

Review by a foreign scientific consultant on the dissertation "Comparison of local antibiotic transport systems in the treatment of osteomyelitis in rabbits in the invivo experiment" for the degree of Doctor of Philosophy (PhD) by Alexander Petrovich Rudenko, specialty: 8D10100 – Medicine

As a foreign scientific consultant, I was asked to express my opinion on the doctoral thesis of Alexander Petrovich Rudenko, who is receiving a PhD in medicine from Karaganda Medical University. I am a professor of Orthopedics and Traumatology at Tekirdag Namik Kemal University, School of Medicine, Turkiye.

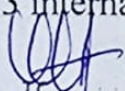
I have currently held the position of head of the department for the last 5 years and professor for the last 16 years. In addition, I have completed a Master's degree in biomedical engineering from Bogazici University in parallel with my academic career as an orthopedic surgeon for the past 26 years. I have advised and graduated many assistants and have extensive knowledge of international standards of medical training.


The doctoral study of PhD candidate Rudenko Alexander Petrovich for the degree of Doctor of Philosophy (PhD) in the specialty 8D10100 "Comparison of local antibiotic transport systems in the treatment of osteomyelitis in rabbits in the invivo experiment" Rudenko A.P. is a comprehensive and informative body of work, including a significant amount of theoretical and experimental material obtained in a study on rabbits. The structure of the dissertation was well chosen and allowed the author to achieve the stated goals and objectives of the research. The theoretical and practical significance of the work is closely related to the modern problems of local transport of antibiotics in the treatment of chronic osteomyelitis.

The author has been consistent and accurate in presenting official statistics. The consistency of the research, including its goals, objectives, hypotheses and methods used, is ensured by internal logic and a clear sequence of presentation of the results. The practical significance of the dissertation is obvious, first of all, in its focus on solving urgent problems not only in Kazakhstan, but also at the international level.

The dissertation of Rudenko A.P. contains scientific results that have signs of novelty and are of interest for experimental and clinical orthopedics. As part of the work: for the first time in this experimental model, the diffusion of an antibiotic impregnated according to the original author's method into the systemic bloodstream and adjacent soft tissues was studied in rabbits, which allows an objective assessment of the effectiveness of local drug delivery.

The research results are reflected in a number of scientific publications included in the Scopus and Web of Science databases, as well as a utility model patent and two registered copyright certificates. The research materials were also presented at 3 international scientific conferences.


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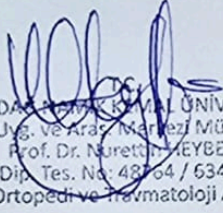
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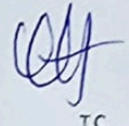
A.P. Rudenko's dissertation on "Comparison of local antibiotic transport systems in the treatment of osteomyelitis in rabbits in the invivo experiment" is a completed scientific work containing new scientific results and practical developments aimed at solving the urgent problem of treating chronic osteomyelitis. The work was performed qualitatively from a scientific point of view, the results are reliable and justified by experimental data.

I believe that A.P. Rudenko's dissertation on "Comparison of local antibiotic transport systems in the treatment of osteomyelitis in rabbits in the invivo experiment" meets the requirements for dissertations for the degree of Doctor of Philosophy.

With respect,

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