OPINION

by Assoc. Prof. Dr. Georgi Papanchev, PhD Department of Oral Surgery Faculty of Dental Medicine, Medical University of Varna

for a competition for aquiring the academic position "Associate Professor" in the sphere of higher education 7. Healthcare and Sports, professional field 7.2. Dentistry, specialty "Dental Implantoogy"

To the Faculty of Dental Medicine
Department of Periodontology and Dental Implantology,
according to an announcement in the State Gazette, issue 53 of 12.06.2020

The procedure for announcing the competition is in accordance with the law requirements, no procedural irregularities have been identified. Documents for the competition have been submitted by one candidate - Chief Assistant. Dr. Elitsa Petkova Sabeva-Peeva.

I. Brief biographical data about the candidate

Dr. Sabeva was born on July 5, 1989 in the city of Varna. In 2014 graduated from the Faculty of Dental Medicine, Medical University - Varna, and in 2016 - acquired PhD in" Therapeutic Dentistry after defending a dissertation on" Factors affecting the primary stability of intraosseous screw implants. Acquired the specialty "Dental Implantology in 2019. Since 2014 she has been an assistant in the Department of Periodontology and Dental Implantology, and since 2017 - Chief Assistant.

II. Research activity of the candidate - evaluation of the quantitive and qualitative indicators

- 1. Monograph "Etiology and treatment of periimplantitis." 172p.
- 2. Full-text publications 28, on 9 of which Dr Sabeva is first or only one author.
- 3. Participation in international congresses and conferences- 2 pieces.
- 4. Participation in scientific projects 2 pieces.
- 5. Citations 24 pieces, 2 in refereed editions.

III. Scientific field in which candidate has mainly worked and where the scientific publications are concentrated:

- Dental implantology
- Periodontology

IV. Scientific and applied contributions of Dr. Sabeva's publications are:



Original contributions

For the first time in the world, she uses infrared thermography to visualize and measure the rise in temperature in the area of the sacrum during the placement of intraosseous screw implants, and to assess the influence of implant design parameters on the amount of heat generated.

For the first time, she used PLA simulated 3D-printed mandibular models to assess the primary stability of intraosseous screw implants placed in them.

She found that when the diameter of the implants was increased by 0.7 mm, primary stability was observed, which was similar to that observed when their length was increased by 2 mm.

Confirmatory contributions

She confirms that with increasing implant diameter, the primary stability of intraosseous screw implants also increases.

She confirms that with increasing implant length, the primary stability of intraosseous screw implants also increases.

Sheconfirms that the primary stability achieved by increasing the implant diameter is not comparable to that obtained by increasing the length of the implants.

Confirms that implants with a sandblasted and then acid etched surface exhibit higher primary stability than machine-treated implants.

Confirms that implants with a higher threaded profile demonstrate higher primary stability.

Confirms that conical implants have higher primary stability than cylindrical ones with the same other parameters.

Confirms the proportional relationship between the methods for measuring primary stability and the implant diameter.

Confirms the directly proportional relationship between the maximum torque during placement, the measurement of the damping capacity and the implant length, as well as the inversely proportional relationship between the values of the resonant frequency analysis and the length of the implants.

Confirms the high success of both reduced diameter implants and reduced length implants. Confirms the fact that reduced-size implants can be a reliable alternative to conventional-sized implants in combination with bone augmentation procedures.

Confirms the high survival of implants placed simultaneously with lateralization or transposition of the inferior alveolar nerve. Confirms that neurosensory dysfunction as a result of the procedure is usually transient. Confirms the use of piezosurgical technique during the manipulation.

Confirms the high survival of both implants placed simultaneously with lifting the sinus floor with lateral access, and those placed delayed in the second stage after the procedure.

Confirms the high survival of subperiosteal implants with a long follow-up period.

Confirms that among other procedures to increase the volume of available bone, longitudinal split osteotomy of the alveolar ridge has the lowest survival. It confirms that in over 50% of the cases in which a complication is observed in the longitudinal split osteotomy of the alveolar ridge, it is a fracture of the vestibular bone plate. The method is associated with high average values of marginal bone loss.

Confirms the high survival of implants placed simultaneously with guided bone regeneration. Confirms that there are no significant differences in the results of periodontitis treatment with additional application of Nd: YAG laser to conventional therapy based on scaling and root planing. Confirms that the higher thread profile of implants, even with a larger thread pitch, affects the primary stability of implants to a greater extent than their surface modification, taking into account the results of three different methods for assessing the primary stability.



She confirms that implants placed in thicker bone with a thicker cortical layer, as well as implants placed in the lower jaw, demonstrate greater primary stability. In conclusion, we proposed the use of implants with design characteristics that have been shown to improve primary stability in the event of deteriorating bone characteristics.

Confirms the use of CAD / CAM technologies for the purposes of pediatric dentistry.

Confirms the benefits of treating dental defects with the help of composites, glass ionomer cements, componers and indirect restorations.

Confirms the high survival and unstable level of marginal bone in implants placed in bone augmented by autogenous bone block graft.

Confirms that guided implant surgery leads to a greater rise in bone temperature compared to the conventional approach, and we have formulated recommendations to prevent bone from overheating during implant surgery.

She confirms that the greatest influence on the results of the resonance-frequency analysis have: bone density, bone-implant contact, implant diameter and the orientation of the transducer of the device.

She confirms that pain and poor shadow in the apical region of the implants are the most common diagnostic signs of retrograde periimplantitis. Confirms the multifactorial etiology of the disease. She confirms that in both periodontitis and periimplantitis, additional antibiotic therapy may favor the outcome of treatment.

Confirms that the history of periodontitis, the characteristics of the implant surface, the relationship between the implant platform and the superstructure, the use of cementing structures, the condition of the mucosa around the implants, diabetes and smoking may play the role of additional etiological factors for the development of feathers.

V. Educational- teaching activity

Dr. Sabeva conducts training and lectures in periodontology with dental students training in Bulgarian and English language. Its workload for the last 5 years is:

2014/2015 - 292 hours

2015/2016- 258 hours

2016/2017 - 325 hours

2017/2018 - 175 hours

2019/2020 - 111 hours

Conclusion

In conclusion, I have known Dr. Sabeva since her student years and I have excellent impressions. At present she is a respected teacher, a good doctor with proven professional qualities. Scientific production and teaching workload of Dr. Elitsa Sabeva, PhD fully meet the requirements of PRAS and the Regulations on the terms and conditions for obtaining scientific degrees and holding academic positions at MU - Varna. That gives me a reason confident to propose to the esteemed scientific jury to vote positively for the award of the academic position "Associate Professor" to Dr.



Elitsa Sabeva, PhD in the sphere of higher education 7. Healthcare and Sports, professional field 7.2. Dentistry, specialty "Dental Implantoogy".

09 Oct 2020

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