

## OPINION

by Assoc. Dr. Lyudmila Boykova Dikova

of a dissertation work for the award of a scientific degree "Doctor of Science"

in Higher Education Area 3. Social, economic and legal sciences

Professional direction 3.8. Economy

Author: . Dr. Irena Brukvitska

Topic: Economic aspects of the treatment of diabetic foot and their impact on the healthcare system in Poland

### 1. General description of the presented materials

By order No. 816/12.12.2023 of the Rector of the Higher School of Insurance and Finance, Prof. Doctor of Law Boris Velchev, I have been appointed as a member of the scientific jury to ensure a procedure for the defense of a dissertation work on the topic "Economic aspects of the treatment of diabetic foot and their impact on the healthcare system in Poland" for the acquisition of a scientific degree "Doctor of Sciences " in the Higher Education Department 3. Social, Economic and Legal Sciences, Professional Direction 3.8. Economy. The author of the dissertation is Dr. Dr. Irena Brukvitska - candidate at the Department of Finance.

The set of materials submitted by Dr. Irena Brukvitska on electronic media is in accordance with the Regulations for the Development of the Academic Staff of VUZF (curriculum vitae, copy of the diploma for the acquired educational and qualification degree "doctor", dissertation, list of contributions, abstract, list of publications, presentation, order to determine the scientific jury).

The candidate has attached 1 monograph, 13 articles.

### 2. Brief biographical data about the candidate

Dr. Irena Brukvitska is the DIRECTOR OF THE HEALTH CARE INSTITUTE at the STATE HIGHER TECHNICAL AND ECONOMIC SCHOOL Fr. Bronislav Markevich In YAROSHAV 2005-2015.

From 2016 to now he is the REPRESENTATIVE FOR MASTER'S TRAINING OF COLLEGIUM MASOVIENCE HIGH SCHOOL OF HEALTH SCIENCES IN ŻYRARDÓW,

and from 2022 he is also the DIRECTOR OF THE INSTITUTE OF NURSING AND MIDWIFERY.

The candidate has participated in numerous scientific conferences and forums.

She has received numerous awards such as: First Class Individual Award of the Rector of PWSZ in Yaroslavl 2005, 2006, 2007, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2018.

### 3. Characterization and evaluation of the dissertation work

The dissertation contains 264 pages, it is organized into an introduction, 3 sections and a discussion of the results. The literature used covers 300 sources.

Section I is divided into three subsections and contains a detailed description of the macro and microangiopathic complications in the course of diabetes mellitus, the pathomechanism of formation of diabetic foot, ulcer infection and the process of preventing diabetic foot through a lifestyle that should prevail in this group of patients, as well as general principles for the treatment of SDS. All data characterizing diabetes mellitus from a medical point of view are presented in an economic context, which significantly burdens the state budget and the patient himself.

Section II is a review of the literature and a study of the essence of the phenomenon from the point of view of the real costs of conservative, surgical and interdisciplinary treatment of SDS. It presents the differences and comparisons of different forms of therapy, as well as the advantages of using alternative forms of therapy over traditional ones. According to the author, the results of the empirical analysis indicate that early diagnosis of diabetes mellitus and access to professional interdisciplinary therapy significantly reduce treatment and health care costs by minimizing the occurrence and/or delay of equally costly complications.

Section III contains an economic and financial analysis of reimbursed services for the treatment of diabetic foot in Poland.

### 4. Contributions and significance of the development for science and practice

The main objective of the work of the candidate, Dr. Dr. Irena Bruwicka, is related to the economic aspects of early prevention in health care in Poland. The health system and public health benefits of early diabetes prevention are described. The candidate has summarized the results of the dissertation work.

### 5. Evaluation of publications on the dissertation work

The candidate has attached 1 monograph, 13 articles.

The works presented have a significant contribution to the enrichment of the theory in the field of economic aspects of prevention for the health system. The candidate has summarized the results of the dissertation work. The topics of the presented publications are focused on the

problems of professional direction 3.8. "Economics". The publications cover current theoretical and applied problems. The candidate demonstrates an individual scientific focus and offers high-level scientific output, as well as demonstrates specialist expertise.

#### 6. Assessment of compliance with minimum national requirements

The documents and materials presented by the candidate, Dr. Dr. Irena Brukvitska, meet all the requirements of the Law on the Development of the Academic Staff in the Republic of Bulgaria (ZRASRB), The Regulations for the Implementation of the ŽARSRB and the relevant Regulations of the VUZF.

According to the presented materials, I can conclude that the candidate, Dr. Dr. Irena Brukvitska, fulfills the minimum national requirements for obtaining the scientific degree "Doctor of Sciences" in the professional direction 3.8. Economy.

At the time of drafting the opinion, there is no information that would give grounds to doubt the authenticity of the dissertation work and scientific publications submitted for consideration.

#### 7. Abstract

The abstract is prepared in accordance with good academic practices and correctly reflects the essence of the dissertation in a concise form.

The candidate has presented a sufficient number of scientific publications, with which she fulfills the national minimum requirements laid down in the Law on the Development of the Academic Staff in the Republic of Bulgaria and the Rules for its Implementation for the acquisition of the Doctor of Science degree under 3.8. Economy.

#### 8. Critical remarks and recommendations

I have no significant critical notes and recommendations.

### CONCLUSION

The dissertation work presented for consideration is an up-to-date scientific research. It fully meets the requirements for such kind of scientific developments and has indisputable scientific qualities. The publications on the subject complement the image of the candidate as a thorough specialist with serious practical knowledge, which she combines with an excellent knowledge of the currently existing theory in the field of her chosen topic.

The dissertation contains scientific, scientific-applied and applied results, which represent an original contribution to science and meet all the requirements of the Law on the Development of

the Academic Staff in the Republic of Bulgaria (ZRASRB) and the Regulations for the Implementation of the ZRASRB. The presented materials and dissertation results fully comply with the specific requirements of the Regulations for admission and training of doctoral students in the Higher School of Insurance and Finance.

The dissertation shows that the candidate, Dr. Irena Brukvitska, has in-depth theoretical knowledge and professional skills in Professional Direction 3. 8. Economics, demonstrating qualities and skills for independent conduct of scientific research.

Due to the above, I confidently give my positive assessment of the conducted research, presented by the above-reviewed dissertation work, abstract, achieved results and contributions, and I propose to the honorable scientific jury to award the scientific degree "Doctor of Sciences" to Dr. Irena Brukvitska in Higher Education District 3. Social, economic and legal sciences; Professional direction 3. 8. Economics.

04.01.2023

Reviewer: Assoc. Dr. Lyudmila Dikova