

Publications (methodological)

Published:

1. Joris Gaii, Julien Péron, Matthieu Roustit, Jean-Luc Cracowski, Pascal Roy, **Brice Ozenne**, Marc Buyse, and Delphine Maucort-Boulch. Individualized net benefit estimation and meta-analysis using generalized pairwise comparisons in n-of-1 trials. *Statistics in Medicine*, 2023
2. Thomas H Scheike, Torben Martinussen, and **Brice Ozenne**. Efficient estimation in the fine and gray model. *Journal of the American Statistical Association*, pages 1–9, 2022. URL <https://doi.org/10.1080/01621459.2022.2057860>
3. **Brice Ozenne**, Esben Budtz-Jørgensen, and Sebastian Elgaard Ebert. Controlling the familywise error rate when performing multiple comparisons in a linear latent variable model. *Computational Statistics*, pages 1–23, 2022. URL <https://doi.org/10.1007/s00180-022-01214-7>
4. **Brice Ozenne**, Esben Budtz-Jørgensen, and Julien Péron. The asymptotic distribution of the net benefit estimator in presence of right-censoring. *Statistical Methods in Medical Research*, 30(11):2399–2412, 2021
5. Julien Péron, Maryam Idlhaj, Delphine Maucort-Boulch, Joris Gaii, Pascal Roy, Laurence Collette, Marc Buyse, and **Brice Ozenne**. Correcting the bias of the net benefit estimator due to right-censored observations. *Biometrical Journal*, 63(4):893–906, 2021. URL <https://doi.org/10.1002/bimj.202000001>
6. Eva Cantagallo, Mickaël De Backer, Michal Kicinski, **Brice Ozenne**, Laurence Collette, Catherine Legrand, Marc Buyse, and Julien Péron. A new measure of treatment effect in clinical trials involving competing risks based on generalized pairwise comparisons. *Biometrical Journal*, 63(2):272–288, 2021. URL <https://doi.org/10.1002/bimj.201900354>
7. **Brice Ozenne**, Patrick Fisher, and Esben Budtz-Jørgensen. Small sample maximum likelihood inference in latent variable models. *JRSS-C*, 2020a. URL <https://doi.org/10.1111/rssc.12414>
8. Johan Verbeek, **Brice Ozenne**, and William N Anderson. Evaluation of inferential methods for the net benefit and win ratio statistics. *Journal of Biopharmaceutical Statistics*, pages 1–18, 2020. URL <https://doi.org/10.1080/10543406.2020.1730873>
9. **Brice Ozenne**, Thomas Harder Scheike, Laila Stærk, and Thomas Alexander Gerds. On the estimation of average treatment effects with right-censored time to event outcome and

competing risks. *Biometrical Journal*, (Epub ahead of print), 2020b. URL <https://doi.org/10.1002/bimj.201800298>

10. Martin Nørgaard, **Brice Ozenne**, Claus Svarer, Stephen C. Strother, Vibe G. Frokjaer, Gitte M. Knudsen, and Melanie Ganz. Preprocessing, prediction and significance: Framework and application to brain imaging. *Information Processing in Medical Imaging (IPMI) conference 2019*, 2019. URL https://link.springer.com/chapter/10.1007/978-3-030-32251-9_22
11. **Brice Ozenne**, Anne Lyngholm Sørensen, Thomas Scheike, Christian Torp-Pedersen, and Thomas Alexander Gerds. riskregression: Predicting the risk of an event using cox regression models. *R Journal*, 9(2):440–460, 2017. URL <https://journal.r-project.org/archive/2017/RJ-2017-062/index.html>
12. Julien Péron, Marc Buyse, **Brice Ozenne**, Laurent Roche, and Pascal Roy. An extension of generalized pairwise comparisons for prioritized outcomes in the presence of censoring. *Statistical methods in medical research*, 27(4):1230–1239, 2016a. URL <https://doi.org/10.1177%2F0962280216658320>
13. **Brice Ozenne**, Fabien Subtil, and Delphine Maucort-Boulch. The precision–recall curve overcame the optimism of the receiver operating characteristic curve in rare diseases. *Journal of clinical epidemiology*, 68(8):855–859, 2015b. URL <https://doi.org/10.1016%2Fj.jclinepi.2015.02.010>
14. **Brice Ozenne**, Fabien Subtil, Leif Østergaard, and Delphine Maucort-Boulch. Spatially regularized mixture model for lesion segmentation with application to stroke patients. *Biostatistics*, 16(3):580–595, 2015c. URL <https://doi.org/10.1093%2Fbiostatistics%2Fkxv004>

