



## Opinion

By Assoc. Prof. Hristo Ivanov Daskalov, DMD, PhD, Faculty of Dental Medicine  
of the Medical University of Plovdiv,  
Department of Oral Surgery, specialist in oral surgery

### regarding

dissertation for awarding doctoral degree

Professional field – Dental Medicine

Doctoral program – Oral Surgery

Author: Nikolay Dimitrov Kanazirski, DMD

Form of doctoral study: self-training PhD student

Department of Oral Surgery at the Faculty of Dental Medicine of the Medical  
University of Plovdiv

Theme “Er:Yag Laser Implant Site Preparation for Placement of Dental Screw  
Implants: Clinical, Histological and Morphological Studies”

Academic supervisor: Assoc. Prof. Dr. Deyan Neychev, DMD, PhD

This opinion was prepared in accordance with Order of the Rector of the Medical  
University of Plovdiv No. P-3317/15.11.2023, in connection with the defence  
procedure of the aforementioned dissertation in the scientific specialty: Oral  
Surgery 03.03.04. It is in compliance with the Act for the Development of the  
Academic Staff, its Implementation Rules, and the Rules governing the Structure  
and Activities of the Medical University of Plovdiv.

### 1. General Presentation of the Procedure and the Doctoral Candidate

The provided set of materials, both in paper and electronic formats, complies with  
the Rules of the Medical University of Plovdiv. All materials were meticulously  
prepared and presented.

The doctoral candidate has submitted three articles related to the dissertation and  
two participations in scientific events. Additionally, the doctoral candidate has

presented evidence of conducting lectures in postgraduate education courses focused on the dissertation's theme.

Dr. Kanazirski holds specializations in oral surgery, implantology, and general dentistry. He has extensive experience in both teaching and supervising a great number of specializing doctors.

It is evident from the submitted documentation that Dr. Kanazirski possesses the necessary scientific competence and professional qualifications for obtaining a doctoral degree.

## **2. Significance of the Theme**

The dissertation addresses a substantial issue in oral surgery and implantology. Given the rapid advancement in dental implantology in recent years, there is a continuous quest for new methods to enhance clinical outcomes. This issue is a globally discussed topic aiming to improve dental implant stability and expedite definitive loading. The reasons for this are that, on the one hand, the patients seek more rapid restoration of masticatory function, and on the other hand, the clinicians aim for predictability and assurance in the treatment process.

Given the above, the choice of the dissertation theme is significant and apt for a doctoral dissertation.

## **3. Understanding of the Issue**

The literature review encompasses 232 references (229 using Latin alphabeth and 3 using Cyrillic alphabeth). The bibliography complies with the requirements.

The literature review is comprehensive, targeted, analytical and covers all aspects of the issue, spanning 45 pages. The current status of the issue is adeptly outlined, and unresolved aspects are clearly delineated.

Based on this review, the objective of the scientific work — “To assess the dynamics in the process of osseointegration during Er:YAG laser treatment of the implant site” — was formulated.

Dr. Kanazirski demonstrates a deep understanding of the issue and approaches the literary material creatively.

#### **4. Characteristics and Evaluation of the Dissertation and Contributions**

The dissertation spans 152 pages, featuring 25 tables, 34 figures, and 4 appendices. The bibliography includes 232 references.

The structure of work aligns with the requirements for dissertation set in the Rules of the Medical University of Plovdiv and the Act for the Development of the Academic Staff in the Republic of Bulgaria.

To fulfill the set goal, the doctoral candidate formulated 4 tasks, with the third task encompassing two subtasks. These tasks sufficiently substantiate the developed thesis.

The clinical material used in the study is substantial. Both experimental models of mandibular osteotomy and patients in whom the author’s original methodology was employed are included. The Material and Methods sections are constructed correctly and comprehensively. The results are well-structured and supported with illustrations. The research conducted indicates a significant reduction in the amorphous layer of the implant site when utilizing the method described in the dissertation. This leads to increased implant stability, with measured stability at day 30 close to or equivalent to secondary stability, signifying rapid osseointegration development. This indicates the method's potential promotion and implementation in dental practice. Based on this, a useful model was created and registered at the Patent Office.

The analysis and discussion of the results demonstrate the doctoral candidate's strong professional training and profound clinical acumen.

Seven conclusions logically follow the obtained results.

The contributions are original, applied, and confirmatory.

## **5. Author's Summary**

The author's summary of the dissertation meets the requirements and accurately reflects the main results obtained by the author.

## **CONCLUSION**

The dissertation of Dr. Nikolay Dimitrov Kanazirski themed "Er:Yag Laser Implant Site Preparation for Placement of Dental Screw Implants: Clinical, Histological and Morphological Studies", submitted to me for opinion, addresses a significant issue in oral surgery concerning the development of a method to enhance dental implant stability. Given the above, the choice of the theme of the dissertation is of great significance.

The extensive literature review and its creative assessment allowed Dr. Kanazirski to formulate the objective of the scientific work — "To assess the dynamics in the process of osseointegration during Er:YAG laser treatment of the implant site".

The dissertation contains clinical material that is of scientific interest. The presentation and interpretation of the results gives me reason to assume that the dissertation represents a completed scientific study and is the personal work of the doctoral candidate.

Evaluating the merits of this work, I state that it has been completed in accordance with the requirements for awarding a DOCTORAL degree as stipulated in the Higher Education Act, the Development of the Academic Staff in the Republic of Bulgaria Act, and its Implementation Rules.

The submitted materials and dissertation results comply with the specific requirements of the Rules of the Medical University of Plovdiv, adopted in

connection with the implementation of the Act for the Development of the Academic Staff in the Republic of Bulgaria.

Consequently, I express a **positive opinion** on the dissertation and **I propose to the esteemed scientific jury to award doctoral degree** to Nikolay Dimitrov Kanazirski, DMD, under the doctoral programme Oral Surgery, code 03.03.04.

**Date:**

17 Nov 2023

**Opinion by:**

/Assoc Prof. Hristo Ivanov Daskalov, DMD, PhD/



Заличено на основание  
Чл.5 §1, 6."В" Регламент (ЕС)2016/679

The image shows a handwritten signature in blue ink over a red stamp. The stamp contains the text "Заличено на основание" and "Чл.5 §1, 6."В" Регламент (ЕС)2016/679". There are also some handwritten marks, including a checkmark-like symbol and a small 'u'.