Reviewer's report

Title: uPA is upregulated by high dose celecoxib in women at increased risk of developing breast cancer

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Reviewer: William Dooley

Reviewer's report:

This is a well written paper describing a pilot clinical trial to test biomarkers which could be associated with celecoxib chemoprevention. The researchers are to be congratulated for their efforts to show potential biologic mechanism for celecoxib action but give us no data on more traditional chemoprevention clinical markers such as proliferation rate markers. The study is well designed and an excellent pilot to further celecoxib prevention studies.

1. Is the question posed by the authors well defined? Yes
2. Are the methods appropriate and well described? excellent
3. Are the data sound? Small but well done study with no doubts about validity
4. Does the manuscript adhere to the relevant standards for reporting and data deposition? yes
5. Are the discussion and conclusions well balanced and adequately supported by the data? Yes with the reservation listed above about lack of allied proliferation rate studies on cells from these high risk breasts.
6. Are limitations of the work clearly stated? As above
7. Do the authors clearly acknowledge any work upon which they are building, both published and unpublished? Excellent job of referencing related work
8. Do the title and abstract accurately convey what has been found? yes

Recommendation - Accept without reservation

Level of interest: An article of importance in its field

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'