PREVIEW

of the Doctoral Dissertation by Azat Chinaliyev entitled "Combined Methods for the Correction of the Wound Healing Process in Chronic Non-Healing Wounds in Patients with Chronic Obliterating Diseases of the Lower Limb Arteries"

Specialty: 8D10102 – Medicine

Dr. Azat Chinaliyev is a graduate of Astana Medical University, where he obtained a Bachelor's degree in General Medicine (2007–2012). From 2012 to 2014, he completed his internship in Surgery at Astana Medical University. Following graduation, he worked as a general surgeon. Between 2015 and 2019, he completed his residency training at the National Scientific Center of Oncology and Transplantation (Astana) in the specialty of Angiosurgery (Interventional Surgery and Endovascular Radiology) vascular surgery, phlebology, adult and pediatric.

From 2019 to 2025, Dr. Azat Chinaliyev served as the Head of the Department of Interventional Radiology at the National Research Oncology Center in Astana. From June 2025 to January 5, 2026, he worked as Managing Director for Science and Education, and since January 8, 2026, he has continued his professional activity at the same institution as Managing Director for Clinical Affairs.

The doctoral dissertation of Azat Chinaliyev was conducted at the National Research Oncology Center and is devoted to one of the most relevant problems of modern vascular surgery and regenerative medicine—the development of effective therapeutic approaches for the treatment of chronic non-healing wounds in patients with chronic obliterating diseases of the lower limb arteries.

The dissertation convincingly substantiates the relevance of the selected research topic based on up-to-date epidemiological data and a critical analysis of existing limitations in the management of this patient population. Of particular value is the scientific novelty of the study: for the first time in clinical practice, a combined treatment approach integrating endovascular revascularization with the local application of allogeneic fibroblasts has been developed and clinically validated.

During the execution of the dissertation research, Dr. Azat Chinaliyev demonstrated himself as a highly motivated, responsible, and methodologically competent investigator. He independently performed all surgical and conservative treatment procedures in all 116 patients included in the main and control groups of the study.

The conducted randomized controlled study, employing a comprehensive evaluation of treatment efficacy and incorporating a wide range of instrumental, morphological, and bacteriological assessment methods, enabled reliable statistical analysis. Modern statistical approaches were applied, including regression analysis,

mixed-effects models, and Kaplan–Meier survival analysis, ensuring the robustness and validity of the obtained results.

Throughout my professional interaction with Dr. Azat Chinaliyev, I observed his significant academic and clinical growth. He demonstrated profound knowledge in vascular surgery and advanced endovascular technologies, strong analytical skills in interpreting both scientific literature and original data, a high level of clinical reasoning, and an excellent ability to work effectively within multidisciplinary medical teams.

In addition to his dissertation research, Dr. Azat Chinaliyev has shown notable scientific productivity. He is the author of three publications in international peer-reviewed journals indexed in Scopus (Q2). The results of his research have been presented at numerous international scientific conferences in the United States, Bolivia, the United Arab Emirates, Russia, Uzbekistan, and Denmark. He has obtained an author's certificate for an educational manual, submitted a patent application for an invention, and successfully implemented the study findings into routine clinical practice at the National Research Oncology Center, Astana.

In conclusion, the doctoral dissertation by Azat Chinaliyev represents a completed and original scientific research work, in which a novel and clinically significant method for the treatment of chronic non-healing wounds in patients with chronic obliterating diseases of the lower limb arteries has been developed. The study possesses substantial medical, social, and practical significance.

The dissertation fully meets the requirements established for doctoral dissertations, and its author, Azat Chinaliyev, fully deserves the award of the Doctor of Philosophy (PhD) degree in the specialty 8D10102 – Medicine.

Scientific consultant:
Rector of the Scientific Institute of Higher Education
President of the Bolivian Scientific Community of Phlebology and Lymphology
M.D., PhD, Professor **Luis René Arias Villarroel**

Xalapa city, Ver. Mexico

Dr. Luis René Arias Villarroel MD, PhD
CED. PROF .4736033
Paseo de las Palmas No. 21
Fracc. Veracruz, C.P. 91020
Xalapa, Ver.