Reviewer’s report

Title: Heart Rate n-Variability (HRnV) and Its Application to Risk Stratification of Chest Pain Patients in the Emergency Department

Version: 0 Date: 05 Dec 2019

Reviewer: Barbra Backus

Reviewer's report:

I found the article hard to read. The principle and objectives are clear, but the description of the algorithm is very hard to read for an average clinician. I really don't understand the methods, results and discussion with different heart rate variabilities (HRV, HR2V, HR2V1, HR3V, HR3V1, and HR3V2). This is difficult to read, difficult to reproduce (where did they get the HRV from? From serial ECGs or 5 minutes single lead recordings?) Then suddenly at the end they compare with risk scores. I miss the clinical relevance. I miss the suggestion how this can be applied in daily practice. The article is so statistical that it is not usable for a physician at the patients bedside.

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

Unable to assess

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

Unable to assess

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

No

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 recommend additional statistical review

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

Acceptable
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