

OPINION

by

Assoc. prof. Zornitsa Mihaylova, DDS, PhD

Department of Dental, oral and maxillofacial surgery

Faculty of dental medicine, Medical University - Sofia

Subject: procedure for dissertation thesis defense on the topic:

"Minimally invasive tooth extraction" by Dr. Lyubomir Ivanov Chenchev

The presented opinion has been prepared in accordance with the Act on the Development of the Academic Staff in the Republic of Bulgaria and the Regulations for its implementation.

Relevance and significance of the problem

The presented dissertation is developed in full accordance with modern trends and current problems in the field of oral surgery. The author demonstrates a deep understanding of the need for non-invasive surgical approaches that meet the requirements of modern dentistry and are aimed at improving the quality of treatment and patient experience. Performing surgical interventions in the most atraumatic way possible is not only a primary therapeutic goal, but also a key element in achieving optimal postoperative results, including reducing pain, swelling and the risk of complications.

In this context, the work emphasizes the importance of applying various extraction methods that allow for maximum preservation of anatomical structures. The author rightly emphasizes that such an approach has not only local healing benefits, but also strategic importance in the long term, especially in the light of modern concepts of implant-prosthetic restoration. Preservation of hard and soft tissues in the extraction area significantly increases the prognosis of future treatment with dental implants, as well as the aesthetic and functional result.

The significance and relevance of the dissertation are expressed precisely in this interdisciplinary approach, combining clinical experience, theoretical justification and the pursuit of applying the best practices in the interest of the patient. Particularly impressive is the critical analysis of the various extraction techniques presented in the work, which testifies to the analytical abilities of the author, as well as his responsibility to the chosen scientific problem.

The dissertation work meets the requirements for scientific originality, relevance and practical applicability and represents a significant contribution to the field of modern oral surgery.

Characteristics and evaluation of the dissertation work

The dissertation work of Dr. Lyubomir Ivanov Chenchev consists of 141 pages and includes 7 tables, 58 figures and 1 appendix. The bibliography contains 100 sources, only one of which is in Bulgarian, and the rest - in English, which shows the author's good knowledge of contemporary international scientific literature.

The structure of the dissertation is clear and logically arranged:

Introduction - 2 pages.

Literature review - 34 pages.

Aim and objectives - 2 pages.

Material and methods - 41 pages.

Results and discussion - 66 pages.

Conclusion - 1 page.

Literature cited - 9 pages.

Appendices - 2 pages.

The work has a strong practical focus in the field of oral surgery and presents the personal clinical experience of the dissertation candidate. The author examines in detail various techniques for tooth extraction, with an emphasis on gentle, atraumatic methods that preserve bone and soft tissues - something especially important when planning subsequent implantological treatment. The study is well-founded and clearly aimed at improving surgical practice. Through the analysis of extraction methods, the author demonstrates a very good knowledge of the subject, the ability to think critically and focus on real clinical needs. The dissertation is up-to-date, well-structured and with a clearly expressed practical contribution to modern dentistry.

The literature review is comprehensive and well-structured. The development of extraction techniques is tracked and an analytical review of methods with conventional instruments is made, including an in-depth assessment of modern atraumatic systems and a discussion of piezosurgery. The review clearly outlines the scientific problem – the advantages of atraumatic extraction over classical extraction.

The goal of the dissertation is specific and topical. Three main tasks are set, two of which with additional subtasks. The own studies are clearly structured and adequately presented.

In the "Material and Methods" section, the dissertation author accurately describes the sample, the inclusion and exclusion criteria, as well as the period and place of the research (September 2021 - June 2023). The study was conducted with the participation of 144 individuals.

The scientific value of the research is expressed in the relevance of the topic, the precise methodological approach and the orientation towards the practical application of the results in clinical dental surgery. The work demonstrates a good command of methodologies and an ability for critical analysis, making it a significant contribution to the field.

The results and discussion are presented in detail, logically analyzed and well-structured. The discussion is in-depth and corresponds to the goals and objectives of the dissertation.

The scientific value of the research is expressed in the topic, methodological precision, reliability of the results and clear applicability of the conclusions in clinical practice. The dissertation testifies to maturity in the author's scientific thinking and makes a significant contribution to the field of oral surgery.

Publications and dissemination of the results of the dissertation

Dr. Lyubomir Chenchev is the author of three publications related to the topic of the dissertation, all of which are published in English. He is the first author of all of them. The research is under scientific project No. DPDP 02/2021, which further confirms the active participation of the doctoral student in scientific research. The results of the dissertation have been presented at four scientific forums.

The abstract is correctly structured and contains clearly stated goals, objectives, results, conclusions and scientific contributions. The content fully corresponds to the main text of the dissertation and performs its functions as a summarized scientific document presenting the essence of the work.

Conclusion. The presented research is up-to-date, scientifically argued and practically oriented, demonstrating critical thinking and professionalism. The dissertation meets all the requirements for awarding the educational and scientific degree "doctor". The literature review and in-depth has clearly formulated goals and objectives, correctly selected and applied methodology, reliably analyzed results, logical discussion and derived contributions of a scientific and applied nature. Based on the above, I confidently give a positive assessment of the dissertation work of

the PhD student and recommend to the Scientific Jury to award the educational and scientific award "doctor" to Dr. Lyubomir Ivanov Chenchev.

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Sofia

Assoc. prof. Zornitsa Mihaylova, DDS, PhD

