

## **EXPERT OPINION**

**Prof. d-r Georgi Todorov, MD,PhD**

Regarding: competition for the academic position of "ASSOCIATE PROFESSOR", announced in the St.G. no. 83/03.10.2023

One candidate submitted documents for the competition. This is Dr. Jendo Atanasov Djendov dm. Dr. Djendov is the assistant and meets the conditions for participation according to the RSASR and PRAS in the MU-Varna.

After reviewing the presented documents, an opinion was drawn up, including:

### **1. Brief biographical data:**

- Dr. Djendov 1995-2000 obtained a master's degree at the Technical University - Varna
- 1999-2006 graduated from FDM, MU - Plovdiv, acquired a master's degree in dental medicine
- since 2009 is a full-time assistant at the Department of "Dental Materials Science and Propedeutics of Prosthetic Dentistry" at the Faculty of Medical Sciences, MU-Varna
- 2017 sews a dissertation on the topic "Fixable prosthetic structures from Co - Cr alloys made by technologies with material addition"
- from 2018 is a principal assistant
- has acquired the specialty Prosthetic Dentistry

### **2. Study workload**

According to the presented certificate and documents 8 and 13, for the last five years, Dr. Djendov has had a total study load of exercises and pre-graduate training (by years) as follows:

- 2018/2019 – 372 hours;
- 2019/2020 – 366 hours;
- 2020/2021 – 396 hours;

- 2021/2022 - 464 hours;
- 2022/2023 - 451 hours;
- lectures 2022/2023 – 55 hours;

### **Scientific activity**

### **3. PhD Thesis, monographic book**

In 2017, Dr. Djendov defended a PhD thesis for the acquisition of an educational and scientific degree "Doctor", on the topic "Fixable prosthetic structures from Co - Cr alloys made by technologies with the addition of material"

In the dissertation, a comparative characterization of non-removable prosthetic structures made of Co-Cr alloys according to three technologies is made: 1) classical - casting from a hand-made wax model; 2) casting from a 3D printed model and 3) selective laser melting. Standard specimens of Co-Cr alloys were tested for tensile strength. The geometrical accuracy of the 4-member Co-Cr bridges produced by TIDM was investigated and compared with the classical technology regarding dimensional accuracy, adjustment accuracy and surface roughness. Density, microstructure, mechanical properties - hardness, tensile strength, yield strength and modulus of elasticity were also investigated. The adhesion strength of porcelain to Co-Cr alloy was also investigated. Clinical and laboratory protocols have been developed for the treatment of non-removable prosthetic structures made using multi-jet printing and selective laser melting.

A monographic paperwork "The Virtual Patient in Dental Medicine Education" has been published. Second supplemented edition of the monographic work - 2023. has a volume of 155 pages, bibliography by 278 authors, 65 figures, 2 tables. The figures used are of high quality, detailed and precisely themed author's developments, studies, schemes are presented. The studies, experiments and analyzes were carried out by Dr. Djendov for several years.

The applications of simulators in the various fields of dentistry are reviewed. Information is presented on the connections between the simulators and paraclinical research tools such as intraoral, facial and cone beam tomographs. The ways of teaching the students with the help of these means are analyzed. Possibilities to ease the work of left-handed students in the simulation centers and halls were considered. Student opinion on online dental education was

investigated in 20 questions and relevant conclusions were drawn. Attention is drawn to 5G and the possibilities of application in dental education.

In the documents for the competition, the dissertation work and the monograph are presented in an academic reference, document 13. They are considered according to criteria A and B, and the corresponding 150 points for occupying the academic position "Assoc. Prof."

#### **4. Scientific publications**

According to document 17.1 and document 13 under criteria D, seven publications are presented, published in scientific editions, referenced and indexed by scientific information databases Scopus and Web of Science. According to the same criteria, ten more publications in non-refereed journals were presented.

A total of 19 scientific works is indicated as evidentiary material covering the minimum scientometric indicators for holding the position of associate professor. Of these: dissertation work for the award of the National Academy of Sciences "Doctor" - 1 item, monograph - 1 item, 7 articles in scientific publications, referenced and indexed in Scopus and Web of Science, 10 articles in peer-reviewed journals, non-refereed in databases of scientific information. (document 13).

Beyond the minimum requirements, 4 more full-text publications in Bulgarian journals are submitted.

The total number of points (from 17 publications under indicator D, and from indicators A and B) is 217, with a mandatory minimum of 200 points according to the criteria for occupying the academic position of "Associate Professor".

In 43% of the scientific developments, the candidate is the first author (10 publications), in 7 publications he is the second author (30%), in the remaining 6 publications (27% he is the third and subsequent author).

The topics of the publications cover: application of modern technologies in prosthetic dentistry; implementation of new methods for training students, dental technicians and interns; comparative analysis of the geometric surfaces of non-removable structures; analysis of constructions made by 3D printing; hardness and creep of Co – Cr alloys are investigated; the tribo-corrosion properties and

adhesion strength of the ceramic coating of Co – Cr alloys are investigated; what difficulties do left-wing students encounter at work, etc. I must have omitted to present part of the subject matter of some of the presented 17 publications.

I definitely consider the presented scientific publications to be sufficient, showing comprehensiveness, rich information and original solutions according to modern protocols, approaches and analyses, which Dr. Djendov skillfully and precisely knows and handles.

## **5. Citations**

In the competition documents, 12 citations are presented, which according to indicator D carry 180 points according to the criteria for occupying the academic position of "Assoc. Prof."

Dr. Djendov's scientific publications have been cited many times in scientific publications, monographs, referenced and indexed in Web of Science and Scopus databases, as well as in non-refereed journals, excluding self-citations by all authors. I accept 12 of them as evidence covering the minimum scientometric requirements for occupying the AD "associate professor" for the current competition (Academic reference No. 890/2.11.2023).

The author's individual h-index is 10 according to Google Scholar and 3 in Web of Science.

The candidate has active scientific profiles in: Scopus, Web of Science

ORCID, Google Scholar.

## **6. Other scientific forums:**

The results of the research work have been presented at scientific forums abroad and in Bulgaria (List 19 of the attached documents).

Oral presentations and posters were given at 31 scientific forums, of which 25 are in Bulgaria, with international participation there are 6 - abroad: Macedonia, Russia, France, Italy, Portugal and Lithuania.

I do not find in the competition documents Dr. Djendov's participation in scientific projects.

I believe that further work in this direction is imperative. This finding of mine in no way affects my final assessment of the candidate.

## **7. Conclusion:**

Perhaps I have missed some part, I have not specified well another, but this is what happens when there is scientific and teaching activity covering many protocols and activities in prosthetic dentistry.

From the documents, publications, and participations presented in the competition, it is clear that the candidate, Dr. Djendov, has the skills of a teacher, qualitatively experiments, researches and analyzes.

As proof of this, I accept document 18 - author's reference for the scientific contributions, very well presented through a general characteristic and thematic orientation in two directions.

**After the complete analysis of the presented documents, I consider that the candidate Dr. Djendo Atanasov Djendov meets all the requirements for occupying the academic position "Associate professor".**

**I confidently give a positive assessment, I will vote "YES" for awarding the academic position of "Associate Professor" to Dr. Djendo Atanasov Djendov.**

05.02.2023

Plovdiv

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

Prof. d-r Georgi Todorov, MD, PhD