Reviewer's report

Title: Toxicological Evaluation of Therapeutic and Supra-therapeutic Doses of Cellgevity® on Reproductive Function and Biochemical Indices in Wistar Rats

Version: 0 Date: 22 Oct 2017

Reviewer: Vanessa Amaral

Reviewer's report:

The manuscript is interesting, generally well-written and comprehensive in scope. However, more detailed information concerning the study design would help with the interpretation of the results. Additionally, there are some ways to improve the paper, as indicated below.

1) The methods section needs some reorganizing and additional information. For instance, the subheading Statistical analysis was neglected by authors. The description of the statistical test should be included. In addition, provide the information about the statistical program (name, version) used in this study.

2) What is a "normal" or "traditional dose" that humans would be exposed to when using Cellgevity®? In other words, how do the doses used in the study compare to human exposure?

3) What was the rationale for choosing the doses 14.3 and 28.6 mg/kg? Generally, at least three test groups and a control group should be used. The results do not show a dose response.

4) What was the rationale for choosing mice in acute toxicity test? The study design used by authors is not very similar to the OECD 423 or 425 toxicity tests. Please add reference to OECD.

5) Please discuss the lack of effect of the treatment with 2000 mg/kg and 3000 mg/kg of CGV on luteinizing hormone levels.
6) Please revise the figure legends. You can delete …"Values in parenthesis represent % change… decrease". Also, authors should express all measurements in conventional units.

7) Figures 2 and 3 - Include in the y axis the unit of measurement.

8) Figure 4 - Change the design of this graph. Present the body weight in the y axis and the doses in the x axis. Attention to the unit of measurement for weight.

9) I would also recommend that some improvement should be made to the presentation of the tables. Not have vertical lines at its lateral borders. Tables may be easier to understand by including the doses in lines and the parameters in columns.

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 recommend additional statistical review

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Please indicate the quality of language in the manuscript:

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