Reviewer’s report

**Title:** The association between non-breast and ovary cancers and BRCA mutation in first- and second-degree relatives of high-risk breast cancer patients: a large-scale study of Koreans

**Version:** 0  **Date:** 23 Nov 2018

**Reviewer:** Magdalena Ratajska

**Reviewer's report:**

This study is interesting, although it provides somewhat expected results: of course, BRCA1/2 positive families are likely to reveal the incidence of other primary cancers. Nerveless, the presented numbers are interesting and important.

However, I have some comments regarding the manuscript:

1) The article needs some language improvement, additionally, it should be reorganized in order to become more understandable.

2) Authors should avoid phrases like: "Hazardous mutation" (the correct form is "pathogenic variant")

3) By "affected person" we usually understand an individual who has already developed the disease, while in here authors use the term "affected" to describe someone being a carrier of BRCA1/2 mutation.

4) The gene name must be written in Italic.

5) "The genetic mutations analyzed were confined to deleterious mutations, such as frameshift or nonsense mutations, in accordance with the breast cancer information core database ([http://research.nhgri.nih.gov/bic](http://research.nhgri.nih.gov/bic))."

The correct classification of detected variants is a critical part of the diagnostic process; therefore it is unacceptable to make such decisions based on BIC database alone. BIC debase is a valuable source of information, however, it should be completed with other bioinformatical tools, including ClinVar, VarSome, Alamut, etc… Please refer to the recommendations of the American the College of Medical Genetics and Genomics (ACMG)

In conclusion, this manuscript might be of interest to genetic counselors and clinicians, however, it required editing.
**Level of interest**
Please indicate how interesting you found the manuscript:

An article whose findings are important to those with closely related research interests

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

Needs some language corrections before being published

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