Reviewer's report

Title: Is Prior Oral Contraceptive Use Associated with Improved Survival in Ovarian Cancer Patients?

Version: 2 Date: 24 April 2015

Reviewer: Salma Butt

Reviewer's report:

This is a manuscript of great scientific importance and the aim and conclusion is of great interest.

Minor revisions:

1) The title is stated as a question. I personally like titles with questions however the use of these on research papers gives a somewhat to populistic impression. Consider revising.

2) The abstract starts with stating the aim instead of information on background. Moreover the aim is stated in a very long sentence that could be somewhat difficult to comprehend. Consider revising.

3) The Methods in the abstract is described in past tense. Consider revising.

Manuscript:

4) Background - in second paragraph, line 65, a referral to another research groups is done and then the results are discussed. Consider saving that discussion to the discussion part. The same comment for the next paragraph starting on line 79.

5) Line 93, "Our main goal...", consider revising to "aim".

6) Methods - what is the background to inclusion of peritoneal cancer with epithelial ovarian and fallopian tube cancer? Please explain in the manuscript.

7) Study endpoints - this paragraph is a bit difficult to understand. What does "/.../external medical record review /.../ mean? Where were the death-certificates retrieved from?

8) Line 117, consider revising the word "examined" to "studied"/"analysed".

9) Definition of covariates - the grouping within the parous women, please explain if women with one and two children were included in the same group in order to gain statistical power or for some other reason.

10) Analyses - please do explain left truncation in the methods section in order to make it clearer for the reader why this method was used.

11) Please explain why the multivariate models were constructed as they were - and please do discuss limitations under discussion.

12) Results - very clearly written.
13) Conclusions - revise title to Discussion. Add more discussion about the former studies (that are approached in the background of the manuscript) and discuss limitations of the multivariate analyses.

14) Tables - Table 1 - very easy to follow. Table 2 - easy to follow, however the non-significant data should also be published. Consider adding in an appendix table.

15) Figures - add box explaining what the different lines represent. Change the title on Y-axis to overall survival and progression-free survival. The figure legends should not add more statistical results. Revise.

**Level of interest:** An article of importance in its field

**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 have no competing interests.