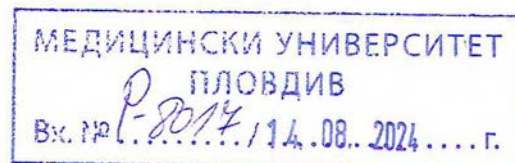


REVIEW



By **Prof. Valentina Hristova Madzova**, MD, PhD

Department of General Medicine,
Medical University of Varna

On: Competition for the academic position *Professor* in the field of higher education

7. Health care and sports, professional direction

7.1. Medicine and scientific specialty ***Social Medicine and Organisation of Healthcare and Pharmacy***

for the needs of the Health Management and Health Economics Department
at the Faculty of Public Health at the Medical University of Plovdiv,
announced in the State Gazette, Issue 35/19.04.2024

1. **General presentation of the procedure**

In compliance with the Order of Vice Rector of Science and Research Activities at Medical University of Plovdiv No. R-2160/24.06.2024 and Protocol of the FM of FPH - MU of Plovdiv (No. 4 of 30.05.2024) I was appointed to be part of the Scientific Jury in connection with a procedure for occupying the academic position *Professor*, announced in the State Gazette, Issue 35/19/04/2024

According to the decision of the first meeting in default, I was selected as a reviewer of the competition for the academic position *Professor* in the scientific specialty *Social Medicine and Organisation of Health Care and Pharmacy* for the needs of the *Health Management and Health Care Economics Department* in the specialty *Social Medicine and Organisation of Health Care and Pharmacy* at the Faculty of Public Health at Medical University of Plovdiv.

For the announced competition for 1 (one) academic position *Professor* in *Social Medicine and Organisation of Health Care and Pharmacy* at the Faculty of Public Health at Medical University of Plovdiv in State Gazette Issue 35 / 19.04.2024 an application was received from one candidate - Assoc. prof. Rositsa Tsvetanova Dimova, MD, PhD.

The set of materials on hard copy/computer storage media that I received in time fully corresponds to the requirements of the announced competition for AP "Professor" in *Social Medicine and Organisation of Health Care and Pharmacy* from MU of Plovdiv.

During my detailed inspection of the presented materials, I did not find any violations of the procedure for participation in the competition for AP *Professor*.

2. Brief biographical data

Rositsa Tsvetanova Dimova graduated from the Mathematical Secondary School in Pazardzhik in 1986, and in 1994 from Higher Medical Institute of Plovdiv as a Master in Medicine, and 10 years later acquired a specialty in General Medicine (2004).

Since the completion of her medical education until 1999, she worked as a resident doctor in Maritsa municipality, Plovdiv region and one year in the cardiology department of University Municipal Hospital *Plovdiv*.

From 1999 to 2003, Dr. Rositsa Dimova was a full-time doctoral student at MU of Plovdiv and in 2003 defended her PhD Thesis in *Social Medicine and Organisation of Health Care and Pharmacy* with the topic "Quality of General Medical Care - Essence, Content, Definition and Management".

In 2004, she acquired the specialty "General Medicine", in 2019 "Social Medicine and Health Management", and from 2022 she was enrolled in the specialty "Health Care Economics".

Rositsa Dimova has had a Master's degree in Health Management since 2009.

After defending her thesis, her academic development continued in the field of health management, social medicine, economics and organisation of health care, and in 2003 she became a part-time assistant at the Department of Health Care Management and an assistant, and from 2008 and 2009 respectively – Senior and Chief Assistant. Since 2016, she has been an associate professor at the Department of Health Management and Health Care Economics at the Faculty of Health Care, MU of Plovdiv, and since 2023 she has been elected as the Head of the Department of Health Management and Health Economics.

