

REVIEW

by

Assoc. Prof. Dr. Dobrinka Mitkova Damyanova, PhD, MD

Internal member of the Scientific Jury for the procedure of holding

an academic position "**Associate professor**" on major

"Pediatric dentistry", professional direction

7.2 Dentistry, field of higher education

7. Health and sport, announced in the State Gazette no. 83 of

03.10.2023 for the needs of the Department of Pediatric Dental Medicine

By order No. P-109-519/30.11.2023 of the Rector of the MU "Prof. Dr. P. Stoyanov" in the city of Varna, I have been appointed as an internal member of the Scientific Jury and by Protocol No. 1 of the first meeting of the Scientific jury, to prepare a review on the procedure for holding the academic position of "**Associate professor**" on major "Pediatric Dentistry", with the applicant being Chief. Assist. Dr. Sirma Todorova Angelova PhD, MD at MU-Varna.

For the competition, a complete set of documents was submitted by one applicant within the legally established deadline - Chief. Assist. Dr. Sirma Todorova Angelova Phd, MD.

Biographical data for the applicant

Dr. Sirma Todorova Angelova PhD, MD was born on 14.12.1980 in the city of Dobrich, Bulgaria. In 1999 she graduated from the "Geo Milev" Language High School in the city of Dobrich, majoring in English and German, in 2005 from the University of Economics - Varna with a major in International Finance, and in 2011 from the Medical University in the city of Varna as a dentist. Dr. Sirma Angelova has a recognized specialty in Pediatric Dentistry since 2015 and since 2017 she has obtained the educational and scientific degree "Doctor" in the "Pediatric Dentistry". Additional qualification of the applicant with participations in: International Conference on "Modern Molecular-Biochemical Markers in Clinical and Experimental Medicine" - 2018, Qualification course in intensive specialized foreign language training in English for Dental Medicine and German language, Pedagogical competence 1st level and etc.

Academic development

Dr. Sirma Angelova PhD, MD since 2011 has been an assistant at the Department of "Pediatric Dental Medicine" and since 2018 until now has been working in the academic position of "chief assistant" at the same Department in FDM at the MU "Prof. Dr. P. Stoyanov" in the city of Varna. The title of the defended dissertation by Dr. S. Angelova is: "Evaluation and prevention of caries risk in children suffering from certain kidney diseases". Dr. S. Angelova PhD, MD, has published a monographic work entitled "Epigenetic and genetic aspects of oral health in children with pyelonephritis" with a total volume of 219 pages and publishing house - MU "Prof. Dr. P. Stoyanov" city of Varna from 05.2019. ISBN 978-619-221-201-8.

Dr. Sirma Angelova PhD, MD, has published the following full-text articles and summaries of reports: for the period 2018 to 2023 - 43 with a total volume of 223 pages, 3 full-text publications with a total volume of 20 pages (outside the list of publications related to this competition), posters and presentations at congresses, video presentations for the period 2018-2023 – 41 with a total volume of 341 pages and for the period up to 2017 – 11 posters and presentations in total.

Dr. Sirma Angelova, MD, has published the following full-text articles and abstracts of reports: for the period 2011 to 2017 – 26 and 3 full-text articles in connection with her dissertation until 2017.

The author has submitted an Appendix for her participations in national and international scientific events for the period 2018-2023.

Participation in research projects

Dr. Sirma Angelova PhD, MD participated: 1. in a large scientific Project No. 18036 "Identification of biomarkers in saliva for the assessment of the risk profile of gingival health in childhood", led by Prof. Diana Ivanova PhD, D.B.Sc., with a result of 100% approval (12.2018);

2. Scientific directions and groups at the Scientific Research Institute of MU-Varna with director: Prof. Dr. Anton Tonchev PhD, Dr.M.Sc.; Area - Public health and disease management; Scientific group – Molecular biomarkers for personalized medicine and head Prof. Bistra Galunska PhD, Pharm. Dr. of (02.2019).

Participation in scientific forums

Dr. Sirma Angelova PhD, MD presents 106 certified participations in scientific events.

Membership in professional and scientific organizations

Dr. Sirma Angelova PhD, MD is a member of Bulgarian and international professional organizations: 1. Bulgarian Dental Association; 2. National Association of Doctors of Pediatric Dental Medicine; 3. Union of Scientists in Bulgaria - Regional College - Varna; 4. European Academy of Pediatric Dentistry; 5. International Association of Pediatric Dentistry; 6. NuGO membership; Excellence in Pediatrics Community membership etc.

Guided classes in academic disciplines

Chief Assistant Dr. Sirma Angelova PhD, MD teaches exercises and lectures on Propedeutics of Pediatric Dentistry, Dental Prophylaxis, Clinic of Pediatric Dentistry and Pre-graduate State Internship to students from Bulgarian- and English-language study programs at the Department of "Pediatric Dental Medicine", FDM, MU- Varna.

Languages used for communication

Chief Assistant Dr. Sirma Angelova PhD, MD has excellent command of English at B2 level and German.

Contributions from the scientific works of Dr. Sirma Angelova PhD, MD

The scientific works and results of scientific, project and research work presented to me for review are thematically divided into the following areas:

- I. Assessment of caries risk in children suffering from certain kidney diseases. Prevention.
- II. Oral health in children with pyelonephritis.
- III. Genetic aspects of oral health.

