers of decision-making considering use of antidepressants – a mixed-method study among pregnant and postpartum women with a mental illness. ICPE annual meeting, August 2022 (poster presentation).

(7) **Lupattelli A**. Decisional conflicts about antidepressant treatment in pregnant women in Norway. ICPE annual meeting, August 2022 (poster presentation).

(8) **Lupattelli A**. Prenatal exposure to antidepressants and risk of overweight and obesity in offspring at age 8 years. ICPE annual meeting, August 2022 (poster presentation).

(9) **Lupattelli A (co-author)**. VAC4EU active safety surveillance study of the BNT162b2 COVID-19 vaccine in five European countries: study design and first results. ICPE annual meeting, August 2022 (poster presentation).

(10) **Lupattelli A.** The long-term metabolic safety of antidepressants in pregnancy on the offspring. Marce society international meeting, London, September 2022 (workshop).

(11) **Wood M.** Methodologic considerations for emulating an RCT for discontinuation of antidepressant treatment in pregnancy. ICPE annual meeting, August 2022 (poster presentation).

(12) **Wood M.** Utility of sibling designs for confounding control when exposure affects fertility. SPER annual meeting, Chicago, IL, USA, June 2022 (oral presentation).

(13) **Wood M.** Utility of sibling designs for confounding control when exposure affects fertility. SER annual meeting, Chicago, IL, USA, June 2022 (poster presentation).

(14) **Wood M.** Medication safety in pregnancy: what can we really learn from real-world evidence? CNODES monthly research symposium, June 3, 2022 (online).

(15) Abellan A, Burn E, **Trinh NTH**, Fernández-Bertolín S, **Hurley E**, Morales DR, **Nordeng HME**, Duarte-Salles T. Pregnancy extension table in the OMOP CDM. OHDSI Europe symposium collaborator showcase, Rotterdam, June 2022 (poster).

(16) **Trinh NTH**, Houghtaling J, Bernal FLM, **Hurley E**, Gesquiere E, Halvorsen L, **Nordeng HME**. Norwegian registries onto OMOP Common Data Model: mapping challenges and opportunities for pregnancy studies. OHDSI Europe symposium collaborator showcase, Rotterdam, June 2022 (oral presentation + poster).

(17) Limoncella G, Bartolini C, Duran C, Girardi A, Hyeraci G, Riera-Arnau J, Llorente A, Soriano LC, Martín-Pérez M, Garcia P, Sanchez-Saez F, Sanfélix-Gimeno G, **Nordeng HME**, **Hurley E**, Maglanoc LA, Holthuis E, Swart-Polinder K, Ientile V, Tanaglia M, Brown J, Wing K, Schink T, Pajouheshnia R, Cunnington M, Sturkenboom M, Gini R. Extracting pregnancies from heterogeneous data sources in Europe: a novel

algorithm in the ConcePTION project. ICPE August 2022, Copenhagen, Denmark (poster).

(18) Bandoli G, Chambers C, Yao L, **Nordeng HME**, Ito S, Industry representative TBD, Palmsten K. Meeting the Need for Research on Drug Safety During Lactation: An Overview of Approaches. ICPE August 2022, Copenhagen, Denmark (MiPaL endorsed symposium).

(19) Ukah UV, Platt R, **Nordeng H**. Trends in cardiovascular prescription before and during the covid-19 pandemic. ICPE August 2022, Copenhagen, Denmark (late breaking poster).

(20) Hargreave M, Kjaer SK, **Hjorth S**, Nörby U,Schmiegelow K, Skovlund CW, Bénévent J, Leinonen MK, **Nordeng HME**, Mørch LS, Hemmingsen CH. Maternal hormonal contraception use and childhood leukaemia risk: A Scandinavian population-based cohort study. ANCR 2022, Tórshavn, Faroe Islands, 14–16 September 2022.

(21) Leinonen MK, Seppälä LK, Bénévent J, Hargreave M, Hemmingsen CH, **Hjorth S**, Kjaer SK, Mørch LS, Nörby U, **Nordeng HME**. Risk of childhood leukemia and lymphoma after in-utero exposure to maternal diabetes and antidiabetics – a Nordic population-based study. ANCR 2022, Tórshavn, Faroe Islands, 14–16 September 2022.

(22) Maisonneuve E, de Bruin O, Favre G, Goncé A, Donati S, Engjom H, **Hurley E**, **Nordeng HME**, Al Fadel N, Bloemenkamp K, Siiskonen S, Baud D, Sturkenboom M, Panchaud A. Evolution of the national guidelines on the medicines used to treat COVID-19 in pregnancy: a historical review. ENTIS conference, Bergamo, Italy, September 2022 (poster).

(23) Favre G, Gerbier E, Maisonneuve E, Pomar L, Winterfeld U, Sturkenboom MCJM, **Hurley E**, **Nordeng HME**, Engjom H, Bloemenkamp KWM, de Bruin O, Siiskonen S, Baud D, Panchaud A (on the behalf of the COVI-PREG group). COVID-19 related drug utilization study in pregnancy – the COVI-PREG cohort. ENTIS conference, Bergamo, Italy, September 2022 (poster).