In preparation

15. **Brice Ozenne**, Martin Nørgaard, Cyril Pernet, and Melanie Ganz. A sensitivity analysis to quantify the impact of neuroimaging preprocessing strategies on subsequent statistical analyses. *To be submitted*, 202X
16. **Brice Ozenne** and Esben Budtz-Jørgensen. Marginal, conditional, and latent correlation in multivariate normal repeated measurements. *In preparation*, 202X
17. Corine Baayen, Paul Blanche, and **Brice Ozenne**. Design and analysis of group sequential trials for repeated measurements when pipeline data occurs: a tutorial using r. *In preparation*, 202X

Publications (clinical applications)

18. Anders Hvid-Hansen, Nina Jacobsen, Flemming Møller, Toke Bek, **Brice Ozenne**, and Line Kessel. Myopia control with low-dose atropine in european children: Six-month results from a randomized, double-masked, placebo-controlled, multicenter study. *Journal of Personalized Medicine*, 13(2):325, 2023
19. Kristin Köhler-Forsberg, Vibeke H Dam, **Brice Ozenne**, Anjali Sankar, Vincent Beliveau, Elizabeth B Landman, Søren V Larsen, Asbjørn S Poulsen, Cheng-Teng Ip, Anders Jørgensen, et al. Serotonin 4 receptor brain binding in major depressive disorder and association with memory dysfunction. *JAMA psychiatry*, 2023
20. Anders S Olsen, Anders Lykkebo-Valløe, **Brice Ozenne**, Martin K Madsen, Dea S Stenbæk, Sophia Armand, Morten Mørup, Melanie Ganz, Gitte M Knudsen, and Patrick M Fisher. Psilocybin modulation of time-varying functional connectivity is associated with plasma psilocin and subjective effects. *NeuroImage*, 264:119716, 2022
21. Arafat Nasser, **Brice Ozenne**, Emma Sofie Høgsted, Peter Steen Jensen, and Vibe G Frokjaer. Reliability of three versus five saliva sampling times for assessing the cortisol awakening response. *Psychoneuroendocrinology*, page 105950, 2022. URL <https://doi.org/10.1016/j.psyneuen.2022.105950>
22. Vibeke Høyrup Dam, Dea Siggaard Stenbæk, Kristin Köhler-Forsberg, Cheng Ip, **Brice Ozenne**, Barbara Jacquelyn Sahakian, Gitte Moos Knudsen, Martin Balslev Jørgensen, and Vibe Gedsoe Frokjaer. Evaluating cognitive disturbances as treatment target and predictor of antidepressant action in major depressive disorder: A neuropharm study. *Translational psychiatry*, 12(1):468, 2022
23. Anna Søndergaard, Martin Korsbak Madsen, **Brice Ozenne**, Sophia Armand, Gitte Moos Knudsen, Patrick MacDonald Fisher, and Dea Siggaard Stenbæk. Lasting increases in trait mindfulness after psilocybin correlate positively with the mystical-type experience in healthy individuals. *Frontiers in Psychology*, 13:6263, 2022
24. Sophia Armand, **Brice Ozenne**, Nanna Svart, Vibe G Frokjaer, Gitte M Knudsen, Patrick M Fisher, and Dea S Stenbæk. Brain serotonin transporter is associated with cognitive-affective biases in healthy individuals. *Human brain mapping*, 43(13):4174–4184, 2022a. URL <https://doi.org/10.1002/hbm.25946>
25. Kristin Köhler-Forsberg, **Brice Ozenne**, Søren V Larsen, Asbjørn S Poulsen, Elizabeth B Landman, Vibeke H Dam, Cheng-Teng Ip, Anders Jørgensen, Claus Svarer, Gitte M Knudsen, et al. Concurrent anxiety in patients with major depression and cerebral serotonin 4 receptor binding. a neuropharm-1 study. *Translational psychiatry*, 12(1):1–8, 2022. URL <https://doi.org/10.1038/s41398-022-02034-5>
26. Sophia Armand, Mette K Wagner, **Brice Ozenne**, Jeanine Verbunt, Simone JS Sep, Selina K Berg, Gitte M Knudsen, and Dea S Stenbæk. Acute traumatic stress screening

