

Yearly Report 2023

PharmaSafe



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Yearly report

2023

by

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Key Numbers in 2023

- 4 PhD defenses
- 59 international publications
- 77 posters/oral presentations/external lectures
- 185 media coverages
- 9 visits from international guest researchers
- 18 research grants awarded (14.9 mill. NOK)

2022: 4 PhD defenses, 54 scientific publications, 74 posters/oral presentations/external lectures, 63 media coverages, 4 visits from international guest researchers, 5 research grants awarded (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

Internal

1. **Elin Thuy Phuong Ngo**, PhD thesis defense: *Novel interventions for pregnant women: Pharmacist consultations and mobile applications in pregnancy with focus on the management of nausea and vomiting during pregnancy*. April 26, 2023.
Trial lecture: *Interprofessional collaboration in pregnancy care for safe use of medication*
2. **Emilie Willoch Olstad**, PhD thesis defense: *Prenatal Medication Exposure, DNA Methylation and Child Neurodevelopment*. May 12, 2023.
Trial lecture: *Importance of pharmacoeogenetics and pharmacogenetics for improving diagnosis and treatment of neuropsychiatric disorders*
3. **Lene Maria Sundbakk**, PhD thesis defense: *Benzodiazepines and z-hypnotics in pregnancy and child neurodevelopment - With focus on causal inference methods in perinatal pharmacoepidemiology*. June 2, 2023.
Trial lecture: *Nonadherence to and discontinuation of chronic psychotropic medications in pregnancy: prevalence and implications for mother and infants*

External (co-supervisor)

4. Mari Roberts Spildrejorde, PhD thesis defense: *Assessing the safety of medications during pregnancy using multiomics and a neuronal differentiation model of early human neurodevelopment*. December 7, 2023.
Trial Lecture: *Rett Syndrome, impaired DNA methylation reading and the road to symptom reversal*
Main supervisor: Robert Lyle, Co-supervisors: **Kristina Gervin**, Ragnhild Eskeland & **Hedvig Nordeng**

PhD opponents

1. **Granås AG**, 1st opponent for: Marie Hidle Gedde. *Behavioral and Psychological Symptoms of Dementia (BPSD): The impact of medication reviews in multicomponent interventions and the consequences of the Covid-19 restrictions*, University of Bergen, February 2023.
2. **Lupattelli A**, 1st opponent for: Cecilia Hvitfeldt Fuglsang Nielsen. *Migraine and Risk of Premature Myocardial Infarction and Strokes*. Department of Clinical Epidemiology, Aarhus University, September 2023.

Scientific publications

International publications

1. Ruths S, Bakken, Stordal M, Ranhoff AH, **Granås AG**, Spigset O. Støtte til fallforebygging hos eldre. Tidsskr Nor Legeforen. 2022 Dec 22;142(1). doi: <https://doi.org/10.4045/tidsskr.22.0681>.
2. Havnes K, Svendsen K, Johansen JS, **Granås AG**, Garcia BH, Halvorsen KH. Is anticholinergic and sedative drug burden associated with postdischarge institutionalization in community-dwelling older patients acutely admitted to hospital? A Norwegian registry-based study. Pharmacoepidemiol Drug Saf. 2023 Jun;32(6):607-616. doi: <https://doi.org/10.1002/pds.5590>.
3. 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 and CONSIGN group. COVID-19-related medicine utilization study in pregnancy: The COVI-PREG cohort. Br J Clin Pharmacol. 2023 May;89(5):1560-1574. doi: <https://doi.org/10.1111/bcp.15611>.
4. Araya R, **Tauqeer F**, Ceulemans M, Gerbier E, Maisonneuve E, Passier A, Oliver A, Panchaud A, **Lupattelli A**, **Nordeng E**. Pregnancy- and birth-related experiences among postpartum women during the third wave of the COVID-19 pandemic – a multinational European study. Pharmacoepidemiology. 2023;2(1):54-67. doi: <https://doi.org/10.3390/pharma2010006>.
5. **van Gelder MMHJ**, **Lupattelli A**, **Nordeng HME**. Risk of spontaneous abortion after periconceptional medication use: Time to tackle the methodological challenges. Paediatr Perinat Epidemiol. 2023 Mar;37(3):188-190. doi: <https://doi.org/10.1111/ppe.12967>.
6. **Trinh NTH**, Munk-Olsen T, Wray NR, Bergink V, **Nordeng HME**, **Lupattelli A**, Liu X. Timing of Antidepressant Discontinuation During Pregnancy and Postpartum Psychiatric Outcomes in Denmark and Norway. JAMA Psychiatry. 2023 May 1;80(5):441-450. doi: <https://doi.org/10.1001/jamapsychiatry.2023.0041>.
7. Christensen JJ, Bogsrud MP, Holven KB, Retterstøl K, Veierød MB, **Nordeng H**. Use of statins and other lipid-modifying agents across pregnancy: A nationwide drug utilization study in Norway in 2005-2018. Atherosclerosis. 2023 Mar;368:25-34. doi: <https://doi.org/10.1016/j.atherosclerosis.2022.11.022>.
8. **Olstad EW**, **Nordeng HME**, Sandve GK, Lyle R, **Gervin K**. Effects of prenatal exposure to (es)citalopram and maternal depression during pregnancy on DNA methylation and child neurodevelopment. Transl Psychiatry. 2023 May 5;13(1):149. doi: <https://doi.org/10.1038/s41398-023-02441-2>.
9. Cardoso E, Monfort A, Ferreira E, **Nordeng H**, Winterfeld U, Allegaert K, Gandia P, Guidi M, Panchaud A. Maternal drugs and breastfeeding: Risk assessment from

pharmacokinetics to safety evidence - A contribution from the ConcePTION project. *Therapie*. 2023 Mar;78(2):149-156. doi: <https://doi.org/10.1016/j.therap.2023.01.008>.

10. 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. *JAMA Pediatr*. 2023 Mar 1;177(3):267-277. doi: <https://doi.org/10.1001/jamapediatrics.2022.5193>.
11. **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*. 2023 Jan 11;13(1):e063391. doi: <https://doi.org/10.1136/bmjopen-2022-063391>.
12. **Ngo E**, Truong MB, **Nordeng H**. Impact of a primary care pharmacist consultations on pregnant women's medication use: the SafeStart intervention study linked to a national prescription database. *Int J Clin Pharm*. 2023 May 8. doi: <https://doi.org/10.1007/s11096-023-01577-x>.
13. Schreuder A, Mokadem I, Smeets NJL, Spaanderman MEA, Roeleveld N, **Lupattelli A**, **van Gelder MMHJ**. Associations of periconceptional oral contraceptive use with pregnancy complications and adverse birth outcomes. *Int J Epidemiol*. 2023 Apr 11:dyad045. doi: <https://doi.org/10.1093/ije/dyad045>.
14. Fonseca A, Branquinho M, Monteiro F, Araújo-Pedrosa A, Bjørndal LD, **Lupattelli A**. Treatment options and their uptake among women with symptoms of perinatal depression: exploratory study in Norway and Portugal. *BJPsych Open*. 2023 May 4;9(3):e77. doi: <https://doi.org/10.1192/bjo.2023.56>.
15. **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. *Int J Eat Disord*. 2023 Mar;56(3):582-594. doi: <https://doi.org/10.1002/eat.23877>.
16. Gebremedhin AT, **Mitter VR**, Duko R, Tessema GA, Pereira GF. Associations between endometriosis and adverse pregnancy and perinatal outcomes: a population-based cohort study. *Arch Gynecol Obstet*. 2023 Mar 20. doi: <https://doi.org/10.1007/s00404-023-07002-y>.
17. Maisonneuve E, Gerbier E, **Tauqeer F**, Pomar L, Favre G, Winterfeld U, Passier A, Oliver A, Baud D, **Nordeng H**, Ceulemans M, Panchaud A. Determinants of Vaccination and Willingness to Vaccinate against COVID-19 among Pregnant and Postpartum Women during the Third Wave of the Pandemic: A European Multinational Cross-Sectional Survey. *Viruses* 2023;15:1090. doi: <https://doi.org/10.3390/v15051090>.
18. **Lupattelli A**, **Trinh NTH**, **Nordeng H**. Association of maternal personality traits with medication use during pregnancy to appraise unmeasured confounding in long-term

