Reviewer's report

Title: BRCA Mutations in a Cohort of Iraqi Patients Presenting to a Tertiary Referral Center

Version: 0 Date: 29 Apr 2019

Reviewer: Kamlesh Guleria

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1. In the introduction add information about BRCA1 and BRCA2 variants reported in Iraqi population.

2. In methods add how much blood sample was collect from each participant. Modify the lines 55 - 59 as "BRCA1 and BRCA2 genes were amplified using primers (Add list of primers used as supplementary Table). Amplified PCR products were checked on 2% agarose gel. The amplicons were purified (Add purification method) and sequenced on Genetic Analyzer (Add model of instrument used) using the BigDye Terminator Cycle Sequencing Ready Reaction Kit (Applied Biosystems, Foster City, CA).

3. Line 3-4 on page 4 "Modify this as reference sequences (BRCA1: RefSeq NM_007294; BRCA2: RefSeq NM_000059.3)

4. In the result section represent the mean age along with SD.

5. Rephrase the lines 36-49 as: "Two disease causing variants (c.224_227delAAAG and c.5431C>T) in BRCA1 and one (c.5576_5579delTTAA) in BRCA2 was observed in the present study (Table 2). Three variants of undetermined significance (VUS) in BRCA1 (c.536A>G, c.1458T>G, c.1648A>C) were observed in two patients where as one patient had one VUS in BRCA2 (c.1075G>A) (Table 3).

6. In results please specify whether the mutations are observed in familial cases or in sporadic cases.

7. In Table 1 add types and stages of cancer

8. Delete column Nomenclature protein and Population previously reported form Table 2 and Nomenclature protein and Number of patients with mutation from Table 3. Compile the data of Table 2 and 3 in one table.
9. Append the electropherograms of observed variants.

10. Discussion part needs reorganization of data. Correlate the results of present study with published data.

11. Keep uniform pattern as per Journal in reference list.

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.

Unable to assess

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.

Not relevant to this manuscript

Quality of written English
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published
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