Reviewer’s report

Title: Frequency and determinants of thyroid autoimmunity in Ghanaian Type 2 diabetes patients: a case-control study

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Reviewer: Suad Al-Fadhli

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This study titled: Frequency and determinants of thyroid autoimmunity in Ghanaian Type 2 diabetes patients: a case-control study. Done by: Sarfo-Kantanka et al, is an observational kind of study based on case-control. The study handled an issue which not covered in the African population. The finding of this study indicates that the frequency of thyroid autoimmunity is significantly higher in Ghanaian T2DM patients, with its presence significantly associated with thyroid dysfunction, female gender, hypercholesterolemia and hyperglycemia.

The authors have described the limitations of their study "Considering the observational nature of this evidence and, thus, the inappropriateness for causality inference, we advise caution in the interpretation of these findings. Especially in extrapolating these findings to different populations with different baseline characteristics. Also to be noted is our inability to use oral glucose tolerance test in ruling out diabetes in our controls. With this, a marginal misclassification of patients with glucose intolerance may have been included as controls." Which was very clear, However, these limitations can be overlooked as they might have limited impact on the final outcome of the study.

The only concern I have is that I wish for the authors to specify their p value for considering the significance of their results.

I advise into publishing this piece of work and encourage the authors to expand their study by including more cases and a stringent inclusion and exclusion criteria.

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.

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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