Eleni-Rosalina Andrinopoulou

Birthday: 31/12/1987

Website: https://www.erandrinopoulou.com/

EDUCATION AND TITLES

Statistics Director   2025 - now

- Statistics and Data Science Innovation Hub - Department of Biostatistics

Assistant Professor of Biostatistics   2019 - 2025

- 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 clinical 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 particular, I have investigated several distributions to model different types of biomarkers, such as

ordinal and bounded continuous outcomes, and complex survival data structures, such as recurrent events and competing risks. Such statistical models are not always straightforward to perform, therefore I develop software in the form of R packages and provide tutorials. I have focused on obtaining personalised dynamic predictions based on new methodologies and investigating predictive performance measures in complex settings such as joint models of longitudinal and survival data. 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. I have applied my statistical models in several clinical applications, including Cystic Fibrosis, stroke, cardiovascular diseases, to help understand the progression of the disease and help with clinical decision-making to improve treatment for the patients.

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 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 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 longitudinal analysis (mostly chest images) in respiratory diseases. This collaboration has led to 23 published papers.

3. Dr. Bart J. A. Rijnders, Department of Internal Medicine and Infectious Diseases (providing statistical consulting). 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 promoter: Active collaboration since 2014 in the field of longitudinal and survival data using degenerative aortic stenosis. After the completion of the PhD this collaboration has led to 5 published papers.

5. Dr. Koen Vermeer, Rotterdam Rotterdam Ophthalmic Institute: Past collaboration between January 2017 and April 2018 in the field multivariate mixed-effects models using Uveitis data. This collaboration has led to 2 published papers.

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).

Examples

- Sample size calculations in several simple and complex settings.

- Analysis or cross-sectional, longitudinal or survival data.

- Study protocols and statistical analysis plan.

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.

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.

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 longitudinal, survival and environmental data using the Cystic Fibrosis registry data since February 2016. This collaboration has led to 14 published papers, 3 CFF (Cystic Fibrosis Foundation) grants and an NIH R01 grant. Some of the published articles provide guidelines for the analysis of longitudinal outcomes when treatment is initiated.

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 predictions using joint models of longitudinal and survival data 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 between 2016 and 2017 in the field of Cystic Fibrosis and the statistical challenges in the analysis of high-resolution chest computed tomography scoring. 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 joint models of bounded longitudinal and survival data 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 joint models of zero inflated longitudinal and survival data 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. ISI World Statistics Congress, The Hague, the Netherlands, Sept 2025: Investigating the Impact on Predictive Performance in Joint Models When Misspecifying the Relation Between Outcomes.

2. International Society for Clinical Biostatistics, Thessaloniki, Greece, July 2024: Joint Modelling of (Un)bounded Longitudinal Markers, Competing Risks, and Recurrent Events in Cystic Fibrosis Data.

3. European Network for Business and Industrial Statistics, Valencia, Spain, September 2023: Assessing Risk Indicators in Clinical Practice with Joint Models of Longitudinal and Time-to-Event Data.

4. European Cystic Fibrosis Conference, Rotterdam, the Netherlands, June 2022: Linking US Registry Data with Geomarker Data: Longitudinal Associations between Environmental Factors and Lung Function Decline.

5. North American Cystic Fibrosis Conference, online, October 2020: Estimating Cystic Fibrosis Lung Function Decline: An Empirical Study.

6. International Society for Clinical Biostatistics, online, August 2020: Challenges and Opportunities of Combined Analysis of Multiple Outcomes in Longitudinal Studies.

7. Computational and Methodological Statistics, Pisa, Italy, December 2018: Joint Modelling of Longitudinal and Survival Data: Recent Extensions and Applications.

8. 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 Geomarkers 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 Modelling 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 Modelling 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

1. R packages
   - https://github.com/erandrinopoulou (multiLME): Multivariate mixed-effects models with an association parameter. The package can fit such models and provide individualized dynamic predictions.

- My PhD student (Pedro Miranda Afonso) has contributed to the JMbayes2 package under my supervision to model joint models with recurrent and competing events.

