ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Radiology
ESPS manuscript NO: 32332
Title: Diffusion magnetic resonance imaging: A molecular imaging tool caught between hope, hype and the real world of "personalized oncology"
Reviewer's code: 03573360
Reviewer's country: Portugal
Science editor: Fang-Fang Ji
Date sent for review: 2017-01-04 19:42
Date reviewed: 2017-01-10 22:22

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
[ ] Grade A: Excellent	[ ] Grade A: Priority publishing	Google Search:	[ ] Accept
[Y] Grade B: Very good	[Y] Grade B: Minor language polishing	[ ] The same title	[ ] High priority for publication
[ ] Grade C: Good	[ ] Grade C: A great deal of language polishing	[ ] Duplicate publication	[ ] Rejection
[ ] Grade D: Fair	[ ] Grade D: Rejected	[ ] Plagiarism	[Y] Minor revision
[ ] Grade E: Poor		[Y] No	[ ] Major revision
		BPG Search:	
		[ ] The same title	
		[ ] Duplicate publication	
		[ ] Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

The manuscript deals with diffusion magnetic resonance imaging as valuable tool and the developments regarding the technique. The manuscript is well written, in general, and represents a good addition for those interested in the field. The presentation is concise and clear, with appropriate references. I advise its publication, posing just a few remarks on the manuscript, as below: 1-On "introduction", authors state: "DWI is one of the most recent, reliable and robust imaging biomarkers for oncological imaging (1, 4, 5)." Are the numbers (1,4,5) references? If so, please use the Journal guidelines for referencing. The same applies at the end of the paragraph. 2-On "basic principle" authors state:"The magnitude of diffusion weighting is denoted by the 'b value', which depends on the amplitude, separation and duration of the diffusion gradients." Please explain b value for non-specialists. An additional reference would be welcome. 3-Beware of the use of British English vs American English One example: The words "embolization" and "embolisation" appear both in the text. Please choose one style and keep consistency.   4-References are not in acceptable format. Please follow the Journal guidelines carefully.   5-Each figure should have the corresponding proper

citation reference.

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Name of journal: World Journal of Radiology
ESPS manuscript NO: 32332
Title: Diffusion magnetic resonance imaging: A molecular imaging tool caught between hope, hype and the real world of "personalized oncology"
Reviewer's code: 00289529
Reviewer's country: United Kingdom
Science editor: Fang-Fang Ji
Date sent for review: 2017-01-04 19:42
Date reviewed: 2017-01-24 21:37

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
[ ] Grade A: Excellent	[Y] Grade A: Priority publishing	Google Search:	[ ] Accept
[ ] Grade B: Very good	[ ] Grade B: Minor language	[ ] The same title	[ ] High priority for
[Y] Grade C: Good	polishing	[ ] Duplicate publication	publication
[ ] Grade D: Fair	[ ] Grade C: A great deal of	[ ] Plagiarism	[ ] Rejection
[ ] Grade E: Poor	language polishing	[Y] No	[ ] Minor revision
	[ ] Grade D: Rejected	BPG Search:	[Y] Major revision
		[ ] The same title	
		[ ] Duplicate publication	
		[ ] Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

The paper could be a good opportunity for CPD session in a) radiology Drs in training and b) non radiology specialists or in training , e.g. radiation oncologists or oncologic surgeons The paper should be re-written targeting the above two target "populations". Also it should be more educational, therefore 1) some more explanations should be given regarding the specific for MRI   terminology 2) more detailed physics background on DWI technique--I found their figure 1 confusing 3) a better and simple explanation of the b-values and their clinical meaning 4) Mention the usefulness of DWI as a SCREENING METHOD in asymptomatic population e.g. in prostate cancer. 5) as a tool that could potentially replace biopsy (prostate etc)

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Name of journal: World Journal of Radiology
ESPS manuscript NO: 32332
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Reviewer's code: 00058381
Reviewer's country: Austria
Science editor: Fang-Fang Ji
Date sent for review: 2017-01-04 19:42
Date reviewed: 2017-01-28 23:14

