



Eleni-Rosalina Andrinopoulou

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EDUCATION AND TITLES

- Assistant Professor of Biostatistics** 2019 - now
- Erasmus MC - Department of Biostatistics and Department of Epidemiology
- Postdoctoral fellow** 2014 - 2019
- Erasmus MC - Department of Biostatistics and Department of Epidemiology
- Researcher** 2017 - 2018
- Rotterdam Eye Hospital - ROI
- Doctorate** 2010 - 2014
- Erasmus MC - Department of Biostatistics and Department of Cardio-Thoracic Surgery
 - Promotors: Prof. dr. E. Lesaffre and Prof. dr. J.J.M. Takkenberg
 - Supervisor: Prof. dr. D. Rizopoulos
 - Thesis title: Joint Modelling of Longitudinal and Survival Data with Applications in Heart Valve Data.
- Bachelor** 2006 - 2010
- Athens University of Economics and Business - Department of Statistics

PERSONAL STATEMENT

My research line concerns the development of innovative methodology for gaining new insights in dynamically predicting and analysing big data by combining different sources of information, including registry data with patient information, environmental experiences, community characteristics and image data. To do that, I explore the extension and combination of modern statistical approaches. Since most of the motivating data sets that I have been working on concern multiple measurements per patient and survival outcomes, I base my new developments on the framework of mixed-effects and joint models. With my research group, we adapt such methods to handle multiple sources of information such as multiple repeated measurements and different types of survival outcomes. In the last eight years of my research career, I have focused on obtaining personalised dynamic predictions based on new methodologies and investigating predictive performance measures. Since my goal is to apply those predictions in clinical practice, I have also focused on developing tools for clinicians, some of which are used in everyday practice.

NATIONAL ACTIVITIES

Collaborations:

1. Prof. Ruud Selles, Department of Rehabilitation Medicine and Department of Plastic and Reconstructive Surgery and Hand Surgery and Dr. Harm Slijper, medical performance officer of Equipe: Active collaboration since May 2018 in the field of longitudinal dynamic prediction and hand surgery. This collaboration has led to 12 published papers. I have, also, developed prediction models of the patient-specific profile for routine measurements of impairment that contribute to loss of movement and function poststroke by incorporating all serially assessed clinical information from patients. These models are implemented and used in clinical practice (collaboration with with Rijndam Revalidation center and Santeon).
2. Prof. Harm A. W. M. Tiddens, Department of Pediatrics/Respiratory Medicine, Erasmus MC: Active collaboration since February 2015 in the field of cystic fibrosis. This collaboration has led to 19 published papers. In particular, my focus relies on analyzing chest images, often leading to high-dimensional data.
3. Dr. Bart J. A. Rijnders, Department of Internal Medicine and Infectious Diseases. Past collaboration between September 2015 until September 2018. This collaboration has led to 4 published papers.
4. Prof. Johanna J. M. Takkenberg, Department of Cardio-Thoracic Surgery, Erasmus MC – former PhD promotor: Past collaboration between October 2014 and December 2017 in the field of degenerative aortic stenosis. After the completion the PhD this collaboration has led to 3 published papers.
5. Dr. Koen Vermeer, Rotterdam Rotterdam Ophthalmic Institute: Past collaboration between January 2017 and April 2018 in the field of Uveitis. This collaborations has led to 1 accepted abstract at the 14th International Ocular Inflammation Society Meeting in conjunction with SOIE, 2 published papers.

Teaching:

1. Biostatistics I and Biostatistics II, NIHES MSc Program Erasmus MC - since 2020
2. Using R for Statistics in Medical Research, NIHES MSc Program Erasmus MC - 2018 until 2020
3. 1st and 4th year medical students at Erasmus MC - since 2016
4. Courses for the Quantitative Researcher, NIHES MSc Program Erasmus MC - 2016 and 2017

Statistical Consulting:

1. Statistical consulting to the members of Erasmus MC since September 2010.
2. Statistical consulting to the members of Rotterdam Ophthalmic Institute (01/2017 – 04/2018).

