Reviewer's report

Title: Polymorphisms in Cyclooxygenase-2 gene and breast cancer risk in Brazilians: a case-control study

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Reviewer: David Cox

Reviewer's report:

The majority of my original comments are adequately addressed in the revised manuscript. However I would suggest that both the conclusion paragraph in the discussion and table 6 be reworked. The conclusion that can be drawn from this work is that variants in the promoter and 3' UTR of PTGS2 do not appear to greatly influence breast cancer risk in the Brazilian population. The authors should state the lower bound of ORs that they would be able to detect given the power of the study. The discussion of haplotypes in the context of conclusions is pointless. Particularly as the way the authors have presented the haplotypes in Table 6 is analogous to an allelic test for the 8473 polymorphism. The association statistics for each haplotype can and should be presented.

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

Quality of written English: Acceptable

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

Declaration of competing interests:

I declare that I have no competing interests.