- pharmacoepidemiological safety studies. *Front. Pharmacol. Sec. Pharmacoepidemiology.* 2023 May 15; 14. doi: <https://doi.org/10.3389/fphar.2023.1160168>.
19. Gjerde LC, Eilertsen EM, McAdams TA, Cheesman R, Moffitt TE, Caspi A, Eley TC, Røysamb E, Rosenström TH, **Ystrom E**. The “p” factor of psychopathology and personality in middle childhood: genetic and gestational risk factors. *Psychol Med.* 2023 Feb 10:1-11. Online ahead of print. doi: <https://doi.org/10.1017/S0033291723000879>.
 20. Pingault JB, Barkhuizen W, Wang B, Hannigan LJ, Eilertsen EM, Corfield E, Andreassen OA, Ask H, Tesli M, Askeland RB, Davey Smith G, Stoltenberg C, Davies NM, Reichborn-Kjennerud T, **Ystrom E**, Havdahl A. Genetic nurture versus genetic transmission of risk for ADHD traits in the Norwegian Mother, Father and Child Cohort Study. *Mol Psychiatry.* 2023 Apr;28(4):1731-1738. doi: <https://doi.org/10.1038/s41380-022-01863-6>.
 21. **Mitter VR**, Kohl Schwartz AS, Rueegg CS. Re: "The Association of Assisted Reproductive Technology and Breastfeeding Rates: A Systematic Review and Meta-Analysis" by Youseflu et al. *Breastfeed Med.* 2023 Mar;18(3):248-249. doi: <https://doi.org/10.1089/bfm.2022.0275>.
 22. Bromley RL, Graz MB, Bluett-Duncan M, Chambers C, Damkier P, Dietrich K, Dolk H, Grant K, Mattson S, Meador KJ, **Nordeng H**, Oberlander TF, Ornoy A, Revet A, Richardson J, Rovet J, Schuler-Faccini L, Smearman E, Simms V, Vorhees CV, Wide K, Wood AG, Yates L, **Ystrom E**, Adams J. Expert consensus on neurodevelopmental outcomes in pregnancy pharmacovigilance studies. *Front. Pharmacol.* 2023 June 1;14:1094698. doi: <https://doi.org/10.3389/fphar.2023.1094698>.
 23. Monfort A, Cardoso E, Eap CB, Fumeaux CJF, Graz MB, Harari MM, Weisskopf E, Gandia P, Allegaert K, **Nordeng H**, Hascoët JM, Claris O, Epiney M, Csajka C, Guidi M, Ferreira E, Panchaud A. Infant exposure to Fluvoxamine through placenta and human milk: A case series - A contribution from the ConcePTION project. *Front. Psychiatry.* 2023 May 18; 14:1167870. doi: <https://doi.org/10.3389/fpsy.2023.1167870>.
 24. Shakibfar S, Nyberg F, Li H, **Zhao J**, **Nordeng HME**, Sandve GKF, Pavlovic M, Hajiebrahimi M, Andersen M, Sessa M. Artificial intelligence-driven prediction of COVID-19-related hospitalization and death: a systematic review. *Front Public Health.* 2023 Jun 20;11:1183725. doi: <https://doi.org/10.3389/fpubh.2023.1183725>.
 25. **Olstad EW**, **Nordeng HME**, Lyle R, **Gervin K**. No impact of prenatal paracetamol and folic acid exposure on cord blood DNA methylation in children with attention-deficit/hyperactivity disorder. *Front. Genet.* 2023;14. doi: <https://doi.org/10.3389/fgene.2023.1204879>.
 26. 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 approach reveals dysregulated genes during hESCs neuronal differentiation exposure to

paracetamol. *iScience*. 2023 Aug 28;26(10):107755. doi: <https://doi.org/10.1016/j.isci.2023.107755>.

27. Cardoso E, Guidi M, Nauwelaerts N, **Nordeng H**, Teil M, Allegaert K, Smits S, Gandia P, Edginton A, Ito S, Anaert P, Panchaud A. Safety of medicines during breastfeeding – from case report to modeling. A contribution from the ConcePTION project. *Expert Opinion on drug metabolism and Toxicology*. *Expert Opin Drug Metab Toxicol*. 2023 Jun 13;1-15. doi: <https://doi.org/10.1080/17425255.2023.2221847>.
28. Maisonneuve E, Gerbier E, **Taqueer F**, Pomar L, Winterfeld U, Passier A, Favre G, Oliver A, Baud D, **Nordeng H**, Ceulemans M, Panchaud A. Déterminants de l'adhésion vaccinale contre la COVID-19 chez les femmes enceintes et en post-partum pendant la troisième vague de la pandémie: une étude transversale. *Gynécologie Obstétrique Fertilité & Sénologie*. 2023 Jan 1;51:97-98. doi: <https://doi.org/10.1016/j.gofs.2022.11.125>.
29. **Trinh NTH**, Semark B, Munk-Olsen T, Liu X, Thapa S, Yilmaz X, Petersen L, **Lupattelli A**. Antidepressant treatment in pregnancy: a Danish registry linkage study in pregnant women with pre-existing obsessive-compulsive disorder. *Transl Psychiatry*. 2023 Jun 23;13(1):223. <https://doi.org/10.1038/s41398-023-02516-0>.
30. **Taqueer F**, Moen A, Myhr K, Wilson CA, **Lupattelli A**. Assessing decisional conflict and challenges in decision-making among perinatal women using or considering using antidepressants during pregnancy-a mixed-methods study. *Arch Womens Ment Health*. 2023 Oct;26(5):669-683. doi: <https://doi.org/10.1007/s00737-023-01341-0>.
31. Maisonneuve E, de Bruin O, Favre G, Gonc e A, Donati S, Engjom H, Hurley E, Al-Fadel N, Siiskonen S, Bloemenkamp K, **Nordeng H**, Sturkenboom M, Baud D, Panchaud A. Evolution of National Guidelines on Medicines Used to Treat COVID-19 in Pregnancy in 2020-2022: A Scoping Review. *J Clin Med*. 2023 Jul 6;12(13):4519. doi: <https://doi.org/10.3390/jcm12134519>.
32. **Lupattelli A**, Corrao G, Gatti C, Rea F, **Trinh NTH**, Cantarutti A. Antidepressant continuation and adherence in pregnancy, and risk of antenatal hospitalization for unipolar major depressive and/or anxiety disorders. *J Affect Disord*. 2023 Oct 15;339:502-510. doi: <https://doi.org/10.1016/j.jad.2023.07.066>.
33. Kostka K, Roel E, **Trinh NTH**, Mercad e-Besora N, Delmestri A, Mateu L, Paredes R, Duarte-Salles T, Prieto-Alhambra D, Catal a M, J odicke AM. The burden of post-acute COVID-19 symptoms in a multinational network cohort analysis. *Nat Commun*. 2023 Nov 17;14(1):7449. doi: <https://doi.org/10.1038/s41467-023-42726-0>.
34. Gauffin O, Brand JS, Vidlin SH, Sartori D, Asikainen S, Catal a M, Chalabi E, Dedman D, Danilovic A, Duarte-Salles T, Garc a Morales MT, Hiltunen S, J odicke AM, Lazarevic M, Mayer MA, Miladinovic J, Mitchell J, Pistillo A, Ram rez-Anguila JM, Reyes C, Rudolph A, Sandberg L, Savage R, Schuemie M, Spasic D, **Trinh NTH**, Veljkovic N, Vujovic A, de Wilde M, Zekarias A, Rijnbeek P, Ryan P, Prieto-Alhambra D, Nor n GN. Supporting Pharmacovigilance Signal Validation and Prioritization with Analyses of Routinely

- Collected Health Data: Lessons Learned from an EH DEN Network Study. *Drug Saf.* 2023 Dec;46(12):1335-1352. doi: <https://doi.org/10.1007/s40264-023-01353-w>.
35. **Nordeng H**, Wegler C, Lindqvist A, Melander E, Magnusson M, Gandia P, Panchaud A, Baranczewski P, Spigset O. Transfer of cetirizine/levocetirizine into human breast milk and estimation of drug exposure to infants through breastfeeding: A human lactation study from the ConcePTION project. *Basic Clin Pharmacol Toxicol.* 2023 Oct 9. doi: <https://doi.org/10.1111/bcpt.13948>.
 36. **Ukah UV**, Platt RW, **Nordeng HM**. Impact of COVID-19 pandemic on dispensing of cardiovascular drugs in Norway: An interrupted time series study. *Am J Prev Med.* 2023 Nov 14:S0749-3797(23)00464-6. doi: <https://doi.org/10.1016/j.amepre.2023.11.008>.
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 42. Gjelstad A, Herlofsen TM, Bjerke AL, Lauritzen F, **Björnsdottir I**. Use of pharmaceuticals amongst athletes tested by Anti-Doping Norway in a five-year period. *Front Sports Act Living.* 2023 Oct 4;5:1260806. doi: <https://doi.org/10.3389/fspor.2023.1260806>.

