

# 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. 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
2. 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
3. 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
4. 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
5. 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

6. 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
7. 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
8. 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
9. 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
10. 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

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

## Areas of interest

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- Prognostic modeling
- Meta-analysis

## Personal

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