

## OPINION

by Dimitar Ivanov Kostov - professor VUSI, d.n

of a dissertation for awarding the scientific degree "Doctor of Science"

**in the field of higher education:** 3. Social, economic and legal sciences

**in a professional direction:** 3.8. Economy

**Author of the dissertation:** Dr. Irena Brukvitska

**Topic of the dissertation:** "Effect of economic aspects on the medical industry on the example of the treatment of patients with diabetic foot in Poland".

I have been appointed to participate in the scientific jury 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 participate in the scientific jury with an opinion for the defense of the dissertation work on the topic: "Influence of economic aspects on the medical sector of the example of the treatment of patients with diabetic foot in Poland" with author Dr. Irena Bruwicka, candidate at the Department of "Finance and Insurance" .

### 1. General description of the presented materials

The author of the dissertation has submitted all the necessary documents, according to the requirements of the regulations and VUZF - Sofia.

The declaration of originality of the dissertation work includes the necessary requirements that give me reason to be convinced that the dissertation work is entirely the authorship of the candidate and does not infringe the copyrights of other persons. With the said declaration, it is declared that this dissertation work does not duplicate materials from the dissertation work for obtaining the ONS "Doctor" by the same author.

From the report on the implementation of the minimum national requirements, it can be seen that the author fully covers them and significantly exceeds them.

It is evident from the applicant's scientific record that he has a large number of publications after receiving the ONS "Doctor". The candidate has a total of 148 publications, of which 14 are related to the dissertation work.

I accept the declaration of originality of the dissertation work. I believe that he has original scientific theoretical achievements and at the same time has made a significant contribution to practice.

The citations in the dissertation have been duly made in accordance with copyright requirements.

The presented list of used literary sources is made according to the requirements of the normative base in this area.

## **2. Brief biographical data about the candidate**

Dr. Irena Brukwicka received her higher education at the Faculty of Social Sciences of the University of Katowice. He has a Doctor of Humanities degree in Sociology. She also completed postgraduate training for nurses and midwives in Warsaw. She has a master's degree in nursing.

Dr. Bruwicka has extensive professional experience in the field of public health. She held a number of management positions in several state healthcare institutions. He also has significant experience in health education. She has a diploma of the National Academy of Sciences "Doctor of Humanities".

The author has participated in many scientific national and international conferences. He has a significant teaching activity, which shows that he is a well-known scientist in Poland and abroad.

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

The dissertation is presented in a very well-formed appearance. The total development volume of 263 pages includes a table of contents with a list of tables, diagrams, figures and abbreviations.

The materials of the dissertation work are presented in: introduction, three sections, discussions, conclusions, bibliography and appendices. The arrangement and presentation of the materials makes a very good impression.

The justification for the choice of the topic is done very professionally with a clear view of the issues on it. This shows that the author sees very well the most important problems and tries to give a correct solution for them.

The purpose of the dissertation work is very specific and fully corresponds to the title of the work. It can be noted that it is directly related to the national priorities in the field of health care in Poland.

The tasks related to achieving the goal are defined very correctly. It is necessary to note that they are arranged in such a sequence that their solution more surely achieves the goal.

The hypotheses are quite sufficient to clarify the research problems.

The object of the research is stated precisely and specifically. In all parts of the study, it is related to the achievement of the goal.

The development aims to point out the problems of diabetic disease in Poland. All issues related to this problem are considered in the context of their economic nature, as well as the health care system in Poland.

The information that is used for the development is from all state structures working in the field of health care in Poland. I believe that it is completely reliable and sufficient to indicate and solve the problems in the development.

In the first section, the main hypotheses are also tested. The results of this check are indicated in table 47 and are the personal work and contribution of the author of the dissertation work.

In this part of the development, a very thorough and substantiated analysis of the three main hypotheses regarding the state and development of the problem was made.

Discussions of these hypotheses are supported by a large volume of information presented in tabular and graphical form. Based on the author's own research, deep and important conclusions have been drawn. They serve as a rationale for further research. In this regard, it is necessary to note that the analysis, discussions and conclusions are made except for the three main hypotheses and for the large number of elements of the hypotheses.

