REVIEW

by

Prof. Dr. Tihomir Dobrinov Georgiev, DDS, MSc, PhD

Head of Oral surgery department

FDM, MU – Varna

Subject: Competition for to take an the academic position of "Associate Professor" in the field of higher education 7. "Health and Sports" in professional field 7.2. Dentistry in the scientific specialty "Pediatric Dentistry", published in the State Gazette No. 86 of 06.10.2020 for the needs of the Department of Pediatric Dental Medicine.

By order № P-109-563/04.12.2020 of the Rector of MU-Varna I was appointed a member of the Scientific Jury to prepare an Review.

A set of documents has been submitted for this competition within the legally established term by one candidate - Ch. Asst. Dr. Dobrinka Mitkova Damyanova, PhD.

Details about the candidate:

Dr. Dobrinka Mitkova Damyanova PhD was born on February 15, 1973 in the city of Vidin. Marital status - married.

In 1997 she graduated from the Medical University - Sofia, with a master's degree in dental medicine. In 2004 she acquired a specialty in General dentistry. In 2014 she acquired a second specialty in Pediatric dentistry. In 2017 she acquired the educational and scientific degree "Doctor" in the specialty "Pediatric dentistry" with a dissertation on " Prevention and treatment of initial dental caries with fluoride varnishes in children from 3 to 6 years ".

The candidate Dr. Dobrinka Mitkova Damyanova, PhD submits for the competition the following scientific papers:

1. Dissertation – 1 pc

2. Publications in periodicals – 56 pcs, with a total volume of 273 pages.

3. Monograph – 1 pc with a total volume of 145 pages.

4. Participation in scientific congresses, conferences and scientific sessions with printed abstracts – 11;

5. Reports – 19 pcs.

In analyzing the publications of Dr. Damyanova – they are diverse and cover the entire aspect of the specialty of pediatric dentistry.

Training/teaching activity:

Dr. Damyanova takes an active part in the teaching activities of the Department of Pediatric Dentistry and has the average annual workload required by the Regulations for the development of the academic staff. Dr. Damyanova participates both in the course of Bulgarian language teaching and in the course of English language teaching of dental students, as her average workload for the last 5 years comprises 406 hours. During all the years I have worked together with Dr. Damyanova, I can firmly say that she has proven qualities of a lecturer and has been one of the most prominent assistants, who is happy to pass on her experience to students.

Contributions from the scientific works of Dr. Damyanova:

The presented scientific works and the results of the research work are, in topic divided into the following scientific fields:

1. Invasive treatment of irreversible pulpitis of primary teeth
2. Cariesology – diagnostics and treatment of cavitated carious lesions
3. Prevention and non-invasive treatment of noncavitated carious lesions
4. Varia

The results of the scientific research are cited in 10 bibliographic sources, of which:

• Citations or reviews in scientific journals, refereed and indexed in world-famous databases with scientific information or in monographs and collective volumes - 3 issues

• Citations or reviews in not referenced journals with scientific review - 9 issues

Invasive treatment of irreversible pulpitis of primary teeth

1. The current clinical cases considered illustrate the most common diagnoses and the steps involved in preparing a treatment plan.
2. The separate chapters present case studies as a basis for discussing various treatment options, including preventive and non-invasive treatment of initial caries, invasive treatment of cavitated lesions and choice of endodontic therapy for the treatment of irreversible open and closed pulpitis.
3. The unique approach supports the trend in case-based and problem-based training, comprehensively covering the full range of endodontic treatments for pulpal inflammation of primary teeth.
4. Covers all the major topics in the endodontics of the primary dentition.
5. Provides final reference work on the methods of endodontic treatment of primary teeth.
6. Clinical cases in endodontics are an ideal resource for students who master endodontic treatment and prepare for clinical examinations and study the latest treatment protocols based on real evidence.

7. In order to describe the proposed concepts, more than 100 instructive illustrations, tables, graphs and photos are presented.

Cariesology – diagnostics and treatment of cavitated carious lesions

1. Describes techniques for a wide range of non-invasive, minimally invasive and invasive procedures.
2. For the first time an in vitro study of the processes of de- and remineralization with the formation and growth of crystals occurring on the enamel surface of primary teeth was performed.
3. For the first time with our experiment we proved that acid forms deep irregularities on the enamel surface, in which the globules of calcium difluoride are well protected.
4. For the first time the efficacy of mineralizing fluoride varnish CV (Clinpro White Varnish, 3M ™) was studied in order to apply it for non-invasive treatment and remineralization of the initial dental lesions of primary teeth.
5. The conducted instrumental examination with DIAGNOdent Pen in clinical conditions improves the diagnostics and the need for early treatment of carious lesions d1 and d2 in the primary dentition.

Prevention and non-invasive treatment of non-cavitated carious lesions

1. The works include contributions from clinical innovative methods in the field of preventive and non-invasive treatment of the initial caries with mineralizing and fluorine varnishes.
2. Criteria for remineralization of carious lesions d1 and d2 have been developed.
3. A protocol for the clinical methodology of application of CV varnish (Clinpro White Varnish, 3M ™) has been created.
4. The in vivo study conducted of the remineralization processes occurring on the enamel surface by means of mineralizing varnish for 1 year shows the

excellent results of the non-invasive treatment with the varnish for the primary teeth in the studied group of children.

Varia

1. The transition from general to increasingly complex pediatric clinical cases allows readers to build their skills by supporting their ability to think critically and independently.

Medical - diagnostic activity:

Dr. Dobrinka Damyanova has been working at the University Medical - Dental Center since its opening in 2015, being an indispensable part of the center's staff. A Chief Assistant with such clinical experience gained over 6 years is a valuable asset for the academic staff of the Department of Pediatric dental medicine and would easily respond to the academic title of "Associate Professor".

Conclusion:

After a detailed consideration of the documents and scientific developments provided to me, which prove the scientific and professional development of Dr. Dobrinka Damyanova, I can confirm that she fully meets the advanced requirements for awarding the academic position "Associate Professor". I will vote positively for Dr. Dobrinka Damyanova to take an academic position of "Associate Professor" in the field of higher education 7. Health and Sports, professional field 7.2. Dentistry, in the scientific specialty "Pediatric dentistry".

City of Varna Prof. Dr. Tihomir Georgiev, DDS, MSc, PhD

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