3. Scientific research and teaching activity

The research and teaching activities of Prof. Rositsa Dimova can be summarised as follows:

1. Scientometric criteria

The total number of full-text scientific publications of Associate Professor Rositsa Dimova to date is 122. In my assessment of the candidate's scientific activity after her tenure for AP *Associate Professor*, I have reviewed her publications, which can be summarised as follows:

- ✓ 31 publications in scientific publications, referenced and indexed in world-famous databases with scientific information (SCOPUS and Web of Science)

- ✓ 20 publications in non-refereed peer-reviewed journals or published in edited collective volumes
- ✓ habilitation thesis – 1
- ✓ published chapter of a collective monograph – 1
- ✓ published university textbook – 1
- ✓ published university textbook – 1

I have divided the scientific works of Assoc. Prof. Rositsa Dimova according to citations and/or reviews into 3 groups according to the indicators:

1) Citations and/or reviews in scientific publications, referenced and indexed in world-famous databases with scientific information or in monographs and collective volumes - 18 publications cited by 67 authors

2) Citations in monographs and peer-reviewed collective volumes in the period 2016–2024 – 5 publications cited by 5 authors

3) Citations and/or reviews in non-refereed and indexed peer-reviewed journals in the period 2016–2024 – 28 publications cited by 59 authors

The total number of positive citations of Assoc. Prof. Rositsa Dimova's articles after her habilitation as an associate professor by various authors is 131.

Impact Factor: Total IF= 21.188.

The attached *Hirsch index (h-index)* reference is 5.

2. Research interests

Assoc. Prof. Rositsa Dimova has a diverse research activity, which can be summarised in several scientific fields and main directions: health management and modern strategic approaches in medical practice management.

- ✓ hospital resource management, with a focus on human resources, time, errors and safety culture; health promotion and health behavior.
- ✓ screening of oncological diseases and prevention of CV diseases; risk factors and management of cardiovascular disease; assessment of cardiovascular risk with the SCORE - (ESC 2019), SCORE - (ESC 2016) and SCORE - NRD system.
- ✓ medical quality and patient safety; health consumers' satisfaction with the quality of medical care; behavior of healthcare professionals regarding hospital safety culture; interrelationship between hospital safety culture and elements of psychological climate.

- ✓ e-learning and education; information and communication technologies and creation of a web-platform for the evaluation of the patient safety culture.
- ✓ motivational determinants when choosing a medical profession; teachers' attitudes and satisfaction with e-learning.
- ✓ management of chronic non-infectious diseases; quality of life (HRQL) in patients with chronic renal failure (CKD) and patients after thyroidectomy.
- ✓ impact of the COVID-19 pandemic on QoL and access to health services, etc.

From the materials provided, I can point out that Assoc. Prof. Rositsa Dimova has participated in 5 national scientific and educational projects, of which she is the project manager of 2, as well as 2 participations in the Erasmus + Staff Mobility for Teaching program - in Cluj, Romania and Istanbul, Turkey.

Of the published full-text articles, more than 10 are related to scientific research projects in which PhD students, students and specialists from various scientific fields participate.

3. Contributions of the research work

The main contributions of Prof. Rositsa Dimova are in various scientific fields and directions of medicine and public health and can be summarised as follows:

1. Translation into Bulgarian language, linguistic and cultural adaptation, validation and use of different questionnaires: for **patient satisfaction of GPs in general medical practice (EUROPEP)**, for **assessment of hospital patient safety culture (B-HSOPSC)** and for **assessment of QOL in patients with CKD on chronic-hemodialysis and QOL in patients after total thyroidectomy (Missoula - VITAS Quality of Life Index, B-MVQOLI-15)**;

2. A classification framework of adverse events and errors in medical practice was proposed and an information and communication system (ICT) was developed for their reporting and assessment of the level of patient safety

3. Research during the COVID-19 pandemic: in patients with rheumatological diseases, the relationship of the infection with their drug therapy and their access to adequate rheumatological care through the use of telemedicine; identification of important clinical-laboratory predictors of more severe course and mortality from COVID-19-associated pneumonia

4. Use of Mixed method analysis for a complex study of the problem of patient safety through qualitative and quantitative research methods, proposed criteria for measuring and evaluating the hospital culture of patient safety and development of a web-platform (www.rsps.bg)

5. Proposed benchmarking approach as a strategic method to improve the quality of monitoring and treatment of psoriasis patients.

6. Analysis of main motivation determinants and satisfaction factors of university lecturers in an online environment during the COVID-19 pandemic; perceptions and attitudes of students for distance learning at MU of Plovdiv; empirical research on university lecturers' job satisfaction combined with a democratic management style are important predictors of their future productivity.

