

July 17, 2024

A review by a foreign scientific consultant on the dissertation work of Zh.S. Tumenbayeva, submitted for the degree of Doctor of Philosophy (PhD) in the specialty 8D10141 - Medicine, on the topic:

"Evaluating the effectiveness of targeted lung cancer therapy"

The topic mentioned above of the dissertation by Zh.S.Tumenbayeva is devoted to the urgent problem of targeted lung cancer therapy, and improving the provision of oncological care in surgical oncology and other medical specialties. The relevance of the work is beyond doubt. The set goals and objectives were fulfilled to the full extent. The results obtained by Zh.S.Tumenbayeva are new and have practical significance:

- For the first time in the Republic of Kazakhstan, an analysis of the incidence in patients with lung cancer and 5-year survival was conducted using the example of the Turkestan region. A comprehensive analysis of the clinical and morphological characteristics and profile of molecular genetic results in patients with lung cancer with the "EGFR mutation" was carried out.
- For the first time, the most common exons were identified in patients with non-small cell lung cancer with an "EGFR mutation" in the Turkestan region.
- The analysis of the features of histological forms of non-small cell lung cancer in patients with the "EGFR mutation" in the Turkestan region was carried out.
- The effectiveness of targeted therapy in patients with lung cancer in the Turkestan region was evaluated.

While working on her dissertation, Zh.S. Tumenbayeva demonstrated thoughtfulness, conscientiousness, and maturity as a researcher. The use of modern methods of statistical data processing allowed the author to comprehensively process and analyze the results obtained, which makes the validity of the conclusions beyond doubt.

While working on her dissertation, the author studied a large volume of medical literature devoted to the problem of the application of innovative technologies in surgery and medical oncology in general, and published recommendations on the implementation of research results, potentially significantly improving the quality of care provided to patients.

Based on the materials of the dissertation, 15 publications were published, including 1 article in a foreign journal included in the Scopus database. Based on the results of the dissertation work, 1 treatment guideline and 4 patent applications were published.

This scientific work is the result of multiple years of work of a doctorate scholar. The volume and high level of work allow us to consider Zh.S.Tumenbayeva a worthy candidate for the degree of Doctor of Philosophy (PhD).

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