43. Christensen S, Gjelstad A, **Björnsdottir I**, Lauritzen F. Medicalization of Sport? A Mixed-Method Study on the Use of Medications in Elite Ice Hockey. *Sports*. 2024; 12(1):19. <https://doi.org/10.3390/sports12010019>.

In press, under revision, and submitted

1. Català M, Mercadé-Besora N, Kolde E, **Trinh NTH**, Roel E, Burn E, Rathod-Mistry T, Kostka K, Man WY, Delmestri A, **Nordeng H**, Uusküla A, Duarte-Salles T, Prieto-Alhambra D, Jödicke AM. The effectiveness of COVID-19 vaccines to prevent long COVID symptoms: staggered cohort analyses of data from the UK, Spain, and Estonia. *Lancet Respiratory Medicine*. *Accepted*.
2. Mercadé-Besora M, Li X, Kolde R, **Trinh NTH**, Sanchez-Santos MT, Man WY, Roel E, Reyes C, Delmestri A, **Nordeng HME**, Uusküla A, Duarte-Salles T, Prats C, Prieto-Alhambra D, Jödicke AM, Català M. The role of COVID-19 vaccines in preventing post COVID-19 thromboembolic and cardiovascular complications: a multinational cohort study. *Heart*. *Accepted*.
3. Hernáez A, Skåra KH, Page CM, **Mitter VR**, Hernandez MH, Magnus P, Njolstad PR, Andreassen OA, Corfield EC, Havdahl A, Naess O, Brumpton B, Asvold BO, Lawlor DA, Fraser A, Magnus MC. Parental genetically predicted liability for coronary heart disease and risk of adverse pregnancy outcomes: a cohort study. *BMC Medicine*. *Accepted*.
4. **Sundbakk LM**, **Wood M**, Gran JM, **Nordeng H**. Prenatal exposure to benzodiazepines and z-hypnotics and fifth-grade scholastics skills – emulating target trials using data from the Norwegian Mother, Father and Child Cohort Study. *American Journal of Epidemiology*. *Under revision*.
5. Liu X, **Trinh NTH**, Wray NR, **Lupattelli A**, Albiñana C, Agerbo E, Vilhjálmsón BJ, Bergink V, Munk-Olsen T. Impact of genetic, sociodemographic, and clinical features on antidepressant treatment trajectories in the perinatal period. *BJOG*. *Under revision*.
6. Moreno-Martos D, **Zhao J**, Li H, Nyberg F, Bjørndal LD, Hajiebrahimi H, Björn Wettermark B, Aakjær M, Andersen M, Shakibfar S, Sessa M, **Lupattelli A**, **Nordeng H**, Morales DR. Impact of the COVID-19 pandemic on adult mental health in Norway and Sweden: interrupted time series analysis of dispensed medications, hospitalisations, and specialist outpatient visits. *European Journal of Clinical Pharmacology*. *Under revision*.
7. **Pedersen E**, et al, **Lupattelli A**, **Nordeng H**. Drug utilisation in children and adolescents before and after the start of the COVID-19 pandemic: interrupted time series analyses in three European countries. *Paediatric and Perinatal Epidemiology*. *Under revision*.
8. **Lupattelli A**, Branquinho M, Cardoso C, **Tauqeer F**, Bjørndal LD, Fonseca A. Psychometric properties of the Decisional Conflict Scale in a sample of perinatal

women with depressive symptoms: a study in Portugal and Norway. Patient Counselling and Education. *Under revision*.

9. **Robinson EG**, Gyllensten H, **Granås AG**, Halvorsen KH, Garcia BH. Health-related quality of life among older adults following acute hospitalization: longitudinal analysis of a randomized controlled trial. *Quality of Life Research*. *Under revision*.
10. **Nasrin T, Tauqeer F**, Bjørndal LD, Kittel-Schneider S, **Lupattelli A**. Partner support for women's antidepressant treatment and its association with depressive symptoms in pregnant women, mothers and women planning pregnancy. *Submitted*.
11. Krogsrud SK, **Nordeng H**, Roe JM, Torkildsen JvK, **Wood M, Ystrom E**. Impact of prenatal acetaminophen exposure on brain development from 4 to 16 years of age - A magnetic resonance imaging (MRI) study. *Submitted*.
12. **Mitter VR, Lupattelli A**, Bjørk M-H, **Nordeng H**. Identification and characterization of migraine in pregnancy: a Norwegian registry-linkage study. *Headache*. *Submitted*.
13. Abellan A, Burn E, **Trinh NTH**, Burkard T, Fernández-Bertolín S, Morales DR, **Nordeng H**, Duarte-Salles T. Expanding the OMOP Common Data Model to support pregnancy research in network studies. *Submitted*.
14. **Trinh NTH**, Houghtaling J, Bernal FLM, Hayati S, **Lupattelli A**, Magnaloc L, Gesquiere E, Halvorsen L, **Nordeng HME**. Harmonizing Norwegian registries onto OMOP Common Data Model: mapping challenges and opportunities for pregnancy and COVID-19 research. *Submitted*.
15. **Van Gelder MMHJ**, Zoega H, Cohen JM. Editorial: Long term effects of prenatal exposure to medications and vaccines. *Submitted*.
16. Ankarfeldt M, Søltoft-Jensen A, Salinas C, **Lupattelli A**, Pukkala E, Bolin K, Smith S, Petersen J, Jimenez-Solem E. Effectiveness of baricitinib risk minimization activities in patients with rheumatoid arthritis – a cohort study in four nordic countries. *Submitted*.

Books and book chapters

1. **Nordeng HME, van Gelder M**. Chapter 3.3.1 Drug utilization in pregnant women. In *Drug Utilization Research: Methods and Applications*, 2nd edition. Wiley. 2023. *In press*.
2. Sessa M, Shakibfar S, Andersen M, **Zhao J**. Chapter 14. Artificial Intelligence in Drug Utilization Research. In: *Drug Utilization Research: Methods and Applications*, 2nd edition. Wiley. 2023. *In press*.
3. **Nordeng H**, Jirsová E, Spigset O. Chapter 15. Safe prescribing and drug use in pregnancy and breastfeeding In: *Pharmacovigilance and Drug Safety in Clinical Practice*. Springer. 2023. *In press*.

Conference presentations (incl. submitted abstracts)

1. **Mulac A**, Hagesæther E, **Granås AG**. Human factor's role in medication errors: Diluting intravenous medications at hospital wards – a study based on incident reports. *Poster presentation*. 27th European Association of Hospital Pharmacists (EHAP) Congress, March 22–24, 2023, Lisbon, Portugal.
2. **Desalegn A**, **Zhao J**, **Nordeng H**, Cantarutti A, Thorne C, Platt RW, **Lupattelli A**. Association of mRNA COVID-19 vaccination during pregnancy with placental weight and birthweight: a population-based linkage study in Norway. *Poster presentation*. European Causal Inference meeting, EUROCIM 2023, April 19–21, 2023, Oslo, Norway.
3. Beau AB, Moisset X, Benevent J, Beslay M, Bartoloni C, Bosco-Levy C, Gini R, Gissler M, Jordan S, Leinonen MK, **Lupattelli A**, Manfrini M, Martikainen V, **Mitter VR**, Morris J, **Nordeng H**, Paoletti O, Puccini A, Mo J, Damase-Michel C. Distinguishing between indications for use of medications in administrative data sources. Application to pregabalin and gabapentin. A contribution from the ConcePTION project. *Oral presentation*. ISPE Mid-Year Conference, April 24–25, 2023, Reykjavik, Iceland.
4. Beslay M, Beau AB, Benevent J, Jordan S, Leinonen MK, Martikainen V, Manfrini M, Neville A, **Nordeng H**, **Mitter V**, **Lupattelli A**, Cavero-Carbonell C, Barrachina-Bonet L, Geldhof A, Gini R, Messina D, Lopez Leon S, Morris S, Geissbühler Y, Damase-Michel C. ICPE Halifax: Identification and prevalence assessment of multiple sclerosis in women: a multicentre database study across Europe. A contribution from the IMI2 ConcePTION project. *Poster presentation*. ISPE Mid-Year Conference, April 24–25, 2023, Reykjavik, Iceland.
5. Maisonneuve E, Gerbier E, **Tauqeer F**, Pomar L, Winterfeld U, Passier A, Favre G, Oliver A, Baud D, **Nordeng H**, Ceulemans M, Panchaud A. Evolution of the national guidelines on the medicines used to treat COVID-19 in pregnancy in 2020-2022. *Oral presentation*. ISPE Mid-Year Conference, April 24–25, 2023, Reykjavik, Iceland.
6. **Mitter VR**, **Lupattelli A**, Bjørk MH, **Nordeng HE**. Identification and characterization of migraine around pregnancy in population-based registries. *Poster presentation*. ISPE Mid-Year Conference, April 24–25, 2023, Reykjavik, Iceland.
7. **Zugic M**, **Trinh N**, **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. *Oral presentation*. ISPE Mid-Year Conference, April 24–25, 2023, Reykjavik, Iceland.
8. Hammar T, Burlow C, Manskow U, Timonen J, **Jøsendal A**. Shared medication lists in the Nordic countries. *Oral presentation*. Vitalis, May 22–25, 2023, Gothenburg, Sweden.
9. **Björnsdóttir I**, Gjelstad A, Christensen S, Sivasambu V, Yusuf HK, Lauritzen F. Athletes' use of pharmaceuticals and dietary supplements: Mapping in order to

