To the Chairman of the Thesis Committee,
determined by Order № P-100-929/04.12.2024 year
of the Rector of the Medical University - Varna

Attached is: **Opinion**
on the procedure for filling the academic position of
"Associate Professor" - one position
in the specialty **"Prosthetic Dentistry"**

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Opinion

by

Prof. Dr. Yavor Stefanov Kalachev, DMD, PhD Department of Prosthetic Dental Medicine, Faculty of Medicine, Medical University – Plovdiv

member of the Scientific Jury on the procedure for filling the academic position of **„Associate Professor in the specialty of Prosthetic Dentistry**, professional field 7.2. Dental Medicine, field of higher education 7. **Health and Sports - one position** for the Educational Sector Dental Technician at the Medical College – Varna. The competition was announced in the State Gazette, issue 85/08.10.2024.

" According to the regulations of MU-Varna, one candidate was admitted to the competition: **chief assistant Dr. Radostina Panayotova Vasileva, DMD, PhD.**

Analysis of the candidate's career profile:

Dr. Radostina Panayotova Vasileva was born on 24.06.1974 in the town of Beloslav. In 1995 she graduated from the Medical College at the Medical University of Varna, majoring in "Dental Technician". In 2003 she graduated from the Faculty of Dentistry-Sofia, majoring in "Dentistry". In the period 2014-2017 she was a full-time doctoral student at the Department of "Prosthetic Dentistry and Orthodontics" at the Faculty of Dentistry-Varna. She obtained a major in "Prosthetic Dentistry" and defended a dissertation for the ONS "Doctor" on the topic: "Photography in modern prosthetic dentistry".

In the period 2018-2024 Dr. Vasileva is a chief assistant professor, specialty "prosthetic dentistry", at the Department of "prosthetic dentistry and dental materials science" at the Faculty of Dentistry-MU-Varna, and from 2024 to the present she is a chief assistant professor, specialty "prosthetic dentistry" at the Faculty of Dentistry at MU-Varna, specialty "Dental Technician".

Language skills:

English and Russian

Study load

The annual study load standard by decision of the Academic Council of MU-Varna, reflected in protocol No. 30/11.04.2011, is 360 hours.

Dr. Vasileva's teaching workload for the last 5 years is:

year	lectures	exercises	Pre-graduate internship	total hours for the academic year
2019/2020	6	132	228	366
2020/2021	18	164	240	422
2021/2022	22	233	240	495
2022/2023	(-)	(-)	(-)	motherhood
2023/2024	(-)	(-)	(-)	motherhood

Dr. Vasileva's teaching experience as of 15.10.2024 is 15 years, 7 months and 26 days

Scientific works of Dr. Vasileva:

The assessment of Dr. Vasileva's scientific output was prepared based on a reference from the Library of MU-Varna, in accordance with the Regulations for the implementation of the law on the development of the academic staff in the Republic of Bulgaria and the Regulations for the development of the academic staff of the Medical University - Varna.

1. Scientific production **covering** the minimum scientometric requirements for holding the academic position of "Associate Professor"
--Dissertation for the acquisition of the educational and scientific degree "Doctor" - Vasileva R. Photography in modern dentistry. MU-Varna; 2017.
--Habilitation work-monograph - Vasileva RP. Color determination in dentistry. Varna: IK Steno; 2019. 165 p.
--Publications and reports published in scientific journals, referenced and indexed in world-renowned databases of scientific information
(Dr. Vasileva presents 4 publications)
--Publications and reports published in non-refereed journals with scientific review or published in edited collective volumes
(Dr. Vasileva presents 15 publications)

2. Scientific production, **beyond the minimum scientometric requirements** for holding the academic position "Associate Professor"

--Full-text publications in scientific journals and collections, **beyond the minimum scientometric requirements for holding the position** of "Associate Professor"

(Dr. Vasileva presents 5 publications)

--Scientific publications that were used for holding the position of "Chief Assistant"

(Dr. Vasileva presents 4 publications)

--Scientific publications that were used for acquiring the degree of Phd

(Dr. Vasileva presents 3 publications)

The overall assessment of Dr. Vasileva's entire scientific output is that it meets the minimum scientometric requirements for holding the title of "Associate Professor".

Participation in scientific forums

Dr. Vasileva provides evidence of 22 participations in scientific forums.

active scientific profiles

Dr. Vasileva has active scientific profiles in Google Scholar and ORCID

Citation of Dr. Vasileva's scientific works:

Dr. Vasileva provides a list of 5 **citations that meet the minimum requirements** for holding the academic position of "associate professor":

Contributions to the scientific works of Dr. Vasileva:

The most important contributions to the scientific works of Dr. Vasileva are in the following areas:

I. Digital instruments and dental photography in dentistry

1. The main advantages and disadvantages of digital impressions used in dentistry are discussed. Many patients find digital impressions to be an easier and more convenient method than conventional dental impression techniques.
2. Unified terms in digital dental photography have been derived and proposed for use.