(24) **Tauqeer F**, Ceulemans M, Gerbier E, Passier A, Richardson JL, Oliver A, Foulon V, Panchaud A, **Lupattelli A**, **Nordeng HME**. Mental health of pregnant and postpartum women during the third wave of the Covid-19 pandemic – a European cross-sectional study. ENTIS conference, Bergamo, Italy, September 2022 (poster).

(25) **Lupattelli A**, Corrao G, Gatti C, Rea F, **Trinh NTH**, Cantarutti A. Antidepressant Continuation and Adherence in Pregnancy and Risk of Antenatal Hospital Admission for Depression and/or Anxiety. Abstracts of the 38th International Conference on Pharmacoepidemiology: Advancing Pharmacoepidemiology and Real-World Evidence for the Global Community, Copenhagen, Denmark, August 26–28, 2022. Light spot session abstract (oral presentation).

(26) Pedroncelli M, **Trinh NTH**, **Sina Rostami**, **Lupattelli A**. Association of Prenatal Antidepressant Exposure with Trajectories and Acceleration of Body Mass Index in Children from 6 Weeks to 8 Years of Age. Abstracts of the 38th International

Conference on Pharmacoepidemiology: Advancing Pharmacoepidemiology and Real-World Evidence for the Global Community, Copenhagen, Denmark. August 26–28, 2022. Spotlight session abstract (oral presentation).

(27) **Trinh NTH**, Semark BD, Munk-Olsen T, Liu X, Thapa SB, Yilmaz Y, Petersen LV, **Lupattelli A**. Antidepressant treatment in pregnancy: a Danish registry linkage study in pregnant women with pre-existing obsessive-compulsive disorder. Abstracts of the 38th International Conference on Pharmacoepidemiology: Advancing Pharmacoepidemiology and Real-World Evidence for the Global Community, Copenhagen, Denmark. August 26–28, 2022. Spotlight session abstract (oral presentation).

(28) Liu X, Molenaar N, Agerbo E, Momen NC, Rommel AS, **Lupattelli A**, Bergink V, Munk-Olsen T. Antidepressant discontinuation before or during pregnancy and risk of psychiatric emergency in Denmark: A population-based propensity score-matched cohort study. NordicEPI 2022 Reykjavik, Iceland, August 18 – 19, 2022 (oral presentation).

(29) **Trinh NTH**, Munk-Olsen T, Wray NR, Bergink V, **Nordeng HME**, **Lupattelli A**, Liu X. Timing of antidepressant discontinuation during pregnancy and psychiatric outcomes in the postpartum: a cohort study based on Danish and Norwegian nationwide registers. NordicEPI 2022 Reykjavik, Iceland, August 18 – 19, 2022 (oral presentation).

(30) **Lupattelli A**. Long-term safety of antidepressants in pregnancy on metabolic health outcomes in offspring. The International Marce Society for Perinatal Mental Health Meeting, London, United Kingdom, 19-23 September 2022 (oral presentation).

(31) **Trinh NTH**, Munk-Olsen T, Wray NR, Bergink V, **Nordeng HME**, **Lupattelli A**, Liu X. Timing of antidepressant discontinuation during pregnancy and psychiatric outcomes in the postpartum: a cohort study based on Danish and Norwegian nationwide registers. The 14th annual NorPEN meeting on November 16-18 2022 (oral presentation).

(32) **Lupattelli A**. Causal analysis of vaccination in pregnancy. VERDI Second General Assembly Meeting. Online, 28-30 June 2022 (oral presentation).

(33) **Lupattelli A**. Association between SARS-CoV-2 infection and its variants with placental weight and birthweight-to placental weight ratio - a planned national registry linkage study in Norway. VERDI Second General Assembly Meeting. Online, 28-30 June 2022 (oral presentation).

(34) **Žugić M**, **Trinh NTH**, **Lupattelli A**. Preventative association of antidepressant treatment in pregnant women with eating disorders on antenatal mental outcomes - results from the Norwegian Mother, Father, and Child Cohort Study. The 28th Norwegian Epidemiological Association (NOFE) conference, 26-27 October 2022, Tromsø (oral presentation).

(35) Pedroncelli M, **Trinh NTH**, **Rostami S**, **Lupattelli A**. Prenatal Exposure to Antidepressants and Risk of Overweight and Obesity in Offspring at Age 8 Years.

Abstracts of the 38th International Conference on Pharmacoepidemiology: Advancing Pharmacoepidemiology and Real-World Evidence for the Global Community, Copenhagen, Denmark, August 26–28, 2022 (poster).

(36) Shabat LJ, **Tauqeer F**, **Lupattelli A**. Decisional conflict about antidepressant treatment in pregnant women with a mental illness in Norway. Abstracts of the 38th International Conference on Pharmacoepidemiology: Advancing Pharmacoepidemiology and Real-World Evidence for the Global Community, Copenhagen, Denmark, August 26–28, 2022 (poster).

(37) **Trinh NTH**, Semark BD, Munk-Olsen T, Liu X, Rø Ø, Bulik CM, Torgersen L, **Lupattelli A**, Petersen LV. Psychiatric visits during the postpartum year in women with eating disorders who continue or discontinue antidepressant treatment in pregnancy. Abstracts of the 38th International Conference on Pharmacoepidemiology: Advancing Pharmacoepidemiology and Real-World Evidence for the Global Community, Copenhagen, Denmark. August 26–28, 2022 (poster).