Invited Seminars:

1. Department of Epidemiology Erasmus MC, May 2021: Using Interactive Shiny Applications and Markdown in R to Facilitate Reproducible Research

2. Rladies Rotterdam, February 2018: Using R for my Research - modern uses: Markdown and Shiny app.
3. Biostatistics section of Department of Epidemiology and Biostatistics VU university medical center, Amsterdam, June 2014: Combined Dynamic Predictions using Joint Models of Multiple Longitudinal Outcomes and Competing Risk Data.

INTERNATIONAL ACTIVITIES

Collaborations:

1. Dr. Robin Mitra, Department of Statistics, University College London. Active collaboration in the field of structured missing data and high-dimensional genetic data. This collaboration has led to 1 published paper and 1 grant.
2. Prof. Rhonda Szczesniak, Department of Biostatistics Epidemiology and the department of Pulmonary Medicine at Cincinnati Children's Hospital Medical Center (CCHMC), Cincinnati, United States: Active collaboration in the field of cystic fibrosis since February 2016. This collaboration has led to 13 published papers, 3 CFF (Cystic Fibrosis Foundation) grants and an NIH R01 grant.
3. Dr. Michael O. Harhay, Department of Biostatistics, Epidemiology, and Informatics, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, United State, Palliative and Advanced Illness Research (PAIR) Center, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, USA, Pulmonary, Allergy, and Critical Care Division, Department of Medicine, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, United State, Division of Biostatistics, Department of Public Health Sciences, University of Virginia, Charlottesville, VA, United States: Past collaboration in the field of biostatistics between 2020 and 2021. This collaboration has led to 1 published paper.
4. Dr. Lidija Turkovic, Australian Respiratory Early Surveillance Team for Cystic Fibrosis (AREST CF): Past collaboration in the field of cystic fibrosis between 2016 and 2017. This collaboration has led to 1 published paper.
5. Dr. Montserrat Rué, Department of Basic Medical Sciences, Universitat de Lleida-IRBLLEIDA, Spain: Past collaboration in the field of biostatistics between 2016 and 2017. This collaboration has led to 1 published paper.
6. Dr. Xavier Piulachs Lozada-Benavente, Institute of Statistics, Biostatistics and Actuarial Science, UCLouvain, Belgium: Past collaboration in the field of biostatistics between 2016 and 2018. This collaboration has led to 1 submitted paper.

Invited Seminars:

1. French joint modelling group, October 2024: Assessing Risk Indicators in Clinical Practice with Joint Models of Longitudinal and Time-to-Event Data.
2. Department of Mathematics, King's College London, January 2020: Challenges and opportunities in the analysis of clinical data.

3. Department of Mathematics, University of Oslo, Norway, February 2019: Assessing Risk Indicators in Clinical Practice with Joint Models of Longitudinal and Time-to-Event Data.
4. Center for Clinical & Translational Science Training. Ground Rounds, University of Cincinnati, USA, September 2018: Assessing Risk Indicators in Clinical Practice with Joint Models of Longitudinal and Time-to-Event Data.
5. Department of Biostatistics, Fairbanks School of Public Health and School of Medicine, Indiana University, Indianapolis, USA, September 2018: Assessing Risk Indicators in Clinical Practice with Joint Models of Longitudinal and Time-to-Event Data.
6. Statistics seminars at the Institute of Statistics, Biostatistics and Actuarial Sciences in UCL Louvain, Belgium, May 2018: Joint Modelling of Longitudinal and Survival Data.
7. EORTC course on: Clinical Trial Statistics for Non Statisticians, Brussels, Belgium, June 2015: Prognostic Factor Models.

Peer Reviewer International Scientific Journals:

1. Statistics in Medicine
2. Statistical Methods in Clinical Research
3. Biometrical Journal
4. Statistical Modelling
5. Biometrics
6. Biostatistics
7. IEEE Transactions on Biomedical Engineering
8. European Journal of Cardio-Thoracic Surgery (statistical reviewer)
9. Interactive CardioVascular and Thoracic Surgery (statistical reviewer)

Awards:

1. International Society for Clinical Biostatistics (2013): 1,000 euros.
2. State Scholarship Foundation (IKY) (2005): 2,500 euros.

