

PERSONAL INFORMATION **Finbarr Leacy**

WORK EXPERIENCE

- September 2022- Present **Senior Biostatistician**
Health Products Regulatory Authority (Ireland)
Committee for Medicinal Products for Human Use (CHMP) - Irish Alternate Member (Sep 2022 -)
- June 2018-September 2022 **Biostatistician**
Health Products Regulatory Authority (Ireland)
CHMP Scientific Advice Working Party - Alternate Member (Nov 2018 - Sep 2022)
CHMP Biostatistics Working Party - Member (Feb 2020 -)
- April 2016-May 2018 **StAR Research Lecturer in Biostatistics**
Royal College of Surgeons in Ireland (Ireland)

EDUCATION AND TRAINING

- 2016 **PhD Biostatistics**
University of Cambridge (United Kingdom)
Thesis title: "Multiple imputation under missing not at random assumptions via fully conditional specification"
- 2012 **ScM Biostatistics**
Johns Hopkins University (United States)
Thesis title: "On the joint use of propensity and prognostic scores in causal treatment effect estimation: a comparative study"
- 2011 **Certificate in Public Mental Health Research**
Johns Hopkins University (United States)
- 2009 **BSc (Hons) Financial Mathematics and Actuarial Science**
University College Cork (Ireland)

ADDITIONAL INFORMATION

Expertise Biostatistics (particular expertise in missing data and causal inference methodology)
Clinical Trial Methodology
Design and Analysis of Observational Studies

- Publications**
- Lang U, Ramsey H, Yates K, Vejjola J, Gyllenberg D, Clarke MC, Leacy FP, Gissler M, Kelleher I. Potential for prediction of psychosis and bipolar disorder in Child and Adolescent Mental Health Services: a longitudinal register study of all people born in Finland in 1987. *World Psychiatry*. 2022 Oct;21(3):436-443. doi: 10.1002/wps.21009.
 - Lang U, Yates K, Leacy FP, Clarke MC, McNicholas F, Cannon M, Kelleher I. Systematic Review and Meta-analysis: Psychosis Risk in Children and Adolescents With an At-Risk Mental State. *J Am Acad Child Adolesc Psychiatry*. 2022 May;61(5):615-625. doi: 10.1016/j.jaac.2021.07.593.
 - Brannigan R, Tanskanen A, Huttunen MO, Cannon M, Leacy FP, Clarke MC. Maternal smoking during pregnancy and offspring psychiatric disorder: a longitudinal birth cohort study. *Soc Psychiatry Psychiatr Epidemiol*. 2022 Mar;57(3):595-600. doi: 10.1007/s00127-021-02094-w.
 - Brannigan R, Healy C, Cannon M, Leacy FP, Clarke MC. Prenatal tobacco exposure and psychiatric outcomes in adolescence: is the effect mediated through birth weight? *Acta Psychiatr*

Scand. 2020 Oct;142(4):284-293. doi: 10.1111/acps.13210.

