



## PEER-REVIEW REPORT

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

**Manuscript NO:** 68610

**Title:** Sliding with the Sines: A Case Report of Life Threatening Hyperkalemia

**Reviewer's code:** 05937294

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor, Research Assistant Professor

**Reviewer's Country/Territory:** Iran

**Author's Country/Territory:** United States

**Manuscript submission date:** 2021-05-29

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-05-29 19:09

**Reviewer performed review:** 2021-05-30 17:24

**Review time:** 22 Hours

<b>Scientific quality</b>	<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 Grade E: Do not publish
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" 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 present an interesting study describing a case of acute rhabdomyolysis and renal failure that a patient who experienced cardiac arrest with moderate hyperkalemia despite medical treatment and hemodialysis. There are a few major issues that should be addressed by the authors before consideration for publication: 1. You claimed that early deterioration can occur during a hyperkalemia state. you need a more comprehensive literature review regarding the suggested time between these issues. Furthermore, you should mention the recommended approach in these patients as well as introducing yours. 2. The authors should explain how their findings make a difference for cardiologists around the world and the readers of the World Journal of Cardiology. In other words, what action do you think could have prevented his death that should be considered in further cases? More minor issues that should be addressed include: 1. Page 2, line 10, there is a pronoun problem here. Please change "occurred" to "that occurred". 2. Page 3, line 6, the verb "are" doesn't agree with the subject. Consider changing it to "is". 3. Page 4, line 18, the past participle verb "taken" has been used without an auxiliary verb. Consider adding using "took" or "has taken" instead. 4. Page 9, line 2, the singular verb "is" doesn't appear to agree with the plural subject "electrocardiograms". Consider changing it to "is" instead.



## PEER-REVIEW REPORT

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

**Manuscript NO:** 68610

**Title:** Sliding with the Sines: A Case Report of Life Threatening Hyperkalemia

**Reviewer's code:** 01200577

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Associate Professor

**Reviewer's Country/Territory:** Italy

**Author's Country/Territory:** United States

**Manuscript submission date:** 2021-05-29

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-05-30 19:52

**Reviewer performed review:** 2021-05-30 21:47

**Review time:** 1 Hour

<b>Scientific quality</b>	<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
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	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**

Dear Authors, I found this case interesting, but I think that some points deserve a more detailed description and discussion: - What were the causes of rhabdomyolysis in this patient? - The patient continued to be oliguric? - What were the levels of Na, Ca, Mg and Phosphate? A synoptic table reporting the time trend of K and other electrolytes, such as CK levels, together with data on dialysis, medical treatments and electrocardiogram changes, could be more informative for the readers. - What kind of hemodialysis treatment was performed? How was hemodialysis set? (please provide specific parameters) - I think that the authors should discuss the management of hyperkalemia refractory to conventional therapies. In particular, they should report that it is well-known that intermittent hemodialysis is ineffective in sustaining a reduction in plasma CK levels, while in some cases of rhabdomyolysis continuous venovenous hemofiltration and hemodiafiltration was effective in reducing CK levels (see and cite, Esposito P et al. Rhabdomyolysis-Associated Acute Kidney Injury. *Am J Kidney Dis.* 2018 Jun;71(6): A12-A14) - Regarding the use of the new K-binder, it should be considered that there also data suggesting that sodium zirconium cyclosilicate may provide an incremental benefit in the emergency treatment of hyperkalemia (see and cite, Peacock, W.F. et al. Emergency Potassium Normalization Treatment Including Sodium Zirconium Cyclosilicate: A Phase II, Randomized, Double-blind, Placebo-controlled Study (ENERGIZE). *Acad. Emerg. Med.* 2020, 27, 475–486) Finally, I think that the title should be changed from “Life Threatening Hyperkalemia” to “fatal Hyperkalemia”



## RE-REVIEW REPORT OF REVISED MANUSCRIPT

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

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**Title:** Sliding with the Sines: A Case Report of Fatal Hyperkalemia

**Reviewer's code:** 01200577

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Associate Professor

**Reviewer's Country/Territory:** Italy

**Author's Country/Territory:** United States

**Manuscript submission date:** 2021-05-29

**Reviewer chosen by:** Ya-Juan Ma

**Reviewer accepted review:** 2021-06-21 07:04

**Reviewer performed review:** 2021-06-21 07:10

**Review time:** 1 Hour

<b>Scientific quality</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Peer-reviewer statements</b>	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

I think that the paper has been improved. No further comments.



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**Author's Country/Territory:** United States

**Manuscript submission date:** 2021-05-29

**Reviewer chosen by:** Ya-Juan Ma

**Reviewer accepted review:** 2021-06-21 19:12

**Reviewer performed review:** 2021-06-21 19:53

**Review time:** 1 Hour

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
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### SPECIFIC COMMENTS TO AUTHORS

the comments have been addressed appropriately by authors and the manuscript is



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ready to publish. good luck