

PEER-REVIEW REPORT

Name of journal: World Journal of Cardiology

Manuscript NO: 60118

Title: The Effect of Trabeculated Myocardial Mass on Left Ventricle Global and Regional Functions in Noncompaction Cardiomyopathy

Reviewer's code: 02919566

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Associate Professor, Doctor

Reviewer's Country/Territory: Italy

Author's Country/Territory: Turkey

Manuscript submission date: 2020-10-15

Reviewer chosen by: Ya-Juan Ma

Reviewer accepted review: 2021-02-26 10:28

Reviewer performed review: 2021-03-02 19:51

Review time: 4 Days and 9 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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SPECIFIC COMMENTS TO AUTHORS

The paper of Yildirim and coll. is aimed to evaluate the relationship between the site of non compaction myocardium and left ventricular dysfunction. Previous studies have been published with the same aim. - In order to give an original contribution, considering the wide period of enrollment, the authors should provide how left ventricular function changed over the time. This could be very relevant in this field of research. - Please, provide more detailed data in the tables about left ventricular dimension and valve function. - Data about right ventricle should be provided - A table reporting clinical characteristics of patients enrolled should be added - Table 3 is a figure. The legends should be translated in English

PEER-REVIEW REPORT

Name of journal: World Journal of Cardiology

Manuscript NO: 60118

Title: The Effect of Trabeculated Myocardial Mass on Left Ventricle Global and Regional Functions in Noncompaction Cardiomyopathy

Reviewer's code: 05868138

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Turkey

Manuscript submission date: 2020-10-15

Reviewer chosen by: Ya-Juan Ma

Reviewer accepted review: 2021-02-28 09:48

Reviewer performed review: 2021-03-09 02:22

Review time: 8 Days and 16 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The manuscript aims to investigate the impact of the number of trabeculated segments and the trabeculation ratio on regional and global left ventricular functions. The distribution and ratios of trabeculations in apical, midventricular, and basal regions were examined in short-axis images obtained from CMR. The regional ejection fraction (EF) and global EF were calculated using the Simpson method in the left ventricle at apical, basal, and midventricular levels. The authors conclude that no global or regional relationship was observed between LV dysfunction and trabeculation rate or the number of trabeculated segments, and this limits the usefulness of change in LV functions in the differentiation between normal and pathological trabeculation. Overall, the article presents some novel imaging findings, but whether or not these are of interest to journal readership is an editorial decision. 1. The basic clinical data of the 65 patients diagnosed with LVNC who underwent CMR should be introduced in the manuscript. 2.

“Cardiac MRI images were retrospectively evaluated by a radiologist who was experienced with cardiac images using the standard approach on a Philips workstation.” How to ensure the objectivity of measurement data. 3. This retrospective study included 65 patients diagnosed with LVNC between January 2011 and August 2016. It was about five years ago, were there any patients with LVNC during the period? 4. Inclusion criteria and exclusion criteria should be listed in detail. 5. It's not just the p value, the statistical value should be listed in detail. 6. What are the limitations of the study? 7.

It's better to simplify the content of introduction.

PEER-REVIEW REPORT

Name of journal: World Journal of Cardiology

Manuscript NO: 60118

Title: The Effect of Trabeculated Myocardial Mass on Left Ventricle Global and Regional Functions in Noncompaction Cardiomyopathy

Reviewer's code: 00039411

Position: Editorial Board

Academic degree: MD

Professional title: Associate Professor, Staff Physician

Reviewer's Country/Territory: Argentina

Author's Country/Territory: Turkey

Manuscript submission date: 2020-10-15

Reviewer chosen by: Ya-Juan Ma

Reviewer accepted review: 2021-03-02 12:52

Reviewer performed review: 2021-03-11 18:06

Review time: 9 Days and 5 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input checked="" type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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SPECIFIC COMMENTS TO AUTHORS

The authors refers to the embriologic process of myocardial compaction. Although this is one of the hypothesis of the origin of the cardiomyopathy, there are other theories that should be mentioned (acquired or reactive process) Figures have name of patient and other details that allow patient identification. This is unacceptable. LVNC: LEFT VENTRICONE NON-COMPACTION CARDIOMYOPATHY, should be LEFT VENTRICLE... References are cited in different forms. Uniform criteria shoud be used.

This reference has no year of publication: Kohli SK, Pantazis AA, Shah JS, Adeyemi B, Jackson G, McKenna WJ, Sharma S, Elliott PM. Diagnosis of leftventricular non-compaction in patients with left-ventricular systolic dys- function: time for a reappraisal of diagnostic criteria? Eur Heart J 29:89-95. [PMID: 17993472 DOI: 10.1093/eurheartj/ehm481]