(38) **Tauqeer F**, **Lupattelli A**. Barriers and enablers of decision-making considering use of antidepressants – a mixed-method study among pregnant and postpartum women with a mental illness. Abstracts of the 38th International Conference on Pharmacoepidemiology: Advancing Pharmacoepidemiology and Real-World Evidence for the Global Community, Copenhagen, Denmark, August 26–28, 2022, (poster).

(39) **Trinh NTH**, Perrier F, **Nordeng H, Lupattelli A**. Association between antidepressant use patterns on the long-term trajectories of depressive and anxiety symptoms and health-related quality of life. Abstracts of the 38th International Conference on Pharmacoepidemiology: Advancing Pharmacoepidemiology and Real-World Evidence for the Global Community, Copenhagen, Denmark, August 26–28, 2022, (poster).

(40) Weibel D, Sturkenboom M, Eijkemans R, van den Bor R, Elbers R, Plana E, de Albeniz XG, Weinrib R, Yefimenko N, Poblador-Plou B, Bianchini E, Stona L, Swart K, Bartolini CC, Hyeraci G, Roy D, **Lupattelli A,** Villalobos F, Barbieri E, Garg R, Rubino H, De Luise C, Arana A. VAC4EU active safety surveillance study of the BNT162B2 COVID-19 vaccine in five European countries: Study design and first results. Abstracts of the 38th International Conference on Pharmacoepidemiology: Advancing Pharmacoepidemiology and Real-World Evidence for the Global Community, Copenhagen, Denmark, August 26–28, 2022, (poster).

(41) **Olstad EW**, **Nordeng H**, Lyle R, **Gervin K**. DNA methylation in umbilical cord blood – Associations with prenatal (es)citalopram exposure and neurodevelopmental outcomes. Epigenomics of common diseases, Hinxton, England, November 16–18, 2022 (poster).

(42) **Robinson EG**, Pham S, Gyllensten H, **Granas AG**, Havnes K, Bergmo T, Garcia BH, Halvorsen KH. Health-Related Quality of Life Among Acutely Hospitalized Older Adults. International Society for Medication Adherence (ESPACOMP) 26th ESPACOMP Conference – Berlin, Germany, November 17-19, 2022 (poster).

(43) **Robinson EG**, Gyllensten H, **Granas AG**, Havnes K, Bergmo TS, Halvorsen KH, Garcia BH. Healthcare Utilization and Costs Among Acutely Hospitalized Older Adults. ISPOR Europe 2022, Vienna, Austria, November 6-9, 2022 (poster).

(44) Jeanette Schultz Johansen, Kjell H. Halvorsen, Kristian Svendsen, Kjerstin Havnes, **Eirin Guldsten Robinson**, Hilde Ljones Wetting, Stine Haustreis, Lars Småbrekke, Elena Kamycheva, Beate Hennie Garcia. IMMENSE-studien- Et tverrfaglig samarbeid mellom sykehus og primærhelsetjeneste for å optimalisere legemiddelbruk hos eldre – en randomisert klinisk studie. Farmasidagene, Oslo, Norway, November 10-11, 2022 (poster).

(45) **Pedersen E, Lupattelli A, Nordeng H.** Primary care diagnoses in patients developing Post COVID-19 Condition. The 28th Norwegian Epidemiological Association (NOFE) conference, October 26-27, 2022 (poster).

(46) **Nordeng H, Pedersen E, Hurley E, Zhao J, Trinh N, Lupattelli A**. EU-COVID-19 - a multinational registry-based study with focus on risk and protective factors, clinical outcomes and mental health. COVID-19: Research in the Wake of the Pandemic, September 8, 2022 (poster).

(47) **Jøsendal AV, Granås AG,** Bergmo TS. From paper-based to electronic prescribing of multidose drug dispensing — a longitudional study of prescription changes. The 26th Annual ESPACOMP Conference, November 17-19 November, 2022 (oral presentation).

(48) **Jøsendal AV**, Bergmo TS, **Granås AG**. Patient's experiences with multidose drug dispensing – a qualitative study. The 26th Annual ESPACOMP Conference, November 17-19, 2022 (poster).

(49) **Rostami S**, Lyle R, Bjørge T, Pestarino L, Rounge T, Langseth H. Pre-diagnostic circulating RNAs in endometrial cancer – impact of body mass index. The Association of the Nordic Cancer Registries (ANCR), Tórshavn, Faroe Islands, September 2022 (poster).

(50) **Rostami S**. Construction and evaluation of polygenic risk scores using the widely used PRSice2 program. Educational workshop on genetics and epigenetics and its applications in pharmacoepidemiology, University of Oslo, September 2022 (workshop).

(51) **Hurley E**, Poblador-Plou B, Sanfelix-Gimeno G, Sanchez-Saez F, Hurtado I, Rodriguez-Bernal CL, Jordan S, Thayer D, Scanlon I, Jones C, Bartolini C, Limoncella G, Gini R, Sturkenboom M, **Nordeng H**. COVID-19 infection and medication use in pregnancy (CONSIGN) – a multinational drug utilisation study using linked healthcare data. Abstracts of the 38th International Conference on Pharmacoepidemiology: Advancing Pharmacoepidemiology and Real-World Evidence for the Global Community, Copenhagen, Denmark, August 26–28, 2022 (poster).