In a monographic work entitled "Epigenetic and genetic aspects of oral health in children with pyelonephritis", the author presents the relationship between the disease pyelonephritis and oral health in childhood. She establishes regularity in relation to the constellation of environmental factors and their multifaceted manifestations, the heterogeneous behavioral patterns at the individual and societal level, combined with inducers, promoters and precursors of a genetic nature, which influence the initiation and progression of oral diseases.

Gene expression levels of the indicators in saliva were investigated: IL-6, CA, GSS, MMP-8. The significance of these salivary biomarkers for the dental and oral status of pediatric patients diagnosed with pyelonephritis was investigated. An analysis and conclusions with conclusions on the research were prepared by Dr. Sirma Angelova PhD, MD.

The monographic work contains established regularities for the presence of dependence between the levels of gene expression of certain risk and protective indicators in saliva and clinical

indicators reporting the state of hard dental tissues and gingiva, with significant dependencies between them reported. The author concludes that genes predetermine to a certain extent the clinical manifestations at the level of oral status, the characteristics of the environment taking precedence, carrying the potential for upgrading, remodeling, transforming and genetically coded predisposition into an adequate phenotypic expression according to the requirements and specifics of the environment.

The original contributions from Dr. Angelova's dissertation - "Assessment and prevention of caries risk in children suffering from certain kidney diseases" are the following:

1. Comprehensive assessment of the risk of dental caries among children aged 0 to 18 years, suffering from diseases of the excretory system - pyelonephritis and nephrotic syndrome.
2. A model was constructed to assess the level of dental caries risk among children with diagnosed nephrotic syndrome and pyelonephritis.
3. A combination of salivary markers: Ph, nitrites, blood, glucose and leukocytes, was applied as definitive predictors for caries risk assessment among patients suffering from nephrotic syndrome and pyelonephritis in childhood.
4. The level of secretory immunoglobulin A (sIg A) in unstimulated mixed saliva was investigated as an indicator to assess the risk of dental caries among participants with diagnosed nephrotic syndrome and pyelonephritis and other contributions of a confirmatory nature.

Varia

The diseases periodontitis, pulpitis and periodontitis can be characterized by modification in the patterns of gene expression of inflammatory cytokines. It is also important to determine the epigenetic markers with a view to effective prevention and targeted treatment of oral diseases. Effective parameter management ensures the maintenance of optimal oral health and is a priority in our clinical practice.

Evaluation of the scientometric indicators for the competition, according to Academic reference from MU-Varna for the scientific production of Chief. Assist. Dr. S. Angelova PhD, MD.

SCIENTOMETRIC INDICATORS PRESENTED FOR OCCUPYING THE ACADEMIC POSITION "ASSOCIATE PROFESSOR" AREA 7. HEALTHCARE AND SPORTS

Scientific output covering the minimum scientometric requirements

Indicator	No	Dissertation, Monograph, Publications	Number of points

Dissertation work	1.	MU- Varna	50 p.
Habilitation thesis - monograph	2.	MU – Varna Until 16.05.2019	100 p.
Publications and reports in scientific publications, refereed and indexed in world-renowned databases of scientific information	3.	Elsevier Databases: Scopus; Web of Science	249,14
Publications and reports published in non-refereed peer-reviewed journals or published in edited collective volumes	4.		756
Total points	5. Total points		1005,14
Citations or reviews in scientific publications, refereed and indexed in world-renowned databases of scientific information, in monographs and collective volumes	6.		12 pieces
Citations in monographs and peer-reviewed collective volumes	7.		0
Citations or reviews in non-refereed peer-reviewed journals	8.		31 pieces
Total citations	9.		43/335 total points

The applicant for the current competition Chief. Assist. Dr. Sirma Angelova PhD, MD, has published in journals with a high **IMPACT FACTOR EQUAL TO TOTAL: 9.891**.

Therapeutic and diagnostic activity

Chief Assistant Dr. Sirma Angelova PhD, MD also works at the University Medical-Dental Center at the Faculty of Dental Medicine of the MU "Prof. Dr. Paraskev Stoyanov" city of Varna and is part of the center's clinical team.

The applicant for the competition has 12 years of work experience in the Department of "Pediatric Dental Medicine" of the Faculty of Medicine at the MU - Varna, of which she worked on the AP "Assistant" in a higher school with an experience of 6 years and 5 months and on the AP "Chief Assistant" has worked for 5 years and 6 months.

Dr. Angelova PhD, MD is a teacher with significant clinical, research, experimental and educational experience and fully meets the criteria for the proposed competition for the "Associate professor" academic position. She possesses knowledge and skills for independent conduct of scientific research, processing of data and results, and mathematical statistical analysis of them.

Conclusion

From the documents provided to me and the scientific production of **Chief. Assist. Dr. Sirma Todorova Angelova PhD, MD**, I believe that the applicant meets the scientometric indicators required by the Regulations for the Development of the Academic Staff (RDAS) of the Medical University of Varna, the Law on the Development of the Academic Staff of the Republic of Bulgaria (LDASRB) and the Regulations for the Implementation of the Law on the Development of the Academic Staff of the Republic of Bulgaria (RILDASRB), and I confirm that she has fulfilled them. **I vote positive for Dr. Sirma Todorova Angelova PhD, MD to acquire AP "Associate professor" in the specialty of "Pediatric Dentistry", professional direction 7.2 Dental Medicine, field of higher education 7. Health care and sports.**

city of Varna

24.01.2024

MD/

Заличено на основание чл. 5,
§1, б. „Б“ от Регламент (ЕС)
2016/679

Review compiler:.....

/ Assoc. Prof. Dr. Dobrinka Damyanova PhD,