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PEER-REVIEW REPORT

Name of journal: World Journal of Cardiology

Manuscript NO: 36002

Title: Endothelin-1 activation in pediatric patients undergoing surgical coarctation of the aorta repair

Reviewer's code: 00227375

Reviewer's country: Japan

Science editor: Fang-Fang Ji

Date sent for review: 2017-08-25

Date reviewed: 2017-08-31

Review time: 6 Days

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 checked="" 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"/> No	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		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

This is an interesting manuscript about the association between endothelin-1 (ET-1) levels and ventricular remodeling in patients with coarctation of the aorta undergoing surgical repair. There was a strong positive correlation between pre-op ET1 and relative wall thickness in the subset of neonates. This manuscript is nicely structured and well written. I have no question about this manuscript.



PEER-REVIEW REPORT

Name of journal: World Journal of Cardiology

Manuscript NO: 36002

Title: Endothelin-1 activation in pediatric patients undergoing surgical coarctation of the aorta repair

Reviewer's code: 01204088

Reviewer's country: Japan

Science editor: Fang-Fang Ji

Date sent for review: 2017-08-25

Date reviewed: 2017-09-03

Review time: 8 Days

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input 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 type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input 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 type="checkbox"/> No	

COMMENTS TO AUTHORS

Frank BS et al. determined endothelin-1 (ET-1) concentration before and after surgical coarctectomy and evaluated its association with left ventricular geometric change. Although this study is interesting, there are several concerns for the manuscript. ET-1 will not be a causative for coarctation of the aorta, and will be a peptide hormone that concentration change according to the circumstances. ET-1 level will change due to hemodynamic changes before and after surgery. Many peptides such as ET-1, BNP, NT-pro-BNP, sICAM-1, sVCAM-1, E-selectin, sFas-ligand, and IL-10 might be elevated in preoperative coarctation of the aorta. If possible, studies on changes of the other peptides will be appreciated. At least, showing changes of BNP or NT-pro-BNP levels will be required. Page 6, line 31-33. and Page 8, line 15-17. Echocardiogram after 24-72 hours will not be enough to evaluate left ventricular geometric change associated with



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changes of EF-1 level. At least, echocardiogram and ET-1 level after 7days and 1 month will be necessary for evaluation. Page 8, line 19-25. Patients with ET-1level less than 2 pg/ml is 1 in Fig 2 a) and 3 in Fig 2 b). Is it appropriate to statistically analyze the parameters in these small number of patients? Page 9, line 10-14. Showing presence or absence of PDA, PA pressure, and LA pressure in each subgroup will be appreciated. Page 8, line 1-12. Showing normal vlues of ET-1 in naonates, older infants, and older children in your fascility will be appreciated. Table 2. Showing normal values of each parameters will be appreciated.



PEER-REVIEW REPORT

Name of journal: World Journal of Cardiology

Manuscript NO: 36002

Title: Endothelin-1 activation in pediatric patients undergoing surgical coarctation of the aorta repair

Reviewer's code: 02519915

Reviewer's country: Italy

Science editor: Fang-Fang Ji

Date sent for review: 2017-08-30

Date reviewed: 2017-09-04

Review time: 5 Days

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input checked="" 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 checked="" type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Plagiarism	<input 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

1. The Authors affirm that late after CoA repair blood levels of ET1 remain significantly higher than control groups because of a single study cited. However, there is another study (A.C. Moutafi et al. / International Journal of Cardiology 159 (2012) 211-16) showing no significant difference in levels of ET1 late after CoA repair. Interestingly, the same study showed a positive correlation with the years after repair and the patients' age at repair. This is concordant with the findings in the current study therefore is matter of interest. 2. A recently published study has showed new insight in the topic and should be cited in the current manuscript (Cardiovascular Research (2017) 113, 1329-337 Enhanced endothelin-1/Rho-kinase signalling and coronary microvascular dysfunction in Hypertensive myocardial hypertrophy) 3. In Materials and Method the primary endpoint of the study should be clarified. 4. Authors describe subgroup analysis looking



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at Pulmonary Artery Pressure correlation with serum ET1 levels. However, PAPS is not shown in tables and figures. I suggest PAPS to be added in table 2 with others echocardiographic parameters. 5. Measure units should be specified in tables. In table 1 weight preop is 7,9 whether wieght postop is 80. 6. Figure 1 shows mean serum ET 1 concentrations and superior SD. I suggest to use boxplot graphic with median and interquartile values. 7. No control population could be a strong limitation of the study results.



PEER-REVIEW REPORT

Name of journal: World Journal of Cardiology

Manuscript NO: 36002

Title: Endothelin-1 activation in pediatric patients undergoing surgical coarctation of the aorta repair

Reviewer's code: 03491752

Reviewer's country: Jordan

Science editor: Fang-Fang Ji

Date sent for review: 2017-08-30

Date reviewed: 2017-09-16

Review time: 17 Days

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input 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
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<input type="checkbox"/> Grade E: Poor		[Y] No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

Dear the authors I want to thank you for the good work you did in writing this manuscript I have no concerns