- Madden JM, Leacy FP, Zgaga L, Bennett K. Fitting marginal structural and G-estimation models under complex treatment patterns: investigating the association between de novo vitamin D supplement use post breast cancer diagnosis and all-cause mortality using linked pharmacy claim and registry data. *Am J Epidemiol.* 2020 Mar 2;189(3):224-234. doi: 10.1093/aje/kwz243.
- Brannigan R, Cannon M, Tanskanen A, Huttunen MO, Leacy FP, Clarke MC. Childhood temperament and its association with adult psychiatric disorders in a prospective cohort study. *Schizophr Res.* 2020 Feb;216:229-234. doi: 10.1016/j.schres.2019.11.055.
- Brannigan R, Tanskanen A, Huttunen MO, Cannon M, Leacy FP, Clarke MC. The role of prenatal stress as a pathway to personality disorder: longitudinal birth cohort study. *Br J Psychiatry.* 2020 Feb;216(2):85-89. doi: 10.1192/bjp.2019.190.
- Brannigan R, Cannon M, Tanskanen A, Huttunen MO, Leacy FP, Clarke MC. The association between subjective maternal stress during pregnancy and offspring clinically diagnosed psychiatric disorders. *Acta Psychiatr Scand.* 2019 Apr;139(4):304-310. doi: 10.1111/acps.12996.
- Hayden JC, Doherty DR, Dawkins I, Leacy FP, Healy M, Breatnach CV, Cousins G, Gallagher PJ. The effectiveness of 2 agonists as sedatives in pediatric critical care: a propensity score-matched cohort study. *Crit Care Med.* 2019 Jul;47(7):e580-e586. doi: 10.1097/CCM.0000000000003789.
- Jeremiah OJ, Cousins G, Leacy FP, Kirby BP, Ryan BK. Evaluation of the effect of insulin sensitivity-enhancing lifestyle- and dietary-related adjuncts on antidepressant treatment response: protocol for a systematic review and meta-analysis. *Syst Rev.* 2019 Feb 25;8(1):62. doi: 10.1186/s13643-019-0978-8.
- Moreno-Betancur M, Lee KJ, Leacy FP, White IR, Simpson JA, Carlin JB. Canonical causal diagrams to guide the treatment of missing data in epidemiologic studies. *Am J Epidemiol.* 2018 Dec 1;187(12):2705-2715. doi: 10.1093/aje/kwy173.
- Tompsett DM, Leacy FP, Moreno-Betancur M, White IR, Heron J. On the use of the not at random fully conditional specification procedure (NARFCS) in practice. *Stat Med.* 2018 Jul 10;37(15):2338-2353. doi: 10.1002/sim.7643.
- Yates TA, Ayles H, Leacy FP, Schaap A, Boccia D, Beyers N, Godfrey-Faussett P, Floyd S. Socio-economic gradients in prevalent tuberculosis in Zambia and the Western Cape of South Africa. *Trop Med Int Health.* 2018 Apr;23(4):375-390. doi: 10.1111/tmi.13038.
- Hayden JC, Dawkins I, Breatnach C, Leacy FP, Foxton J, Healy M, Gallagher PJ, Cousins G, Doherty DR. Effectiveness of 2-agonists for sedation in paediatric critical care: study protocol for a retrospective cohort observational study. *BMJ Open.* 2017 May 30;7(5):e013858. doi: 10.1136/bmjopen-2016-013858.
- Leacy FP, Floyd S, Yates TA, White IR. Analyses of sensitivity to the missing-at-random assumption using multiple imputation with delta adjustment: application to a tuberculosis/HIV prevalence survey with incomplete HIV-status data. *Am J Epidemiol.* 2017 Feb 15;185(4):304-315. doi: 10.1093/aje/kww107.
- Robles-Espinoza CD, Roberts ND, Chen S, Leacy FP, Alexandrov LB, Pornputtapong N, Halaban R, Krauthammer M, Cui R, Timothy Bishop D, Adams DJ. Germline MCR1 status influences somatic mutation burden in melanoma. *Nat Commun.* 2016 Jul 12;7:12064. doi: 10.1038/ncomms12064.
- Seaman SR, White IR, Leacy FP. Comment on "Analysis of longitudinal trials with protocol deviations - a framework for relevant, accessible assumptions, and inference via multiple imputation" by Carpenter, Roger and Kenward. *J Biopharm Stat.* 2014;24(6):1358-62. doi: 10.1080/10543406.2014.928306.
- Leacy FP, Stuart EA. On the joint use of propensity and prognostic scores in estimation of the average treatment effect on the treated: a simulation study. *Stat Med.* 2014 Sep 10;33(20):3488-508. doi: 10.1002/sim.6030.
- Stuart EA, Lee BK, Leacy FP. Prognostic score-based balance measures can be a useful diagnostic for propensity score methods in comparative effectiveness research. *J Clin Epidemiol.* 2013 Aug;66(8 Suppl):S84-S90.e1. doi: 10.1016/j.jclinepi.2013.01.013.

Projects European Causal Inference Meeting (EuroCIM) - Steering Group member
Missing Data, Imputation and Analysis (MiDIA) Group - member

MiDIA is a research network comprising principal investigators, postdoctoral fellows and doctoral students from leading academic biostatistics and epidemiology departments in the UK, France and Australia.

Memberships Royal Statistical Society - Chartered Statistician (CStat)
American Statistical Association - Accredited Professional Statistician(R) (PStat(R))
International Society for Clinical Biostatistics - member
Irish Statistical Association - member
Statisticians in the Pharmaceutical Industry (PSI) - member

Other Relevant Information Participation at Scientific Conferences (2013 -):
Oral contributed presentations - International Society for Clinical Biostatistics Annual Conference;
Royal Statistical Society International Annual Conference; Joint Statistical Meetings; UK Causal
Inference Meeting; Conference on Applied Statistics in Ireland.
Pre-conference workshop leader - International Clinical Trials Methodology Conference 2019

Peer review activities (2013 -):
Journal article review - Statistical Methods in Medical Research; Statistics in Medicine; Biometrical
Journal; Epidemiology; American Journal of Epidemiology; Pharmacoepidemiology and Drug Safety;
Clinical Pharmacology & Therapeutics; Journal of Statistical Computation and Simulation; Health
Services and Outcomes Research Methodology
Book proposal review - Chapman & Hall/CRC Press
Grant application review - Medical Research Council (UK)