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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Radiology

ESPS manuscript NO: 22882

Title: Molecular imaging of movement disorders

Reviewer's code: 00182654

Reviewer's country: Taiwan

Science editor: Shui Qiu

Date sent for review: 2015-10-03 10:42

Date reviewed: 2015-10-08 14:53

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

COMMENTS TO AUTHORS

This is a well written review article which provides abundant and useful informations for the readers. However, some revisions are needed before this paper can be considered for publication. 1. More than ten kinds of PET and SPECT radiopharmaceuticals are introduced in this manuscript. However, only one figure of [18F]FPCIT brain image was provided. Please provide more figures with regard to these radiopharmaceuticals. 2. The arthors mentioned some DAT tracers for SPECT scan such as 123I-IBZM, 123I -beta-CIT and 123I -FPCIT (DaTScan?). However, an important Tc-99m labelled tracer - Tc-99m TRADAT-1 was missed.

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Radiology

ESPS manuscript NO: 22882

Title: Molecular imaging of movement disorders

Reviewer's code: 00713469

Reviewer's country: Italy

Science editor: Shui Qiu

Date sent for review: 2015-10-03 10:42

Date reviewed: 2015-10-12 17:11

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 checked="" 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 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 type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Minor revision
		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

GENERAL COMMENTS The authors provide a review concerning the current evidence for the use of PET/CT and SPECT in evaluating movement disorders (MD), with particular regard to tremor, chorea, dystonia, tics, and parkinsonism. The design and the aim of the study are appropriate. As stated by the authors, there are several studies on PET/CT and SPECT scan regarding diagnosis, etiology, and disease progression of MD. However, the recognition of asymptomatic and progressive disease by molecular imaging could constitute an opportunity for the implementation of novel therapies at early stages of the disease, also considering that molecular imaging techniques provide useful neurochemical informations. In this way, they can individuate the specific pattern of MD, unlike morphological imaging such as Magnetic Resonance. **SPECIFIC COMMENTS** Title: it gives a clear delineation of the paper's structure. Abstract: is too long. The introduction section has been structured correctly traducing expectation. Individual paragraphs about the most common MD are well done and well written. In particular, Parkinsonism section is properly focused on differential diagnosis, and it is also supported by a Table. Brilliant and appropriate, in accordance with the aim of the review, the paragraphs about the "treatment" and "future directions for molecular imaging in



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movement disorders". References: have been well listed as required by the journal policy. Figure: suitably showed, basing on the most frequent pattern of MD.