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2/12/2024

Editor-in-chief

**Prof. dr Ivana Stojanović**

**Facta Universitatis, Series: Medicine and Biology**

Dear Dr. Stojanović,

I am submitting our manuscript entitled “Population Pharmacokinetics of Pantoprazole in Patients on Dual Antiplatelet Therapy following Acute Coronary Syndrome" for your consideration to be published in Facta Universitatis, Series: Medicine and Biology.

In this study, we aimed to comprehensively explore the population pharmacokinetics of pantoprazole, a frequently prescribed proton pump inhibitor, with a particular focus on patients undergoing dual antiplatelet therapy following acute coronary syndrome. Our research investigates the factors influencing pantoprazole clearance in this specific patient population. Understanding these factors is crucial for optimizing individualized treatment strategies and enhancing therapeutic outcomes in patients with acute coronary syndrome.

The study involved the collection of blood samples from 93 adult participants, and we utilized nonlinear mixed-effects modeling to analyze the data. Our findings reveal a significant impact of C-reactive protein (CRP) levels and co-medication with statins on pantoprazole clearance. These results not only contribute to the current understanding of pantoprazole pharmacokinetics but also have practical implications for tailoring treatment approaches in a clinical setting.

We are confident that our research aligns with the scope and interests of Facta Universitatis, Series: Medicine and Biology, representing a valuable addition to the field of pharmacokinetics. New insights gained from our study could potentially inform clinical practice and offer guidance to clinicians in optimizing pantoprazole therapy following acute coronary syndrome.

I want to affirm that all authors have actively collaborated in the preparation of this work and have reviewed and agreed to the final version of this manuscript.

Please note, this manuscript is also available as a preprint on Research Square, which we have uploaded to facilitate early dissemination and to gather feedback from the community before formal publication.

Thank you in advance for your consideration of this manuscript.

Sincerely,

dr.Valentina Nikolic