

Sandra Dunoon

From: onbehalfof+karakmcarthur+gmail.com@manuscriptcentral.com on behalf of karakmcarthur@gmail.com
Sent: Monday, 18 May 2015 9:21 PM
To: Chandan Kumar Karmakar
Cc: cdacso@bcm.edu
Subject: JTEHM-00020-2014 - review complete

Follow Up Flag: Follow up
Flag Status: Completed

Dear Dr. Karmakar

Your manuscript Analysing Systolic–Diastolic Interval interaction Characteristics in Diabetic Cardiac Autonomic Neuropathy Progression JTEHM-00020-2014 has been reviewed by the Journal of Translational Engineering in Health and Medicine editorial review board and the decision is MINOR REVISION.

Below are summary comments of the Journal of Translational Engineering in Health and Medicine editorial review board which indicate their concerns and the revisions they suggest to improve the scientific quality of your manuscript. Please revise the manuscript based upon the complete comments listed in the decision letter in Manuscript Central. Upload the revised version and a marked-up copy of the old version, highlighting all changes made.

You can use the following link to create your revision:
https://mc.manuscriptcentral.com/jtehm-embs?URL_MASK=bd19b06198294f7dbc437e46ab186717

We would strongly suggest that you enclose your response to the criticisms, outlining how you changed the manuscript. You may submit your comments, detailing the changes you have made, in the comments to Editor-in-Chief box, accessible when the manuscript is resubmitted.

We have adopted the policy that if a manuscript returned to an author for revision is not revised and returned to the editor within 30 days, we will administratively withdraw the manuscript. Therefore, if you cannot meet this deadline please inform our office immediately in order to accommodate your schedule. I hope you can carry out the revision quickly and return the material to me before the 30 days deadline (17-Jun-2015).

Also note that we only accept revisions through Manuscript Central (<https://mc.manuscriptcentral.com/jtehm-embs>). Additional instructions are below.

We appreciate your selection of the Journal of Translational Engineering in Health and Medicine to publish your work, and I look forward to receiving the revision.

Sincerely,

Clifford C. Dacso, MD, MBA, MPH
Atam P. Dhawan, PhD
Editors in Chief

*** PLEASE READ THIS ***

The comments below are a summary of all the comments and may not be complete. To see the complete review, log into manuscript central, go to the author center and click on 'Manuscripts with Decisions'. Click on 'view decision letter' under status.

Editor in Chief comments

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#EDITOR IN CHIEF_COMMENTS_TO_AUTHOR #

Associate Editor comments

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Associate Editor: Dacso, Clifford

Comments to the Author:

Please address all issues raised by both reviewers. Thank you for your submission. I am sorry about the delay in the review process.

Reviewer's Comments

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NOTE: Corresponding Author MUST check to see if additional comments were included as a downloadable file in the corresponding author's Author Center.

Reviewer: 1

Comments to the Author (IMPORTANT - If you are attaching comments to the author as a file, please make sure file names do not include any identifying information.) Thank you for your submission which provides an interesting a relevant approach to staging cardiac autonomic dysfunction. Please address the following.

It was not clear as to whether the TQRR measurement was extracted from the 10 minute tracing. Please clarify this in your methodology.

Would measurements from a 5 minute or 2 minute tracing or that obtained from a 12 lead be just as useful?

Why do you believe TQRR is superior to TQQT?

Reviewer: 2

Comments to the Author (IMPORTANT - If you are attaching comments to the author as a file, please make sure file names do not include any identifying information.) This paper presents interesting methods to diagnose and monitor CAN progression in diabetic patients from surface ECG analysis using SDI parameters.

Though the statistical analysis has shown the potential of characterization of progression, authors have not provided any discussion on the physiological basis of such differentiation in DCAN patients.

It is important to also elaborate the robustness of the method with a discussion on the sources of errors in clinical settings.

It is not clear how the subjects were diagnosed and labelled as CAN patients that are used as class labels for the data analysis.

Other issue is the sensitivity of analysis on the duration of measurements and number of leads used for ECG data collections. Authors should provide more discussion on the potential use and generalization of the presented method in clinical healthcare.

There are some statements in the paper that are not substantiated. For example, it is said that the presented method will help prognosis. Such claims are not discussed or studied in the paper. Please remove any such claim that has not been studied in the paper. The potential use and impact can be discussed based on the outcome of the analysis and its generalization.

NOTE ON DOWNLOADABLE REVIEW FILES:

The corresponding author may find these by:

(a) clicking on Manuscripts with Decisions

- (b) clicking on View Decision Letter at the bottom right
- (c) looking at the bottom of the letter for a link to the review files

RESUBMISSION INSTRUCTIONS

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In order to properly resubmit your manuscript, please follow the following instructions.

Please read them carefully. Not following these instructions will delay the review of your manuscript.

- go to <https://mc.manuscriptcentral.com/jtehm-embs> and login with the account the manuscript was originally submitted with
- you will find your manuscript under the "Manuscripts with Decisions" section.
- follow the steps by clicking on 'create a revision'