understand better. *Poster presentation*. Nordic Social Pharmacy Conference (NSPC), June 7–9, 2023, Tromsø, Norway.

10. **Pedersen E**, Tripodi E, Aakjær M, Li H, Cantarutti A, Nyberg F, Andersen M, **Lupattelli A**, **Nordeng H**. Medication Use in Children before and after the Start of the COVID-19 Pandemic: an Interrupted Time Series Analysis in Three European Countries. *Oral presentation*. Nordic Social Pharmacy Conference (NSPC), June 7–9, 2023, Tromsø, Norway.
11. Kaae S, Sporrøng SK, Genina N, **Granås AG**. New digital technologies in the pharmacy setting to advance patient outcomes and the role of the pharmacist. *Workshop*. Nordic Social Pharmacy Conference (NSPC), June 7–9, 2023, Tromsø, Norway.
12. Fens T, Dantuma-Wering C, Treciokiene I, **Björnsdóttir I**, Kjome RLS, Halvorsen KH, Holst L, **Granås AG**, Taxis K. How to train pharmacy students to become leaders in healthcare – a review of four University curricula. *Oral presentation*. Nordic Social Pharmacy Conference (NSPC), June 7–9, 2023, Tromsø, Norway.
13. Wallmann A, Blöndal AB, **Björnsdóttir I**, Halvorsen KH, Holst L, Nørgaard LS, Öhrngren P, Siitonen P. Pharmacy Internship in the Nordic Countries Post-Pandemic – Status and Future. *Workshop*. Nordic Social Pharmacy Conference (NSPC), June 7–9, 2023, Tromsø, Norway.
14. Beau AB, Moisset X, Benevent J, Beslay M, Ballardini E, Bartoloni C, Bernard M-A, Gini R, Gissler M, Jordan S, Lassalle R, Leinonen MK, **Lupattelli A**, Manfrini M, Martikainen V, **Mitter VR**, Morris J, **Nordeng H**, Paoletti O, Puccini A, Mo J, Damase-Michel C. Distinguishing between indications for use of medications in administrative data sources. Application to pregabalin and gabapentin. A contribution from the ConcePTION project. *Oral presentation*. Congrès de la Société Française de Pharmacologie et de Thérapeutique, June 12–14, 2023, Limoges, France.
15. Beslay M, Beau AB, Benevent J, Jordan S, Leinonen MK, Martikainen V, Manfrini M, Neville A, **Nordeng H**, **Mitter V**, **Lupattelli A**, Cavero-Carbonell C, Barrachina-Bonet L, Lignot S, Lassalle R, Bernard MA, Geldhof A, Gini R, Messina D, Lopez Leon S, Morris J, Geissbühler Y, Damase-Michel C. Identification and prevalence assessment of multiple sclerosis in women: a multicentre database study across Europe. *A contribution from the IMI2 ConcePTION project. Poster presentation*. Congrès de la Société Française de Pharmacologie et de Thérapeutique, June 14–12, 2023, Limoges, France.
16. Zwiers LC, Goodale BM, Aarts W, Esposito D, St Laurent S, Martin D, Urdaneta V, Emilebacker M, Weibel D, **Lupattelli A**, **Zhao J**, Maglanoc LA, Diez-Domingo J, Carreras JJ, Urchueguia A, Correcher-Martinez E, Villalobos F, Palleja-Millan M, Segundo E, Bissacco CA, Fry C, Lane S, Roy D, Grobbee DE, Ong DSY. VAC4EU Study To Identify Risk Factors for the Development of Myocarditis and Pericarditis after mRNA-1273 Vaccination in Four European Countries: Methodological Considerations. *Oral*

- presentation*. WEON Annual Conference, June 22–23, 2023, Rotterdam, The Netherlands.
17. Dam Laursen AS, Mikkelsen EM, **Mitter V**, Magnus MC. Gestational weight gain and gestational diabetes in relation to time-to-pregnancy and conception by assisted reproductive technology. *Poster presentation*. ESHRE Congress 2023, June 24–27, 2023, Copenhagen, Denmark.
 18. **Desalegn AA**. Placental outcomes and birthweight to placental weight ratio after mRNA COVID-19 vaccination during pregnancy: a target trial emulation approach. *Online presentation*. VERDI Third General Assembly Meeting, June 26-27, 2023, Cyprus, Greece and Zoom.
 19. **Lupattelli A**. MIS-C and post-covid condition in children: methodological reflections and planned analysis - Clinical Working Group. *Online presentation*. VERDI Third General Assembly Meeting, June 26-27, 2023, Cyprus, Greece and Zoom.
 20. Limoncella G, Bartolini C, Duran C, Girardi A, Hyeraci G, Riera-Arnau J, Llorente A, Martin M, Garcia P, Sanchez-Saez F, Sanf elix-Gimeno G, **Nordeng H**, 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. *Poster presentation*. European Drug Utilization (EuroDURG) Research Group Conference, June 27–30, 2023, Bologna, Italy.
 21. Hallberg A, Aakj er M, **Pedersen E**, Aaltonen K, Hajiebrahimi M, Samuelsen PJ, Nyberg F, Andersen M, **Nordeng H**, Wettermark B. Epidemiological measures and policy implementation in the Nordic countries during COVID-19. *Poster presentation*. European Drug Utilization (EuroDURG) Research Group Conference, June 27–30, 2023, Bologna, Italy.
 22. Beslay M, Beau AB, Benevent J, Jordan S, Leinonen MK, Martikainen V, Manfrini M, Neville A, **Nordeng H**, **Mitter V**, **Lupattelli A**, Caverro-Carbonell C, Barrachina-Bonet L, Geldhof A, Gini R, Messina D, Lopez Leon S, Morris S, Geissb uhler Y, Damase-Michel C. ICPE Halifax: Identification and prevalence assessment of multiple sclerosis in women: a multicentre database study across Europe. A contribution from the IMI2 ConcePTION project. *Poster presentation*. ICPE Annual Conference, August 23–27, 2023, Halifax, Canada.
 23. Wurst KE, Dolk H, Geldhof A, Neville A, Coste F, Jordan S, Loane M, Beau A, B en event J, Bromley R, Given J, M olgaard-Nielsen D, **Nordeng H**, Sabid o M, Morris J, Zeitlin J, Damase-Michel C. Core Evidence Elements for generating medicine safety evidence for pregnancy using population-based data: Recommendations from IMI-ConcePTION. *Poster presentation*. ICPE Annual Conference, August 23–27, 2023, Halifax, Canada.
 24. Beau AB, Moisset X, Benevent J, Beslay M, Bartolini C, Barrachina-Bonet L, Caverro-Carbonell C, Gini R, Gissler M, Jordan S, Leinonen MK, **Lupattelli A**, Manfrini M,