Grants:

1. co-I on a grant titled "Develop a coherent Bayesian modelling and imputation framework that accounts for, and utilises, structured missingness" (1/09/2022 - 29/02/2024): £37,985.04
2. co-I on a NIH R01 grant titled "Mapping environmental contributions to rapid lung disease progression in cystic fibrosis" (18/01/2019 - 31/12/2023): 171,450 US dollars.
3. co-PI on a Cystic Fibrosis Foundation award to develop best practices for the analysis of lung function Decline (01/05/2018 – 01/05/2019): 33,585 US dollars.

- Renewal: co-PI on a Cystic Fibrosis Foundation award to develop best practices for the analysis of lung function Decline (01/07/2020 – 30/06/2021): 39,404 US dollars.
- Renewal: co-PI on a Cystic Fibrosis Foundation award to develop best practices for the analysis of lung function Decline (01/06/2022 – 31/05/2023): 34,428 US dollars.

Invited Speakers at Conferences:

1. European Network for Business and Industrial Statistics, Valencia, September 2023: Assessing Risk Indicators in Clinical Practice with Joint Models of Longitudinal and Time-to-Event Data.
2. European Cystic Fibrosis Conference, Rotterdam, June 2022: Linking US registry data with geospatial data: longitudinal associations between environmental factors and lung function decline.
3. North American Cystic Fibrosis Conference, online, October 2020: Estimating Cystic Fibrosis Lung Function Decline: An Empirical Study.
4. International Society for Clinical Biostatistics, online, August 2020: Challenges and opportunities of combined analysis of multiple outcomes in longitudinal studies.
5. Computational and Methodological Statistics, Pisa, Italy, December 2018: Joint Modelling of Longitudinal and Survival Data: recent extensions and applications.
6. American College of Epidemiology, Cincinnati, USA, September 2018: Making Dynamic Predictions Flexible: Monitoring Post-Surgical Outcomes.

Workshops at Conferences:

1. American College of Epidemiology, Cincinnati, USA, September 2018: Joint Modelling of Longitudinal and Survival Data: Tools to Evaluate Exposures and Predict Outcome Across the Lifespan.

Organized Sessions at Conferences:

1. Computational and Methodological Statistics 2022: Geospatial harmonization: Dynamic prediction and mapping
 - E. Rasnick, E. Gecili, A. Palipana, P. Ryan, E.-R. Andrinopoulou, P. Miranda Afonso, R. Keogh, J. Clancy, R. Szczesniak, C. Brokamp: Geospatial harmonization with multimodal geospatial markers and R package developments.
 - S. Colegate, C. Brokamp, R. Szczesniak, M. Rao: Acute exposure to ambient particulate matter and pulmonary exacerbations: A case-crossover simulation study.
 - A. Palipana, E. Gecili, R. Szczesniak, E. Rasnick, A. Vancil, D. Ehrlich, T. Pestian, E.-R. Andrinopoulou, P. Miranda Afonso, R. Keogh, Y. Ni, J. Clancy, P. Ryan, C. Brokamp: Granularity in deriving environmental exposures & community characteristics: Impacts on predictive accuracy.
 - J. Dexheimer: Machine learning methodologies for the prediction of rapid lung function decline.

- P. Afonso, R. Szczesniak, D. Rizopoulos, G. Zhou, J. Clancy, A. Palipana, E. Rasnick, C. Brokamp, P. Ryan, R. Keogh, E.-R. Andrinopoulou: Jointly modeling lung function decline, nutritional evolution and pulmonary exacerbation onset.
2. Computational and Methodological Statistics 2021: Analyzing and predicting different outcomes in clinical studies
 - D. Rizopoulos: Minimizing the burden of invasive procedures via personalized scheduling.
 - C. Proust-Lima, J. Lespinasse, C. Dufouil: Longitudinal modeling of disease progression biomarkers in the latent disease timescale: Example of Alzheimer's disease.
 - E. Granger, F. Frost, R. Keogh: Estimating the effect of insulin use on outcomes in people with cystic fibrosis-related diabetes using causal prediction.
 - M. Fiocco: Marginal structural models with joint exposure to assess variations to chemotherapy intensity.

