Reviewer's report

Title: Profiles of lipids, blood pressure and weight changes among premenopausal Chinese breast cancer patients after adjuvant chemotherapy

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Reviewer: Ikechukwu Iloabachie

Reviewer's report:

This was a good attempt to study the long term effects of chemotherapy following breast cancer treatment.

The study was described as a prospective cross sectional study. However there was nothing to indicate that the participants were followed up or that other data/measurements were made after the initial contact with the participants. In the same vein the phrase "at study entry" was used often and it created some difficulty with understanding what was actually done. For example weight gain was being described at study entry which is confusing as in a prospective study, the baseline weight is what would be recorded at entry and then changes noted as time progresses. Height and weight were obtained from records as were stage of the breast cancer and chemotherapy regimen.

The language was easy to understand, however the last paragraph of the abstract needs modifying as well as the first sentence of the background section.

The study outlined inclusion and exclusion criteria but the results indicate that this was not adhered to. For example it was stated that the aim was to assess young pre-menopausal women below the age of 45 years, however the study included 137 post menopausal women and 170 women were above 45 years of age. Likewise Stage III breast cancer seems to have been classified as early breast cancer which I do not think is the case. Furthermore this creates some problem interpreting the results of the study as it is now not clear if menopause after 45 years is due to chemotherapy or a natural progression.

The limitation regarding use of one off blood pressure measurements has already been mentioned in the study. In the same vein the weight gain was not properly assessed and cannot be conclusively be said to be due entirely to the cancer treatment.
There was a lot of inferential statistical analysis done and with that, there would be some significant findings which may not be true significances.

In the conclusion mention was made of educational and economic status which were not considered in the study.

**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.

No

**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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