

Dear Reviewers,

Please find enclosed the edited manuscript in Word format (file name: 17019-edited.docx).

**Title:** Electrocardiographic Changes During Induced Therapeutic Hypothermia in Comatose Survivors After Cardiac Arrest.

**Authors:** Pablo Salinas, Esteban Lopez-de-Sa, Laura Pena-Conde, Ana Viana-Tejedor, Juan Ramon Rey-Blas, Eduardo Armada, Jose Luis Lopez-Sendon

**Name of Journal:** World Journal of Cardiology

**ESPS Manuscript NO:** 17019

The manuscript has been improved according to the suggestions of the Reviewers:

The authors would like to thank the careful revision by the reviewers. The manuscript was modified according to reviewer's suggestions, undoubtedly improving its quality. The changes were highlighted in red for easier tracking.

**REVIEWER CODE 00502828**

**#1 Incidences of arrhythmias during hypothermia are very dependent on the hypothermic procedures including the anesthetics or sedatives applied. Please mention how you induced hypothermia in detail: mean doses of drugs, cooling time and rewarming time.**

Sedative drugs were the same for all patients by protocol (midazolam, fentanyl, cisatracurium). A commentary was added in methods. Mean dosages were not recorded.

Cooling time was 24 hours for all patients (a clarification note was added in methods. The rewarming time was 12-24 hours, passive or using a slow rewarming rate (0.08 – 0.17 °C/hour) with Coolgard (methods).

**#2 Abstract/Conclusion “TH was safe with very low incidence of major arrhythmias.” Should be read “TH was safe with very low incidence of life-threatening arrhythmias.” Two sentences “Reversible prolongation of ECG intervals should be expected. Sinus bradycardia is another normal finding and should not be treated.” should be deleted.**

Life-threatening arrhythmias was used instead of major arrhythmias. Also, changes were made in the remaining manuscript.

The 2 sentences were changed for: “Main ECG changes were bradycardia and prolongation of PR, QRS and QT intervals”.

**#3 Table 1 Please add number of patients. This reviewer prefer a style, number (value %).**

The changes were made in Table 1 and 4

**#4 Discussion Page 12 the last paragraph The discussion about QTc interval was most important in this manuscript. It was written in an independent paragraph. Normal ranges that were defined in normothermic patients should not be applied**

The paragraph was separated into an independent one. Comments about normal ranges were deleted.

**REVIEWER CODE 02446734**

**1. The NHI guidelines i couldnt see anywhere, they need a mention in this topic.**

New references (8 and 9) with current guidelines were added.

**REVIEWER CODE 00060498**

**Table 1 needs explanation of brackets**

Brackets are standard deviation values, this explanation was added in the table legend.

**Difference between acute coronary syndrome and chronic coronary disease as cause of CA**

Details were given with a footnote in Table 1.

**Details of others/ unknown causes needed as cause of ca**

Details were given with a footnote in Table 1.

Sincerely yours,



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Answer to chief editor,

Please find attached the revised version of the manuscript. We made the changes suggested by the Chief Editor, adding a short paragraph and 2 additional references.

Best regards,

Pablo Salinas