



**I.R.C.C.S. Ospedale
San Raffaele**

Gruppo San Donato

FOREIGN CONSULTANT'S REVIEW

on the work of PhD candidate of NJSC

«Medical University of Astana»

ASSEMA BEKNIYAZOVA

«The influence of different modes of vibroacoustic therapy on the course of coronavirus infection complicated by acute respiratory failure» submitted for the degree of Doctor of Philosophy on the specialty 8D10102 -" Medicine".

The doctoral work is devoted to studying the effect of vibroacoustic therapy on the course of coronavirus infection complicated by respiratory failure.

Vibroacoustic therapy has positive results in many areas of medicine; nevertheless, there is no information about respiratory pathology in the background of coronavirus infection.

The scientific study was conducted according to all standards of research and represents a substantial scientific work.

The doctoral work of Assema Bekniyazova is presented at a high research level. In the course of this work, the set goal of scientific research was achieved, and all the set tasks were fulfilled. In the course of the doctoral work, a thorough literature search was conducted, analysis of patients with respiratory insufficiency, and vibroacoustics was carried out. It is necessary to note the huge personal contribution of the PhD candidate in mastering the research methods in this work.

The primary findings of the scientific research and the main points of the doctoral work are fully reflected in the three printed works that have been published on the topic: Q1–Q2 in the Scopus, Web of Science database. On implementation of the results of the study there is one act of implementation and 1 author's certificate, participation in the development of clinical protocol.

Therefore, Bekniyazova Assema's doctoral work on the topic's relevance, the data's uniqueness, and its theoretical and practical value meets the requirements for the degree of Doctor of Philosophy (PhD).

The work has practical significance and can be useful for application. Taking into account the relevance of the research, the scope of the work, scientific novelty, and the practical significance of the research results.

CSPEDALE SAN RAFFAELE
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U.O. TERAPIA INTENSIVA
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Milano, 26/02/2025

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