Discussions on the problem were carried out not only for Poland, but also for many countries around the world. For this purpose, information from the World Diabetes Organization was used. The data are presented graphically in addition to tabular and color chart material. Many literary sources of world-renowned scientists are used for these discussions.

The second section is related to the socio-economic costs of treating the diabetic foot.

In this part of the dissertation, the author examines the concepts of health care financing in the developed countries of the world. The analysis is presented on table 7 of the section and is the author's own research, which is also an important contribution of the dissertation work. The tabular material is also supported by graphs and color maps. And in this part of the thesis, the opinions and research data of many authors are cited and discussed.

The third section is a specific development on the problem of health care in Poland. In this part, a thorough and critical analysis is made, as well as the possibilities of financing the diabetes disease in Poland.

The materials for this section are entirely from the author's own research and represent the project part of the development. Here are the main contributions of the dissertation, which have both theoretical and practical applications.

The large volume of research work is implemented in 47 tables and 65 diagrams. Based on the summarized research material, eight important conclusions are drawn. After the main part of the research presentation and the bibliography, the appendices are also presented.

Based on familiarization with the development, I must note that I am pleasantly satisfied with the overall layout and presentation of Dr. Irena Brukvitska's dissertation.

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

Dr. Irena Bruwicka's dissertation is a remarkably well-done scientific study with a great theoretical contribution to science and a practical contribution to health care in Poland.

This research was carried out over a fairly long period of time, which allows it to be comprehensive, original and significant for the world science and practice in the field of health care.

The theoretical contributions of the development are related to the methods used and their application.

The practical contributions are related to the large volume of comprehensive information processed and the good presentation.

I will summarize the specific contributions as follows:

1. This is the first study in Poland regarding the treatment and care of diabetics of diabetic foot syndrome.
2. Clarification of the importance of economic considerations in the methods of treatment of this disease.
3. A large volume of information was received, processed and analyzed on a global and national scale for Poland regarding the diabetic foot syndrome.
4. Important conclusions for the treatment of diabetic foot syndrome have been made for the global and national practice of Poland.

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

The total number of publications on the dissertation is 14, of which one monograph and 13 scientific articles. All publications are related to the dissertation work and its subject matter.

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

The documentation reference provided shows that the author of the dissertation has met and exceeded all minimum national requirements.

After the defense of a dissertation to obtain a doctorate, the author has the following scientific publications in the following fields:

1. Author monographs – 2 pcs.
2. Editions of scientific monographs – 2 nos.
3. Articles in scientific journals – 210 items.
4. Parts in scientific monographs – 5 pcs.

In order to acquire the scientific degree "Doctor of Sciences", according to the minimum national requirements, the author has results by groups of indicators as follows:

## Required Received

group A 50 pts. 50 pts.

group B 100 100

group B - 100

group D 100 603

group D 100 3170

### **7. Abstract**

The content of the abstract fully corresponds to the content of the dissertation. It was prepared according to the requirements of the regulations - national and VZUF.

### **8. Critical notes and recommendations**

Recommendation: I consider it necessary to extract materials relevant to practice from the dissertation work and submit them to the Ministry of Health of Poland for use in connection with the treatment of the diabetic foot syndrome disease.

### **CLOSING**

The dissertation is a fully completed scientific study with great theoretical and practical significance for science and practice.

The large number of publications made by the author during his many years of scientific, teaching and administrative activity show that he has deep scientific knowledge.

The dissertation fully complies with the requirements of the ŽRASRB and its Regulations for Application, as well as the rules for acquiring the scientific degree "Doctor of Sciences" at VUZF.

This gives me reason to confidently give my POSITIVE assessment of the conducted research and the achieved results and contributions in it, and I propose to the HONORABLE scientific jury to award the scientific degree "Doctor of Sciences" to Dr. Irena Brukvitska in the field of higher education 3. Social, economic and legal sciences, professional direction 3.8. Economy.

06.01.2024

Prepared the opinion:

Prof. DS. Dimitar Kostov