

Maarten van Smeden

List of Publications by Year in descending order

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Version: 2024-02-01

105
papers

7,596
citations

136885

32
h-index

66879

78
g-index

112
all docs

112
docs citations

112
times ranked

12434
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A comparison of full model specification and backward elimination of potential confounders when estimating marginal and conditional causal effects on binary outcomes from observational data. <i>Biometrical Journal</i> , 2024, 66, . | 0.6 | 1 |
| 2 | Prognostic factors for adverse outcomes in patients with COVID-19: a field-wide systematic review and meta-analysis. <i>European Respiratory Journal</i> , 2022, 59, 2002964. | 3.1 | 42 |
| 3 | 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. <i>Thorax</i> , 2022, 77, 873-881. | 2.7 | 11 |
| 4 | Causal analyses of existing databases: the importance of understanding what can be achieved with your data before analysis (commentary on Hernan). <i>Journal of Clinical Epidemiology</i> , 2022, 142, 261-263. | 2.4 | 2 |
| 5 | QCOVID in Scotland: time to recalibrate our expectations?. <i>Thorax</i> , 2022, 77, 429-430. | 2.7 | 0 |
| 6 | Guidelines and quality criteria for artificial intelligence-based prediction models in healthcare: a scoping review. <i>Npj Digital Medicine</i> , 2022, 5, 2. | 5.7 | 147 |
| 7 | The year in cardiovascular medicine 2021: digital health and innovation. <i>European Heart Journal</i> , 2022, 43, 271-279. | 1.0 | 26 |
| 8 | Performance of binary prediction models in high-correlation low-dimensional settings: a comparison of methods. <i>Diagnostic and Prognostic Research</i> , 2022, 6, 1. | 0.8 | 11 |
| 9 | Are Off-Field Activities an Underestimated Risk for Hamstring Injuries in Dutch Male Amateur Soccer Players? An Exploratory Analysis of a Prospective Cohort Study. <i>Journal of Science in Sport and Exercise</i> , 2022, 4, 28-36. | 0.4 | 0 |
| 10 | Evaluation of the Value of Waist Circumference and Metabolomics in the Estimation of Visceral Adipose Tissue. <i>American Journal of Epidemiology</i> , 2022, , . | 1.6 | 7 |
| 11 | Ruling out pulmonary embolism across different healthcare settings: A systematic review and individual patient data meta-analysis. <i>PLoS Medicine</i> , 2022, 19, e1003905. | 3.9 | 19 |
| 12 | Artificial Intelligence and Statistics: Just the Old Wine in New Wineskins?. <i>Frontiers in Digital Health</i> , 2022, 4, 833912. | 1.5 | 11 |
| 13 | Sex- and age specific association of new-onset atrial fibrillation with in-hospital mortality in hospitalised COVID-19 patients. <i>IJC Heart and Vasculature</i> , 2022, 39, 100970. | 0.6 | 8 |
| 14 | Prediction models for living organ transplantation are poorly developed, reported, and validated: a systematic review. <i>Journal of Clinical Epidemiology</i> , 2022, 145, 126-135. | 2.4 | 6 |
| 15 | Minimum sample size calculations for external validation of a clinical prediction model with a time-to-event outcome. <i>Statistics in Medicine</i> , 2022, 41, 1280-1295. | 0.8 | 34 |
| 16 | Safety and Efficiency of Diagnostic Strategies for Ruling Out Pulmonary Embolism in Clinically Relevant Patient Subgroups. <i>Annals of Internal Medicine</i> , 2022, 175, 244-255. | 2.0 | 27 |
| 17 | Age is the main determinant of COVID-19 related in-hospital mortality with minimal impact of pre-existing comorbidities, a retrospective cohort study. <i>BMC Geriatrics</i> , 2022, 22, 184. | 1.1 | 35 |
| 18 | External validation of the MSKCC nomogram to estimate five-year overall survival after surgery for stage III colon cancer in a Dutch population. <i>Acta Oncologica</i> , 2022, 61, 560-565. | 0.8 | 0 |