3. For the first time in Bulgaria, a textbook for students, dental technicians and practitioners has been published: "Guide to Dental Photography", which presents scientific and applied algorithms for isometric settings for single-lens reflex cameras and mobile devices for dental imaging.
4. For the first time in the country, the scientific and applied significance of dental photography in its comprehensiveness has been proven.
5. An author's algorithm for sterile conditions of photo documentation with single-lens reflex cameras during surgical interventions has been proposed.
6. The multidisciplinary importance of medical, dental, pharmaceutical digital imaging in modern healthcare was confirmed, and how the healthcare system is affected by new technologies. The socio-medical impact of new technologies after their introduction was examined.

II. Color determination, color rendering, color reproduction, dental laboratory communication

1. Additional settings to the standard for lighting in a dental office for correct color rendering and color reproduction are summarized. Lighting in dental offices is regulated by the imposed standard EN 12464-1:20111, which determines the specific minimum for illumination.
2. An algorithm has been derived for determining the quantitative changes in the color characteristics of teeth before and after a bleaching procedure, after digital analysis of the values of L*, a*, b* and HSB.
3. A preliminary test has been created for training and assessing the ability to determine color. Its main application is to consolidate, learn and memorize, quickly and accurately determine colors.
4. An author's photographic protocol for correct composition and a photo diary for the needs of prosthetic treatment has been introduced.
5. A photographic protocol has been created for correct color determination, surface and subsurface structure of teeth for the needs of the dental laboratory.

III. Prevention and management of some rare syndromes and diseases

1. The scientific and applied significance and impact of the application of botulinum toxin type A has been studied, with the aim of correcting and influencing masseter hypertrophy, bruxism and correction of a gingival smile.
2. The low prevalence of masseter hypertrophy among the Caucasian race has been proven, and the lack of sufficient research and data has been established.

3. The main steps of behavior in vascular obstruction after application of hyaluronic filler have been systematized. It has been proven that the application of the enzyme hyaluronidase is of paramount importance after injection applications in soft tissue augmentation and cosmetic procedures with hyaluronic acid-based filler.
4. The epidemiological and social aspects of bruxism have been examined. The role of prevention, the relationship between local changes in the dental system and the whole organism, as well as the need for complex treatment have been established.
5. The synergistic potentiating effect of antibiotic treatment of peri-implantitis in combination with metronidazole preparation was analyzed.
6. Fixed prosthetic restorations have a certain period of use. Most often they are removed by incision, which makes them unusable.

IV. Ergonomic conditions for safety and creation of optimal working conditions for dentists and dental technicians

1. The applied, scientific and socio-educational significance of the risk factors influencing the work of dental technicians in terms of potential toxic materials, dermatological and respiratory diseases is examined.
2. The direction of manufacturers of dental suction equipment working in several directions is analyzed: increasing the suction power, reducing the generated noise and electricity consumption, as well as adding filtering systems to protect practitioners.
3. The attitude of left-handed students from the Faculty of Dental Medicine (FDM) is studied in terms of the criteria: quality of teaching and the need to optimize the working environment in order to improve the training of left-handed students at FDM-Varna.

It was found that left-handed students studying dentistry at the Faculty of Dentistry-Varna experience greater difficulty from the inconvenience caused by the non-personalized design of the dental unit for them. The need for personalized teaching was established.

4. The mechanism and risks of musculoskeletal disorders (MSDs) were analyzed, and basic guidelines for prevention were systematized. A retrospective analysis of the available scientific literature was conducted, establishing the frequency of pain due to MSDs in over 72% of practitioners in the country, with women being higher.

5. The range of hand strength when tightening screws using a manual screwdriver on implants was established. The study includes the use of an experimental setup of a model with an implant placed in it.

CONCLUSION:

Dr. Vasileva has excellent theoretical and practical training, which enables her to conduct quality training. She is a well-established healer and is respected by colleagues, students and patients.

Dr. Vasileva is a participant in numerous scientific forums and courses. in the field of Prosthetic Dentistry. She is the author of publications in Bulgaria and abroad.

Dr. Vasileva's scientometric indicators meet the minimum scientometric requirements of MU-Varna for holding the academic position of Associate Professor. For this reason, after a thorough and critical analysis of the overall scientific and teaching activity of Dr. Vasilea, I will vote with conviction and unequivocally "YES" for awarding the Academic position of "**Associate Professor**" to **Radostina Panayotova Vasilea, DMD, PhD.**

Plovdiv
23.02.2025

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(Prof. Yavor Kalachev, DMD, PhD)