

ESPS Peer-review Report

Name of Journal: World Journal of Cardiology

ESPS Manuscript NO: 8597

Title: A Pathogenic Role for Interferon-gamma And Other Inflammatory Mediators in Cardiomyocyte Signaling during Chagas disease Cardiomyopathy

Reviewer code: 01954061

Science editor: Huan-Huan Zhai

Date sent for review: 2013-12-31 10:40

Date reviewed: 2014-02-09 02:53

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	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"/> Existed	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C (Good)	<input type="checkbox"/> Grade C: a great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D (Fair)	<input type="checkbox"/> Grade D: rejected	<input type="checkbox"/> Existed	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)		<input type="checkbox"/> No records	<input checked="" type="checkbox"/> Major revision

COMMENTS TO AUTHORS

Introduction comment from article: "Regardless of the mechanisms underlying the initiation and maintenance of the myocarditis, the bulk of the evidence indicates that the inflammatory infiltrate is a significant effector of heart tissue damage." Comment: This statement requires references in order to be believable. I can see that the ensuing text does attempt to do that. Perhaps the above statement could conclude by saying, "...as outlined in the following paragraphs." This section: "IFN- γ : A Yin-Yang mode of action in Chagas disease" "The concept of Yin and Yang is deeply rooted in Chinese philosophy. It describes the reach for balance and harmony. According to the Chinese philosophical concept, there are two opposing forces named Yin and Yang, which are constantly trying to gain the upper hand over each other [35]. IFN- γ and other cytokines as previously described for TNF- α [36] in the acute phase of infection by T. cruzi and other agents appears to follow this principle. A dual role for IFN- γ in pathogenesis and protection in chronic Chagas disease was also..." Comment: Introducing the "Yin-Yang" idea seems to me to be rather distractive. It would be adequate and keep the attention focused by simply talking about the "dual role...". Documentation for this concept is well-referenced. The title is appropriate, attractive, anticipatory. But the manuscript body does not convincingly present the "facts" suggested by the title. What the reader wants to see is the actual patient evidence for the specific role of interferon-gamma as well as comparison to other cytokines. Overall, I think the manuscript would be improved by showing peripheral levels of the various cytokines and chemokines in actual patient data. Perhaps this could be accomplished by a suitable Table illustrating the levels as compared with non-Chaga control patients.

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Name of Journal: World Journal of Cardiology

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Title: A Pathogenic Role for Interferon-gamma And Other Inflammatory Mediators in Cardiomyocyte Signaling during Chagas disease Cardiomyopathy

Reviewer code: 00646232

Science editor: Huan-Huan Zhai

Date sent for review: 2013-12-31 10:40

Date reviewed: 2014-02-15 21:49

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
[Y] Grade A (Excellent)	[Y] Grade A: Priority Publishing	Google Search:	[Y] Accept
[] Grade B (Very good)	[] Grade B: minor language polishing	[] Existed	[] High priority for publication
[] Grade C (Good)	[] Grade C: a great deal of language polishing	[] No records	[] Rejection
[] Grade D (Fair)	[] Grade D: rejected	[] Existed	[] Minor revision
[] Grade E (Poor)		[] No records	[] Major revision

COMMENTS TO AUTHORS

Excellent review article covering the topic in a smooth and easy way. Very few comments

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Title: A Pathogenic Role for Interferon-gamma And Other Inflammatory Mediators in Cardiomyocyte Signaling during Chagas disease Cardiomyopathy

Reviewer code: 02522696

Science editor: Huan-Huan Zhai

Date sent for review: 2013-12-31 10:40

Date reviewed: 2014-02-23 18:25

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	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"/> Existed	<input checked="" type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C (Good)	<input type="checkbox"/> Grade C: a great deal of	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D (Fair)	language polishing	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)	<input type="checkbox"/> Grade D: rejected	<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

This review analyzed the Chagas disease cardiomyopathy: a particularly aggressive inflammatory dilated cardiomyopathy that occurs decades after the initial infection with the obligate intracellular parasite *Trypanosoma cruzi* (T.cruzi) in 30% of infected individuals. The development of Chagas disease cardiomyopathy is associated with inflammation and activation of the immune system, with a local increased cardiac production of cytokines by the heart-infiltrating T cells and other mononuclear cells. The review is interesting and clearly written. There are some minor suggestions: 1. The authors reported that “....Patients with Chagas disease cardiomyopathy have a progressive myocardial remodeling process with hypertrophy and fibrosis causing heart fiber damage, heart conduction abnormalities, arrhythmias, apical aneurysm, heart failure and sudden death....” The authors should explain the role of IFN- γ and TNF- α in the clinical presentations of Chagas disease. 2. The authors should insert a “clinical implication paragraph”, where explaining the clinical treatment of these patients. 3. The authors should explain the role of diagnostic examinations (i.e. echocardiography, cardiac magnetic resonance). 4. What is the flow chart diagnostics aimed at preventing heart failure and sudden death?

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Title: A Pathogenic Role for Interferon-gamma And Other Inflammatory Mediators in Cardiomyocyte Signaling during Chagas disease Cardiomyopathy

Reviewer code: 02521098

Science editor: Huan-Huan Zhai

Date sent for review: 2013-12-31 10:40

Date reviewed: 2014-02-26 10:09

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	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"/> Existed	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C (Good)	<input checked="" type="checkbox"/> Grade C: a great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input checked="" type="checkbox"/> Grade D (Fair)		BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)	<input type="checkbox"/> Grade D: rejected	<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

I am very glad to review this paper because the subject is interesting . However, the following questions should be revised again. Firstly, the title should be corresponding with the text. The title contains interferon-gamm , other inflammatory mediators and CCC, however, we do not find “Other Inflammatory Mediators” which should ?describe in the paper. Secondly, in this paper,?the?Yin Yang theory of traditional Chinese medicine?is not accurately deccribed. The essence of yin-yang theory is opposition and unity. The viewpoint “IFN-g: A Yin-Yang mode of action in Chagas disease ” is farfetched. Thirdly, there are some problems with sentence and spelling. Maybe native English speaker should be warranted to help you in revising the MS.