



REVIEW

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 dissertation is devoted to the study and comparison of different grafts used in order to obtain a wider area of attached keratinized epithelium through vestibuloplasty. The topic of optimizing surgical approaches in vestibuloplasty has always been relevant. Along with the well-known techniques of pre-prosthetic surgery, new materials and methods are constantly being developed to improve the conditions for restoring function and aesthetics.

The disadvantages of well-known methods, such as the application of an autogenous epithelial graft from the palate, lead to the search for alternatives. The present scientific work describes the results of the combined application of three types of grafts, as well as obtaining a new generation of PRF membranes.

The dissertation is written on 143 pages. The same is illustrated with 5 tables, 29 figures and 19 graphs. The bibliographic reference includes 317 literary sources. The text has a structurally correct construction and meets the criteria for a dissertation work.

The introduction is written concisely and informatively, emphasizing the importance of the considered problem and modern approaches in oral surgery.

The literature review is comprehensive and in sufficient volume. Basic terms, etiologic factors for prosthetic field change, indications and contraindications for vestibuloplasty are reviewed, various techniques are described, and extensive attention is paid to the use of free graft. Methods for examining the depth of the vestibule and the attached keratinized epithelium are described. Already at the beginning of the dissertation, the detailed analysis of what has been researched so far is evident. This analysis logically leads to the definition of the unsolved problems on the topic and is the basis for determining the purpose of the research.

The personal studies are divided into separate chapters, which allows the systematic follow-up of the study.

Aim – a well-formulated objective, clear and relevant to the topic of the dissertation.

Tasks - several main tasks are identified, which correspond to the structure of the dissertation work. Solving the tasks leads to the fulfillment of the set goal.

1st task – to make a comparative clinical evaluation of the results of surgical augmentation of the attached mucosa in the frontal area of the lower jaw using autogenous palatal graft and PRF membrane. The task thus formulated is clear and precise.

2nd task - application of the author's hybrid technique for measuring soft tissue objects, including attached mucosa on digital orthomantomography (DOPG) and radiologically comparing the results of the application of an autogenous palatal graft and the application of a PRF membrane. Enables the use of interval and proportional metric data to evaluate results objectified by digital imaging methods.

3rd task – to make a comparative clinical assessment of the results of surgical augmentation of the attached mucosa in the frontal area of the lower jaw using an autogenous palatal graft and a Mucograft xenograft. It allows to analyze the results of a method of augmentation of the attached mucosa, which eliminates postoperative morbidity from the operative wound of the donor area.

4th task – application of the author's hybrid technique for measuring soft tissue objects, including attached mucosa of digital orthomantomography (DOPG) and radiological comparison of the results of the application of an autogenous palatal graft and the application of a xenogeneic collagen matrix Mucograft.

5th task – to create a new PRF membrane in combination with 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 originally structured and provides an opportunity to create a new clinical product with improved qualities.

Material and methods. The study included 60 patients. The venue of the same is indicated. The material for the assigned tasks is described. The criteria for selection of the patients - inclusion and exclusion - are described. The research was conducted in the period from June 2019 to September 2021 and was financed through an intra-university scientific project. The clinical methods are described - clinical measurements of the keratinizing epithelium, including a subjective evaluation of the patients' postoperative discomfort.

The paraclinical method for measuring the level of keratinized mucosa by digital OPG is described in detail. The dissertation student develops his own author's hybrid technique through which he performs a comparative radiographic evaluation of the results.

The treatment methods are described:

- Surgical technique of vestibuloplasty with application of epithelial graft and PRF membrane;
- Surgical technique of vestibuloplasty with application of epithelial graft and collagen xenomatrix (Mucograft)

- Fabrication/fabrication of PRF membrane

- Method for harvesting an epithelial graft

Personal results and discussion

- the results and the statistical analysis of the results are presented;
- the statistical methods are described;
- discussion of the results - the results are described in detail and an in-depth discussion is made.

Conclusion. Written in detail and summarizing the results of the scientific work.

Contributions. 6 contributions of original scientific and applied nature are described.

Dr. Gavrailov presents three publications related to the dissertation work. One of them is in a magazine with parameters Q1 and IF 4.901. The rest of the publications are in JIMAB. The publications prove the relevance and originality of the development. They confirm that the research is modern and of interest.

The dissertation contains scientific results, representing an original contribution to modern science and meets all the criteria of the Law on the Development of the Academic Staff in the Republic of Bulgaria (ZRASRB).

All this gives me reason to vote positively and propose to the members of the respected Scientific Jury at the Medical University - Plovdiv to award the educational and scientific degree "Doctor" to Dr. Tasho Gavrailov Gavrailov, who prepared a dissertation on the topic **„Comparative evaluation of the results after vestibuloplasty of the mandible with the application of different grafts “.**

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