



by

Prof. Dr. Metodi Abadzhiev, DMD, PhD, DSc

Department of Dental material science and Prosthetic dental medicine, Faculty of Dental medicine, Medical University - Varna, member of the Scientific jury, according Order № P-109-419/ 05.10.2023 of the Rector of Medical University - Varna and Protocol № 1/12.10.2023r of the Scientific jury

Regarding acquisition of the educational and scientific degree "doctor" in the field of Higher education 7. Health care and sport. Professional domain: 7.2. Dental medicine. PhD - Program: "Orthopedic Dentistry"

PhD Thesis: " Alternative tooth preparation methods for full coverage crowns"

Author: Dr. Magdalena Norman Gugleva

Scientific supervisor: Assoc. Prof. Dr. Iveta Katreva, DMD, PhD

General presentation of the procedure

The materials submitted by Dr. Gugleva are in accordance with the requirements of the Law on the Development of the Academic Staff of the Republic of Bulgaria (LAD), the Regulations for the Implementation of the Law on the Development of the Academic Staff of the Republic of Bulgaria (RILAD) a and the Regulations on the Conditions and Procedures for the Acquisition of Scientific Degrees and Academic Staff at the Medical University-Varna, and include:

1. Order № P-109-56/31.01.2020 for enrolment in a full-time Orthopedic Dentistry PhD Program in the Department of Dental material science and Prosthetic dental medicine, Faculty of Dental Medicine - Varna with scientific supervisor: Assoc. Prof. Dr. Iveta Katreva, DMD, PhD;
2. Extract from Protocol №24/19.09.2023 of the Academic Board meeting with a positive decision on readiness for defense;
3. Order № P-109-419/ 05.10.2023r on expulsion with the right to defense;
4. European format CV signed by the PhD candidate;
5. Protocol of examination in the specialty;
6. List of publications and participations in scientific forums related to the dissertation, signed by the PhD candidate;
7. Copy of Master's Degree Diploma;

8. Dissertation and printed abstract.

Biographical data

Dr. Magdalena Norman Gugleva was born on 26.06.1992 in Varna. In 2011 she graduated secondary education from First Language School. In 2017 she graduated as a master's degree - doctor of dental medicine at Medical University of Sofia. Since 2018 she has been a full-time assistant in the Department of Prosthetic Dentistry, MU-Varna. In 2022, she acquired a specialty Prosthetic dental medicine.

Relevance and importance of the topic

The BOPT technique was first mentioned 20 years ago. More than a decade passed until it proved its advantages in terms of treatment and prevention of marginal gingiva, because it is distinguished by more conservative preparation of hard dental tissues and ease of implementation by the clinician. Dr. Gugleva's dissertation work is a scientific study, including a complex analysis of the influence of the philosophy about the tooth preparation fabrication of temporary prosthetic restorations, and their influence on the biological response of the soft tissues. The courage to accept a revolutionary clinical topic for development makes the topic of the dissertation work of the author relevant and important.

Characteristics of the structure of the dissertation work

The dissertation work of Dr. Gugleva is structured correctly and has the necessary main sections of a dissertation, required by the Rules of the MU - Varna for the structure of a dissertation work, namely: content, abbreviations used, introduction, literature review, purpose and tasks, material and methods, results and discussion, conclusions, general conclusions and directions for future work, contributions, publications, participation in scientific forums and bibliography. The dissertation contains 192 pages, and is illustrated with 161 figures and 12 tables. The bibliography covers 352 titles - 32 are in Cyrillic and 320 are in Latin.

Knowledge the problem and evaluation of the literature review

The literature review is comprehensive, systematically developed and adequately analyzed the topic. The various preparation techniques are reviewed with their advantages and disadvantages according to their influence on the soft tissues and aesthetics. Particular attention is paid to the influence of temporary prosthetic restorations on the soft tissues. The conclusions of the literature review also determine the purpose of the dissertation work.

Purpose and Tasks

The purpose of the current dissertation is: "To prove the advantage of the biologically oriented preparation technique in prosthetic treatment with full-coverage crowns in the aesthetic area and to evaluate the clinical results of its application". The purpose was achieved by solving four tasks, the last one with two subtasks.

Materials and methods

The tasks of the dissertation work are solved with well-chosen experimental methods that allow adequate statistical processing, leading to an objective assessment of the research results. Dr. Magdalena Gugleva demonstrates the ability to work in a team, given the complex and clinical studies. The experimental part is precise with sufficient quantitative evidence. The methodology and course of the research are described in detail. Survey forms are available as applications in the dissertation. The obtained results are analyzed in detail using modern statistical methods. Eight conclusions are logically derived from them:

- A significant percentage (approximately 87%) of examined teeth do not present bleeding on probing after a period of two months with temporary restorations.
- In prosthetic treatment with BOPT, an increase in the thickness of the free gingival margin is observed
- By using BOPT and specific shaping and contouring of the crown margin of temporary restorations, remodeling of the gingival contour is achieved.

Contributions and significance of the development for science and practice

The contributions described by Dr. Gugleva follow the conclusions drawn and are divided into scientific-applied, applied and confirmatory.

The most important are:

- For the first time in Bulgaria, the periodontal response of soft tissues after prosthetic treatment with fixed prosthetic restorations on teeth prepared using a biologically oriented preparation technique has been investigated and clinically evaluated.
- For the first time in Bulgaria, an alternative to vertical preparation margins technique has been presented.
- It has been confirmed that the application of a biologically oriented preparation technique results in a biotolerant behavior of the teeth-surrounding soft tissues towards fixed prosthetic restorations.

Publications related to the dissertation

Dr. Gugleva presents a list of three publications in English, in two of which she is the first author.

1. Delyan Georgiev, Magdalena Gugleva, "Elaboration of Recipes for 3D - Printing Resins, Reproducing Proportionally and Properly the Color Standards", International Journal of Science and Research (IJSR), Volume 10, Issue 10, October 2021, 284 – 28
2. Magdalena Gugleva, "Gingival Contour in BOPT: A Review of Provisional

Crown Guidance”, International Journal of Science and Research (IJSR),

Volume 12, Issue 7, July 2023, 292 – 296

3. Magdalena Gugleva, Mihail Bachvarov, „Vertical preparation for fixed prosthetic restorations in anterior region: a case report”, International Journal of Science and Research (IJSR), Volume 12, Issue 9, September 2023, 1899-1903

Abstract

The abstract of the dissertation work complies with the requirements of LAD, RILAD and the Regulations for the Development of the Academic Staff of the MU - Varna. The most essential part of the dissertation work is presented in a synthesis. As a drawback, I would note its volume. The aim, tasks, material, research methods, obtained results, tables, colored figures, conclusions, contributions, publications as well as participation in scientific events related to the dissertation significantly exceed the accepted norms for the volume of an abstract presented on 77 pages.

Conclusion

Dr. Magdalena Norman Gugleva's dissertation on " **Alternative tooth preparation methods for full coverage crowns** " represents a scientific development on an extremely topical, clinical and insufficiently researched problem in our country. The applied methodology, the obtained results, the formulated conclusions and contributions give reason to consider that the dissertation meets the requirements of the Law on the Development of the Academic Staff of the Republic of Bulgaria and Regulations for the Development of the Academic Staff of the MU - Varna. This gives me the reason to **vote positively** and suggest that the Scientific Jury award the educational and scientific degree "Doctor" to Dr. Gugleva.

17.11.23

Varna

Sincerely:

Prof. Dr. Metodi Abadzhiev, DMD, PhD, DSc