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|----|--|-----|-----------|
| 19 | Measures of (injury and illness) occurrence: a primer on epidemiological concepts and terminology for authors. <i>Science and Medicine in Football</i> , 2022, 6, 137-140. | 1.0 | 4 |
| 20 | Lessons learnt when accounting for competing events in the external validation of time-to-event prognostic models. <i>International Journal of Epidemiology</i> , 2022, 51, 615-625. | 0.9 | 15 |
| 21 | Risk prediction models for discrete ordinal outcomes: Calibration and the impact of the proportional odds assumption. <i>Statistics in Medicine</i> , 2022, 41, 1334-1360. | 0.8 | 9 |
| 22 | Cardiovascular vulnerability predicts hospitalisation in primary care clinically suspected and confirmed COVID-19 patients: A model development and validation study. <i>PLoS ONE</i> , 2022, 17, e0266750. | 1.1 | 3 |
| 23 | Optimising telephone triage of patients calling for acute shortness of breath during out-of-hours primary care: protocol of a multiple methods study (Opticall). <i>BMJ Open</i> , 2022, 12, e059549. | 0.8 | 0 |
| 24 | Critical appraisal of artificial intelligence-based prediction models for cardiovascular disease. <i>European Heart Journal</i> , 2022, 43, 2921-2930. | 1.0 | 50 |
| 25 | The harm of class imbalance corrections for risk prediction models: illustration and simulation using logistic regression. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2022, 29, 1525-1534. | 2.2 | 74 |
| 26 | Developing, validating, updating and judging the impact of prognostic models for respiratory diseases. <i>European Respiratory Journal</i> , 2022, 60, 2200250. | 3.1 | 14 |
| 27 | Flaws in the Development and Validation of a Coronavirus Disease 2019 Prediction Model. <i>Clinical Infectious Diseases</i> , 2021, 73, 557-558. | 2.9 | 0 |
| 28 | Approaches to addressing missing values, measurement error, and confounding in epidemiologic studies. <i>Journal of Clinical Epidemiology</i> , 2021, 131, 89-100. | 2.4 | 17 |
| 29 | A weighting method for simultaneous adjustment for confounding and joint exposure-outcome misclassifications. <i>Statistical Methods in Medical Research</i> , 2021, 30, 473-487. | 0.7 | 0 |
| 30 | Comment on Williamson et al. (OpenSAFELY): The Table 2 Fallacy in a Study of COVID-19 Mortality Risk Factors. <i>Epidemiology</i> , 2021, 32, e1-e2. | 1.2 | 17 |
| 31 | Adaptive sample size determination for the development of clinical prediction models. <i>Diagnostic and Prognostic Research</i> , 2021, 5, 6. | 0.8 | 8 |
| 32 | Clinical prediction models: diagnosis versus prognosis. <i>Journal of Clinical Epidemiology</i> , 2021, 132, 142-145. | 2.4 | 60 |
| 33 | Development and validation of the ISARIC 4C Deterioration model for adults hospitalised with COVID-19: a prospective cohort study. <i>Lancet Respiratory Medicine</i> , 2021, 9, 349-359. | 5.2 | 161 |
| 34 | Sampling Strategies for Internal Validation Samples for Exposure Measurement—Error Correction: A Study of Visceral Adipose Tissue Measures Replaced by Waist Circumference Measures. <i>American Journal of Epidemiology</i> , 2021, 190, 1935-1947. | 1.6 | 3 |
| 35 | Methodology over metrics: current scientific standards are a disservice to patients and society. <i>Journal of Clinical Epidemiology</i> , 2021, 138, 219-226. | 2.4 | 54 |
| 36 | Minimum sample size for external validation of a clinical prediction model with a binary outcome. <i>Statistics in Medicine</i> , 2021, 40, 4230-4251. | 0.8 | 122 |

