Reviewer’s report

Title: Risk factors for antenatal vitamin D insufficiency in an urban district in Malaysia

Version: 3 Date: 16 December 2015

Reviewer: Busadee Pratumvinit

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Minor Essential Revisions
1. Method: The author should state the performance of 25-hydroxyvitamin D assay e.g. coefficient of variation
2. Results: The 25-hydroxyvitamin D assay is not sensitive to 3 decimals places.
3. Discussion, line 222: “...metabolic syndrome diseases…” should be changed to “...metabolic syndrome…”
4. Discussion, line 223-4: The sentence “In both studies, the serum 25(OH)D were < 50 nmol/L” was not clear.

• Discretionary Revisions
5. Discussion, line 225: Morning sickness should not alone cause vitamin D insufficiency because only few kinds of food contain vitamin D.
6. Discussion, line 269-274: The definition in this paragraph is quite confused. The author may use term “hypovitaminosis D” instead of “vitamin D insufficiency” because vitamin D insufficiency is usually defined as the level between optimal level and vitamin D deficiency (for example: 25-50 nmol/L) and should change in the method section and other parts of the manuscript.
7. Discussion, line 297: About the skin color of Chinese vs Indians and Malays, the author should show the Fitzpatrick skin grade comparison between those groups in the result section.
8. There are some previous studies related with this topic from recent years, and the authors should update references in review and discussion section.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:
I declare that I have no competing interests