Reviewer's report

Title: Placental Vascularization Alterations in Hypertensive Disorders Complicating Pregnancy (HDCP) and Small for Gestational Age with HDCP Using Three Dimensional Power Doppler in A Prospective Case Control Study

Version: 2
Date: 7 July 2015
Reviewer: Toshiyuki Hata

Reviewer's report:

Major Compulsory Revisions

General comments

This paper is a little bit interesting, and may have new information for readers of the BMC Pregnancy & Childbirth. However, I think that some major revisions are needed to accept this manuscript for the BMC Pregnancy & Childbirth. My big concern is very insufficient reference papers. Authors should cite more important reference papers.

Specific comments

1. How about the reproducibility of 3D power Doppler vascular index measurements? There is a significant variability for placental 3D power Doppler vascular index values among previous studies [1]. Authors should show intra-observer agreements with Bland-Altman’s procedure [2] and intra-class correlation coefficients. Authors should address the variability of 3D power Doppler vascular index measurements in more detail.


2. References are really insufficient. Authors should cite more important reference papers as below.

e.g.
3. Image quality of Figure 1 is poor. There is also no spherical ROI in Figure 1.

4. We could not know where is a significant difference among groups in Figs. 2-5.

**Level of interest:** An article whose findings are important to those with closely related research interests

**Quality of written English:** Needs some language corrections before being published

**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.