SOFTWARE

<https://github.com/erandrinopoulou>

PRESENTATIONS

1. European Network for Business and Industrial Statistics, Valencia, September 2023 - Assessing Risk Indicators in Clinical Practice with Joint Models of Longitudinal and Time-to-Event Data.
2. European Cystic Fibrosis Conference, Rotterdam, June 2022 - Linking US registry data with geospatial data: longitudinal associations between environmental factors and lung function decline.
3. North American Cystic Fibrosis Conference, online, October 2020 - Estimating Cystic Fibrosis Lung Function Decline: An Empirical Study.
4. Annual Conference of the International Society for Clinical Biostatistics, Leuven 2019 - Dynamic prediction modelling in hand disorders after stroke using a latent class multivariate mixed model. (oral presentation)
5. Computational and Methodological Statistics, Pisa, Italy, December 2018 - Joint Modelling of Longitudinal and Survival Data: recent extensions and applications. (invited oral presentation)
6. International Biometrics Conference, Barcelona 2018 - Dynamic predictions of visual acuity in uveitis (oral presentation)
7. Rotterdam Ophthalmic Institute 2017 - Dynamic predictions of visual acuity in uveitis. (oral presentation) 14th International Ocular Inflammation Society Meeting in conjunction with

- SOIE, Lausanne 2017 - Dynamic predictions of visual acuity in uveitis. (oral presentation)
8. Annual Conference of the International Society for Clinical Biostatistics, Vigo 2017 - Integrating Latent Classes in the Joint Model of Longitudinal and Survival Outcomes. (oral presentation)
 9. Eastern Mediterranean Region International Biometric Society and Italian Region conference, Thessaloniki 2017 - Integrating Latent Classes in the Joint Model of Longitudinal and Survival Outcomes. (oral presentation)
 10. Department of Radiology (Erasmus MC) 2017 - Multiple testing (oral presentation) 28th International Biometric Conference (IBC), Victoria, Canada, 2016: Bayesian Joint Models of Longitudinal and Survival Outcomes with Time-Varying Effects using P-splines. (oral presentation)
 11. Joint models and beyond workshop, Hasselt, Belgium, 2016: Bayesian Joint Models of Longitudinal and Survival Outcomes with Time-Varying Effects using P-splines. (poster presentation)
 12. 36th Annual Conference of the International Society for Clinical Biostatistics (ISCB), Utrecht, The Netherlands, 2015: Bayesian Variable Selection with Joint Modeling of Longitudinal and Survival Outcomes Assuming Different Association Structures. (oral presentation)
 13. 3rd Meeting on Statistics, Athens, Greece, 2015: Bayesian Variable Selection with Joint Modeling of Longitudinal and Survival Outcomes Assuming Different Association Structures. (oral presentation)
 14. 8th Eastern Mediterranean Region International Biometric Society (EMR-IBS), Cappadocia, Turkey, 2015: Bayesian Variable Selection with Joint Modeling of Longitudinal and Survival Outcomes Assuming Different Association Structures. (oral presentation)
 15. International Biometric Society Channel Network Conference, Nijmegen, The Netherlands, 2015: Bayesian Variable Selection with Joint Modeling of Longitudinal and Survival Outcomes Assuming Different Association Structures. (oral presentation)
 16. 35th Annual Conference of the International Society for Clinical Biostatistics (ISCB), Vienna, Austria, 2014: Combined Dynamic Predictions using Joint Models of Multiple Longitudinal Outcomes and Competing Risk Data. An Application in Heart Valve Data. (oral presentation - chosen as one of three papers to receive a prize - conference was paid by the organization)
 17. 27th International Biometric Conference (IBC), Florence, Italy, 2014: Combined Dynamic Predictions using Joint Models of Multiple Longitudinal Outcomes and Competing Risk Data.