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|----|--|-----|-----------|
| 37 | New user and prevalent user designs and the definition of study time origin in pharmacoepidemiology: A review of reporting practices. <i>Pharmacoepidemiology and Drug Safety</i> , 2021, 30, 960-974. | 0.9 | 8 |
| 38 | Protocol for development of a reporting guideline (TRIPOD-AI) and risk of bias tool (PROBAST-AI) for diagnostic and prognostic prediction model studies based on artificial intelligence. <i>BMJ Open</i> , 2021, 11, e048008. | 0.8 | 313 |
| 39 | The prognostic value of the hamstring outcome score to predict the risk of hamstring injuries. <i>Journal of Science and Medicine in Sport</i> , 2021, 24, 641-646. | 0.6 | 1 |
| 40 | Identifying adults with acute rhinosinusitis in primary care that benefit most from antibiotics: protocol of an individual patient data meta-analysis using multivariable risk prediction modelling. <i>BMJ Open</i> , 2021, 11, e047186. | 0.8 | 1 |
| 41 | Management of superficial venous thrombosis based on individual risk profiles: protocol for the development and validation of three prognostic prediction models in large primary care cohorts. <i>Diagnostic and Prognostic Research</i> , 2021, 5, 15. | 0.8 | 3 |
| 42 | Prediction models: stepwise development and simultaneous validation is a step back. <i>Journal of Clinical Epidemiology</i> , 2021, , . | 2.4 | 3 |
| 43 | Mecor: An R package for measurement error correction in linear regression models with a continuous outcome. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 208, 106238. | 2.6 | 8 |
| 44 | Why methods matter in a meta-analysis: a reappraisal showed inconclusive injury preventive effect of Nordic hamstring exercise. <i>Journal of Clinical Epidemiology</i> , 2021, 140, 111-124. | 2.4 | 26 |
| 45 | Why clinical context and relevant protocols matter: author's reply. <i>Journal of Clinical Epidemiology</i> , 2021, , . | 2.4 | 0 |
| 46 | Risk, Clinical Course, and Outcome of Ischemic Stroke in Patients Hospitalized With COVID-19: A Multicenter Cohort Study. <i>Stroke</i> , 2021, 52, 3978-3986. | 1.0 | 18 |
| 47 | Patient factors associated with referral to inpatient rehabilitation following knee or hip arthroplasty in a public sector cohort: A prognostic factor study. <i>Journal of Evaluation in Clinical Practice</i> , 2021, 27, 809-816. | 0.9 | 1 |
| 48 | 159 HaOS or CHaOS? The prognostic value of the hamstring outcome score (HaOS) to predict the risk of hamstring injury. , 2021, , . | | 0 |
| 49 | Optimizing design of research to evaluate antibiotic stewardship interventions: consensus recommendations of a multinational working group. <i>Clinical Microbiology and Infection</i> , 2020, 26, 41-50. | 2.8 | 49 |
| 50 | Changing predictor measurement procedures affected the performance of prediction models in clinical examples. <i>Journal of Clinical Epidemiology</i> , 2020, 119, 7-18. | 2.4 | 31 |
| 51 | Reflection on modern methods: five myths about measurement error in epidemiological research. <i>International Journal of Epidemiology</i> , 2020, 49, 338-347. | 0.9 | 97 |
| 52 | Quantitative Bias Analysis for a Misclassified Confounder. <i>Epidemiology</i> , 2020, 31, 796-805. | 1.2 | 2 |
| 53 | Systematic evaluation and external validation of 22 prognostic models among hospitalised adults with COVID-19: an observational cohort study. <i>European Respiratory Journal</i> , 2020, 56, 2003498. | 3.1 | 145 |
| 54 | Cardiac complications in patients hospitalised with COVID-19. <i>European Heart Journal: Acute Cardiovascular Care</i> , 2020, 9, 817-823. | 0.4 | 108 |

