

Sebastian Bate

MEDICAL STATISTICIAN

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Experience

Manchester University NHS Foundation Trust

Mar 2021-

JUNIOR MEDICAL STATISTICIAN

- I have been involved in multiple studies and lead on statistical design and analysis from concept through to dissemination.
- I support all levels of researchers from undergraduate and postgraduate students, through to clinical academics and consultants.
- I have contributed to successful grant applications as a co-investigator and lead statistician (NIHR152516)
- I have been responsible for reviewing the design, statistical accuracy and overall viability of Trust-sponsored research protocols prior to ethics submission in collaboration with senior statisticians.
- I have presented my research at conferences both to technical and clinical audiences [NIHR Statistics Group Conference, 2023 (best e-poster); NHS R Community Conference, 2022; Translation Manchester, 2022 (People's Choice award)], NIHR Statistics Group Conference, 2024 [3rd place]
- I have multiple collaborations with clinicians across the whole of MFT, The University of Manchester, and other trusts.
- I have given multiple talks on statistics for critical appraisal across The Trust to the prestigious Specialist Foundation Program, junior doctors and level 7+ clinical practitioners.
- I have written teaching materials for improving statistical literacy among clinicians.
- I have given guest lectures to undergraduates and apprentices on data literacy at Manchester Metropolitan University.

Sep 2019-Feb 2021

STATISTICIAN

- I worked with senior biostatistics staff on the evaluation, interpretation, and reporting of study results, including writing the analysis data reviewer's guide for one study.
- I quality controlled regulatory documents including CSRs, summaries of clinical efficacy and safety, prescribing information, and FDA briefing documents for large pivotal studies.
- I assisted in developing study analysis plans, including sample size calculations and mock TFLs across multiple studies.
- I gained experience in applying the principles in ICH E6 (GCP), E9 (Statistics), E9R1 (Estimands).

Education

University of Manchester

2015-19

MMATH MATHEMATICS AND STATISTICS, FIRST CLASS (HONS.)

Selected Peer Reviewed Publications

1. Bate S, Fortescue R, Fullwood C, et al. Predictors of treatment REsponse to inhaled corticosteroids (ICS) in Chronic Obstructive pulmonary disease: Randomised controlled trials individual participant Data re-Evaluation-protocol of the ICS-RECODE individual participant data meta-analysis. *BMJ Open*. 2025;15(3):e095541. doi:10.1136/bmjopen-2024-095541
2. Mathioudakis AG, Bate S, Sivapalan P, Jensen J-US, Singh D, Vestbo J. Rethinking blood eosinophils for assessing inhaled corticosteroids response in COPD. *CHEST*. 2024;166(5):987-997. doi:10.1016/j.chest.2024.06.3790
3. Bate S, Stokes V, Greenlee H, et al. External validation of prognostic models in critical care: A cautionary tale from COVID-19 pneumonitis. *Critical Care Explorations*. 2024;6(4):e1067. doi:10.1097/CCE.0000000000001067
4. Bate S. Will the ANCA kidney risk score become the gold standard for prognostication in ANCA-associated GN? *Kidney360*. 2024;5(6):789-790. doi:10.34067/KID.0000000000000455

5. Bate S, McGovern D, Costigliolo F, et al. The improved kidney risk score in ANCA-associated vasculitis for clinical practice and trials. *Journal of the American Society of Nephrology*. 2023;35(3):335-346. doi:10.1681/ASN.0000000000000274
6. Floyd L, Bate S, Kafagi A, et al. Risk stratification to predict renal survival in anti-GBM disease. *Journal of the American Society of Nephrology*. 2023;34(3):505-514. doi:10.1681/asn.2022050581
7. Vasant DH, Nigam GB, Bate S, Hamdy S, Limdi JK. The prevalence and burden of rome IV faecal incontinence in ulcerative colitis: A cross-sectional study. *Alimentary Pharmacology & Therapeutics*. 2023;58(1):26-34. doi:10.1111/apt.17502
8. Ragy O, Bate S, Bukhari S, et al. PLA2R antibody does not outperform conventional clinical markers in predicting outcomes in membranous nephropathy. *Kidney International Reports*. 2023;8(8):1605-1615. doi:10.1016/j.ekir.2023.05.019
9. Heward E, Saeed H, Bate S, et al. Risk factors associated with the development of chronic suppurative otitis media in children: Systematic review and meta-analysis. *Clinical Otolaryngology*. 2023;(1):62-73. doi:10.1111/coa.14102
10. Oremule B, Abbas J, Saunders G, et al. Mobile audiometry for hearing threshold assessment: A systematic review and meta-analysis. *Clinical Otolaryngology*. 2023;(1):74-86. doi:10.1111/coa.14107
11. Stokes V, Goh KY, Whiting G, et al. External validation of a prediction model for CPAP failure in COVID-19 patients with severe pneumonitis. *Critical Care*. 2022;26(1):293. doi:10.1186/s13054-022-04144-4

Languages & Certifications

- R, inc. Tidyverse (Expert)
- SPSS (Proficient)
- SAS (Was proficient, now rusty)
- SQL (Moderate)
- NIHR Good Clinical/Statistical Practice

Areas of interest

- Prognostic modeling
- Meta-analysis

Personal

- I have run a 3:03:45 marathon
- I have an Erdos number of 6
- This CV was written in RMarkdown using *{vitae}*