



SDI Review Form 1.6

Journal Name:	<u>Cardiology and Angiology: An International Journal</u>
Manuscript Number:	2013_CA_8482
Title of the Manuscript:	Evaluation of arterial pulse amplitude ratio and Valsalva ratio in different age groups
Type of the Article	Short 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	Generally, the topic of the study is interesting and it is related to the evaluation of cardiovascular parameters in autonomic test – Valsalva manoeuvre (VM) in different age groups. Major points: Part Abstract and Introduction: 1. The authors should clearly specify the changes in blood pressure during VM different phases separately for systolic and diastolic blood pressure. 2. The previous relevant published studies regarding normal values of the parameters characterizing VM in different age-periods are missing. 3. Why did the authors use the term “arterial” and consequently “aortic” pressure? 4. I recommend to include the aim of the study (also in Abstract) 5. Keywords in the Abstract are missing Part Methods: 1. The authors should clearly define the studied group characteristics (including mean age, female/male...), inclusion as well as exclusion criteria (for example, it is not clear the selection of the probands - clinical examination by specialist, cardiologist?; it is not described the method for hyperlipidemia sssessment, etc).	Thanks a lot for your efforts and scientific notes; i worked hardly to fix the manuscript according to your instructions. 1-We cannot evaluate blood pressure through all phases of VM because we do not use direct invasive technique that detect every sudden changes in blood pressure. 2-Yes, i search for that and i found study that evaluated VM in different gender and different age groups and i added it . 3-i corrected it. 4,5-Done 1-Yes,done. Clinical examination was done by cardiologist who is one of the authors of this paper. Hyperlipidemia was assessed by taking blood sample and send it to the hospital lab for measuring total lipid profile (cholesterol, triglycer.,LDL,VLDL,HDL) any subject with abnormal results excluded from the study. 2-Auscultatory method. Yes ECG recording was continuous and i added a



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	2. Please specify the method for blood pressure measurement (auscultatory?) and indicate whether the ECG recording has been a continuous 3. It is discrepancy between equation for pulse amplitude ratio - in the Methods is calculated as minimumBP/maximum BP, in the Results min/max. pulse pressure. Please to explain this difference 4. Please correct the formal point of this section Part Results: 1. RR intervals should be expressed in ms. 2. In Figure 1, the values of VM and pulse amplitude ratio are without significant changes and in the Figure legend is written $p < 0.05$. Please correct it. 3. I recommend to include the values of systolic and diastolic blood pressure in both groups due to the mentioned significant (?) difference between these values Part Discussion: Several suggested mechanisms regarding blood pressure and aging are adequate. However, the last paragraph discussion is written confusedly; it is necessary to correct it. I recommend to insert new studies related to the comparison of Valsalva ratio/other autonomic markers with published results. Please check and correct the text from the formal point	reference for that. 3-Yes i correct it. 4-Done. 1-Yes i change it by multiplying R-R intervals in small square with 0.04 ms , i measured the Valsalva ratio again and it was the same results. 2-Done 3-Done and i insert a new table to illustrate the results. Yes I rewrite this part according to your instruction. Done.
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<u>Minor</u> REVISION comments	Minor points: - explain the abbreviations in the text - the references should be modified uniformly according to instruction for authors - Please include SD or SEM in Figure 1	Yes,done.
<u>Optional/General</u> comments	I recommend to insert a provision stating that this work was performed in accordance with the ethical principles of Declaration of Helsinki The statement regarding signed informed consent of subjects in this study is missing	Done. Thanks again for your scientific notes.