Reviewer’s report

Title: Prevalence of and risk factors for enlarged perivascular spaces in adult patients with moyamoya disease

Version: 0 Date: 09 Jun 2017

Reviewer: Tackeun Kim

Reviewer's report:

The authors confirmed that EPVS was more prevalent in MMD group than control group. And they suggested possible mechanism as loss of arterial pulsations.

Clinical impact

Although it is very interesting and novel topic in the field of MMD, clinical impact of EPVS and related risk factors seems to be weak. Are MMD patients with higher EPVS grade more prone to future stroke or neurological deterioration? Is perfusion status worse in higher EPVS patients?

Regarding control group:

The authors enrolled 50 subjects as control group against MMD group. Although they matched age and sex, the factors influencing EPVS should be presented for control group. However, there were not any comment of risk factors related with EPVS among control group subjects. Medical history including TIA or previous stroke, hypertension, diabetes, dyslipidemia and presence of intracranial/extracranial atherosclerosis should be clarified and analyzed between MMD and control groups. (Does Table 3 include hemispheres from MMD/control group?)

Statistics

Although the authors used Mann-Whitney U test for continuous variables, data were expressed as mean and standard deviation. If continuous variables did not meet normal distribution, using median and interquartile range should be more helpful to understand the distributions.

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.

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 am able to assess the statistics

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

Acceptable

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