

REVIEW BY THE SCIENTIFIC ADVISOR
of the dissertation submitted by PhD candidate Sultanmuratova Dilfuza
Dilmuradovna entitled «Optimization of Management of Induced Labor at
Term Pregnancy» submitted for the degree of Doctor of Philosophy (PhD)
in the educational program 8D10141 – Medicine

I hereby present my review of the dissertation submitted by **Dilfuza Dilmuradovna Sultanmuratova**, entitled “Optimization of Management of Induced Labor at Term Pregnancy”. This work addresses one of the most clinically relevant and debated issues in modern obstetrics—improving the effectiveness and safety of labor induction strategies in term pregnancies.

The global rise in induction rates, combined with the variability in clinical outcomes and the need for evidence-based individualized management, highlights the importance and timeliness of this research. The author provides a comprehensive and well-structured overview of the current international literature, identifying the persisting uncertainties in the choice of induction methods, prediction of cesarean delivery, and optimization of clinical algorithms for labor management.

The clinical component of the dissertation is of particular significance. Dr. Sultanmuratova conducted a comparative evaluation of mechanical, pharmacological, and combined induction approaches, with special emphasis on the sequential use of the Foley catheter and misoprostol. The findings convincingly demonstrate the advantages of the sequential method in improving cervical readiness, reducing induction-to-delivery time, and lowering the rate of emergency cesarean sections—without increasing maternal or neonatal complications.

Furthermore, the author developed a predictive model for emergency cesarean delivery based on clinical and obstetric factors. This model represents an important contribution to personalized obstetric care, providing clinicians with a valuable tool for early risk stratification and informed decision-making.

It is also important to highlight the author's scientific productivity. The dissertation work has led to publications in international peer-reviewed journals, including Q1-ranked journals, which confirms the scientific relevance, novelty, and global interest in the obtained results. Additionally, her findings have been disseminated at scientific conferences and through publications in conference proceedings.

The practical significance of the dissertation lies in the proposed optimized algorithm for labor induction and the developed predictive model, both of which can be readily integrated into clinical practice. These contributions have the potential to improve maternal and neonatal outcomes in obstetric institutions in Kazakhstan and internationally.

The dissertation is logically structured, methodologically sound, and aligned with international scientific standards for PhD-level research. The conclusions are well-founded, clearly presented, and directly supported by the obtained results.

In my professional opinion, the dissertation “Optimization of Management of Induced Labor at Term Pregnancy” by Dilfuza Dilmuradovna Sultanmuratova is a complete, high-quality scientific work that meets all requirements for the PhD degree. I fully support and recommend this dissertation for official defense.

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