(52) **Wood M.** Medication safety in pregnancy: what can we really learn from real-world evidence? NorPEN monthly research seminar series, October 20, 2022 (online).

International external lectures

(1) **H. Nordeng.** European Initiatives to improve Knowledge about Medication Safety in Pregnancy and Lactation. DPMH Scientific Rounds, FDA March 21, 2022 (webinar).

(2) **H. Nordeng.** The levocetrizine human lactation study. ConcePTION GA, April 7, 2022 (webinar).

(3) **H. Nordeng.** European Initiatives to improve Knowledge about Medication Safety in Pregnancy and Lactation, Guest lecture. Univ. Bordeaux, France, May 20, 2022 (on site).

(4) **H. Nordeng.** The levocetrizine human lactation study. ConcePTION Open Meeting, May 24, 2022 (webinar).

(5) **Lupattelli A**. Understanding benefits and risks of psychotropic treatment in perinatal women. Lazio Regional Unit of epidemiology, Rome, Italy, June 16, 2022 (on site).

(6) **Lupattelli A**. Understanding benefits and reproductive risks of psychotropic treatment in perinatal women - with special focus on timing of exposure. University of Milano-Bicocca, Italy, June 23, 2022 (webinar).

(7) **Lupattelli A**. VERDI consortium assembly – The Norwegian Health Registries. January 26, 2022 (online).

(8) **Granas AG.** Key lecture to the ENABLE Adherence workshop. Towards consensus on terminology of activities enabling medication adherence. Visit to MedTech enterprises network in the Municipality of Fredrikstad. COST Action ENABLE network, Blended meeting in Fredrikstad/Ski and online, June 24-25, 2022.

(9) **Björnsdóttir I.** A short presentation of UiO and how PharmacyGames will be used at UiO, Pharmacy Games Meeting, Groningen, the Netherlands, May 2022.

(10) **Wood M.** Medication safety in pregnancy: what can we really learn from real-world evidence? CNODES monthly research symposium, June 3, 2022 (online).

(11) **Granas AG.** What kind of innovation, research and change of practice is needed to reach our zero vision: Nobody should die due to medication errors during medicines management. HUS Pharmacy, Helsinki University Hospital and University of Helsinki, FInland. October 7, 2022.

(12) **H. Nordeng.** A Comparison of FDA and EMA Pregnancy and Lactation Labeling, PRAC CMDh SRLM Prague, 17-19 October 2022.

(13) **H. Nordeng.** Pregnancy Studies Using Real-world Data from Asia and Europe: Norwegian Mother, Father and Child Cohort Study (MoBa) with focus on neurodevelopmental outcomes. ERC STG project DrugsInPregnancy. ISPE's 14th Asian Conference on Pharmacoepidemiology, National Cheng Kung University, Tainan, Taiwan, 21—23 October 2022.

(14) **H. Nordeng.** Risk of childhood cancers after prenatal exposure to medications: a Nordic population-based cohort study, 14th annual NorPEN meeting, November 16-18, 2022, in Tampere, Finland.

(15) **Robinson EG**. The relationship between inappropriate prescribing, adverse drug reactions and healthcare costs in older adults. World-wide updates in Clinical Pharmacy and Pharmacy Practice Research, December 7, 2022 (webinar).

(16) **Nordeng H**. OMOP CMD. Seminar at the Norwegian Cancer Registry, October 21, 2022.

(17) **Nordeng H**. EHIN 2022. Debate participant. Hellerudsletta, November 9, 2022.

(18) **Nordeng H**. Safety of medicines and Covid-19 vaccines in women of child-bearing potential, pregnancy & breastfeeding. EMA Risk Management Day, December 6, 2022.

National external lectures

(1) **Mezori JJ**, Eikeland RS. Legemiddelhåndtering av risikolegemidler på sykehus. Mars 4, 2022. Webinarer - Ehealthresearch.no

(2) **Mulac A**, **Granås AG**. Forskning på uønskede hendelser ved norske sykehus. Data fra Meldeordningen- men hva nå? Nasjonalt kompetansenettverk for legemidler til barn, Nettverkseminar, Solstrand, Os. October 31, 2022. https://www.legemidlertilbarn.no/kursogkonferanser/Sider/Nettverksseminar/2022-Solstrand.aspx

(3) **Nordeng H.** Dialog om verdiskaping fra helsedata i Norge Hvordan kan helsedata i Norge skape mer verdier i form av bedre helse, mer forskning, større innsikt og mer innovasjon og næringsvekst? Fra ambisjon til realisering – hva må vi gjøre for å ta ut potensialet for verdiskaping? EHIN, Lillestrøm October 9, 2022.

(4) **Jøsendal AV.** E-multidose gir bedre oversikt, men også økt arbeidsmengde. Webinar. Co-organized by Department of Pharmacy, sykehusapotekene HF, sykehusapoteket Kalnes and Nasjonalt senter for e-helseforskning. September 30, 2022. Webinarer - Ehealthresearch.no

(5) **Jøsendal AV.** Forskning på multidose i e-resept. Farmaceutene, region nord. June 1, 2022.