- Martikainen V, **Mitter VR**, Morris JK, Neville A, **Nordeng H**, Paoletti O, Puccini A, Mo J, Damase-Michel C. A first step in drug utilisation and safety studies: identifying indications for drug use in administrative data sources. A pilot study with gabapentinoids in a French healthcare data source. A contribution from the ConcePTION project. *Poster presentation*. ICPE Annual Conference, August 23–27, 2023, Halifax, Canada.
25. Hoxhaj V, Riera Arnau J, Elbers R, van den Bor R, Alsina E, Dood C, Bartolini C, Damase-Michel C, Beau A-B, Caillet A, **Mitter V**, Maglanoc L, **Nordeng H**, Barrachina-Bonet L, Cavero-Carbonell L, Andaur Navarro CL, Sturkenboom M. Characterization of Real World data sources for pharmacoepidemiological studies in pregnancy and lactation: the ConcePTION project. *Poster presentation*. ICPE Annual Conference, August 23–27, 2023, Halifax, Canada.
 26. Abellan A, Burn E, **Trinh N**, Burkard T, Fernández-Bertolín S, **Hurley E**, Rodriguez C, Segundo E, Morales DR, **Nordeng HME**, Duarte-Salles T. Developing a perinatal extension for the OMOP common data model. *Poster presentation*. ICPE Annual Conference, August 23–27, 2023, Halifax, Canada.
 27. Leinonen MK, Seppälä LK, Benevent J, Hargreave M, Hemmingsen CH, Hjorth S, Kjaer SK, Mørch LS, Nörby U, **Nordeng H**. Risk of childhood leukemia and lymphoma after *in-utero* exposure to maternal diabetes and antidiabetics – a Nordic population-based study. *Poster presentation*. ICPE Annual Conference, August 23–27, 2023, Halifax, Canada.
 28. Aarts W, Choi J, Roy D, Fry C, Lane S, Girardi A, Paoletti Olga, Villalobos F, Bissacco CA, Segundo E, **Lupattelli A**, **Zhao J**, Weibel D, Esposito D, Martin D, St Laurent S, Emilebacker M, Ehrenstein V, Sørun S, Goodale BM. VAC4EU Study Tracking Post-Authorization Safety of mRNA-1273 in Five European Countries: How to Overcome the Methodological Challenges. *Poster presentation*. ICPE Annual Conference, August 23–27, 2023, Halifax, Canada.
 29. Weibel D, Luise C, Bor R, Elbers R, Martin I, Royo AC, Plana E, Albeniz XG, Weinrib R, Yefimenko N, Plou BP, Marconi E, Barbieri E, Stona L, Swart/Polinder K, Roy D, Hyeraci G, Bartolini C, **Lupattelli A**, Villalobos F, Kendrick K, Garg, RK, Rubino H, Eijkemans R, Sturkenboom M, Arana A. Utilisation patterns of the COVID-19 mRNA vaccine (Comirnaty®) from the VAC4EU active safety surveillance study in five European countries: the VAC4EU project. *Poster presentation*. ICPE Annual Conference, August 23–27, 2023, Halifax, Canada.
 30. Ankarfeldt MZ. Søltoft-Jensen A, Salinas C, Meyers K, Mehkri L, **Lupattelli A**, Pukkala E, Bolin K, Petersen J, Jimenez-Solem E. A descriptive observational cohort study to assess effectiveness of risk minimization activities in baricitinib incident users treated for rheumatoid arthritis in Nordic countries. *Oral presentation*. ICPE Annual Conference, August 23–27, 2023, Halifax, Canada.

31. Gebremedhin AT, **Mitter V**, Duko R, Tessema GA, Pereira GF. Effects of Endometriosis on Miscarriage: a Doubly Robust Analysis. *Poster presentation*. European Perinatal and Pediatric Epidemiology Conference (EPEC), August 27–28, 2023, Stockholm, Sweden.
32. Abellan A, Burn E, **Trinh N**, Burkard T, Fernández-Bertolín S, Hurley E, Rodriguez C, Segundo E, Morales DR, **Nordeng H**, Duarte-Salles T. Developing a perinatal expansion table for the OMOP common data model. *Poster presentation*. OHDSI Global symposium, October 19, New Jersey, USA.
33. Kadir L, Foss C, Waaseth M, Holst L, Nilsen MK, Bjørknes MR, Rehman S, Granås AG. *Poster presentation*. Farmasihistorier – digitale opptak og formidling av nyere norsk farmasihistorie. Farmasidagene, November 2023, Oslo, Norway.
34. **Nordeng HME, Lupattelli A**, Engjom H, **van Gelder M**: Detecting and dating miscarriages and elective terminations in early pregnancy: generation of a novel pregnancy algorithm from Norwegian linked health registries. *Oral presentation*. The 15th Annual NorPEN Meeting, November 22–24, 2023, Oslo, Norway.
35. **Choi EY, van Gelder MJH, Nordeng HME**: Drug Utilization Patterns of Anti-Rheumatic Medications among Pregnant Women with Rheumatoid Arthritis in Norway, 2004-2018. *Oral presentation*. The 15th Annual NorPEN Meeting, November 22–24, 2023, Oslo, Norway.
36. **Van Gelder MJH, Nordeng HME, Lupattelli A**: Association of non-steroidal anti-inflammatory drug use during pregnancy and miscarriage: A Norwegian Registry Linkage Study. *Oral EPI-SLAM presentation*. The 15th Annual NorPEN Meeting, November 22–24, 2023, Oslo, Norway. **Prize for best EPI-SLAM**.
37. **Mitter VR**, Hoxhaj V, Mølgaard-Nielsen D, Navarro CA, Martikainen V, Lopez-Leon S, Leinonen MK, **Nordeng HME**: Algorithms to Identify Preeclampsia in European Healthcare Data Sources: A pilot study in Norway and Finland from the ConcePTION project. *Poster presentation*. The 15th Annual NorPEN Meeting, November 22–24, 2023, Oslo, Norway.
38. **Orangzeb S, Desalegn A, Trinh NTH, Nordeng HME, Lupattelli A**: COVID-19 Vaccine Uptake by children and adolescents in Norway: A Descriptive Analysis. *Oral EPI-SLAM presentation*. The 15th Annual NorPEN Meeting, November 22–24, 2023, Oslo, Norway.
39. Johnson H, Hjorth S, Morris J, Pottegård, A, **Nordeng, HME**: Use of Signal Detection Methods to Identify Associations Between Prenatal Medication Exposure and Subsequent Childhood Cancers: A Nordic Hypothesis- Generating Registry-Based Study. *Oral EPI-SLAM presentation*. The 15th Annual NorPEN Meeting, November 22–24, 2023, Oslo, Norway.
40. **Geisler BP, Trinh NTH, Lupattelli A, Nordeng HME**: Risk of Gestational Diabetes Among Pregnant Women with COVID-19: A Population-Based Cohort Study. *Poster*

- presentation*. The 15th Annual NorPEN Meeting, November 22–24, 2023, Oslo, Norway.
41. Mølgaard-Nielsen D, **Mitter VR**, Hoxhaj V, Navarro CA, Martikainen V, Lopez-Leon S, Maarit K Leinonen, **Nordeng HME**: Algorithms to Identify Gestational Diabetes in European Healthcare Data Sources: A pilot study in Norway and Finland from the ConcePTION project. *Poster presentation*. The 15th Annual NorPEN Meeting, November 22–24, 2023, Oslo, Norway.
 42. **Giorcelli A, Trinh NTH**, Rostami S, Thapa S, Cantarutti A, **Nordeng HME, Lupattelli A**: Prenatal antidepressant trajectories and risk of long-term psychiatric outcomes in the offspring. *Poster presentation*. The 15th Annual NorPEN Meeting, November 22–24, 2023, Oslo, Norway.
 43. **Trinh NTH**, Houghtaling J, Bernal FLM, Hayati S, Maglanoc LA, **Lupattelli A**, Halvorsen L, **Nordeng HME**: Harmonizing Norwegian registries onto OMOP Common Data Model: mapping challenges and opportunities for pregnancy and COVID-19 research. *Poster presentation*. The 15th Annual NorPEN Meeting, November 22–24, 2023, Oslo, Norway.
 44. Butti D, **Trinh N, Rostami S, Lupattelli A**: Prenatal exposure to antidepressants and longer-term risk of depressive and anxiety outcomes in children. *EpiSlam presentation*. The 15th Annual NorPEN Meeting, November 22–24, 2023, Oslo, Norway.
 45. **Paese E, Trinh NTH**, Rostami S, **Lupattelli A**: 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. *Poster presentation*. The 15th Annual NorPEN Meeting, November 22–24, 2023, Oslo, Norway.
 46. **Giorcelli A, Trinh N, Rostami S, Lupattelli A**: Prenatal antidepressant trajectories and progression of clinical stages in the development of non-psychotic mental disorders in the offspring. *Oral presentation*. NOFE conference 2023, November 14–16, 2023, Trondheim, Norway.
 47. Elyass J, **Desalegn A, Trinh N, Lupattelli A**: COVID-19 Vaccine Uptake by Pregnant Women in Norway: A Descriptive Analysis. *Poster presentation*. NOFE conference 2023, November 14–16, 2023, Trondheim, Norway.
 48. **Trinh N**, Pedroncelli M, **Rostami S, Lupattelli A**: Prenatal antidepressant exposure and body mass index trajectories up to 14 years of age in the offspring born to mothers with pre-pregnancy depression and/or anxiety. *Oral presentation*. NOFE conference 2023, November 14–16, 2023, Trondheim, Norway.
 49. VAC4EU team, **Lupattelli A, Zhao J**: Vaccination utilisation patterns from the VAC4EU active safety surveillance study of the COVID-19 mRNA vaccine (Comirnaty®) in five European countries. *Poster presentation*. ICPE Annual Conference, August 23–27, 2023, Halifax, Canada.

