Reviewer's report

Title: Effects of Androgen Deprivation on Brain Function in Prostate Cancer Patients - A Prospective Observational Cohort Analysis

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Reviewer: Isaac Kim

Reviewer's report:

In this manuscript, the authors attempt to address the effect of androgen deprivation on brain function. The question is of high importance in prostate cancer. This said, the manuscript is not ready for publication due to the following reasons:

Major:
1. There is no clinical connection to the change in fMRI. What is the importance of the MRI finding if there is no measurable clinical effect?

2. The study duration is short. Is 6 months really enough to see the effects of androgen deprivation on the brain?

Minor:
1. In table 1, the baseline Testosterone levels should be specified.

2. The control is not shown in Fig 3.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.