Reviewer’s report

Title: Subclinical Hypothyroidism Would Not Lead To Female Sexual Dysfunction in Chinese Women

Version: 0 Date: 28 Dec 2016

Reviewer: Daniela Pasquali

Reviewer's report:

Comments to Author

1. 1119 participants were recruited to evaluate the relationship between subclinical hypothyroidism (ScHt) and sexual dysfunction in Chinese women. Risk factors of FSD were identified. CVFSFI>23.45 was the value to identify sexual dysfunction. The authors did not find significant differences between women with ScHt and controls. This is an original report but I have some concerns about the study design that could affect the results.

2. ScHt participants and 951 controls. In this case control study there are important numerical differences between ScHT (n=168) and controls (n=951). I have some doubt about possible bias linked to this discrepancy.

3. In this hospital based research was the control population affected by diseases that can affect the research results other than subclinical hypothyroidism?

4. In table 1 TSH and AbTPO values in ScHt group were 5.4(4.7, 6.5) mU/L and 9.0(5.2, 41.5) respectively. Surprisingly, this data demonstrated that ScHt was not related to Hashimoto's thyroiditis, the most common thyroidal cause of SCHt in adults. How can the authors explain this very uncommon data?

5. The diagnosis of ScHt requires the repetition of TSH value at least one more time to confirm this condition. Do the authors confirm the TSH data? If not, I have some concern considering the ScHt group really affected by thyroid disease. The results do not support the conclusions.

6. In the discussion section the authors affirm: To our limited knowledge, it is the first study to explore the relationship between thyroid hormone and female sexual dysfunction (FSD).

This sentence is incorrect, several reports have studied the relationship between thyroid function and FSD (i.e. Clin Endocrinol (Oxf). 2016 Jun;84(6):925-31. doi: 10.1111/cen.12956. Epub 2015 Oct 19. Sexual function and depressive symptoms in young women with thyroid autoimmunity and subclinical hypothyroidism. Krysiak R1, Drosdzol-Cop A2, Skrzypulec-Plinta V2, Okopien
B1) and the authors also reported in the references some of the literature data (Pasquali D et al) and some of them are discussed (Atis G et al)

Minor points

- English form should be evaluated.
- References sometimes are not appropriate.

**Are the methods appropriate and well described?**
If not, please specify what is required in your comments to the authors.

No

**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.

Unable to assess

**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 recommend additional statistical review

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