Reviewer’s report

Title: Association between -T786C NOS3 polymorphism and resistant hypertension: A prospective cohort study

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Reviewer: valeria C. sandrim

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MAJOR COMPULSORY REVISIONS

The article submitted by Cruz-Gonzalez and colleagues are well written, simplifying the study understanding. The aim was to investigate if the promoter (-786T>C) and exon 7 (G894T / Glu298Asp) polymorphisms of the eNOS gene are associated with resistant. The question posed by authors was well defined, however a improved literature review is extremely necessary, including, for example, recent articles evaluating eNOS in resistant hypertension (Sandrim et al, 2006), functional effects of eNOS variants (Joshi MS, 2007), etc. Moreover, it is essential to add in results section the clinical patient characteristics. About the results found by authors, if it be consider a Bonferroni correction (P=0.05/2=0.025) the difference found by authors would be not significant. At least, this may be including in discussion. How the power calculation was done? Finally, the authors genotyped only hypertensives subjects, and information about normotensives frequencies (healthy subjects) are lacking. The authors should include this group in the study and/or put in discussion some information about the eNOS polymorphism in Spanish healthy population.

Level of interest: An article of limited interest

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:

I declare that I have no competing interests