Reviewer’s report

**Title:** Clinical value of vestibular-evoked myogenic potential tests in patients with sudden sensorineural hearing loss

**Version:** 0 **Date:** 09 Nov 2019

**Reviewer:** Tommaso Bocci

**Reviewer's report:**

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The paper by Wang and colleagues highlights novel insights into the role and clinical usefulness of peri-ocular and vestibular myogenic potentials. The paper reports novel findings about the sudden hearing loss, a very common clinical condition, with a huge number of possible misdiagnoses.

The paper is well written and the Methods seem sound.

However, the Authors should address some critical questions to improve the quality of their paper:

1) First of all, the Authors did not perform brainstem auditory evoked potentials in the cohort study. Is there any reason for this?

2) The demographic features of the sample is not clear at all. That could influence data in terms of VEMP latencies and amplitudes; moreover, old patients commonly suffer from vertigo, likely due to transient infections of the utricular component of vestibular system.

3) Apart from "patients with recurrent vertigo" (What does it means "recurrent"?), both exclusion and inclusion criteria are not clear. Did the subjects perform a CT scan before the enrollment? Did they perform an ultrasound evaluation of both intra- and extracranial vessels? In this connection, the quoted phrase "All subjects had no disease ... space occupying lesions" (page 8, lines 31-36) should be moved into the Methods section and specified in detail.

3) In the paper I've read there's no figure, but one table only. VEMPs traces are mandatory to support results.

4) Is there any relationship between the neurophysiological outcome and others parameters, as caloric testings, patients' age, duration of the disease?
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.

No

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 am able to assess the statistics

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