Reviewer’s report

Title: Characteristics of neurological Wilson's disease with corpus callosum abnormalities

Version: 1 Date: 11 Oct 2018

Reviewer: Imran Rizvi

Reviewer's report:

Posterior (splenium) and anterior part (genu) abnormalities of corpus callosum in Wilson's disease

Comments

The authors have described involvement of corpus callosum in patients with Wilson's disease, the study appears interesting but there are several factors which are severely affecting the quality of the manuscript.

The manuscript is poorly written, there are numerous grammatical errors and spelling mistakes which make it very hard to decipher the article.

In the material and methods sections the authors have described several of their observations which is disturbing the flow of the manuscript.

The methods sections should be described in details as per the STROBE guidelines.

There are several errors in the statistical analysis portion.

The authors have compared various scales (UWDRS Neurological symptoms score etc) in the 2 groups. The authors have represented them with a mean ± standard deviation and compared them using the t test. But I think these score scales are examples of ordinal variables so they should be represented by a median along with an inter quartile range rather than a mean ± standard deviation. The ordinal measures should further be compared using a non-parametric test like Man-Whitney U test rather than a t test.

The representative images of MRI provided by the authors are of very poor quality and does not appear to be classical of WD.

High resolution images in the form of collage (along with suitable markers) should be provided. Two images should be shown 1 of a patient with callosum involvement and another without CC involvement.

The conclusion drawn from the article are not clear.
Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

No

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

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

Not suitable for publication unless extensively edited

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