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|----|---|-----|-----------|
| 55 | Prediction Models for Physical, Cognitive, and Mental Health Impairments After Critical Illness: A Systematic Review and Critical Appraisal. <i>Critical Care Medicine</i> , 2020, 48, 1871-1880. | 0.4 | 42 |
| 56 | A Workflow for Missing Values Imputation of Untargeted Metabolomics Data. <i>Metabolites</i> , 2020, 10, 486. | 1.3 | 20 |
| 57 | COVID-19 prediction models should adhere to methodological and reporting standards. <i>European Respiratory Journal</i> , 2020, 56, 2002643. | 3.1 | 16 |
| 58 | Time to reality check the promises of machine learning-powered precision medicine. <i>The Lancet Digital Health</i> , 2020, 2, e677-e680. | 5.9 | 126 |
| 59 | Regression shrinkage methods for clinical prediction models do not guarantee improved performance: Simulation study. <i>Statistical Methods in Medical Research</i> , 2020, 29, 3166-3178. | 0.7 | 55 |
| 60 | A cautionary note on the use of the missing indicator method for handling missing data in prediction research. <i>Journal of Clinical Epidemiology</i> , 2020, 125, 188-190. | 2.4 | 20 |
| 61 | Calculating the sample size required for developing a clinical prediction model. <i>BMJ, The</i> , 2020, 368, m441. | 3.0 | 804 |
| 62 | Title, abstract, and keyword searching resulted in poor recovery of articles in systematic reviews of epidemiologic practice. <i>Journal of Clinical Epidemiology</i> , 2020, 121, 55-61. | 2.4 | 32 |
| 63 | Prediction models for diagnosis and prognosis of covid-19: systematic review and critical appraisal. <i>BMJ, The</i> , 2020, 369, m1328. | 3.0 | 2,134 |
| 64 | The Effects of Lower-Extremity Plyometric Training on Soccer-Specific Outcomes in Adult Male Soccer Players: A Systematic Review and Meta-Analysis. <i>International Journal of Sports Physiology and Performance</i> , 2020, 15, 3-17. | 1.1 | 22 |
| 65 | Does a bounding exercise program prevent hamstring injuries in adult male soccer players? â€œ A clusterâ€œRCT. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2019, 29, 515-523. | 1.3 | 28 |
| 66 | Sample size for binary logistic prediction models: Beyond events per variable criteria. <i>Statistical Methods in Medical Research</i> , 2019, 28, 2455-2474. | 0.7 | 296 |
| 67 | Measurement error in continuous endpoints in randomised trials: Problems and solutions. <i>Statistics in Medicine</i> , 2019, 38, 5182-5196. | 0.8 | 13 |
| 68 | Three myths about risk thresholds for prediction models. <i>BMC Medicine</i> , 2019, 17, 192. | 2.3 | 101 |
| 69 | The quality of studies evaluating antimicrobial stewardship interventions: a systematic review. <i>Clinical Microbiology and Infection</i> , 2019, 25, 555-561. | 2.8 | 51 |
| 70 | Impact of predictor measurement heterogeneity across settings on the performance of prediction models: A measurement error perspective. <i>Statistics in Medicine</i> , 2019, 38, 3444-3459. | 0.8 | 55 |
| 71 | Predicting 1â€œYear Mortality in Older Hospitalized Patients: External Validation of the HOMR Model. <i>Journal of the American Geriatrics Society</i> , 2019, 67, 1478-1483. | 1.3 | 7 |
| 72 | Forcing dichotomous disease classification from reference standards leads to bias in diagnostic accuracy estimates: A simulation study. <i>Journal of Clinical Epidemiology</i> , 2019, 111, 1-10. | 2.4 | 9 |

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|----|---|-----|-----------|
| 73 | Calibration: the Achilles heel of predictive analytics. BMC Medicine, 2019, 17, 230. | 2.3 | 745 |
| 74 | Comparability of treatment arms does not prevent correlated trial results. Journal of Clinical Epidemiology, 2019, 106, 144-145. | 2.4 | 0 |
| 75 | Sample size considerations and predictive performance of multinomial logistic prediction models. Statistics in Medicine, 2019, 38, 1601-1619. | 0.8 | 70 |
| 76 | How variation in predictor measurement affects the discriminative ability and transportability of a prediction model. Journal of Clinical Epidemiology, 2019, 105, 136-141. | 2.4 | 26 |
| 77 | Machine Learning Compared With Pathologist Assessment. JAMA - Journal of the American Medical Association, 2018, 319, 1725. | 3.8 | 7 |
| 78 | Concerns about composite reference standards in diagnostic research. BMJ: British Medical Journal, 2018, 360, j5779. | 2.4 | 26 |
| 79 | Investigation of the "em" in the cmRCT (cohort multiple randomized controlled trial) design revealed dependence between trial results. Journal of Clinical Epidemiology, 2018, 101, 119-123. | 2.4 | 3 |
| 80 | Measurement error is often neglected in medical literature: a systematic review. Journal of Clinical Epidemiology, 2018, 98, 89-97. | 2.4 | 69 |
| 81 | Adjustment for unmeasured confounding through informative priors for the confounder-outcome relation. BMC Medical Research Methodology, 2018, 18, 174. | 1.4 | 2 |
| 82 | Protect pregnant women by including them in clinical research. BMJ: British Medical Journal, 2018, 362, k4013. | 2.4 | 5 |
| 83 | Propensity Score Estimation Using Classification and Regression Trees in the Presence of Missing Covariate Data. Epidemiologic Methods, 2018, 7, . | 0.8 | 6 |
| 84 | Novel diabetes subgroups. Lancet Diabetes and Endocrinology, the, 2018, 6, 439-440. | 5.5 | 12 |
| 85 | Towards an appropriate framework to facilitate responsible inclusion of pregnant women in drug development programs. Trials, 2018, 19, 123. | 0.7 | 9 |
| 86 | The Preventive Effect Of A Bounding Exercise Programme On Hamstring Injuries In Amateur Male Soccer. Medicine and Science in Sports and Exercise, 2018, 50, 622-623. | 0.2 | 0 |
| 87 | Random measurement error: Why worry? An example of cardiovascular risk factors. PLoS ONE, 2018, 13, e0192298. | 1.1 | 41 |
| 88 | Challenges in measuring interprofessional "interorganisational collaboration with a questionnaire. BJGP Open, 2018, 2, bjgpopen18X101385. | 0.9 | 6 |
| 89 | Series: Pragmatic trials and real world evidence: Paper 6. Outcome measures in the real world. Journal of Clinical Epidemiology, 2017, 90, 99-107. | 2.4 | 34 |
| 90 | Response Adjusted for Days of Antibiotic Risk (RADAR): evaluation of a novel method to compare strategies to optimize antibiotic use. Clinical Microbiology and Infection, 2017, 23, 980-985. | 2.8 | 8 |

