Reviewer's report

Title: CHANGES IN PLASMA ALDOSTERONE LEVEL AFTER WEIGHT LOSS BY BARIATRIC SURGERY IN MORBIDLY OBESE PATIENTS

Version: 2 Date: 17 Aug 2019

Reviewer: Tasma Harindhanavudhi

Reviewer's report:

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Thank you very much for having me reviewing this paper. I have reviewed with a great interest. The aim of this study was to assess the change in blood pressure and plasma aldosterone and renin level 3 months and 6 months after weight loss surgery. The authors also evaluated the change of aldosterone in correlation with body weight, BMI and percent body fat. The major findings are significant reduction of PAC can be seen as early as 3 months after weight loss surgery. The strong correlation of PAC and body fat.

My comments are the following

1) Subjects and methods: please clarify how heart failure was ruled out. Most of overweight/obese patients may have diastolic heart failure rather than systolic heart failure. How did you make the diagnosis?

2) How was the waist circumference measure? By whom? Was it done twice and average? Please clarify.

3) How was the blood pressure measure? Manual or automated? How many times? Did the participant sit and relax prior to being measured? Was the protocol followed JNC or SPRINT trial? Please clarify.

4) Please specify what kind of assay being used to measure electrolyte, glucose and lipid profile?
5) Please comment on using bioelectrical impedance analysis to measure body fat? Do you have
data on other body composition?

6) Four patients had hypertension prior to the surgery. Did the patients receive treatment? What
medications? Please include.

7) The authors reported that all patient had obstructive sleep apnea. Did the patients receive or
adhere to the treatment? Because OSA can activate RAS, could it be possible that reduction in
PAC was due to improvement in OSA or the treatment of OSA?

8) Do you have data on dietary intake? It is important to quantify sodium intake prior and after
the surgery.

9) Please report renal function and GFR. How many patients were in stage 1 and 2?

10) Could you please comment why your study's result differs from Ruano et al where there was
a correlation between PAC and BMI?

11) Page 4, line 21-23: How can the author conclude that the decrease in PAC suggesting the
local RAS rather than systemic RAS activation?

12) Page 4, line 35-37: how can the author conclude that there was no essential hypertension in
the study?

13) Page 4, line 41-42: Could you further hypothesize the differences of weight loss surgery
would affect PAC?

14) Page 4, line 44-45: the sentence started with "Nonetheless, the reduction of leptin…." is out
of place here. Suggested to move up to the discussion.

15) Page 2, line 33: recommended "A prospective study was conducted…”

16) Page 2, line 34: "…adults…”

17) Page 2, line 33: please add Bangkok, Thailand where the King Chulalongkorn Memorial
Hospital is located

18) Page 2, line 41: should be "All subjects were given written informed consent…” . Please also
specify where the body of local ethic committee was. For example, it was approved by King
Chulalongkorn Memorial Hospital, Chulalongkorn University's ethical committee.

19) Table 1: recommended "Baseline characteristics of the study participants"

20) Table 1: please specify ethnicity
21) Table 2: recommended "Baseline and changes in clinical and laboratory parameters at 3 and 6 months after bariatric surgery

22) Table 2: recommend reporting clinical parameters before laboratory parameters. Please also give abbreviation for BW

23) Why wasn't the percent fat capture at 6 months. Please clarify in method.

**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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