50. Butti D, **Trinh N, Rostami S, Lupattelli A**: Prenatal exposure to antidepressants and longer-term risk of depressive and anxiety outcomes in children. *Oral presentation*. NIAMH and Nordic Marcé Society, October 26–27, 2023, Uppsala, Sweden.
51. **Tauqeer F**, Moen A, Myhr K, Wilson CA, **Lupattelli A**: Assessing decisional conflict and challenges in decision-making among perinatal women using or considering using antidepressants during pregnancy—a mixed-methods study. *Poster presentation*. NAIMH and Nordic Marcé Society, October 26–27, 2023, Uppsala, Sweden.
52. **Desalegn A**, LH Smith, **Zhao J, Nordeng H**, Cantarutti A, Thorne C, Platt RW, **Lupattelli A**: Placental outcomes and birthweight to placental weight ratio after mRNA COVID-19 vaccination during pregnancy: a target trial emulation approach. *Poster presentation*. European Causal Inference meeting – NOFE conference 2023, November 14–16, 2023, Trondheim, Norway.
53. Yusuf HK, Gjelstad A, Lauritzen F, **Björnsdóttir I**: Hvilke legemidler og kosttilskudd benytter idrettsutøvere? Systematisk kartlegging. *Poster presentation*. NFS Pharmacy days 2023, November 9–10, 2023, Oslo, Norway.
54. Sivasambu V, Gjelstad A, Lauritzen F, **Björnsdóttir I**: Kulturen for bruk av legemidler og kosttilskudd blant utøvere i norsk topphåndball. *Poster presentation*. NFS Pharmacy days 2023, November 9–10, 2023, Oslo, Norway.
55. Christensen S, Gjelstad A, Lauritzen F, **Björnsdóttir I**: Medikalisering av idretten – legemiddelbruk i norsk elite ishockey. *Poster presentation*. NFS Pharmacy days 2023, November 9–10, 2023, Oslo, Norway.
56. Di Chiara C, Giugni A, Barbieri E, **Lupattelli A**, Le Prevost M, Giaquinto C, Donà D, Cantarutti A: SARS-CoV-2 Infection and Hospitalization in Immunocompromised Children: a population-based study. *Oral presentation*. CROI 2024, Denver, USA.

Lectures

International external lectures

57. **Lupattelli A**. *Journal club*. VAC4EU Network, February 24, 2023, online.
58. **Mulac A**. Guntschnig S. *Lecture*. Special Interest Group (SIG) Dissemination: The EAHP roadmap towards eliminating avoidable harm, 27th European Association of Hospital Pharmacists (EHAP) Congress, March 22–24, 2023, Lisbon, Portugal.
59. **Nordeng H**. *Keynote speaker*. European Initiatives to Improve Knowledge About Medication safety in Pregnancy and Lactation, Bordeaux PharmacoEpi Festival 2023, May 24, 2023, Bordeaux, France.
60. **Lupattelli A**. *Workshop*. Quantitative epidemiological methods, Nordic Social Pharmacy Conference 2023, June 7, 2023, Tromsø, Norway.
61. **Lupattelli A**. *Workshop*. Pharmacological treatments for perinatal mental health. Women Choose Health Initiative Seminar, May 5 2023, Coimbra, Portugal.

62. **Lupattelli A.** *Lecture.* Pharmacological treatments for perinatal mental health: Perception of risk of adverse neurodevelopmental outcomes in offspring related to antidepressant, other psychotropics and mental illness exposure in pregnancy and breastfeeding, Women Choose Health Initiative Seminar, May 5, 2023, Coimbra, Portugal.
63. **Nordeng H.** *Lecture.* Nordic initiative to improve knowledge about Medication Safety in Pregnancy and Lactation, 3rd e-Congress in Pharmacoepidemiology, EPI-PHARE, November 24, 2023, online.
64. **Granås AG.** *Lecture.* Farmasihistorier til inspirasjon og refleksjon, October 13, 2023, Det Farmasøytiske Fakultet, Københavns Universitet, Copenhagen, Denmark.

National external lectures

64. **Nordeng H.** Legemidler og graviditet, Emnekurs Obstetrik, Den norske legeförening, January 16, 2023, Rikshospitalet, Oslo, Norway.
65. **Mulac A.** Medication management in the perioperative setting: How to prevent medication errors in the operating room, March, 2023, Department for Nurse Anesthetists, Oslo University Hospitals, Oslo, Norway.
66. **Granås AG.** Farmasihistorier til inspirasjon og refleksjon – 50 års utredninger om "Apoteket i helsetjenesten", Fagdag for Norske sykehusfarmasøytters forening, April, 2023, Oslo, Norway.
67. **Granås AG.** *Keynote lecture.* Digitale løsninger møter virkeligheten – et legemiddelperspektiv, March 2023, Department of Health Sciences in Gjøvik, Faculty of Medicine and Health Sciences, NTNU, Trondheim, Norway.
68. **Granås AG.** Nobody should die due to medication errors. What needs to change in innovation, research and practice to reach this zero-error goal? May 2023, Det norske veritas, Oslo, Norway.
69. **Granås AG, Søbakk OM.** Forsknings og utviklings-muligheter for multidose. Hvilke behov har helsepersonell, apotek og pasienter? January, 2023, NMD, Oslo, Norway.
70. **Granås AG.** START eller STOPP? Riktigere legemiddelbruk gjennom tverrfaglig arbeid. Scientific seminar, January 2023, Institutt for global helse og samfunnsmedisin (IGS) ved Universitetet i Bergen (UiB) og Allmenntmedisinsk forskningsenhet (AFE) i NORCE, Bergen, Norway.
71. **Mulac A.** Forskerperspektivet: Hvorfor er det vanskelig å måle effektene av teknologi på pasientsikkerhet? Parallellsesjon Teknologi og digitalisering, Farmasidagene, November 9, 2023, Oslo, Norway.
72. **Nordeng H.** Hva vi lært om medisiner siden Thalidomidkatastrofen? Kvinnehelseseminar: Gravide og legemidler, December 14, 2023, University of Oslo, Oslo, Norway

73. **Lupattelli A.** Psykisk helse i svangerskapet – Healthx2 studien, Kvinnehelseseminar: Gravide og legemidler, December 14, 2023, University of Oslo, Oslo, Norway
74. **Granås AG.** Hormonelle endringer i overgangsalderen – Mat, Mosjon eller Medisiner? Kvinners helse som forebygging, EHIN 2023 – E-Helse i Norge, November 7, 2023, Oslo, Norway.
75. **Granås AG.** *Keynote lecture.* **Tåler vi mindre enn før?** Den skjulte folkesykdommen – en konferanse om legemiddelavhengighet. October 17, 2023, Oslo, Norway.
76. **Granås AG.** *Keynote lecture.* Digital transformasjon av legemiddelhåndtering og pasientsikkerhet – fra ord til handling, Pasientsikkerhetskonferansen 2023, November 14, 2023, Oslo, Norway.
77. **Granås AG.** Hvordan kunne vi fått bedre hjelp av det lokale apoteket til å sikre en bedre helsetjeneste for innbyggerne – Fokus på riktig etterlevelse av legemiddelbehandling og på legemiddelhåndtering, Apotekforeningen, December 12, 2023, Oslo, Norway.

