Reviewer’s report

Title: Neuroprotective effects of amiodarone in a mouse model of ischemic stroke

Version: 0 Date: 18 Aug 2017

Reviewer: Creed Stary

Reviewer’s report:

In the present study, the Authors investigated the effect of amiodarone pre- and post-treatment on infarct volume and gross motor outcomes in mice following permanent distal middle cerebral artery occlusion (dMCAO). The Authors observed a protective effect with pre-injury administration of 50mg/kg (presumably intravenous) amiodarone, but not with immediate post-injury treatment with the same dose.

The study is clinically relevant, but lacks any mechanical insight, which the Authors assign to the complex pharmaceutical profile of amiodarone. However, there are several pharmaceutical approaches which could elucidate the targeted pathway. Additional experiments are required to further investigate the potential mechanisms of amiodarone in neuroprotection from stroke; another major issue not addressed is why pre-treatment, but not post-treatment, was effective.

Minor:

- Please elucidate the mode of drug administration
- Please clarify throughout that this is a model of Distal permanent MCAO

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?
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Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
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I am able to assess the statistics

**Quality of written English**

Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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