An Application in Heart Valve Data. (oral presentation)

18. Statistical Analysis of Multi-Outcome Data Workshop, Cambridge, UK, 2014: Combined Dynamic Predictions using Joint Models of Multiple Longitudinal Outcomes and Competing Risk Data. An Application in Heart Valve Data. (poster presentation – chosen as one of three posters to receive a prize)
19. 6th Annual Joint Scientific Session of the Heart Valve Society of America (HVSA) and Society for Heart Valve Disease (SHVD) Valves in the Heart of the Big Apple VIII, New York, US, 2014: How Can Complex Statistical Models Help Cardiologists with VHD Patients Prognostication? The Example of Allograft Valve Function to Predict Patient Outcome. (oral presentation)
20. 7th Biennial Congress of the SHVD and HVSA, Venice Italy: Dynamic Event Prediction using Joint Models for Longitudinal and Time-to-Event Data. Concept Applied to Patients with Severe Aortic Stenosis. (oral presentation)
21. BAYES2013, Rotterdam, The Netherlands, 2013: Dynamic Predictions in a Joint Model of Two Longitudinal Outcomes and Competing Risk Data. An Application in Heart Valve Data. (oral presentation)
22. 7th meeting of the Eastern Mediterranean Region of the International Biometric Society (EMR-IBS), Tel Aviv, Israel, 2013: Dynamic Predictions in a Joint Model of Two Longitudinal Outcomes and Competing Risk Data. An Application in Heart Valve Data. (oral presentation)
23. WEON 2012 Health and disease during the life course, Rotterdam, The Netherlands, 2012: Factors influencing natural course of Congenital Aortic Stenosis in young adults: a multicenter study. (oral presentation)
24. 27th International Workshop on Statistical Modelling (IWSM), Prague Czech, Republic, 2011: Joint Modeling of Two Longitudinal Outcomes and Competing Risk Data. An Application in Cardio Data. (oral presentation – award for the extraordinary student presentation)

PUBLICATIONS

1. Afonso PM, Rizopoulos D, Palipana AK, Zhou GC, Brokamp C, Szczesniak RD, Andrinopoulou ER. Efficiently analyzing large patient registries with Bayesian joint models for longitudinal and time-to-event data. arXiv preprint arXiv:2310.03351. 2023 Oct 5.
2. Lv Q, Gallardo-Estrella L, Andrinopoulou ER, Chen Y, Charbonnier JP, Sandvik RM, Caudri D, Nielsen KG, de Bruijne M, Ciet P, Tiddens H. Automatic analysis of bronchus-artery dimensions to diagnose and monitor airways disease in cystic fibrosis. *Thorax*. 2023 Sep 21; doi: 10.1136/thorax-2023-220021. [Epub ahead of print] PubMed PMID: 37734952.