7. A terminological compendium in the field of health management and public health and a methodical study guide for training students in medical quality.

8. A large-scale cohort study among the Bulgarian population of the SCORE ESC (2019) methodology proves that it has a higher predictive value for the occurrence of a severe or fatal atherosclerotic event, compared to the SCORE NRD and SCORE ESC (2016) methodologies.

9. Identified and measured absolute and attributive risk of additional risk factors for SCORE in the assessment of coronary risk and CVD development; an empirical study among patients with AH to assess physical activity and control their physical health.

10. A cross-sectional survey was conducted among students regarding their satisfaction with time management and budgeting and the imbalance between free time and work life.

The contributions with a scientific and applied nature are the following:

1. The questionnaires translated into Bulgarian, linguistically and culturally adapted and validated for the Bulgarian population - EUROPEP, HSOPSC and Missoula-VITAS Quality of Life Index (B-MVQOLI-15).

2. The developed an adapted model for measuring CV risk SCORE among a target group of the Bulgarian population with additional modifying risk factors included.

3. An original methodology was applied for the first time in our country to recategorize patients with cardiovascular risk, taking into account additional modifying risk factors

4. A comparative analysis of the predictive value of three methods for assessing cardiovascular risk: SCORE NRD, ESC (2016) and SCORE ESC (2019) was performed in a cohort study among the Bulgarian population.

5. A terminological compendium for the needs of health managers and a medical quality textbook (the first edition of its kind in our country) were developed for training students in public health and health management.

4. Teaching activity

Prof. Rositsa Dimova has 20 years of teaching experience. A reference for the last 5 years (2019 - 2024) shows that she is a lecturer of students, interns and doctoral students in the field of Public Health and Health Management at MU of Plovdiv.

She has been involved in the supervision of more than 50 graduates who have successfully defended their Master's theses in the field of health management and public health.

Assoc. Prof. Rositsa Dimova participates in various examination committees for students and specialists, as well as in state examination committees for awarding the specialty *Social Medicine and Organisation of Health Care and Pharmacy* at MU of Plovdiv.

She is a member of a number of scientific juries for the acquisition of an academic position and an educational-scientific degree, both in the MU of Plovdiv and in other Medical Universities in our country.

Prof. Rositsa Dimova is the supervisor of 5 doctoral students, of which 2 have successfully defended their PhD Theses, and 3 are successfully and on time completing their full-time doctoral studies.

CONCLUSION

Prof. Rositsa Dimova began her career as a doctor immediately following her graduation from MU of Plovdiv, but 9 years later she began her academic development in the field of health management, social medicine and public health, when she became an assistant at the MU of Plovdiv.

She successively passed all levels of her academic career and in 2016 she was elected as an associate professor, and since 2023 she has been the Head of the Department of Health Management and Health Care Economics.

Assoc. Prof. Rositsa Dimova has many years of professional experience as a specialist in the field of public health and health management and is well acquainted with the problems of social medicine and health care in Bulgaria.

She defended a PhD Thesis for the scientific and educational degree *Doctor of Philosophy* (2003) in the specialty *Social Medicine and Organization of Health Care and Pharmacy*.

Assoc. Prof. Rositsa Dimova participates in the competition for *AP Professor* with 51 scientific publications, 1 habilitation thesis, 1 participation in a collective monograph (1 chapter), 1 published university textbook and 1 published university teaching aid.

She has an *h-index* of 5 and has been cited by 131 article authors.

Assoc. Prof. Rositsa Dimova is the supervisor of 5 doctoral students, 2 of whom have successfully defended their dissertation.

My overall assessment of her research and teaching activities is that she is **above the minimum national requirements and meets all the criteria for holding the academic position of "Professor"**.

I propose to the honourable members of the scientific jury to vote positively for Assoc. Prof. Rositsa Dimova, MD, PhD to occupy the academic position *Professor of Social Medicine and Organisation of Health Care and Pharmacy* at the Department of Health Management and Health Care Economics at the Faculty of Public health care at MU of Plovdiv.

08/05/2024

Reviewer: Prof. Valentina Madzhova, MD, PhD
Department of OM, Medical University – Varna



Заличено на основание
Чл.5 §1, б. "В" Регламент (ЕС)2016/679