

*Publications (methodological)*

Published:

1. Joris Gaii, Julien Péron, Matthieu Roustit, Jean-Luc Cracowski, Pascal Roy, **Brice Ozenne**, Marc Buyse, and Delphine Maucourt-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 Maucourt-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 Verbeeck, **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](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  $\beta$ -blockers linked to lower risk of alzheimer’s disease in hypertension. *Brain*, 2022. URL <https://doi.org/10.1093/brain/awac076>
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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>
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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. Disponible on [Github](#).