Reviewer’s report

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

Version: 2 Date: 01 Jul 2019

Reviewer: Istvan Baczko

Reviewer's report:

Amadi and Nwachukwu have investigated the plasma levels of metoclopramide following oral administration of the drug on its own and after a one-week washout period, following its oral co-administration with Cola nitida seed suspension in 5 rabbits.

My major concern is that the authors claim in the abstract and in the discussion conclusion, that the decrease of metoclopramide plasma levels following Cola nitida co-administration is attributable to mechanisms involving CYP2D6 and SULT2A1, P-gp and so on. These claims are not backed up by any data in the manuscript. The authors need to change the text accordingly, clearly indicating these statements as only possible mechanisms not investigated in the experiments.

Introduction: metoclopramide is a prokinetic drug but that is due to its 5-HT4 receptor agonist effect, not D2 antagonist effect (anti-emetic effect). Please correct the Introduction accordingly.

Figure: is it correct to illustrate the plasma levels as immediately increasing following oral administration of the drug?

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?
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:

Acceptable

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