Reviewer’s report

Title: FANCM and RECQL genetic variants and breast cancer susceptibility: relevance to South Poland and West Ukraine

Version: 0 Date: 03 Nov 2017

Reviewer: Gulsah Cecener

Reviewer's report:

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In the current study, the authors mentioned about gene panel tests, but they did not clearly state why they choose these genes. Although the technology is suitable for further genetic studies, the study is restricted to the FANCM and RECQL genes. Was other penetrance breast cancer genes such as CHEK2 and PALB2 included in the panel? Although the number of patients is sufficient, the data are not well expressed because the findings are not supported by histopathological and clinical data.

There are several major weaknesses in this manuscript:

1- Family history pedigrees of identified mutations should be added as table.

2- In the method section, only the histologic typing of the disease was performed, but the clinical findings were not presented.

3- Additionally, clinical and histopathological data need to be presented in a comprehensive table. Mutations that may influence clinical phenotypes and genotypes should be added as table.

4- The hypothesis was not sufficiently original and performed for screening purposes.
Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Unable to assess

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

No

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 am able to assess the statistics

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

Needs some language corrections before being published

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