3. Dorr MC*, Andrinopoulou ER*, Sewnaik A, Berzenji D, van Hof KS, Dronkers EAC, Bernard SE, Hoesseini A, Rizopoulos D, Baatenburg de Jong RJ, Offerman MPJ. Individualized Dynamic Prediction Model for Patient-Reported Voice Quality in Early-Stage Glottic Cancer. *Otolaryngol Head Neck Surg.* 2023 Aug 13;. doi: 10.1002/ohn.479. [Epub ahead of print] PubMed PMID: 37573487. *Shared co-first authorship
4. Reifenberg J, Gecili E, Pestian T, Andrinopoulou ER, Ryan PH, Brokamp C, Collaco JM, Szczesniak RD. Lung function and secondhand smoke exposure among children with cystic fibrosis: A Bayesian meta-analysis. *J Cyst Fibros.* 2023 Jul;22(4):694-701. doi: 10.1016/j.jcf.2023.04.020. Epub 2023 May 2. PubMed PMID: 37142525; PubMed Central PMCID: PMC10524940.
5. Lika A, Andrinopoulou ER, van der Beek NAME, Rizopoulos D, van der Ploeg AT, Kruijshaar ME. Association between changes in pulmonary function and in patient reported outcomes during enzyme therapy of adult patients with late-onset Pompe disease. *J Inherit Metab Dis.* 2023 Jul;46(4):595-604. doi: 10.1002/jimd.12606. Epub 2023 Apr 2. PubMed PMID: 36966448.
6. Szczesniak R, Andrinopoulou ER, Su W, Afonso PM, Burgel PR, Cromwell E, Gecili E, Ghulam E, Goss CH, Mayer-Hamblett N, Keogh RH, Liou TG, Marshall B, Morgan WJ, Ostrenga JS, Pasta DJ, Stanojevic S, Wainwright C, Zhou GC, Fernandez G, Fink AK, Schechter MS. Lung Function Decline in Cystic Fibrosis: Impact of Data Availability and Modeling Strategies on Clinical Interpretations. *Ann Am Thorac Soc.* 2023 Jul;20(7):958-968. doi: 10.1513/AnnalsATS.202209-829OC. PubMed PMID: 36884219.
7. Dorr MC, Sewnaik A, Andrinopoulou E, Berzenji D, Dronkers EAC, Bernard SE, Hoesseini A, Tans L, Rizopoulos D, Baatenburg de Jong RJ, Offerman MPJ. Longitudinal Patient-Reported Voice Quality in Early-Stage Glottic Cancer. *Otolaryngol Head Neck Surg.* 2023 Jun;168(6):1463-1471. doi: 10.1002/ohn.263. Epub 2023 Feb 8. PubMed PMID: 36939474.
8. Chen Y, Lv Q, Andrinopoulou ER, Gallardo-Estrella L, Charbonnier JP, Caudri D, Davis SD, Rosenfeld M, Ratjen F, Kronmal RA, Stukovsky KDH, Stick S, Tiddens HAWM. Automatic bronchus and artery analysis on chest computed tomography to evaluate the effect of inhaled hypertonic saline in children aged 3-6 years with cystic fibrosis in a randomized clinical trial. *J Cyst Fibros.* 2023 May 26;. doi: 10.1016/j.jcf.2023.05.013. [Epub ahead of print] PubMed PMID: 37246053.
9. Gecili E, Brokamp C, Rasnick E, Afonso PM, Andrinopoulou ER, Dexheimer JW, Clancy JP, Keogh RH, Ni Y, Palipana A, Pestian T, Vancil A, Zhou GC, Su W, Siracusa C, Ryan P, Szczesniak RD. Built environment factors predictive of early rapid lung function decline in cystic fibrosis. *Pediatr Pulmonol.* 2023 May;58(5):1501-1513. doi: 10.1002/ppul.26352. Epub 2023 Feb 21. PubMed PMID: 36775890; PubMed Central PMCID: PMC10121820.
10. Kappen PR, Kappen HJ, Dirven CMF, Klimek M, Jeekel J, Andrinopoulou ER, Osse RJ, Vincent AJPE. Postoperative Delirium After Intracranial Surgery: A Retrospective Cohort Study. *World Neurosurg.* 2023 Apr;172:e212-e219. doi: 10.1016/j.wneu.2022.12.132. Epub 2023 Jan 4. PubMed PMID: 36608800.
11. Baez-Navarro X, van Bockstal MR, Andrinopoulou ER, van Deurzen CHM. HER2-Low Breast Cancer: Incidence, Clinicopathologic Features, and Survival Outcomes From Real-World Data of a Large Nationwide Cohort. *Mod Pathol.* 2023 Apr;36(4):100087. doi: 10.1016/j.modpat.2022.100087. Epub 2023 Jan 10. PubMed PMID: 36788086.

