Reviewer’s report

Title: A prospective study of magnetic resonance imaging and ultrasonography (MRI/US)-fusion targeted biopsy and concurrent systematic transperineal biopsy with the average of 18-cores to detect clinically significant prostate cancer

Version: 0 Date: 14 Jun 2017

Reviewer: Mark Emberton

Reviewer’s report:

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There are many studies like this appearing in the literature. This one is unusual in that TRUS biopsy proved more efficient at identifying clinically significant PC compared to MRI targeted biopsy. This is one of the few studies to show this. All the prospective, Level 1, randomised studies show the opposite. The authors seem not to want to address this.

I suspect the reason for this is the choice of the Epstein end point, though one cannot be sure. There may be other reasons and the authors might wish to explore this.

The references seem out of date. The recently published PROMIS study (Lancet, 2017) has not been included not have some of the other RCTs that address the same issue – Panebianco and Porpiglia.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
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Yes

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If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

Not relevant to this manuscript

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Acceptable

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