



SDI Review Form 1.6

Journal Name:	<u>Cardiology and Angiology: An International Journal</u>
Manuscript Number:	2015_CA_18110
Title of the Manuscript:	Non Linear analysis of Heart Rate variability improves differential diagnosis between Parkinson Disease and Multiple System Atrophy
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	Introducing nonlinear techniques for determining the HRV is increasingly used for diagnose of diseases that are related or are the result of autonomic dysregulation. Description will become more sensitive than the linear method, what was demonstrated also in this work. The paper is written clearly and I do not have serious comments.	Thank you
Minor REVISION comments	The authors describe NL HRV parameters, but for the reader is not clear, what it means. Only one example: Poincare' plot (<i>sd1</i> that describes short-term variability; <i>sd2</i> that describes long-term variability; <i>sd1/sd2 ratio</i> that is a measure of the interaction between short-term and long-term variability). If they are parameters indicating of ANS activity, it would be appropriate to describe, on the base of their changes, what is the functional status of the ANS? Thus described parameter for the reader, who does not deal with the evaluation of HRV, gives no information value.	The possible physiological meaning of the NL HRV parameters has been more detailed, including also four new references. Some explanation have been also given in the discussion section. However, since clinical experience with the analysis of HRV complexity in parkinsonian patients is still limited, it is difficult at the moment to speculate in more detailed about their physiological significance.
Optional/General comments	Don't repeat the same 2 times. It is the ethical principles, mentioned in the methods (lines 92-94) and repeated at the paper end (lines 285-293).	The repetitions for informed consent and Helsinki declaration was due to the instruction format. However we agree and have deleted the repetitions at the end of the manuscript.