(6) **Granås AG,** Forsdahl G**.** Riktig legemiddelbruk hos pasienter med psykisk utviklingshemming - et innovasjonsprosjekt med potensielt stor nasjonal verdi. Fagforum i Miljøtjenesten, Vestvågøy kommune, Lofoten. November 29, 2022.

Conferences, courses, and workshops organized by PharmaSafe

- COST Action ENABLE Working Group Meeting. Oslo, Norway, June 24-25, 2022. **Granås AG**. Supported by COST. COST Action ENABLE Working Group Meeting

- (Epi)genetics in Pharmacoepidemiology Workshop. Oslo, Norway, September 26-27, 2022. **Lupattelli A**, **Olstad EW**, **Trinh N**, **Rostami S**. Supported by UiO:Life Sciences and iAPOGEE. (Epi)genetics in Pharmacoepidemiology Workshop

International guest researchers

- **Thomas Boissiere-O'Neill,** University of Bordeaux, France. February 14–July 6, 2022
- **Ugochinyere Vivian Ukah,** Department of Epidemiology, Biostatistics, and Occupational Health, McGill University, Canada. March 16–May 31, 2022
- **Marleen van Gelder**, Radboud University, the Netherlands. June 20–July 2, 2022
- **Ilse Westerhof**, University Medical Center Utrecht, the Netherlands, September 19–December 21, 2022

Public lectures

(1) **Nordeng H.** Hvorfor bivirkninger er vanskelig og hva tallene hjelper oss med, Kroppen din og Tallene/Realfag og teknologi, Åpen dag, University of Oslo, March 10, 2022.

(2) **Mulac A.** Teknologi og digitalisering i helsetjenesten – potensiale til å forbedre pasientsikkerhet. Innovation tech camp (Ungt entreprenørskap), Glemmen videregående skole, Fredriksstad, Viken, May 30, 2022 (lecture).

(3) **Mulac A.** Feilmedisinering på sykehus. Fagdag, Avdeling for Anestesisykepleie, Oslo Universitetssykehus, May 23, 2022 (lecture).

(4) **Jøsendal AV.** Forskning på legemiddelfeltet og multidose i e-resept. Norges Farmaceutiske Forening. Fagkveld i Region Nord, June 1, 2022.

(5) **Björnsdóttir I.** Tjáningarfrelsið okkar allra [Freedom of expression for all of us]. Visir, February 21, 2022.

(6) **Granås AG**. Historier fra levde farmasiliv. Lecture and documentary film screening. University of Oslo, March 3, 2022. https://www.mn.uio.no/farmasi/om/fai-90/filmkveld.html

(7) **Granås AG**. Ode til Farmasibygget. Performance. Oslo, Norway, Oct 28, 2022. https://www.youtube.com/watch?v=QSggbIKnXJ8

(8) **Granås AG**. Apotekenes roller og oppgaver i dag og i fremtiden. Helse og omsorgsdepartementet. Faglig innlegg for Apotekutvalget. 3.mai 2022. https://www.regjeringen.no/contentassets/23516125501a411e9eb3e41ddcad4135/kgl.-res-oppnevning-av-14-medlemmer-til-utvalg-som-skal-utrede-fremtidens-apotek.pdf

(9) **Mulac A**, Kutchera Sund J. Digital utvikling i legemiddelhåndtering – hvordan kan teknologi avlaste risikosituasjoner?. Pasientsikkerhetsdagen 2022. Recorded studio talk from the Patient Safety Day Webinar, The Norwegian Directorate of Health, Sep 2022. https://www.youtube.com/watch?v=1iKh7c5CEuI

Media coverage

(1) Glimt fra Farmasidagene 2021 | Farmatid | **Nordeng HME**

(2) Legemidler og gravide | Podcast with Apotek 1 | **Nordeng HME**

(3) Nyare antidepressiva aukar ikkje risikoen for svangerskapsdiabetes | Titan | **Lupattelli A**

(4) Farmasistudentar bidrar på Store norske leksikon | FAI | Doan AL, Bratlie S, **Nordeng HME**

(5) Nyare antidepressiva: Aukar ikkje risikoen for svangerskapsdiabetes | Diabetesfag (via Retriever) | **Lupattelli A**

(6) Færre feil: Elektronisk legemiddelliste skal erstatta telefaksen | Titan | **Jøsendal AV**

(7) Færre feil: Elektronisk legemiddelliste skal erstatta telefaksen | digi.no | **Jøsendal AV**

(8) Elektronisk legemiddelliste skal erstatta telefaksen | forskning.no | **Jøsendal AV**

(9) Når folk står på 15 legemidler samtidig, blir det egentlig litt lapskaus | forskning.no | **Granås AG**

(10) Mindre antibiotikabruk blant norske gravide og ammande under fyrste pandemibylgje | Titan | **Nordeng HME**

(11) Mindre bruk av antibiotika blant gravide og ammande i Noreg under fyrste pandemibylgje | forskning.no | **Hedvig Nordeng**