2. Shiny apps
   - Prediction models implemented for everyday clinical practice:

     https://emcbiostatistics.shinyapps.io/DynamicPredictionARATapp/

     https://emcbiostatistics.shinyapps.io/LongitudinalMixtureModelFMUE/

     https://emcbiostatistics.shinyapps.io/Dynamic_Predictions_Bartel_Index/

PRESENTATIONS

1. ISI World Statistics Congress, The Hague, the Netherlands, Sept 2025 - Investigating the Impact on Predictive Performance in Joint Models When Misspecifying the Relation Between Outcomes. (invited oral presentation)

2. International Society for Clinical Biostatistics, Thessaloniki, Greece, July 2024 - Unveiling the Impact of Social and Environmental Determinants of Health on Lung Function Decline in Cystic Fibrosis through Data Integration using the US Registry. (oral presentation)

3. International Society for Clinical Biostatistics, Thessaloniki, Greece, July 2024 - Joint Modelling of (Un)bounded Longitudinal Markers, Competing Risks, and Recurrent events in Cystic Fibrosis Data. (invited oral presentation)

4. 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. (invited oral presentation)

5. European Cystic Fibrosis Conference, Rotterdam, June 2022 - Linking US Registry Data with Geomarker Data: Longitudinal Associations between Environmental Factors and Lung Function Decline. (invited oral presentation)

6. North American Cystic Fibrosis Conference, online, October 2020 - Estimating Cystic Fibrosis Lung Function Decline: An Empirical Study. (invited oral presentation)

7. International Society for Clinical Biostatistics, online, August 2020: Challenges and Opportunities of Combined Analysis of Multiple Outcomes in Longitudinal Studies. (invited oral presentation)

8. 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)

9. Computational and Methodological Statistics, Pisa, Italy, December 2018 - Joint Modelling of Longitudinal and Survival Data: Recent Extensions and Applications. (invited oral presentation)

10. International Biometrics Conference, Barcelona 2018 - Dynamic Predictions of Visual Acuity in Uveitis (oral presentation)

11. Rotterdam Ophthalmic Institute 2017 - Dynamic Predictions of Visual Acuity in Uveitis. (oral presentation)

12. International Ocular Inflammation Society Meeting in conjunction with SOIE, Lausanne 2017 - Dynamic Predictions of Visual Acuity in Uveitis. (oral presentation)

13. 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)

14. 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)

15. 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)

16. 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)

17. International Society for Clinical Biostatistics (ISCB), Utrecht, The Netherlands, 2015: Bayesian Variable Selection with Joint Modelling of Longitudinal and Survival Outcomes Assuming Different Association Structures. (oral presentation)

18. Meeting on Statistics, Athens, Greece, 2015: Bayesian Variable Selection with Joint Modelling of Longitudinal and Survival Outcomes Assuming Different Association Structures. (oral presentation)

19. Eastern Mediterranean Region International Biometric Society (EMR-IBS), Cappadocia, Turkey, 2015: Bayesian Variable Selection with Joint Modelling of Longitudinal and Survival Outcomes Assuming Different Association Structures. (oral presentation)

20. International Biometric Society Channel Network Conference, Nijmegen, The Netherlands, 2015: Bayesian Variable Selection with Joint Modelling of Longitudinal and Survival Outcomes Assuming Different Association Structures. (oral presentation)

21. 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)

22. 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)

23. 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)

24. 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)

25. 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)

26. 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)

27. 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)

28. 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)

29. International Workshop on Statistical Modelling (IWSM), Prague Czech, Republic, 2011: Joint Modelling of Two Longitudinal Outcomes and Competing Risk Data. An Application in Cardio Data. (oral presentation – award for the extraordinary student presentation)

PUBLICATIONS

1. Kwee AK, Andrinopoulou ER, van der Veer T, Gallardo-Estrella L, Charbonnier JP, Humphries SM, Lynch DA, Tiddens HA, de Jong PA, Pompe E. Higher small pulmonary artery and vein volume on computed tomography is associated with mortality in current and former smokers. EBioMedicine. 2024 Oct 1;108.

