Reviewer’s report

Title: Vitamin D receptor and binding protein polymorphisms in women with polycystic ovary syndrome: a case control study

Version: 0 Date: 29 Aug 2019

Reviewer: Abdul Basit

Reviewer's report:

Overall, the manuscript is good, but English language need to be improved. Following are few comments as;

* In background, line 80 should be added at the end in line 88 after "phenotypes".

Methodology

* Some more details of project should be added.

* Inclusion criteria of control is missing.

* Briefly discuss how non pcos females were identified only on menstrual regularity.

* Local study reference 21, better to give following reference as mentioned study based on this consensus report


* In line 112, to exclude participants what criteria was used, either Known cases? or biochemical and hormonal testings were done to exclude them?

* How many times cases and control visited hospitals?

* first biochemical and hormonal assays were done to exclude PCOS and then controls are invited to come on third day of cycle for OGTT and insulin tests?

* Their fertility status and family history of PCOS was taken?

* Vitamin D levels were done in both groups?

Discussion
Its too lengthy with grammatical errors.

Conclusion

* Line 300; IR may be considered as a core of PCOS

* then what benefit will be expected by doing genotyping of VDR gene? as it will be more expensive?

**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.

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 recommend additional statistical review

**Quality of written English**
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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