(12) Kvinner brukar meir antibiotika når dei er med barn | Titan | **Trinh NTH**

(13) Mange gravide avbryt behandling mot depresjonar | Titan | **Trinh NTH**

(14) DEBATT: Kan du ta allergimedisin når du ammer? | Dagsavisen | **Ngo E**

(15) Mer samstemte legemiddellister med elektronisk multidose | Tidsskriftet for den norske legeforening | **Jøsendal AV**

(16) Liten risiko ved bruk av migrenemedisin under svangerskapet | Titan | **Harris GME**

(17) Medisin mot akutte migreneanfall fører ikkje til åtferdsvanskar når barnet veks til | forskning.no| **Harris GME**

(18) Triptans in Pregnancy and ADHD in Kids: New Reassuring Data | Medscape Neurology | **Nordeng HME** (interviewee)

(19) Prenatal triptan exposure does not increase ADHD risk in offspring | Healio Women's Health & OB/GYN | **Harris GME** (interviewee)

(20) Treatments for perinatal anxiety (to be published) | SLATE | **Nordeng HME** (interviewee)

(21) Store forskjellar mellom nasjonale retningslinjer for antidepressiva og svangerskap | Titan | **Lupattelli A**

(22) Kærir Landlækni fyrir lygar og telur þær valda útilokun frá störfum [Complains about the Directorate of Health lying and claims that this causes exclusion from jobs] | Visir | **Björnsdóttir I** (interviewee)

(23) Lyfjagagnagrunnur [The prescription registry] | Spegillinn | **Björnsdóttir I** (interviewee)

(24) PharmaSafe 1: Legemidler og pasientsikkerhet | YouTube | **Granås AG**

(25) PharmaSafe 2: Legemiddelbruk under amming | YouTube | **Nordeng HME**

(26) PharmaSafe 3: Use of medicine in pregnancy | YouTube | **Lupattelli**

(27) PharmaSafe 4: Legemidler og bivirkninger | YouTube | **Lupattelli A, Nordeng HME, Granås AG**

(28) Medication errors at hospitals - Exploring medication safety through error reports and observation of practice (video). 3 minute thesis (3MT). Bosnia and Herzegovina Futures Foundation | YouTube | **Mulac A**

(29) Har studert lukket legemiddelsløyfe ved Sykehuset Østfold Kalnes | Dagens Medisin | **Mulac A**

(30) Reknefeil i norske sjukehus trugar pasientsikkerheita | Titan | **Mulac A.**

(31) Reknefeil på sjukehus trugar pasient-sikkerheita | forskning.no| **Mulac A**

(32) Mange gravide avbryt behandling mot depresjonar | forskning.no | **Trinh N**

(33) Nyheter, Sykehuset Østfold Kalnes | Alma (35) med viktig sykehusforskning – Kalnes gjør endringer | Tønsbergs Blad Pluss | **Mulac A**

(34) Sykehuset Østfold Kalnes, Forskning | Alma (35) med viktig sykehusforskning – Kalnes gjør endringer| Fredriksstad Blad Pluss | **Mulac A**

(35) Nyhet, Sykehuset Østfold Kalnes | Alma (35) med viktig sykehusforskning – Kalnes gjør endringer | Sarpsborg Arbeiderblad| **Mulac A**

(36) Nyheter, Sykehuset Østfold Kalnes | Alma (35) med viktig sykehusforskning – Kalnes gjør endringer | Halden Arbeiderblad| **Mulac A**

(37) Helse, Sykehuset Østfold Kalnes | Alma (35) med viktig sykehusforskning – Kalnes gjør endringer | Moss Arbeiderblad| **Mulac A**

(38) Nederlendar syklar 2000 km for å samla inn pengar til forsking | Uniforum | **van Gelder M**

(39) Ulykker og hendelser, Færder | Roar fikk utdelt feil medisiner, men også flere piller enn han egentlig skulle ha: – Kunne vært farlig | Tønsbergs Blad| **Mulac A**

(40) – Viktig å forska på langtidseffektar på barnet av medisinbruk under svangerskapet | forskning.no| **Trønnes JN**

(41) – Viktig å forska på langtidseffektar på barnet av medisinbruk under svangerskapet | Titan| **Trønnes JN**

(42) Har undersøkt langtidseffekt ved bruk av smertestillende i svangerskap - Nyheter, Forskning, Legemidler| Dagens Medisin| **Trønnes JN**

(43) Forskjellige teknologiar gav vidt forskjellige forskingsresultat | forskning.no| **Olstad EW, Gervin K**

(44) Forskjellige teknologiar gav vidt forskjellige forskingsresultat | forskning.no| **Olstad EW, Gervin K**

(45) Legemiddelskader på sykehus øker | vi.no| **Mulac A**

(46) Syriske innvandrarar får mindre antibiotika i Noreg enn dei er vane med| Titan| **Deeb G**

(47) Ein app mot svangerskapskvalme er mykje brukt av gravide| forskning.no| **Ngo E**

(48) – Det er vanskelig å tenke, regne og snakke samtidig| Sykepleien | **Mulac A**

(49) Sjekk hvilke forskere som publiserte mest i 2021 | Krono | **Nordeng HME**

(50) Tydelige krav om helsedata på EHiN | Legemiddleindustriforeningen| **Nordeng HME**

