Reviewer’s report

Title: Polycystic ovary syndrome is a risk factor for sarcopenic obesity: A case control study

Version: 1 Date: 07 Jan 2019

Reviewer: Fahimeh Ramezani Tehrani

Reviewer's report:

In the present study entitled "Polycystic ovary syndrome is a risk factor for sarcopenic obesity: A case control study" authors have examined the prevalence of sarcopenic obesity in women with PCOS, as well as they measured some metabolic and inflammatory parameters associated with sarcopenic obesity in affected women. They have reported that women with PCOS have a high prevalence of sarcopenic obesity, which is correlated to insulin resistance and inflammation.

My comments are as follows:

1. Introduction: Please give more complete review of evidence about sarcopenic obesity and associated factors in PCOS.

2. Diagnosis of PCOS was determined based on Rotterdam criteria or Androgen excess society? Please explain clearly.

3. In method line 67, how did researchers determine hyperandrogenemia (biochemical or clinical)?

4. How did authors determine sample size?

5. Detection limits, sensitivity and characteristics of the kits should be added to methods.

6. Please write all main findings of your study in the first paragraph of discussion.

7. The results of this study need more interpretation, and the present results should be compared with the results of other previous studies.

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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