Reviewer’s report

Title: A retrospective analysis of determinants of involuntary psychiatric in-patient treatment

Version: 2 Date: 13 Mar 2019

Reviewer: Research Square

Reviewer’s report:

"STATISTICAL REVIEWER ASSESSMENT:

Is the study design appropriate for the research question (considering whether the analyzed population accurately reflects the design and whether you see any problems with control/comparison groups, e.g., likely confounders)?

Yes - overall design, population, and control groups are appropriate

Are methodologies adequate and well implemented (considering whether assumptions are addressed and whether analyses are robust)?

Yes - methodologies are adequate and well implemented, assumptions are addressed, analysis is robust

Are the analyses adequately communicated (considering whether reporting details are adequate and whether figures and tables are well labeled and described)?

Yes - important reporting details are present, analyses are adequately communicated, figures and tables are well labeled and described

Does the interpretation accurately reflect the analyses without overstatement (considering whether limitations/bias are acknowledged and whether accurate descriptors, e.g., 'significant', are used)?

Yes - interpretation accurately reflects analyses, limitations/bias are acknowledged, accurate descriptors are used

Could an appropriately REVISED version of this work represent a statistically sound contribution?

Probably - with minor revisions
STATISTICAL REVIEWER COMMENTS:

The revision of the paper addressed most of the important issues, and includes several improvements that I raised in my previous review. I also believe that the research was done appropriately in terms of statistical analysis.

I appreciated the use of data mining techniques for investigating the risk factors for involuntary psychiatric in-patient treatment. The classification of the model is quite precise with no overfitting.

REQUESTED REVISIONS:

ADDITIONAL REQUESTS/SUGGESTIONS:

To improve stability and accuracy of the model, please consider using ensemble models (e.g. boosting or bagging)." 

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

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