Reviewer’s report

Title: Association between thyroid dysfunction and perinatal outcomes in women with gestational hypertension: a retrospective study

Version: 0 Date: 21 Oct 2019

Reviewer: Reviewer 2

Reviewer's report:

PEER REVIEWER ASSESSMENTS:

OBJECTIVE - Full research articles: is there a clear objective that addresses a testable research question(s) (brief or other article types: is there a clear objective)?

Yes - there is a clear objective

DESIGN - Is the current approach (including controls and analysis protocols) appropriate for the objective?

No - there are major issues

EXECUTION - Are the experiments and analyses performed with technical rigor to allow confidence in the results?

No - there are major issues

STATISTICS - Is the use of statistics in the manuscript appropriate?

No - there are issues with the statistics in the study

INTERPRETATION - Is the current interpretation/discussion of the results reasonable and not overstated?

No - there are major issues
OVERALL MANUSCRIPT POTENTIAL - Is the current version of this work technically sound? If not, can revisions be made to make the work technically sound?

No - manuscript has some fundamental flaw(s)

PEER REVIEWER COMMENTS:

GENERAL COMMENTS:

This is a retrospective study on thyroid function assessment in women with hypertensive complications of pregnancy.
Data are overanalyzed and overinterpreted.

REQUESTED REVISIONS:

Patient flow is not clear: did the authors include consecutive patients. If not, how where they selected/excluded?

At what time in pregnancy or after pregnancy where thyroid function tests performed?

Only data on TSH, FT3 and FT4 are provided. How did the authors diagnose specific conditions (e.g. Hashimoto's)? Where other lab tests performed? In all women. What are the reference values for TSH, FT3 and FT4 in the local population? Did the authors consider having a matched control group of uncomplicated pregnancies?

Multiple comparisons are performed: did the authors using Bonferroni correction or similar?

What is the dependent variable for the logistic regression analysis shown in Table 3? Preterm birth, low birth weight or both? A logistic regression analysis with 7 independent variables would require some 70 pregnancies with the adverse outcome to predicted to be reliable.
The conclusion that "monitoring thyroid hormones in women with preeclampsia might give us a clue to give treatment as early as possible to avoid adverse neonatal outcomes" is not substantiated by study findings.

**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.

No

**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:

Acceptable

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

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