Reviewer's report

Title: Computer-aided transrectal ultrasound: Does prostate HistoScanningTM improve detection performance in repeat biopsies?

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Reviewer: Ahmet Kursad Poyraz

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Computer-aided transrectal ultrasound: Does prostate HistoScanning improve detection performance in repeat biopsies?

This is a well organized, concisely written paper dealing with a novel technique, with some pending revisions.

Major Compulsory Revisions

1. One concern of this current manuscript is the subjects are the men at risk of prostate cancer who had at least one previous set of TRUS-guided prostate Bx. Prior biopsy can produce false positive signals in histoscanning and reduce the accuracy.

Minor Essential Revisions

Title: OK

Abstract:

2. Change “objective” to “background”
3. Change “conclusion” to “conclusions”
4. Page 2, line 40: Please give the p value after the sentence “Detection rate in tBx was significantly higher”

Background:

5. Change title to background
6. Authors should add some information about Histoscanning.
7. Page 3, line 60: change “magnet resonance” to “magnetic resonance”

Patients and Methods:

8. Change title to methods
9. Did single operator perform all the histoscanning & biopsies and how many years of experience did operator had?
10. If different operators performed the histoscanning & biopsies what was the degree of inter operator variability?
Results and discussion:

11. There is a limitation of this study. The operator performed targeted Bx firstly and then standard Bx was performed. Knowing the abnormal regions of prostate before the standard Bx can affect the operator’s decision.

Conclusions:

12. Change title to conclusions

References:

13. Authors should rewrite the references according to BMC Urology reference style

Figures:

14. Authors should add some figures showing examples of histoscanning and targeting.

15. Please edit the manuscript for punctuation.

**Level of interest:** An article of limited interest

**Quality of written English:** Needs some language corrections before being published

**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