Reviewer's report

Title: Case Report of Vasovagal Syncope Associated with Single-Pulse Transcranial Magnetic Stimulation in a Healthy Adult Participant

Version: 0 Date: 03 Nov 2015

Reviewer: Gianluca Coppola

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Reporting rare adverse events during repetitive transcranial magnetic stimulation (rTMS) procedure is needed to allow correct judgment upon the incidence of side-effects associated with this technique.

Some amendment as follows:

- Was the glucose blood test performed after the rTMS session?
- Even this case report is very suggestive of a convulsive syncope, rather than a seizure, an electroencephalography should recommend in future studies. Please add.
- I noted that the subject under investigation suffered of hypo-thyroidism. Therefore, I suggest warranting potential readers to check for subtle thyroid problems, chiefly hypo-thyroidism, in future studies. In fact, in a previous paper, some observed abnormalities of several TMS parameters in adult hypothyroidism (Rizzo et al., 2008). There patients should not be considered as healthy subjects in studies of nervous system.
- As stated in Tamijani et al., 2015, though the underlying molecular mechanisms still remain unknown, the effects of thyroid hormones on inhibitory and excitatory neurons may affect brain seizure activity, mostly as predisposing factor. This point should be discussed.

References

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.
Unable to assess

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.
Not relevant to this manuscript

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

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