- can identify patients and their partners at risk for posttraumatic stress disorder symptoms after a cardiac arrest: A multicenter prospective cohort study. *Journal of Cardiovascular Nursing*, 37(4):394–401, 2022b. URL <https://doi.org/10.1097/JCN.0000000000000829>
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28. Patrick M Fisher, **Brice Ozenne**, Melanie Ganz, Vibe G Frokjaer, Vibeke NH Dam, Brenda WJH Penninx, Anajli Sankar, Kamilla Miskowiak, Peter S Jensen, Gitte M Knudsen, et al. Emotional faces processing in major depressive disorder and prediction of antidepressant treatment response: A neuropharm study. *Journal of Psychopharmacology*, page 02698811221089035, 2022. URL <https://doi.org/10.1177/02698811221089035>
29. Emily Eufaula Beaman, Anders Nissen Bonde, Sara Marie Ulv Larsen, **Brice Ozenne**, Terhi Johanna Lohela, Maiken Nedergaard, Gunnar Hilmar Gíslason, Gitte Moos Knudsen, and Sebastian Camillo Holst. Blood–brain barrier permeable β -blockers linked to lower risk of alzheimer’s disease in hypertension. *Brain*, 2022. URL <https://doi.org/10.1093/brain/awac076>
30. E Drummond, Wen McCulloch, Maria Zofia Grzywacz, Martin Korsbak Madsen, Peter Steen Jensen, **Brice Ozenne**, Sophia Armand, Gitte Moos Knudsen, Patrick MacDonald Fisher, and Dea Siggaard Stenbæk. Psilocybin-induced mystical-type experiences are related to persisting positive effects: A quantitative and qualitative report. *Frontiers in pharmacology*, 13, 2022. URL <https://doi.org/10.3389/fphar.2022.841648>
31. Søren Vinther Larsen, **Brice Ozenne**, Kristin Köhler-Forsberg, Asbjørn Seenithamby Poulsen, Vibeke Høyrup Dam, Claus Svarer, Gitte Moos Knudsen, Martin Balslev Jørgensen, and Vibe Gedso Frokjaer. The impact of hormonal contraceptive use on serotonergic neurotransmission and antidepressant treatment response: Results from the neuropharm 1 study. *Frontiers in endocrinology*, 13, 2022. URL <https://doi.org/10.3389/fendo.2022.799675>
32. Drummond E-Wen McCulloch, Martin Korsbak Madsen, Dea Siggaard Stenbaek, Sara Kristiansen, **Brice Ozenne**, Peter Steen Jensen, Gitte Moos Knudsen, and Patrick MacDonald Fisher. Lasting effects of a single psilocybin dose on resting-state functional connectivity in healthy individuals. *Journal of Psychopharmacology*, 36(1):74–84, 2022. URL <https://doi.org/10.1177/02698811211026454>
33. Cheng-Teng Ip, Melanie Ganz, Vibeke H. Dam, **Brice Ozenne**, Annia Rüesch, Kristin Köhler-Forsberg, Martin B. Jørgensen, Vibe G. Frokjaer, Birgitte Søgaaard, Søren R. Christensen, Gitte M. Knudsen, and Sebastian Olbrich. Neuropharm study: Eeg wakefulness regulation as a biomarker in mdd. *Journal of Psychiatric Research*, 141:57–65, 2021a. ISSN 0022-3956. URL <https://doi.org/10.1016/j.jpsychires.2021.06.021>

