Reviewer’s report

Title: The effects of oral administration of Cola nitida on the pharmacokinetic profile of metoclopramide in rabbits

Version: 2 Date: 22 Jul 2019

Reviewer: Peter Penson

Reviewer's report:

Thank you for submitting this paper which addresses a question of importance.

Unfortunately, I have some concerns about the experimental protocol. The sample size was very small (5 rabbits) and there were no controls. Metoclopramide was administered to rabbits, and then after washout was re-administered in the presence of Cola nitida. Differences between the pharmacokinetics between the first and second administration were attributed to Cola nitida. However given the absence of controls, differences could have occurred owing to other factors (and given the small sample size, due to chance). Unfortunately, I can't see how any causative induction can be made from these data. This is a pity as you have made careful measurements and your I would suggest that you repeat the experiment with a larger sample size, and randomise the animals to receive either metoclopramide OR metoclopramide + cola, then wash-out and cross-over to the alternative treatment.

A minor point is that your graphs appear to have been fitted to an unusual formula which makes the lines curve in places which are not implied by your data. This is sometimes an automatic feature in MS Excel which can (and should) be adjusted, unless you have a particular reason to fit your data to a particular formula.

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.

No

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

No

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 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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