(51) Grei risikovurdering av psykofarmaka under svangerskap og amming | Titan | **Lupatelli A**

(52) Sykepleieres vanligste feil: Ti ganger for mye medisin | VG | **Mulac A**

(53) Syriske innvandrarar får mindre antibiotika i Noreg enn dei er vane med | forskning.no| **Deeb G**

(54) Ulike land har ulike retningslinjer for antidepressiva i svangerskapet | forskning.no| **Lupatelli A**

(55) Forvekslet hetteglass- pasient fikk insulin ved en feil| | Sykepleien| **Mulac A**

(56) Can you safely take benzos when you're pregnant? | Slate| **Nordeng H**

(57) Congratulations: winners of the 2022 Bosnia & Herzegovina 3MT competition — Bosnia & Herzegovina Futures Foundation | BH Futures Foundation| **Mulac A**

(58) – Sommarprosjektet ved FAI ga oss eit nytt syn på vitskaplege artiklar - Farmasøytisk institutt | UiO| **Nordeng H**

(59) Skal forske på legemiddelbruk i ishockey og håndball | antidopingnorge.no | **Bjørnsdottir I**

(60) Tjáningarfrelsið okkar allra (skriv inn norsk tittel her)| visir.is | **Bjørnsdottir I**

(61) Spegillinn - Fjölga þarf þyrluflugmönnum, verðbólguhorfur og rannsókn á iktsýki (skriv inn norsk tittel her)| ruv.is | **Bjørnsdottir I**

(62) Kærir Landlækni fyrir lygar og telur þær valda útilokun frá störfum (skriv inn norsk tittel her) | visir.is | **Bjørnsdottir I**

(63) Fem grunner til at kvinner er vanskelige å forske på | forskning.no | **Nordeng H**

Awarded research grants and stipends

(1) **HORIZON-HLTH-2021-CORONA-01-02** | Sars-Cov2 Variants Evaluation In Pregnancy and Paediatrics Cohorts | 2.1 million NOK (VERDI) Angela Lupattelli/Hedvig Nordeng

(2) **Tenders via VAC4EU** | Post Conditional Approval Active Surveillance Study Among Individuals in Europe Receiving the mRNA-based Coronavirus Disease 2019 (COVID-19) Vaccines | 5.2 million NOK Angela Lupattelli/Hedvig Nordeng

(3) **Life Science Growth House 2022 seed funding for innovative researchers** | Development of NorPreg – an interface to support pregnancy studies by visualizing and analyzing Norwegian registry linked data | Nhung Trinh/Angela Lupattelli/Hedvig Nordeng/Marleen van Gelder/Luigi Maglanoc | 50,000 NOK

(4) **UiOLifeScience event support** | Genetics/epigenetics and their applications in pharmacoepidemiology | Nhung Trinh/Sina Rostami/Emilie Willoch Olstad/Angela Lupattelli | 50,000 NOK

(5) **UiO:Life Science summer students grants 2022** | 12 students on 9 projects selected, out of 40 funded projects | 600,000 NOK

   (i) **1 summer student:** Create an accuracy-measuring algorithm for the Mobili medication dispenser system. ***Supervisors: Granås AG, Mulac A,*** *Bjørn T.*

   (ii) **1 summer student:** Developing a software for simulation of multi-omic molecular datasets with known causal mechanisms. ***Supervisors:*** *Kanduri C,* ***Gervin K, Olstad EW,*** *Sandve GK,* ***Nordeng HME*** *(UiO:RealArt).*

   (iii) **2 summer students:** How do we measure language and educational outcomes in studies on medication safety in pregnancy? ***Supervisors:*** *Torkildsen JvK,* ***Nordeng HME*** *(UiO:RealArt).*

   (iv) **1 summer student:** Using simulation to stress-test statistical power calculators in epigenetic epidemiology. ***Supervisors:*** *Alwash M,* ***Gervin K, Olstad EW,*** *Sandve GK,* ***Nordeng HME*** *(UiO:RealArt).*

   (v) **2 summer students:** Towards personalized treatment for depression and anxiety: an assessment of prescription-diagnosis trajectories. ***Supervisors: Trinh NTH, Lupattelli A, Nordeng HME****.*

   (vi) **1 summer student:** Early prediction of difficult-to-treat depression/anxiety in pregnant women using medical and pharmacy dispensation data. ***Supervisors: Trinh NTH, Lupattelli A, Nordeng HME****.*

   (vii) **1 summer student:** Birth experiences among women during the COVID-19 pandemic- a multinational European study – write your first scientific publication this summer! ***Supervisor: Nordeng HME****.*

   (viii) **2 summer students:** Association between antidepressant exposure during pregnancy and placental weight/birth weight ratio. ***Supervisors: Lupattelli A****.*

(ix) **1 summer student:** Perceived effectiveness of partner support in discontinuers, continuers and initiators of antidepressants in preconception, pregnancy and after childbirth: results from the HEALTHx2 study. ***Supervisors: Tauqeer F, Lupattelli A***.