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39. Stinne Høgh, Hanne Kristine Hegaard, Kristina Martha Renault, Eleonora Cvetanovska, Anette Kjærbye-Thygesen, Anders Juul, Camilla Borgsted, Anne Juul Bjertrup, Kamilla Woznica Miskowiak, Mette Skovgaard Væver, Dea Siggaard Stenbæk, Vibeke Høyrup Dam, Elisabeth Binder, **Brice Ozenne**, Divya Mehta, and Vibe G Frokjaer. Short-term oestrogen as a strategy to prevent postpartum depression in high-risk women: protocol for the double-blind, randomised, placebo-controlled mama clinical trial. *BMJ Open*, 11(12), 2021. ISSN 2044-6055. URL <http://dx.doi.org/10.1136/bmjopen-2021-052922>
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42. Lene Lundgaard Donovan, Jens Vilstrup Johansen, Nídia Fernandez Ros, Elham Jaber, Kristian Linnet, Sys Stybe Johansen, **Brice Ozenne**, Shohreh Issazadeh-Navikas, Hanne Demant Hansen, and Gitte Moos Knudsen. Effects of a single dose of psilocybin on behaviour, brain 5-HT_{2A} receptor occupancy and gene expression in the pig. *European Neuropsychopharmacology*, 42:1–11, 2021. ISSN 0924-977X. URL <https://doi.org/10.1016/j.euroneuro.2020.11.013>
43. Christina J Y Lee, Anne Pernille Toft-Petersen, **Brice Ozenne**, Matthew Phelps, Jonas Bjerring Olesen, Patrick T Ellinor, Gunnar Gislason, Gregory Y H Lip, Christian Torp-Pedersen, and Thomas Alexander Gerds. Assessing absolute stroke risk in patients with atrial fibrillation using a risk factor-based approach. *European Heart Journal - Cardiovascular Pharmacotherapy*, 7(FI1):f3–f10, 06 2020. ISSN 2055-6837. URL <https://doi.org/10.1093/ehjcvp/pvaa063>
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48. VH Dam, DS Stenbæk, K Köhler-Forsberg, C Ip, and pages=1–10 year=2020 publisher=Cambridge University Press **Brice Ozenne**] and Sahakian, BJ and

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Software development

Packages for the R software:

- **BuyseTest** (author and maintainer): implementation of generalized pairwise comparisons, including recent developments to handle right-censoring [Péron et al., 2016a, 2021]. Available on [CRAN](#) and on [Github](#).
- **lavaSearch2** (author and maintainer): Inference and diagnostic tools for latent variable models. Methodology described in [Brice Ozenne et al., 2020a] and [Brice Ozenne et al., 2022]. Available on [CRAN](#) and on [Github](#).
- **LMMstar** (author and maintainer) : linear mixed model via covariance structure (marginal formulation). Inference in small sample, test linear and non-linear combinations of parameters, multiple comparisons adjustment. Available on [CRAN](#) and on [Github](#).
- **riskRegression** (contributor): computation of absolute risks and average treatment effects. Methodology described in [Brice Ozenne et al., 2017] and [Brice Ozenne et al., 2020b]. Available on [CRAN](#) and on [Github](#).

Package for [emacs](#):

- **emacs-config** (author and maintainer) : Configuration files for emacs to ease the interaction with R/C++/orgmode/latex/git. Available on [Github](#).