Reports to the European Medicines Agency (EMA)

1. Durán CE, Schultze A, Douglas I, Bots S, Belitser S, Messina D, Martin I, Roberto G, Bartolini C, Gini R, Weibel D, Mahy P, Bastidas A, Hoxhaj V, Oberski D, Eijkemans R, Bor R, Elbers R, Riera J, Smeden M, Souverein P, Bots S, Siiskonen S, Kirchmayer U, Belleudi V, Layton B, Garcia de Albeniz X, Plana E, Arana A, Kawai A, Gutierrez L, Fortuny J, Weinrib R, Perez-Gutthann S, Herings RMC, Overbeek J, Swart K, Trifiro G, Ingrasciotta Y, Ientile V, **Nordeng H, Lupattelli A, Zhao J**, Maglanoc LA, Martin-Perez M, Garcia-Poza P, Huerta C, Montero D, Burgos A, Riefolo F, Molero E, Mohammadi S, Villalobos F, Bissacco CA, Palleja M, Segundo E, Aragon M, Mira-Iglesias A, Martinez JJC, Fornes AU, Martinez EC, Diez-Domingo J, Klungel O, Sturkenboom M. Covid-Vaccine-Monitor: Final Study Report for WP3 (electronic health record data) and 4 (Methods). EMA/2018/23/PE. Specific Contract No 01 implementing framework contract No EMA/2018/23/PE.
2. Luise C, Weibel D, Albeniz XG, Gini R, Herings R, Overbeek J, Swart K, Giaquinto C, Shakir S, Roy D, Fry C, Lane S, Prados-Torres A, Gimeno-Miguel A, Poblador-Plou B, Villalobos F, Bissacco CA, **Zhao J, Lupattelli A**, Huang W-T, Douglas I, Blume C, Yefimenko N, Haugh M, Plana E, Kawai A, Layton B, Weibel R, Arana A, Sturkenboom M. Post Conditional Approval Active Surveillance Study Among Individuals in Europe Receiving the Pfizer-BioNTech Coronavirus Disease 2019 (COVID-19) Vaccine (EUPAS41623). Interim Report 2.
3. Sørup S, **Zhao J, Lupattelli A**, Lachi D, Gini R, Villalobos F, Palleja M, Bissacco CA, Shakir S, Roy D, Jansen M, Aarts W, Choi J, Esposito D, Martin D, Ehrenstein V. Post-Authorization Active Surveillance Safety Study Using Secondary Data to Monitor Real-World Safety of Spikevax in Europe. EMA/H/C/005791. Interim Report 3.

4. Hurley E, Sturkenboom M, **Nordeng H**. Final CONSIGN study report, WP1. COVID-19 infection and medicines in pregnancy – a multinational electronic health records/registry-based study. EMA/2017/09/PE/11 (Lot 4). Study on impact of COVID-19 infection and medicines in pregnancy.

Public outreach

1. **Robinson E**. [Hva koster bivirkninger når medisinen ikke lengre passer til pasienten?](#) Nasjonalt senter for e-helseforskning, webinar, March 2, 2023.
2. **Ngo ETP**. [Kan en app ta bort morgenkvalmen?](#) Nasjonalt senter for e-helseforskning, webinar, May 5, 2023.
3. Melteig E, **Nordeng H**, Kjellin S. Mine medisiner og jeg. Film med brukerrepresentant, December 14, 2023.

Media coverage

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12. [Vet ikke hvor mange som dør av feilmedisinering](#) | NRK radio | **Granås AG**
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14. [Feilmedisinering på norske sykehus](#) | TV2 Play | **Mulac A**
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29. [Radio 1 Journaal](#) | NPO Radio 1 | **van Gelder M, Lupattelli A**
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56. [Dimitris Kops](#) | Slam FM | **van Gelder M, Lupattelli A**
57. [Stephan Jacobs](#) | 100% NL | **van Gelder M, Lupattelli A**
58. [Thomas van Empelen](#) | 100% NL | **van Gelder M, Lupattelli A**
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74. [De Muziekmiddag](#) | Omroep Zeeland Radio | **van Gelder M, Lupattelli A**
75. [Lunchpauze](#) | Omroep Gelderland | **van Gelder M, Lupattelli A**
76. [Lunch Lekker \(Max\)](#) | NPO Radio 5 | **van Gelder M, Lupattelli A**
77. [Menno in de Middag](#) | Omroep West | **van Gelder M, Lupattelli A**
78. [Anouk in de Middag](#) | RTV Drenthe | **van Gelder M, Lupattelli A**
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80. [Bureau Buitenland](#) | NPO Radio 1 | **van Gelder M, Lupattelli A**
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101. [NOS Journaal - npo-1 15:00](#) | NPO-1 | **van Gelder M, Lupattelli A**
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109. [Zeeland komt Thuis](#) | Omroep Zeeland Radio | **van Gelder M, Lupattelli A**
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122. [Dit was het belangrijkste ...](#) | Nationale zorggids | **van Gelder M, Lupattelli A**
123. [Studie: meer ...](#) | Sittard-Geleen.nieuws.nl | **van Gelder M, Lupattelli A**
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128. [Studie: meer complicaties ...](#) | Voorburgs Dagblad | **van Gelder M, Lupattelli A**
129. [Studie: meer complicaties ...](#) | Gouds Dagblad | **van Gelder M, Lupattelli A**
130. [Studie: meer ...](#) | Barendrechts Dagblad | **van Gelder M, Lupattelli A**
131. [Studie: meer complicaties ...](#) | Ridderkerks Dagblad | **van Gelder M, Lupattelli A**
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134. [Meer complicaties ...](#) | Pharmaceutisch Weekblad | **van Gelder M, Lupattelli A**
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137. [Pandemien var ekstra tung for gravide og fødande](#) | forskning.no | **Tauqeer F**
138. [Når i svangerskapet behandling med antidepressiva ...](#) | uio.no | **Trinh N**
139. [Når i svangerskapet behandling med antidepressiva ...](#) | forskning.no | **Trinh N**
140. [Mors medisinbruk: Kan ein blodprøve fortelja kva ...](#) | forskning.no | **Olstad EW**
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142. [Inga endring i legemiddelbruk hjå gravide ...](#) | uio.no | **Ngo ETP**
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151. [Internasjonal einigheit om forskning på legemiddel ...](#) | forskning.no | **Nordeng H**
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166. [Fyrste felles europeiske retningslinjer for behandling ...](#) | uio.no | **Lupattelli A**
167. [Norsk bidrag: Behandling av fødselsdepresjonar ...](#) | forskning.no | **Lupattelli A**
168. [Legemidler i fosterlivet og ...](#) | Norsk Farmaceutisk Tidsskrift | **Olstad EW**
169. [Farmasøyt får Sanitetskvinnenes ...](#) | sanitetskvinnene.no | **Nordeng H**
170. [Professor Hedvig Nordeng får Sanitetskvinnenes ...](#) | uio.no | **Nordeng H**
171. [Fikk pris på 100.000 kroner](#) | Asker og Bærum Budstikke | **Nordeng H**
172. [Hedvig Nordeng får kvinnehelseforskningspris](#) | farmatid.no | **Nordeng H**
173. [UiO-professor fikk Sanitetskvinnenes ...](#) | Uniforum | **Nordeng H**
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175. [Trygt å bruke allergimedisin og amne ...](#) | AstmaAllergi | **Nordeng H**
176. [Hedvig Nordeng får kvinnehelse ...](#) | Norsk Farmaceutisk Tidsskrift | **Nordeng H**
177. [Hedvig Nordeng tildelt Sanitetskvinnenes ...](#) | sanitetskvinnene.no | **Nordeng H**
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181. [P4-nyhetene 07.30](#) | P4-nyhetene | **Granås AG**
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Prizes

1. Sanitetskvinnerenes kvinnehelseforskningspris | **Hedvig Nordeng**
2. Best poster slam, NorPEN conference | **Marleen van Gelder**
3. Best poster, NAIMH & Nordic Marcé Society Joint Conference 2023 | **Fatima Tauqeer**

Awarded research grants

1. **Norsk Farmasøytisk Selskaps Stipendfond** | Digitalisering i legemiddelhåndtering: sikkerhetsrutiner for å forebygge feilmedisinering | Alma Mulac | 20,000 NOK
2. **UiO:Life Science internationalization support** | Pregnancy study-a-thon: application of OMOP perinatal expansion tables | Nhung Trinh | 50,000 NOK
3. **UiO:Life Science event support** | Pharmaeconomics | Eirin Robinson | 50,000 NOK
4. **Norwegian Research Council** | Correct use of medications by individuals with intellectual disability - it's about saving lives | Anne Gerd Granås | 7 mill. NOK
5. **Stiftelsen til fremme av norsk apotekfarmasi** | Delutleveringer av vanedannende legemidler for apotek kunder som trenger hjelp til å begrense forbruk | Anne Gerd Granås | 4.17 mill. NOK
6. **Horizon 2020** | ConcepTION | Hedvig Nordeng | 60,000 EUR
7. **VAC4EU** | Natural history of myocarditis and pericarditis | Angela Lupattelli | 2 mill. NOK
8. **EMAROC** | Pediatric COVID-19 tenders | Hedvig Nordeng | 20,000 EUR
9. **Nasjonalt forskningsnettverk for ADHD** | GENPED ADHD | Nhung Trinh | 150,000 NOK
10. **UiO:Life Science summer student grants 2023** | Four students on three projects selected out of 40 funded projects | 200,000 NOK
 - a. **2 summer students:** Safety interventions to prevent medication errors in the operating room. **Supervisor:** Alma Mulac.
 - b. **1 summer student:** Create an accuracy measuring algorithm for the Mobili medication dispenser system. **Supervisor:** Anne Gerd Granås.
 - c. **1 summer student:** Protective effect of COVID-19 vaccines against long COVID. **Supervisor:** Jing Zhao.

