Reviewer’s report

Title: Association of vitamin D receptor gene variants with polycystic ovary syndrome: A meta-analysis

Version: 0 Date: 04 Jan 2019

Reviewer: Roberto Vita

Reviewer’s report:

The authors have reviewed and meta-analyzed the studies on the association between vitamin D receptor polymorphisms and PCOS susceptibility. They found that only the VDR ApaI (rs7975232) polymorphism and the VDR BsmI (rs1544410) polymorphism associate with PCOS in the Asian population but not in the Caucasian population.

I suggest a careful English proofreading of the whole manuscript. For instance:

* page 3, line 44, "androgen levels";
* page 4, line 14, "by its conversion into the";
* page 4, line 28, "that controls";
* page 5, line 6, "updated";
* page 5, Inclusion and exclusion criteria. Please rephrase;
* page 6, line 9, "constituted by";
* page 6, line 22 "A total score for each study of";
* page 7, line 20 "I2 values of";
* page 7, line 37 "Two-sided P values less than";
* page 8, line 1 "screened";
* page 14, line 20, replace "only" with "and";
* page 14, line 33 "did not include";
* page 14, line 42, replace "do" with "include";
* page 14, lines 44-52, please rephrase;
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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