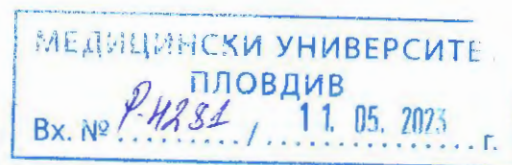


STATEMENT

by



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regarding

dissertation defense procedure to acquire the
the educational and scientific degree "doctor"

on topic:

**„Comparative evaluation of the results after vestibuloplasty of the mandible with the
application of different grafts “
by dr. Tasho Gavrailov Gavrailov**

The presented review was prepared in accordance with the RSARB and the Regulations for the implementation of the RSARB

Relevance and importance of the problem

The presented dissertation is contemporary and practically interesting, as it represents a kind of connection between the approaches for vestibuloplasty known in the literature and future clinical solutions based on the successes of molecular medicine. Increasing demands from patients necessitates the search for new and up-to-date solutions to reduce postoperative morbidity and improve patients' quality of life.

Characterization and evaluation of the dissertation work

The dissertation work of Dr. Tasho Gavrailov Gavrailov is written on 143 pages and illustrated with 5 tables, 29 figures and 19 graphs. The bibliographic reference includes 317 sources, 8 of which are in Cyrillic and 309 are in Latin.

The structure of the dissertation is: *introduction* - 2 pages, *literature review* - 22 pages, *personal research*, including - *aim and tasks* - 2 pages, *material and methods* - 31 pages, *personal results and discussion* - 53 pages, *conclusion* - 3 pages, *final conclusions* – 2 pages, *contributions* – 1 page, *citations* – 25 pages.

The presented dissertation is strongly surgically oriented and presents the dissertation student's own clinical experience. It presents various operative techniques and makes a

comparative analysis of their results. In the scientific work, an innovative method for creating roof membranes is presented and the results of their in vitro research are discussed.

The *literature review* is written in detail and comprehensively, covering the various aspects of vestibuloplasty. Demonstrates in-depth knowledge of the issues and details of the dissertation. The analysis of the literature review allows to establish the existing unexplained sides of the research problem. The application of xenogeneic collagen matrices and membranes made of PRF is insufficiently studied in the literature.

The *aim* is clearly defined: "to compare the results of the augmentation of the attached alveolar mucosa after Clark vestibuloplasty after the combined use of three types of grafts, as well as to investigate the possibility of combining PRF with chlorhexidine, in order to obtain a new generation of PRF membranes".

Personal studies are divided into separate chapters and include the stages of the research carried out by the dissertation student.

In the scientific development, 5 tasks are formulated, which fully fulfill and solve the aim.

1st task - "to make a comparative clinical evaluation of the results of vestibuloplasty of the mandible according to Clark with the simultaneous use of an autogenous mucosal transplant from the hard palate and an autogenous PRF membrane". A clearly formulated task. For the performance of this task, research was conducted on 30 respondents with a totally edentulous lower jaw.

2nd task - in this task, the dissertation student applies the author's hybrid technique for measuring soft tissue objects - width of the attached mucosa, using digital orthomantomography (DOPG). A radiographic comparison of the results of the application of an autogenous graft from the hard palate and the application of a PRF membrane was performed. The measurement enables the use of interval and proportional metric data to evaluate results objectified by digital imaging methods

The 3rd task – to make a comparative clinical assessment of the results of Clark mandibular vestibuloplasty with the simultaneous use of an autogenous mucous transplant from the hard palate and a xenogenic collagen matrix (Mucograft). It allows to analyze the results of autogenous transplant and xenogeneic transplant, which complements the medical practice with results allowing evaluation of different genetically determined materials.

4th task – application of the author's hybrid technique for measuring soft tissue objects, including attached mucosa of digital orthomantomography (DOPG). By using this original radiographic method, a comparison of the results of the application of an autogenous

graft from the hard palate and the application of Mucograft xenogeneic collagen matrix was performed

5th task – to create a new type of PRF membrane containing chlorhexidine. To conduct an in vitro study of the characteristics of the newly obtained product and to propose a clinical algorithm for the application of the new membrane. The research is original and provides an opportunity to create a new clinical product with improved qualities.

Material and methods. The location of the study and the period of the study are indicated. The material on the set tasks, including 60 respondents, aged from 42 to 79 years, is described. The criteria for selection of the patients - inclusion and exclusion - are described.

The clinical methods, the paraclinical method of measuring the level of the keratinized mucous membrane by digital OPG, as well as the individual treatment methods, are described.

Personal results and discussion are presented in detail and properly structured. The research data were processed using properly selected statistical methods. The discussion of the results is thorough and systematic.

Conclusion. Detailed written and summarizing the results of the scientific work and the fulfillment of the goal.

Final conclusions - 8 final conclusions were drawn from the conducted research

Contributions. Contributions of an original scientific-applied nature are presented, which are presented as 6 points. The presented contributions correspond to the set goal of the dissertation work and reflect the implementation of individual tasks.

Publications and personal contributions of the PhD student. Dr. Tasho Gavrailov Gavrailov presents 3 scientific publications on the topic of the dissertation. All publications are in English, and in 2 of them the dissertation student is the lead author.

The abstract is properly constructed and contains the results of the assigned tasks, conclusions and contributions. Fully corresponds to the dissertation work.

Conclusion. Dr. Tasho Gavrailov Gavrailov presents a dissertation on a current and significant problem in operative interventions in oral surgery. The scientific work is properly structured, the goal and tasks are clearly and accurately formulated. The methods for achieving the goal and realizing the tasks are correctly selected and described in detail. The received data is properly processed and accurately analyzed. The dissertation contains original scientific and applied contributions. The written work meets all the requirements of the Law on the Development of the Academic Staff in the Republic of Bulgaria, the Regulations for its implementation and the Regulations of MU-Plovdiv.

I confidently give my positive assessment of the conducted research, the dissertation work written in connection with it, the abstract, the achieved results and contributions. The dissertation work on the topic "Comparative evaluation of the results when using different grafts after vestibuloplasty of the lower jaw" of Dr. Tasho Gavrailov Gavrailov is fully completed and meets the criteria for awarding the educational and scientific degree "doctor". I confidently give my positive vote and recommendation to the respected members of the scientific jury for awarding the educational and scientific degree "Doctor" to Dr. Tasho Gavrailov Gavrailov.

May 2023

Sofia

DMD, DDS, PhD

Заличено на основание

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

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