Reviewer’s report

Title: Pharmacokinetic and pharmacodynamic modelling of oral mitiglinide on glucose lowering in healthy Chinese volunteers

Version: 0 Date: 05 Jan 2017

Reviewer: Roberto Passera

Reviewer's report:

This research has been well planned and conducted, therefore I have only some minor concerns:

- due to the low sample size (18 subjects), it would be ideal to present all your results as median/IQR rather than mean/sd, since you didn't prove that all pk/pd parameters were gaussianly distributed

- using minutes rather than fractions of hours might be more immediate, all along the text

- "Mitiglinide produced a statistically significant decrease in glucose levels for a period of 2 h, from 0.2 to 2.2 h after administration (P < 0.05)”: which stat test was used (you need a non-parametric one for the above mentioned reason)? Please, always report p-values with 3 significant digits, never using </> 0.05

- what about smoking habits in your cohort? Might it affect mitiglinide pk/pd?

- table 1: since you used a 2-comp model, it would be useful to report mitiglinide Kel (or t/2) both for central and peripheral comps

- figure 2: y-axis should be presented as log rather than linear

- some typos up and there, please revise the manuscript carefully

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.
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 am able to assess the statistics

Quality of written English
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Needs some language corrections before being published

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