

REVIEW OF SCIENTIFIC SUPERVISOR CANDIDATE OF MEDICAL SCIENCES, ASSOCIATE PROFESSOR ZHURABEKOVA GULMIRA ATAGULLOVNA

on the doctoral dissertation of Oralkhan Zhibek on the topic « Oral Health Status and Adverse Pregnancy Outcomes », submitted for defense in the educational program 8D10102 - Medicine

I am pleased to provide this review of Oralkhan Zhibek's academic progress during her Doctorate in Medicine (2020–2023) at the Faculty of Health Policy and Organization, Kazakh National University named after Al-Farabi. As her scientific supervisor, I have closely observed her development and dedication throughout her studies and research, and I am delighted to highlight her numerous achievements.

Oralkhan Zhibek graduated from Xi'an Jiao Tong University, China, in 2011 with a degree in Dental Medicine. In 2014, she completed a Master's program in Medicine at Xinjiang Medical University, China. From 2014 to 2018, she worked as an endodontist and periodontist in the Department of Endodontology at the First Affiliated Hospital of Xinjiang Medical University, China. Since migrating to Kazakhstan in 2018, she has been working as a lecturer in the Department of Fundamental Medicine at the Faculty of Medicine and Healthcare, Kazakh National University named after Al-Farabi.

The dissertation of Oralkhan Zhibek titled «Oral Health Status and Adverse Pregnancy Outcomes» is a comprehensive and independent research work that explores the relationship between oral health status and adverse pregnancy outcomes. The practical significance of the study is evident in its potential to improve prenatal care protocols by incorporating routine oral health assessments into maternal health screenings. The findings provide a foundation for preventive strategies aimed at reducing the risk of preterm birth through timely diagnosis and treatment of oral infections. Notably, her doctoral research was completed under the auspices of the grant project «Clinical, Genomic and Environmental Variable Approach to Preterm Birth», funded by the Science Committee of the Ministry of Science and Higher Education of the Republic of Kazakhstan.

During her doctoral studies, she completed her theoretical coursework with exemplary marks in the entire program. She demonstrated a strong understanding of complex medical concepts and consistently showed high academic proficiency. She completed her pedagogical practice, further developing her ability to communicate and disseminate scientific knowledge effectively. Her training was further enriched by her scientific internship at Semmelweis University (October 29, 2022 – December

28, 2022), gaining invaluable international exposure that broadened her research perspective. During this internship, she enhanced her laboratory skills by mastering DNA extraction and PCR techniques to detect *Fusobacterium nucleatum* in human placental tissue, strictly adhering to research protocols and laboratory schedules.

She demonstrated a serious and diligent approach to clinical research, carefully analyzing observation results and reviewing a large body of scientific literature. She actively presented her research and independently authored several articles that were published in highly rated international medical journals. In total, Six publications were produced based on her dissertation research in journals recommended by the Committee for Quality Assurance in Education and Science of the Ministry of Science and Higher Education of the Republic of Kazakhstan and high-impact journal indexed in Scopus/Web of Science.

The candidate has fully met the requirements of the PhD program as stipulated by the Ministry of Education of the Republic of Kazakhstan, acquiring substantial expertise in conducting independent scientific research. Her interdisciplinary work not only advances our understanding of maternal and fetal health but also holds practical implications for improving prenatal care strategies. Thus, the dissertation is a completed scientific work with significant theoretical and practical value and can be recommended for defense to obtain the desired academic degree.



Scientific supervisor
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