Reviewer's report

Title: Molecular mechanisms of hydrogen sulfide against uremic accelerated atherosclerosis through cPKCβII/Akt signal pathway

Version: 0 Date: 19 Jun 2019

Reviewer: Sebastjan Bevc

Reviewer's report:

Li and coworkers presented an interesting study: Molecular mechanisms of hydrogen sulfide against uremic accolated atherosclerosis through cPKCβII/Akt signal pathway.

The authors did animal experiment on mice, divided mice into 6 groups, used appropriate methodology, correctly stressed novelty and limitation of their study and found some interesting results.

Closer look at the results have raised comment.

1. Authors should explain the abbreviation also in the abstract.

2. Authors should avoid repeating the text; like in first paragraph of background and discussion.

3. Authors should present the exact values of "p-values", especially those which were statistically significant.

4. The part "mice aortas were disarticulated from the root to the radial artery bifurcation" should be rephrased or more clearly written.

5. In figure 3 why p-Akt level (%) is presented only?

The authors should implement this comment in the manuscript.
Please confirm that you have included your review in the 'Comments to Author' box?

As a minimum standard, please include a few sentences that outline what you think are the authors' hypothesis/objectives, their main results, and the conclusions drawn. Your report should constructively instruct authors on how they can strengthen their paper to the point where it may be acceptable for publication, or provide detailed reasons as to why the manuscript does not fulfill our criteria for consideration. Please supply appropriate evidence using examples from the manuscript to substantiate your comments. Please break your comments into two bulleted or numbered sections: major and minor comments.

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Does the work include the necessary controls?
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- Is the exact sample size (n) reported for each experimental group/condition (as a number, not a range)?

- Are the description of any error bars and probability values appropriate?

- Are all error bars defined in the corresponding figure legends?

- Has a sample size calculation been included, or a description and rationale about how sample sizes were chosen?
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