12. Mitra R, McGough SF, Chakraborti T, Holmes C, Copping R, Hagenbuch N, Biedermann S, Noonan J, Lehmann B, Shenvi A, Doan XV, Leslie D, Bianconi G, Sanchez-Garcia R, Davies A, Mackintosh M, Andrinopoulou ER, Basiri A, Harbron C, MacArthur BD. Learning from data with structured missingness. *Nature Machine Intelligence*. 2023 Jan;5(1):13-23.
13. Wolf JL, Trandafir TE, Akram F, Andrinopoulou ER, Maat AWP, Mustafa DAM, Kros JM, Stubbs AP, Dingemans AC, von der Thüsen JH. The value of prognostic and predictive parameters in early-stage lung adenocarcinomas: A comparison between biopsies and resections. *Lung Cancer*. 2023 Feb;176:112-120. doi: 10.1016/j.lungcan.2022.12.018. Epub 2022 Dec 30. PubMed PMID: 36634572.
14. Loos NL, Hoogendam L, Souer JS, Slijper HP, Andrinopoulou ER, Coppieters MW, Selles RW. Reply to the Letter to the Editor: Machine Learning Can be Used to Predict Function but Not Pain After Surgery for Thumb Carpometacarpal Osteoarthritis. *Clin Orthop Relat Res*. 2022 Nov 1;480(11):2278-2279. doi: 10.1097/CORR.0000000000002398. Epub 2022 Sep 13. PubMed PMID: 36099414; PubMed Central PMCID: PMC9556074.
15. van den Bosch WB, Kloosterman SF, Andrinopoulou ER, Greidanus R, Pijnenburg MWH, Tiddens HAWM, Janssens HM. Small airways targeted treatment with smart nebulizer technology could improve severe asthma in children: a retrospective analysis. *J Asthma*. 2022 Nov;59(11):2223-2233. doi: 10.1080/02770903.2021.1996597. Epub 2021 Nov 9. PubMed PMID: 34699298.
16. Wang X, Bakhuis W, Veen KM, Bogers AJJC, Etnel JRG, van Der Ven CCEM, Roos-Hesselink JW, Andrinopoulou ER, Takkenberg JJM. Outcomes after right ventricular outflow tract reconstruction with valve substitutes: A systematic review and meta-analysis. *Front Cardiovasc Med*. 2022;9:897946. doi: 10.3389/fcvm.2022.897946. eCollection 2022. PubMed PMID: 36158811; PubMed Central PMCID: PMC9489846.
17. Wang X, Andrinopoulou ER, Veen KM, Bogers AJJC, Takkenberg JJM. Statistical primer: an introduction to the application of linear mixed-effects models in cardiothoracic surgery outcomes research—a case study using homograft pulmonary valve replacement data. *Eur J Cardiothorac Surg*. 2022 Sep 2;62(4). doi: 10.1093/ejcts/ezac429. PubMed PMID: 36005884; PubMed Central PMCID: PMC9496250.
18. Keogh RH, Cosgriff R, Andrinopoulou ER, Brownlee KG, Carr SB, Diaz-Ordaz K, Granger E, Jewell NP, Lewin A, Leyrat C, Schlüter DK, van Smeden M, Szczesniak RD, Connett GJ. Projecting the impact of triple CFTR modulator therapy on intravenous antibiotic requirements in cystic fibrosis using patient registry data combined with treatment effects from randomised trials. *Thorax*. 2022 Sep;77(9):873-881. doi: 10.1136/thoraxjnl-2020-216265. Epub 2021 Sep 23. PubMed PMID: 34556554; PubMed Central PMCID: PMC8940731.
19. Balink S, Onland W, Vrijlandt EJLE, Andrinopoulou ER, Bos AF, Dijk PH, Goossens L, Hulsmann AR, Nuytemans DH, Reiss IKM, Sprij AJ, Kroon AA, van Kaam AH, Pijnenburg M. Supplemental oxygen strategies in infants with bronchopulmonary dysplasia after the neonatal intensive care unit period: study protocol for a randomised controlled trial (SOS BPD study). *BMJ Open*. 2022 Jul 8;12(7):e060986. doi: 10.1136/bmjopen-2022-060986. PubMed PMID: 35803625; PubMed Central PMCID: PMC9272124.
20. Tiddens HAWM, Chen Y, Andrinopoulou ER, Davis SD, Rosenfeld M, Ratjen F, Kronmal RA, Hinckley Stukovsky KD, Dasiewicz A, Stick SM. The effect of inhaled hypertonic saline

