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Increased Pulsatility Index of the Basilar Artery is a risk factor for Neurological Deterioration after Stroke: a case control study

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Clinical Hypertension

Dear Dr Kim,

Your manuscript 'Increased Pulsatility Index of the Basilar Artery is a risk factor for Neurological Deterioration after Stroke: a case control study' (CHYP-D-22-00003) has been assessed by our reviewers. Based on these reports, and my own assessment as Editor, I am pleased to inform you that it is potentially acceptable for publication in Clinical Hypertension, once you have carried out some essential revisions suggested by our reviewers.

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We look forward to receiving your revised manuscript soon.

Best wishes,

Wook-Jin Chung, MD, PhD

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Reviewer reports:

Reviewer #1: This is an interesting article that demonstrated relationship between basilar artery pulsatile index and neurological deterioration.

There are minor points that I like to bring up.

As clinical hypertension is official journal of Korean society of hypertension, it would be better to decribe the relationship betweeen hypertension and pulsatile index of MCA or BA in decussion.

If there are any other studies that comparing pulsatile index of MCA and BA, it would be better to describe in this article. So that BA PI was selected not only it is easy to measure, but also it can relflect PI of MCA.

Reviewer #2: It is very interesting study and meaningful study.

In this original article, the authors attempt to evaluate whether basilar artery pulsatile index can predict neurological deterioration after acute stroke.

#. In Table 1, the Rt. MCA PI had significantly different level among 4 group, but the p-value of Lt. MCA PI was 0.822. Is there any reason for this?

#. In Table 1 and 2, the variable 'smoking' means 'current smoking'? If so, it is recommended to describe it as current smoking.

#. In Table 1, what means ' progression'?

#. Is there any possible mechanism about the association between BA PI and neurologic deterioration? The author should describe about this in the discussion section.

#. The author showed multi-variable logistic regression analysis adjustments for significant factors with a p value of ≤0.10 in uni-variate analysis. It is recommended to describe it in Statistical analysis of Method section.

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