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
[ ] Grade A: Excellent	[ ] Grade A: Priority publishing	Google Search:	[ ] Accept
[ ] Grade B: Very good	[Y] Grade B: Minor language polishing	[ ] The same title	[ ] High priority for publication
[Y] Grade C: Good		[ ] Duplicate publication	
[ ] Grade D: Fair	[ ] Grade C: A great deal of language polishing	[ ] Plagiarism	[ ] Rejection
[ ] Grade E: Poor		[Y] No	[ ] Minor revision
	[ ] Grade D: Rejected	BPG Search:	[Y] Major revision
		[ ] The same title	
		[ ] Duplicate publication	
		[ ] Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

Major Comment: The division of this overview into detailed chapters on "head and neck tumors", "breast tumors", etc., makes it a bit cumbersome for the reader. This part could be handled more concisely, and on the other hand, future aspects could be elaborated.   Minor Comments: Please check the figure legends: Figure 4: "short red arrow" – No red arrow is visible. Figure 6: Please provide the diagnosis of this patient.   Figure 9: "black arrow" – No black arrow is visible.   Figure 12: "asterix" -> asterisk. Figure 13:   "The soft tissue mass also showed restricted diffusion suggestive of infiltrative by the tumoral mass and not reactive inflammation (orange line representing inferior extent)." – Please improve this sentence. Text: Introduction: (1, 4, 5) -> [1, 4, 5]. "Gastrointestinal Tumors", line 8: "desmosplastic" -> desmoplastic. A list of abbreviations would be helpful. Stylistic and linguistic revision is required.

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Name of journal: World Journal of Radiology
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Title: Diffusion magnetic resonance imaging: A molecular imaging tool caught between hope, hype and the real world of "personalized oncology"
Reviewer's code: 00289471
Reviewer's country: Italy
Science editor: Fang-Fang Ji
Date sent for review: 2017-01-04 19:42
Date reviewed: 2017-02-05 19:45

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
[ ] Grade A: Excellent	[Y] Grade A: Priority publishing	Google Search:	[ ] Accept
[ ] Grade B: Very good	[ ] Grade B: Minor language	[ ] The same title	[ ] High priority for
[ ] Grade C: Good	polishing	[ ] Duplicate publication	publication
[Y] Grade D: Fair	[ ] Grade C: A great deal of	[ ] Plagiarism	[ ] Rejection
[ ] Grade E: Poor	language polishing	[Y] No	[ ] Minor revision
	[ ] Grade D: Rejected	BPG Search:	[Y] Major revision
		[ ] The same title	
		[ ] Duplicate publication	
		[ ] Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

This is a hot topic but I think that the article is not very well organized, basic principles is explained in a way that if you don't already know it you don't understand it. The list of applications of DWI in in oncology divided for body districts is long and at the same time shallow, I wonder how much can become part of the new knowledge of the reader. The section advance is much more useful more details in this part . Some acronyms are not defined in the text. The chapter Stretched exponential DWI requires further explanation to become understandable for radiologist not yet using this technique.

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Name of journal: World Journal of Radiology
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Title: Diffusion magnetic resonance imaging: A molecular imaging tool caught between hope, hype and the real world of "personalized oncology"
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Reviewer's country: China
Science editor: Fang-Fang Ji
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CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
[ ] Grade A: Excellent	[Y] Grade A: Priority publishing	Google Search:	[ ] Accept
[Y] Grade B: Very good	[ ] Grade B: Minor language	[ ] The same title	[ ] High priority for
[ ] Grade C: Good	polishing	[ ] Duplicate publication	publication
[ ] Grade D: Fair	[ ] Grade C: A great deal of	[ ] Plagiarism	[ ] Rejection
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	[ ] Grade D: Rejected	BPG Search:	[ ] Major revision
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		[ ] Duplicate publication	
		[ ] Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

I would like to give two suggestions to improve the manuscript. Firstly, the authors would explain more clearly what the relationship between the personalized oncology and DWI. Secondly, concerning the recent development of DWI, the authors would include the introduction of diffusion kurtosis imaging, which also has been shown to be a potent potential imaging biomarker in clinic.