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January XX, 2024,

# Dear Editor,

It is with great pleasure that I submit the manuscript entitled “Identifying critical shortcomings of estimators of discriminative performance in time-to-event analyses: a comparison study” for consideration of publication in the *Biometrical Journal*.

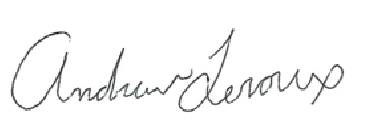
The current work, not currently published elsewhere and will not be published elsewhere within one year after its publication in this journal, explores the validity of evaluation metrics of the discriminative performance of time-to-event models. Specifically, we identified a critical flaw of a certain type of evaluation metrics that can result in sever out-of-sample overestimation of model performance. Such behavior can mislead the process of model assesement or selection, make these estimators inappropriate for use in practice.

All authors contributed to (1) the conception of the statistical problem and the proposed statistical methods presented here; and (2) drafting or revising the work for statistical and/or subject matter content. All authors have read the manuscript and approved its submission.

There are no conflicts of interest to disclose for this work.

On behalf of my co-authors, I thank you for your consideration of this manuscript for publication. Please address all correspondence to me at ying.jin@cuanschutz.edu.

# Sincerely,



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