

Peer Review

# Review of: "Case Report: Urinary Proteomic Analysis of Exercise-Induced Rhabdomyolysis with Acute Kidney Injury"

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1. Independent researcher

Review comments on the article submitted/published on Qeios on Nov. 5, 2024.

Title: Case Report: Urinary Proteomic Analysis of Exercise-Induced Rhabdomyolysis with Acute Kidney Injury

Authors: Andréia Carneiro da Silva, Janaina Macedo da Silva, Verônica Feijoli Santiago et al.

Comment.

Before reviewing this article, I first read the comments from the other two reviewers, Eitaro Kodani, Nippon Medical School, Japan, and Satilmis Bilgin, Abant Izzet Baysal University, Turkey, and I deeply agree with their comments, including the rationale, description, study method, results, and the whole structure/writing of this article. Please also refer to their comments.

The specific comments from my point of view are listed below.

1. The importance and value of genetic and urine proteomics studies in exertional exercise induced rhabdomyolysis and AKI are still not completely elucidated, especially their roles in early detection, diagnosis, prognosis prediction, and outcome confirmation.

Compared to traditional biomarkers, such as biochemical laboratory parameters, the techniques of measurement, costs, frequency and timing of proteomic studies, and interpretations are more complicated, uncertain, and costly, so this issue needs more study on its usefulness, value, and cost-effectiveness.

2. I would suggest that the authors add more descriptions, interpretations, and discussions on the data of the urine proteomics study, especially the comparisons before basal?, HD?, 6AM, 2PM?. Those words in abbreviations are hard to understand and to know their actual meaning.

3. The detailed clinical and laboratory courses of this patient well demonstrated the case of ER induced AKI and the recovery process. However, further follow-up in the short-term and long-term course of whether he develops complete recovery to normal renal function,

or from AKI to AKD, or AKD to CKD, would be a good teaching case for non-nephrology medical professionals.

## **Declarations**

**Potential competing interests:** No potential competing interests to declare.