Reviewer's report

Title: A model to predict unstable carotid plaques in population with high risk of stroke

Version: 1 Date: 23 Jan 2020

Reviewer: Suziane Ungari Cayres-Santos

Reviewer's report:

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The objective of the manuscript "A model for predicting carotid instability plaque in high risk group of stroke individuals" was to establish a predictive model of carotid vulnerable plaque through systematic screening of high-risk population for stroke. The article is well written. It is attached below some comments in order to fill some gaps related to theoretical material. Background Line 34, page 3 - Please add a reference after this sentence to sustain that information "[...] It is well-known that atherosclerosis is the main risk factor of cardiovascular and cerebral vascular disease". Methods 2.2 High risk group of stroke individuals Line 59, page 5 - Please add a reference used to classify dyslipidemia in this study. Line 42, page 7 - Carotid duplex examinations were performed by four experienced registered vascular technicians. Did you perform reproducibility test for this variable? If not, could you please add this information using a sub sample in the paper? Line 51, page 13 - Please add some references after this sentence "The mechanism of stroke is various, thromboembolism is only part of it, which is focus on carotid plaque or stenosis, especially carotid instability plaque."

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 recommend additional statistical review

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Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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