



**ESPS PEER-REVIEW REPORT**

**Name of journal:** World Journal of Radiology

**ESPS manuscript NO:** 30216

**Title:** Clinical significance of prostate 18F-FDG uptake on PET/CT: A five-year review

**Reviewer’s code:** 02445638

**Reviewer’s country:** United States

**Science editor:** Jin-Xin Kong

**Date sent for review:** 2016-09-23 18:01

**Date reviewed:** 2016-10-22 04:37

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input checked="" type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C: Good		<input type="checkbox"/> Duplicate publication	
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade E: Poor		<input checked="" type="checkbox"/> No	<input type="checkbox"/> Minor revision
	<input type="checkbox"/> Grade D: Rejected	BPG Search:	<input type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

**COMMENTS TO AUTHORS**

Chetan, et al. have made a retrospective study examining the clinical significance of 18F-FDG uptake in men undergoing PET-CT for other indications. Fifteen patients were identified from a five year period of time in hospital databases that had both PET-CT and MRI for the prostate with histopathology reports. SUVmax and SUVmean were determined for F18-FDG in prostates divided into six sectors, measured blindly with respect to the MRI and histopathology. Age matched controls were selected and results were compared using a paired t-test and one way ANOVA. PET-CT reports were also searched for incidental uptake in the prostate and patient follow up. The authors found a trend towards increased F18-FDG uptake in biopsy proven prostate cancer, that was neither clinically nor statistically significant. There was no correlation with histological grading, and F18-FDG uptake was comparable to controls. In patients with incidental uptake no cases of prostate cancer were diagnosed. The major conclusion of the study is that patients in this cohort found with incidental F18-FDG uptake in the prostate when being screened for other indications, did not indicate the presence of prostate cancer. The reporting of incidental uptake did not affect subsequent clinical management of any patients. Since there is low clinical utility of F18-FDG in distinguishing between



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benign and malignant tumors, the authors suggest there is little benefit in investigating elevated F18-FDG under these circumstances. The conclusions of the authors are reasonable, and clinically relevant. They mention that the sample size is small and that future prospective studies should be done. I was curious when reading this study how well elderly men tolerated PET-CT in general. This is not the focus of the study however it could be easily addressed in a sentence or two.



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**Reviewer's code:** 00666284

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		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

### COMMENTS TO AUTHORS

This is an interesting study which investigates the clinical significance of incidental FDG uptake. Although the number of eligible patients was small, this is an well written retrospective study. However, the authors need to revise tables concisely.