Reviewer’s report

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

Version: 0 Date: 13 Nov 2016

Reviewer: Georgios Boutzios

Reviewer’s report:

We evaluated the manuscript with title: Frequency and determinants of thyroid autoimmunity in Ghanaian Type 2 diabetes patients: a case-control study.

This is a case control study. The data are interesting. The authors included also a control group in their study in order to ensure the validity of their results.

Nevertheless, there are many points into the manuscript were should be defined. The authors should take under consideration the following points:

1. A major limitation is that the authors included in their study patients with hyperthyroidism without to assess the cause of the disease such as TSI (thyroid stimulating immunoglobulins). They assessed the autoimmunity using only TgAb and TPOAb respectively. On the other hand there are many causes of hyperthyroidism without the presence of autoimmunity such as toxic goiter.

2. Why the author included ages between 40-80? In the younger ages did the authors exclude patients with LADA?

3. The authors assessed LDL in patients with different TSH levels. Increased TSH levels affect the clearance of LDL.

4. The authors are using different writing font in the manuscript. Please edit.

5. There are many similar publications published up to date. The data did not reveal a new entity. There is nothing new to say. However, the manuscript needs major revision before it can be proceeded for further evaluation.

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:

Needs some language corrections before being published

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