

OPEN PEER REVIEW REPORT 1

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Title: Magnesium: pathophysiological mechanisms and potential therapeutic roles in intracerebral hemorrhage

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COMMENTS TO AUTHORS

Authors performed a literature review to elucidate the role of magnesium in intracerebral hemorrhage (ICH) pathophysiological process and its potential therapeutic value in ICH. I had following comments:

1, authors firstly reviewed the role of magnesium in ICH pathophysiological process and 3 key mechanisms were indicated. References in this part are relatively antique, and more recent studies should be included. Also, authors should include studied to elucidate what side effects may be induced when magnesium was infused or different magnesium concentrations were applied in ICH pathophysiological process.

2, authors reviewed the therapeutic value of magnesium in ICH in vivo and vitro. References to support this issue are limited. More studies are required to furtherly confirm the therapeutic value of magnesium in ICH, and thus, make these conclusions.

3, in line 7 of page 9, authors reviewed magnesium use in ICH from two studied designed for ischemic stroke. I do not think such results could be cited as evidences of therapeutic value of magnesium in ICH.

Overall, references concerning this topic is limited and convince of conclusions is limited.