Reviewer’s report

Title: The effects of metformin in type 1 diabetes mellitus

Version: 0 Date: 11 Jun 2017

Reviewer: Ewa Wender-Ozegowska

Reviewer's report:

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Paper titled "Metformin reduces insulin requirement by improving metabolic syndrome in type 1 diabetes mellitus" presents the possibility to treat patients type 1 diabetes mellitus patients with insulin and metformin as adjunctive therapy.

Results are not very optimistic because authors have shown that only insulin requirements decreased (as a results of parallel antihyperglycemic treatment that was achieved by metformin) and that not defined metabolic syndrome.

The study is well planned and well organized but there are some weak sides of this study:

1. English should be corrected by any native speaking person; (f.e.)

Material and methods: vers 36: "this study was retrospectively analyzed..."

Statistical analysis: vers: 31: "....variables that normally distributed....."

Discussion: p. 9. vers: vers 13, 14.....should be causes

vers 45: "did not observed in metformin therapy"

2. Material and methods:

a. Authors write, that metabolic syndrome (MS) was analysed in studied groups. There is now informations, how MS was defined, acc. to which criteria, which parameters were taken into account, because lipids profile is analysed separately??

b. Authors write that fasting and postprandial glycemia was measured; there is no information how many measurements were taken into analysis?
3. Discussion

a. Authors several times claim that metabolic syndrome was reduced with metformin-adjunctive therapy, but I couldn't have found these data concerning MS (p. 7. vers. 26 discussion and p. 8. vers. 49)

4. Tab. 2

First row: Metabolic syndrome…: what are the parameters in this MS??

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:

Needs some language corrections before being published

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