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|-----|--|-----|-----------|
| 91 | Validation study of the SCREENIVF: an instrument to screen women or men on risk for emotional maladjustment before the start of a fertility treatment. <i>Fertility and Sterility</i> , 2017, 107, 1370-1379.e5. | 0.5 | 17 |
| 92 | Efficient Sampling in Unmatched Case-Control Studies When the Total Number of Cases and Controls Is Fixed. <i>Epidemiology</i> , 2017, 28, 834-837. | 1.2 | 7 |
| 93 | Event rate net reclassification index and the integrated discrimination improvement for studying incremental value of risk markers. <i>Statistics in Medicine</i> , 2017, 36, 4495-4497. | 0.8 | 10 |
| 94 | A generic nomogram for multinomial prediction models: theory and guidance for construction. <i>Diagnostic and Prognostic Research</i> , 2017, 1, 8. | 0.8 | 2 |
| 95 | Bias due to composite reference standards in diagnostic accuracy studies. <i>Statistics in Medicine</i> , 2016, 35, 1454-1470. | 0.8 | 42 |
| 96 | No rationale for 1 variable per 10 events criterion for binary logistic regression analysis. <i>BMC Medical Research Methodology</i> , 2016, 16, 163. | 1.4 | 281 |
| 97 | Response to the commentary on "A nomogram was developed to enhance the use of multinomial logistic regression modelling in diagnostic research". <i>Journal of Clinical Epidemiology</i> , 2016, 78, 7-9. | 2.4 | 1 |
| 98 | Diagnostic Test Accuracy in Childhood Pulmonary Tuberculosis: A Bayesian Latent Class Analysis. <i>American Journal of Epidemiology</i> , 2016, 184, 690-700. | 1.6 | 52 |
| 99 | Problems in detecting misfit of latent class models in diagnostic research without a gold standard were shown. <i>Journal of Clinical Epidemiology</i> , 2016, 74, 158-166. | 2.4 | 3 |
| 100 | Latent Class Models in Diagnostic Studies When There is No Reference Standard—A Systematic Review. <i>American Journal of Epidemiology</i> , 2014, 179, 423-431. | 1.6 | 168 |
| 101 | Testing for Two-Way Interactions in the Multigroup Common Factor Model. <i>Structural Equation Modeling</i> , 2013, 20, 98-107. | 2.4 | 1 |
| 102 | Value of composite reference standards in diagnostic research. <i>BMJ</i> , The, 2013, 347, f5605-f5605. | 3.0 | 78 |
| 103 | Evaluating Diagnostic Accuracy in the Face of Multiple Reference Standards. <i>Annals of Internal Medicine</i> , 2013, 159, 195. | 2.0 | 32 |
| 104 | Validation of prediction models in the presence of competing risks: a guide through modern methods. <i>BMJ</i> , The, 0, , e069249. | 3.0 | 23 |
| 105 | Clinical prediction models for mortality in patients with covid-19: external validation and individual participant data meta-analysis. <i>BMJ</i> , The, 0, , e069881. | 3.0 | 24 |