Review of: "Chronic disease treatment default prediction with random sampling optimization."

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Potential competing interests: No potential competing interests to declare.

The article has a good potential for publishing after several improvements in the study and text. The fact that it uses a real-world dataset and five classification algorithms, gives a relatively robust classification model. However, the clarity, data preprocessing, and details on methods are some limitations of this paper. So, my recommendations are:

(1) Refinement of Introduction: Revise the introduction to provide a clear and concise significance of addressing class imbalance in healthcare datasets.

(2) There is a loop in the second phase of the flowchart proposed, with no decision to be made, and seems confusing. Also, in the last stage, the hyperparameter tuning is crucial for a good classifier, and it should not be optional.

(3) The results were evaluated, but not discussed using the current and relevant literature.

(4) The conclusions are superficial and should be improved with some practical implications. Also, it is important to address the limitations and future directions of the research.

Final decision: Major Revision