11. **UiO:Life Science event support** | 15th Nordic PharmacoEpidemiological Network (NorPEN) Meeting | Angela Lupattelli | 50,000 NOK
12. **UiO:Life Science internationalization support** | Research visit to Karolinska Institutet, Sweden | Anteneh Assefa Desalegn | 50,000 NOK
13. **UiO:Life Science internationalization support** | Research visit to the University of California San Diego, USA | Alma Mulac | 50,000 NOK
14. **UiO:Life Science internationalization support** | Research visit to the University of Milano-Bicocca, Italy | Nhung Trinh | 39,000 NOK
15. **Kristine Bonnevie stipend** | Alma Mulac | Research visit to the University of California San Diego, USA | 122,000 NOK
16. **UiO:Life Science internationalization support** | Support for workshops to establish new projects between UiO and international researchers | Milica Zugic | 45,000 NOK

Guest researchers

1. **Ricardo Rohweder**, Universidade Federal do Rio Grande do Sul, Brazil. January 3–March 30, 2023.
2. **Hannah Johnson**, St. George's, University of London, United Kingdom. January 31–April 21, and November 22–24, 2023.
3. **Meritxell Pallejà Millán**, IDIAP Jordi Gol, Spain. January 31–July 31, 2023.
4. **Olga Alexandrovna Tchijevitch**, Syddansk Universitet, Denmark. February 1–15, 2023.
5. **Joan Morris**, St. George's, University of London, United Kingdom. March 6–10, and November 22–24, 2023.
6. **Sascha Dublin**, Kaiser Permanente Washington Health Research Institute, Seattle, WA, USA. May 31–June 2, 2023.
7. **Eun-Young Choi**, Sungkyunkwan University, Seoul, South-Korea. June 1–December 15, 2023.
8. **Margherita Camanni**, Milano-Bicocca University, Milan, Italy. August 1–December 31, 2023.
9. **Lin-Chien Meng**, Graduate Institute of Clinical Pharmacy, College of Medicine, National Taiwan University, Taiwan, September 4–October 30, 2023.

Master's projects

Internal Master's projects

1. **Hoda Khadir Yusuf:** Hvilke legemidler og kostholdstilskudd benytter idrettsutøvere? Systematisk kartlegging av publisert forskning. **Main supervisor:** *Ingunn Björnsdóttir*; **co-supervisors:** *Astrid Gjelstad, Fredrik Lauritzen.*
2. **Ole Martin Søbakk:** Forskrivning av nye antikoagulasjonsmidler til mottakere av multidosepakkelegemidler. **Main supervisor:** *Anne Gerd Granås*; **co-supervisors:** *Anette Vik Jøsendal, Anne Katrine Eek (RELIS).*
3. **Sana Rehman:** COVID-19 – en prediksjonsanalyse – risk kalkulator. **Main supervisor:** *Hedvig Nordeng*; **co-supervisors:** *Angela Lupattelli, Nhung Trinh.*
4. **Vibitha Sivasambu:** Kulturen for bruk av legemidler og kosttilskudd blant utøvere i norsk topphåndball. **Main supervisor:** *Ingunn Björnsdóttir*; **co-supervisors:** *Astrid Gjelstad, Fredrik Lauritzen.*
5. **Sofie Christensen:** Legemiddel- og kosttilskuddsbruk i norsk elite ishockey. **Main supervisor:** *Ingunn Björnsdóttir*; **co-supervisors:** *Astrid Gjelstad, Fredrik Lauritzen.*

External Master's projects

6. **Elisabetta Paese** (with the University of Milano, Italy): Trajectories of body mass index in the offspring from 6 week up to age 14 years of age following prenatal co-exposure to antidepressant and other psychotropic medications. **Main supervisor:** *Angela Lupattelli*; **co-supervisor:** *Nhung Trinh.*
7. **Desiree Butti** (with the University of Milano, Italy): Effect of antidepressant initiation in pregnancy and combined treatment with other psychotropics on offspring anxiety and depressive symptoms up to adolescence. **Main supervisor:** *Angela Lupattelli*; **co-supervisor:** *Nhung Trinh.*
8. **Anastasia Giorelli** (with the University of Milano-Bicocca, Italy): Association of prenatal psychotropic drug exposure with pubertal development in offspring. **Main supervisor:** *Angela Lupattelli*; **co-supervisor:** *Nhung Trinh.*
9. **Maria Beatrice Cattini** (with the Department of Mathematics, UiO, and the University of Milano-Bicocca, Italy): Antidepressant initiation in pregnancy and placental weight outcomes. **Main supervisor:** *Angela Lupattelli*; **co-supervisors:** *Nhung Trinh, Paolo Berta.*
10. **Zeenat Fatima Chatha** (with the International Public Health Programme, UiO): AD initiation in the postpartum and maternal mental health outcomes. **Main supervisor:** *Angela Lupattelli*; **co-supervisor:** *Nhung Trinh.*
11. **Nkoli Nwobodo** (with the University of Bordeaux, France): Association of antidepressant treatment during pregnancy with offspring acceleration of growth in early life. **Main supervisor:** *Angela Lupattelli*; **co-supervisor:** *Nhung Trinh.*
12. **Victoria Ekechi** (with the University of Bordeaux, France): Predictors of antidepressant treatment discontinuation during pregnancy and relapse following

antidepressant treatment discontinuation using different machine learning models.

Main supervisor: Nhung Trinh; **co-supervisor:** Angela Lupattelli.

13. **Jovan Elyass** (with the University of Bordeaux, France): mRNA COVID19 vaccine uptake by pregnant women in Norway: a descriptive analysis. **Main supervisor:** Angela Lupattelli; **co-supervisors:** Anteneh Assefa Desalegn, Nhung Trinh.

PharmaSafe Members in 2023

<i>Name</i>	<i>Position</i>
Anne Gerd Granås	Professor
Angela Lupattelli	Professor
Hedvig Marie Egeland Nordeng	Professor
Ingunn Björnsdottir	Associate Professor
Alma Mulac	Post doc
Emilie Willoch Olstad	Post doc
Vera Ruth Mitter	Post doc
Anteneh Assefa Desalegn	Researcher
Benjamin P Geisler	Researcher
Jing Zhao	Researcher
Lene Maria Sundbakk	PhD student/Researcher
Nhung Trinh	Researcher
Saeed Hayati	Researcher
Saima Orangzeb	Researcher
Marleen van Gelder	Senior researcher
Akhila Srinivas Reddy	PhD student
Alexis Christine Carson	PhD student
Eirin Guldsten Robinson	PhD student
Fatima Tauqeer	PhD student
Milica Zugic	PhD student
Maren Mackenzie Olson	Research coordinator (fall 2023-)
Nancy Christine Øien	Research coordinator (-spring 2023)
Anne Gyri Gløersen	Lecturer (50%)
Hilde Kloster Smerud	Lecturer (20%)
Lavin Kadir	Lecturer (fall 2023)
Mia Catharina Nikolaisen Heimdal	Lecturer
Anette Vik Jøsendal	Guest researcher
Eivind Ystrøm	Guest researcher
Kristina Gervin	Guest researcher
Mollie Wood	Guest researcher
Sarah Hjorth Andersen	Guest researcher



Photo: Anders Lien

