Reviewer's report

**Title:** Effect of imatinib on plasma glucose concentration in subjects with chronic myeloid leukemia and gastrointestinal stromal tumor. A retrospective cohort study

**Version:** 1  **Date:** 23 Jul 2018

**Reviewer:** Reviewer 2

**Reviewer's report:**

PEER REVIEWER COMMENTS: To view the full report from the academic peer reviewer, please see the attached file.

REVIEWER COMMENTS FROM REPORT: This is a small, minor-impact retrospective study of the effects of the tyrosine kinase inhibitor imatinib mesylate on fasting plasma glucose (FPG) levels (and other diabetes associated metrics). The statistical methods employed seem to be appropriate and are well described. The results are discussed appropriately and placed within the context of previous work in this area. The figure is clear and informative. In summary, this is a reasonably well written study on a small patient population that may be of some interest to specialists in the field.

REQUESTED REVISIONS:

The main issue is the small number of patients included, especially in the subgroup analysis. Otherwise, it is fairly well written, with some minor grammatical errors. Clear meaning is sometimes hampered by assuming that the reader has specific knowledge in this area, and the appeal could be broadened by including more exposition of the nature of the disease under investigation. The tables are a little unwieldy but otherwise informative.

ADDITIONAL REQUESTS/SUGGESTIONS:

The authors should note that the small numbers in the subgroups would have hampered the statistical interpretation. Some minor grammatical issues are present. More exposition on the disease being studied (function of pancreatic B-cells, etc) is needed.
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.

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.

Not relevant to this manuscript

Quality of written English
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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Please complete a declaration of competing interests, considering the following questions:

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