2. Zhou GC, Wang Z, Palipana AK, Andrinopoulou ER, Miranda Afonso P, McPhail GL, Siracusa CM, Gecili E, Szczesniak RD. Predicting lung function decline in cystic fibrosis: the impact of initiating ivacaftor therapy. Respiratory Research. 2024 Apr 27;25(1):187.

3. Pieters AL, van der Veer T, Meerburg JJ, Andrinopoulou ER, van der Eerden MM, Ciet P, Aliberti S, Burgel PR, Crichton ML, Shoemark A, Goeminne PC. Structural lung disease and clinical phenotype in bronchiectasis patients: the EMBARC CT study. American Journal of Respiratory and Critical Care Medicine. 2024 Jul 1;210(1):87-96.

4. Chen Y, Charbonnier JP, Andrinopoulou ER, Sly PD, Stick, SM and Tiddens HAWM. Azithromycin reduces bronchial wall thickening in infants with cystic fibrosis. J Cyst Fibros, 2024 Apr.

5. Brunner IC, Andrinopoulou ER, Selles R, Lundquist CB, and Pedersen AR. External Validation of a Dynamic Prediction Model for Upper Limb Function After Stroke. Arch Rehabil Res Clin Transl Mar 2024; 6(1):100315.

6. Lika A, Andrinopoulou ER, van der Beek NA, Rizopoulos D, van der Ploeg AT, Kruijshaar ME. Establishing how much improvement in lung function and distance walked is clinically important for adult patients with Pompe disease. European Journal of Neurology. 2024 Feb 20:e16223.

7. Horati H, Margaroli C, Chandler JD, Kilgore MB, Manai B, Andrinopoulou ER, Peng L, Guglani L, Tiddens HA, Caudri D, Scholte BJ. Key inflammatory markers in bronchoalveolar lavage predict bronchiectasis progression in young children with CF. Journal of Cystic Fibrosis. 2024 Jan 20.

8. van den Bosch WB, Lv Q, Andrinopoulou ER, Pijnenburg MW, Ciet P, Janssens HM, Tiddens HA. Children with severe asthma have substantial structural airway changes on computed tomography. ERJ Open Research. 2024 Jan 1;10(1).

9. Palipana AK, Vancil A, Gecili E, Rasnick E, Ehrlich D, Pestian T, Andrinopoulou ER, Afonso PM, Keogh RH, Ni Y, Dexheimer JW. Social-environmental phenotypes of rapid cystic fibrosis lung disease progression in adolescents and young adults living in the United States. Environmental advances. 2023 Dec 1;14:100449.

10. Baez-Navarro X, van Bockstal MR, Andrinopoulou ER, van Deurzen CH. Corrigendum to "HER2-Low Breast Cancer: Incidence, Clinicopathologic Features, and Survival Outcomes From Real-World Data of a Large Nationwide Cohort"[Modern Pathology 36 (4) 100087]. Modern Pathology. 2023 Dec 1;36(12).

11. Fontijn S, Balink SJ, Bonte M, Andrinopoulou ER, Duijts L, Kroon AA, Ciet P, Pijnenburg MW. Chest computed tomography in severe bronchopulmonary dysplasia: Comparing quantitative scoring methods. European Journal of Radiology. 2023 Dec 1;169:111168.

12. Afonso PM, Rizopoulos D, Palipana AK, Zhou GC, Brokamp C, Szczesniak RD, Andrinopoulou ER. Efficiently analysing large patient registries with Bayesian joint models for longitudinal and time-to-event data. arXiv preprint arXiv:2310.03351. 2023 Oct 5.

13. 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.

14. 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

15. 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.

16. 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.

17. 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.

18. 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.

19. 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.

20. 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.

21. 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.

22. 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.

23. 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.

24. Wolf JL, Trandafir TE, Akram F, Andrinopoulou ER, Maat AWPM, 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.

25. 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.

26. 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.

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