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## **Towards improving quality of the evidence base for medical decision-making**

Jansen, M.S.

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## Appendix.





# Curriculum Vitae



**Curriculum Vitae**

Marieke Sophie Jansen was born on 19 November 1990 in Noordwijkerhout, the Netherlands. She completed her pre-university education (VWO) at Leeuwenhorst College, Noordwijkerhout (2002–2008) and attended a preparatory year at the Royal Academy of Art (KABK), The Hague (2008). She then studied psychology at Leiden University (2009–2012), completing her bachelor's degree in an accelerated 2.5-year program. Subsequently, she pursued medicine at Erasmus University Rotterdam, obtaining her bachelor's (2012–2015) and master's (2015–2019) degrees. During this time, she developed a strong interest in scientific research and epidemiological methods, taking additional electives in epidemiology.

After graduating in medicine, she worked as a physician–researcher at Erasmus Medical Centre (2019–2020), combining clinical work in the paediatric eczema outpatient clinic with research activities, including the design and ethical approval of a randomised controlled trial, participation as an investigator in an industry-sponsored trial, and patient data collection.

In 2021, she started her PhD at the Department of Clinical Epidemiology, Leiden University Medical Centre (LUMC), under the supervision of Prof. dr. Olaf M. Dekkers and Prof. dr. Rolf H.H. Groenwold. Her doctoral research addressed challenges in the quality of the evidence base for medical decision-making, spanning from study design, execution, and dissemination of results, to translation of evidence into decision-making. She presented her work at several national and international conferences, and published in peer-reviewed journals. During her PhD, she completed formal training as a clinical epidemiologist and contributed to teaching activities.

Currently, she works at the Department of Clinical Epidemiology, LUMC, within the Research Integrity team led by Prof. dr. Frits R. Rosendaal, focusing on improving the quality and integrity of medical research.



# List of publications



## Published articles included in this thesis

Jansen MS, Groenwold RHH, Dekkers OM. The power of sample size calculations. *Eur J Endocrinol*. 2024 Oct 29;191(5):E5-E9.

Jansen MS, Groenwold RHH, Dekkers OM. The role of research ethics committees in addressing optimism in sample size calculations: A meta-epidemiological study. *Res Integr Peer Rev*. 2025; doi:10.1186/s41073-025-00184-w.

Jansen MS, Pet LA, Buijs JT, Siegerink B, Groenwold RHH, Dekkers OM. Identifying predictors of early trial termination: a meta-epidemiological study utilising elements of the research ethics committee evaluation. *J Clin Epidemiol*. 2025 Aug;184:111832.

Jansen MS, Dekkers OM, Groenwold RHH, Siegerink B. Publication rates in small German trials remained low five years after trial completion. *Contemp Clin Trials*. 2022 Oct;121:106899.

Jansen MS, Dekkers OM, le Cessie S, Hooft L, Gardarsdottir H, de Boer A, Groenwold RHH. Real-World Evidence to Inform Regulatory Decision Making: A Scoping Review. *Clin Pharmacol Ther*. 2024 Jun;115(6):1269-1276.

Jansen MS, Dekkers OM, le Cessie S, Hooft L, Gardarsdottir H, de Boer A, Groenwold RHH. Multiple Perspectives on the Need for Real-World Evidence to Inform Regulatory and Health Technology Assessment Decision-Making: Scoping Review and Stakeholder Interviews. *Pharmacoepidemiol Drug Saf*. 2025 Jan;34(1):e70074.

## Other publications

Dal-Ré R, Banzi R, Cristea IA, Fernández-de-Las-Peñas C, Hemkens LG, Janiaud P, Jansen MS, Naudet F, Rosendaal FR. Using the phases of clinical development of medicines to describe clinical trials assessing other interventions is widespread but not useful. *J Clin Epidemiol*. 2023 Sep;161:157-163.

Jansen MS. Valproïnezuurgebruik door vaders voor de conceptie. *Gebu*. 2025;59(3):e2025.3.8.

van Mierlo MMF, Caspers PJ, Jansen MS, Puppels GJ, Nouwen AEM, Bronner MB, Pardo LM, van Geel M, Pasmans SGMA. Natural moisturizing factor as a biomarker for filaggrin mutation status in a multi-ethnic paediatric atopic dermatitis cohort. *Clin Exp Allergy*. 2021 Nov;51(11):1510-1513.

Ragamin A, Fieten KB, Tupker RA, de Wit J, van Mierlo MMF, Jansen MS, Bronner MB, Schappin R, Schuren FHJ, Romeijn MLE, Arents BWM, Polinder S, de Graaf M, Rustemeyer T, Schuttelaar MLA, Pasmans SGMA. The effectiveness of antibacterial therapeutic clothing based on silver or chitosan as compared with non-antibacterial therapeutic clothing in patients with moderate to severe atopic dermatitis (ABC trial): study protocol for a pragmatic randomized controlled trial. *Trials*. 2021 Dec 11;22(1):902.