(6) **MN-fakultetet, Bærekraftsinitativet, KD-stillinger** | Understanding the effect of drug exposure in mother-father-child triads on cardio-metabolic dysfunctions in youth | Angela Lupatelli | 4 mill NOK

(7) **Robert and Ella Wenzin's scholarship at the University of Oslo** | Nhung Trinh | 24 300 NOK

(8) **Kristine Bonnevie travel stipend** | Nhung Trinh | 78 000 NOK

(9) **PostDoc Travel Scholarship from the Society for Epidemiologic Research** | Nhung Trinh | 500 USD

(10) **Funding for Research Stays Abroad for Postdoctoral Fellows – Research Council of Norway** | Nhung Trinh/Angela Lupattelli | 366 000 NOK

(11) **Travel grant from Norsk forening for farmakoepidemiologi** | Milica Žugić | 4 000 NOK

(12) **UiOLifeScience internationalization support** | Pregnancy Study-a-thon| Nhung Trinh | 50,000 NOK

(13) **UiOLifeScience internationalization support** | Pharmacoeconomics as a research area | Eirin Robinson| 14,500 NOK

(14) **dScience research support** | AIM | Hedvig Nordeng | 4 weeks of data management support

Other awards

(1) **Teriaks Pecha Kucha award – Norsk farmasøytisk selskap** | Migrasjon av utenlandske farmasøyter til Norge | **Iqbal S (master student)** | 10 000 NOK |supervisors: **Granås AG,** Svendsen K | https://youtu.be/hONNHZATCpU

Master's projects finished May/June 2022

(1) **Jelena Mali:** Manuelle og elektroniske medisinlister. En kvalitativ studie av hvordan apotekkunder holder oversikt over sine medisiner. ***Supervisors: Granås AG,*** *Manskow U, Bergmo T.*

(2) **Julija Savicic:** Papirbaserte og elektroniske legemiddellister – en kvalitativ studie av hvordan apotekkunder lager og ajourfører egne legemiddellister. ***Supervisors: Granås AG,*** *Manskow U, Bergmo T.*

(3) **Natasa Pejic:** Etterlevelse av legemiddelbruk i svangerskapet – utvikling av et nettbasert kartleggingsverktøy. ***Supervisors:*** *Nordeng HME, Lupattelli A.*

(4) **Milica Žugić:** Preventative association of antidepressant treatment in pregnant women with eating disorders on antenatal mental outcomes - results from the Norwegian Mother, Father, and Child Cohort Study. ***Supervisor:*** *Lupattelli A.*

(5) **Lana Jalal Shabat:** Skal jeg bruke antidepressiva når jeg er gravid? – en studie blant kvinner om beslutningsvansker. ***Supervisor:*** *Lupattelli A.*

(6) **Sara Sharifi:** Bruk og nytte-risiko oppfatning av antidepressive legemidler hos gravide og ammende med psykiske lidelser i Norge. ***Supervisor:*** *Lupattelli A.*

External Master's projects

(7) **Saleem Iqbal** (University of Tromsø): Push and pull factors for migration of foreign pharmacists to Norway. An interview-based qualitative study. ***Supervisors:*** *Svendsen K,* ***Granås AG****.*

(8) **Siri Pham** (University of Tromsø): Health Related Quality of Life (HRQoL) among acutely hospitalised older patients included in the randomised controlled trial IMMENSE ***Supervisors:*** *Halvorsen KH, Garcia BH,* ***Robinson EG,*** *Waaseth M, Johansen JS.*

PharmaSafe participants

Scientific staff

Name	Position
Hedvig Nordeng	Professor and PharmaSafe head
Anne Gerd Granås	Professor
Ingunn Björnsdottir	Assoc. professor
Angela Lupattelli	Assoc. professor
Nancy Christine Øien	Research coordinator
Eirin Guldsten Robinson	PhD student
Elin Thuy Phuong Ngo	PhD student
Emilie Willoch Olstad	PhD student
Fatima Tauqeer	PhD student
Lene Maria Sundbakk	PhD student
Akhila Srinivas Reddy	PhD-student
Milica Žugić	PhD-student
Gerd Marie Eskerud Harris	PhD student - defended June 2022
Johanne Naper Trønnes	PhD student - defended June 2022
Anette Vik Jøsendal	PhD student - defended December 2022
Thi Hong Nhung Trinh	Post doc
Alma Mulac	Post doc
Vera Ruth Mitter	Post doc
Eimir Hurley	Researcher
Busenur Kizilaslan	Researcher
Anteneh Assefa Desalegn	Researcher
Elisabeth Pedersen	Researcher
Jing Zhao	Researcher
Sina Rostami	Researcher (20%)
Christian Magnus Page	Post doc, PharmaTox, Dpt. Mathematics
Eivind Ystrøm	Guest researcher, Dep. Psychology, UiO
Kristina Gervin	Guest researcher, OUS
Mollie Wood	Guest researcher, Univ. Chapel Hill, North Carolina
Sarah Hjorth Andersen	Guest researcher, Univ. Odense

Lecturers

Name	Position
Hilde Kloster Smerud	Lecturer (20%), regulatory pharmacy
Mia Heimdal	Lecturer (20%), pharmacy practice
Hassina Hassan	Lecturer (25%), pharmacy practice
Lavin Dlshad Kadir	Lecturer, social pharmacy
Vedrana Rosic	Lecturer (25%), pharmacy practice