Reviewer’s report

Title: Polymorphism of Estrogen Receptor-Beta Gene in Iranian women with Breast Cancer

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Reviewer: Ivana Beatrice da Cruz

Reviewer’s report:

The case-control study that analyzed the possible association between the Polymorphism of Estrogen Receptor-Beta Gene and breast cancer is very interesting. However, there are important concerns that need to be extensively reviewed before my final consideration.

Major Compulsory Revisions:

The manuscript presents problems of language that make it difficult to read especially in the results section. The Discussion section The graph shown in Figure 1 is badly formatted or presented problems when it was inserted in the text preventing an analysis of its contents. Table 6 present estimated risk for some demographic variables with estrogen receptor B-exon 7, codon 392 in different genotypes. I don't understand why the OR to breast cancer condition is not presented to heterozygotes if p value is <0.029? The authors need to explain this question or add this information in Table.

The discussion is very confusing and needs to be reformulated. The authors could start commenting on the results before informing previous studies that observed an association between the polymorphisms studied and other diseases. As the sample size is relatively small, especially for the low frequency of heterozygotes would be important to include a paragraph commenting that this is a exploratory study and that of its methodological limitations is the small number of individuals.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Not suitable for publication unless extensively edited

Statistical review: No, the manuscript does not need to be seen by a statistician.