# PhD portfolio



| PhD training                                                                   | Hours                           | Year        |
|--------------------------------------------------------------------------------|---------------------------------|-------------|
| <b>Mandatory courses</b>                                                       |                                 |             |
| PhD Introductory Meeting                                                       | 5                               | 2021        |
| Scientific Conduct for PhDs                                                    | 5                               | 2021        |
| Basic Methods and Reasoning in Biostatistics                                   | 42                              | 2022        |
| Responsible Research (BROK)                                                    | 42                              | 2023        |
| <b>Epidemiological courses</b>                                                 |                                 |             |
| Epidemiology - The First Round                                                 | 84                              | 2021        |
| Regression Analysis                                                            | 42                              | 2021        |
| Clinical Epidemiology (Schiermonnikoog)                                        | 84                              | 2021        |
| Skills for the Practicing Epidemiologist                                       | 42                              | 2021        |
| Survival Analysis                                                              | 42                              | 2022        |
| Prediction Modelling and Intervention Research                                 | 84                              | 2022        |
| Causal Inference                                                               | 84                              | 2022        |
| Statistical Aspects of Clinical Trials                                         | 28                              | 2022        |
| Meta-analysis                                                                  | 42                              | 2022        |
| Advanced Epidemiological Methods                                               | 84                              | 2022        |
| Analysis of Repeated Measurements                                              | 42                              | 2022        |
| <b>Other courses</b>                                                           |                                 |             |
| Using R for Data Analysis                                                      | 42                              | 2021        |
| Schrijven van een overzichtsartikel voor een breed medisch publiek ('GeBu')    | 84                              | 2024        |
| Quality & Integrity journal club                                               | 28                              | 2024        |
| Capita Selecta                                                                 | 56                              | 2025        |
| <b>Conference attendance and poster or oral presentations</b>                  |                                 | <b>Year</b> |
| WEON (online)                                                                  | Attendance                      | 2021        |
| WEON (Nijmegen)                                                                | Attendance                      | 2022        |
| WEON (Rotterdam)                                                               | Attendance, oral presentation   | 2023        |
| GetReal Conference (Utrecht)                                                   | Attendance, oral presentation   | 2023        |
| DIA Europe (Brussels)                                                          | Attendance, poster presentation | 2024        |
| World Conference on Research Integrity (Athens)                                | Attendance                      | 2024        |
| WEON (Utrecht)                                                                 | Attendance                      | 2024        |
| WEON (Leiden)                                                                  | Attendance, oral presentation   | 2025        |
| <b>Teaching activities</b>                                                     |                                 | <b>Year</b> |
| Clinical Research in Practice (MSc Biomedical Sciences)                        |                                 | 2021        |
| Academic and Scientific Training Year 2 (BSc Medicine)                         |                                 | 2021        |
| Clinical Research Methods (BSc Biomedical Sciences)                            |                                 | 2022        |
| Critical Appraisal of a Topic (BSc Medicine)                                   |                                 | 2022        |
| Clinical Research in Practice (MSc Biomedical Sciences)                        |                                 | 2022        |
| Honours - Clinical Scientific Research (BSc Medicine, BSc Biomedical Sciences) |                                 | 2022        |
| Critical Appraisal of a Topic (BSc Medicine)                                   |                                 | 2023        |
| Design and Analysis of Biomedical Studies (BSc Biomedical Sciences)            |                                 | 2023        |
| Practical Research Skills - Research proposals (MSc Medicine)                  |                                 | 2023        |
| Critical Appraisal of a Topic (BSc Medicine)                                   |                                 | 2024        |
| Academic and Scientific Training Year 1 (BSc Medicine)                         |                                 | 2024        |
| Academic and Scientific Training Year 3 (BSc Medicine)                         |                                 | 2024        |
| Clinical Research Methods (BSc Biomedical Sciences)                            |                                 | 2024        |
| Clinical Research in Practice (MSc Biomedical Sciences)                        |                                 | 2024        |
| Practical Research Skills - Research proposals (MSc Medicine)                  |                                 | 2024        |
| Noordwijk Masters Course I (MSc Medicine, MSc Biomedical Sciences)             |                                 | 2025        |
| Noordwijk Masters Course II (MSc Medicine, MSc Biomedical Sciences)            |                                 | 2025        |
| Clinical Research in Practice (MSc Biomedical Sciences)                        |                                 | 2025        |
| Practical Research Skills - Responsible research (MSc Medicine)                |                                 | 2025        |
| <b>Student supervision</b>                                                     |                                 | <b>Year</b> |
| Hamza Mian, MSc Biomedical Sciences internship                                 |                                 | 2024        |
| <b>Organising activities</b>                                                   |                                 | <b>Year</b> |
| Capita Selecta chair                                                           |                                 | 2022        |
| EPI Summer School chair                                                        |                                 | 2022        |
| <b>Peer review</b>                                                             |                                 | <b>Year</b> |
| Pharmacoepidemiology & Drug Safety                                             |                                 | 2025        |
| Research Integrity & Peer Review                                               |                                 | 2025        |
| <b>Award and prizes</b>                                                        |                                 | <b>Year</b> |
| Best poster presentation DIA Europe (Brussels)                                 |                                 | 2024        |
| Best oral presentation WEON (Leiden)                                           |                                 | 2025        |



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## **Dankwoord**

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## **About the cover**

The artwork depicts the landscape of clinical research as a constellation of dots and connections. Each dot represents a study or area of medical decision-making, and the lines between them trace how evidence builds and informs practice. Larger dots mark fields of major clinical relevance, while smaller, connected ones represent the many studies that together illuminate these areas. The unconnected dots symbolise research that, for various reasons such as problems in study design, execution, or dissemination of results, fails to contribute to clinical practice and remains isolated; it reflects research waste within the scientific enterprise.