- on lung structure in children aged 3-6 years with cystic fibrosis (SHIP-CT): a multicentre, randomised, double-blind, controlled trial. *Lancet Respir Med.* 2022 Jul;10(7):669-678. doi: 10.1016/S2213-2600(21)00546-4. Epub 2022 Mar 11. PubMed PMID: 35286860.
21. Loos NL, Hoogendam L, Souer JS, Slijper HP, Andrinopoulou ER, Coppieters MW, Selles RW. Machine Learning Can be Used to Predict Function but Not Pain After Surgery for Thumb Carpometacarpal Osteoarthritis. *Clin Orthop Relat Res.* 2022 Jul 1;480(7):1271-1284. doi: 10.1097/CORR.0000000000002105. Epub 2022 Jan 18. PubMed PMID: 35042837; PubMed Central PMCID: PMC9191288.
 22. Seyrek N, Hollemans E, Andrinopoulou ER, Osanto S, Pelger RCM, van der Poel HG, Bekers E, Remmers S, Schoots IG, van Leenders GJLH. Alternative prostate cancer grading systems incorporating percent pattern 4/5 (IQ-Gleason) and cribriform architecture (cGrade) improve prediction of outcome after radical prostatectomy. *Virchows Arch.* 2022 Jun;480(6):1149-1157. doi: 10.1007/s00428-022-03301-y. Epub 2022 Feb 14. PubMed PMID: 35157140; PubMed Central PMCID: PMC9184433.
 23. Van der Cruijssen J, Jonker ZD, Andrinopoulou ER, Wijngaarden JE, Tangkau DA, Tulen JHM, Frens MA, Ribbers GM, Selles RW. Transcranial Direct Current Stimulation Targeting the Entire Motor Network Does Not Increase Corticospinal Excitability. *Front Hum Neurosci.* 2022;16:842954. doi: 10.3389/fnhum.2022.842954. eCollection 2022. PubMed PMID: 35601898; PubMed Central PMCID: PMC9114302.
 24. Poelstra R, Andrinopoulou ER, van Nieuwenhoven CA, Slijper HP, Feitz R, Selles RW, Hovius SER. Predicting complete finger extension in Dupuytren's disease. *J Plast Reconstr Aesthet Surg.* 2022 May;75(5):1661-1667. doi: 10.1016/j.bjps.2021.11.087. Epub 2021 Nov 30. PubMed PMID: 35370118.
 25. Ghulam EM, Khoury JC, Jandarov R, Amin RS, Andrinopoulou ER, Szczesniak RD. A Joint Model for Unbalanced Nested Repeated Measures with Informative Drop-Out Applied to Ambulatory Blood Pressure Monitoring Data. *Biomed Res Int.* 2022;2022:4452158. doi: 10.1155/2022/4452158. eCollection 2022. PubMed PMID: 35252446; PubMed Central PMCID: PMC8896933.
 26. Hoogendam L, Bakx JAC, Souer JS, Slijper HP, Andrinopoulou ER, Selles RW. Predicting Clinically Relevant Patient-Reported Symptom Improvement After Carpal Tunnel Release: A Machine Learning Approach. *Neurosurgery.* 2022 Jan 1;90(1):106-113. doi: 10.1227/NEU.0000000000001749. PubMed PMID: 34982877.
 27. Andrinopoulou ER, Harhay MO, Ratcliffe SJ, Rizopoulos D. Reflection on modern methods: Dynamic prediction using joint models of longitudinal and time-to-event data. *Int J Epidemiol.* 2021 Nov 10;50(5):1731-1743. doi: 10.1093/ije/dyab047. PubMed PMID: 33729514; PubMed Central PMCID: PMC8783548.
 28. van der Cruijssen J, Manoochehri M, Jonker ZD, Andrinopoulou ER, Frens MA, Ribbers GM, Schouten AC, Selles RW. Theta but not beta power is positively associated with better explicit motor task learning. *Neuroimage.* 2021 Oct 15;240:118373. doi: 10.1016/j.neuroimage.2021.118373. Epub 2021 Jul 8. PubMed PMID: 34246767.
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