Reviewer's report

Title: Isolated hypoglossal nerve palsy from internal carotid artery dissection related to PKD-1 gene mutation

Version: 0 Date: 22 Jul 2019

Reviewer: Peter Appelros

Reviewer's report:

There have been quite a few reports on the association between carotid artery dissection and hypoglossus nerve palsy through the years.

The most interesting feature in this case is the possible association between the PKD1-gene and carotid artery dissection. I think that this should be pointed out and discussed more. The title could, for example, contain a reference to the mutation in question.

Why was a genetic investigation initiated in this case?

I think that more text in the Discussion should be devoted to the association between connective tissue diseases and carotid dissection. Is the first time an association between carotid dissection and the PKD1-gene has been shown?

Also, as this manuscript is written for neurologists, somewhat more could be said on the nature of polycystic kidney disease. For example, why is there an association between autosomal dominant polycystic kidney disease and carotid dissection? Does this condition result in a weakened connective tissue structure in general?
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.

Not relevant to this manuscript

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

Needs some language corrections before being published

Declaration of competing interests
Please complete a declaration of competing interests, considering the following questions:

1. Have you in the past five years received reimbursements, fees, funding, or salary from an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

2. Do you hold any stocks or shares in an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

3. Do you hold or are you currently applying for any patents relating to the content of the manuscript?

4. Have you received reimbursements, fees, funding, or salary from an organization that holds or has applied for patents relating to the content of the manuscript?

5. Do you have any other financial competing interests?

6. Do you have any non-financial competing interests in relation to this paper?
If you can answer no to all of the above, write 'I declare that I have no competing interests' below. If your reply is yes to any, please give details below.

I declare that I have no competing interests.

I agree to the open peer review policy of the journal. I understand that my name will be included on my report to the authors and, if the manuscript is accepted for publication, my named report including any attachments I upload will be posted on the website along with the authors' responses. I agree for my report to be made available under an Open Access Creative Commons CC-BY license (http://creativecommons.org/licenses/by/4.0/). I understand that any comments which I do not wish to be included in my named report can be included as confidential comments to the editors, which will not be published.

I agree to the open peer review policy of the journal.