



REVIEW

of Prof. Angelina Pecheva Vlahova-Petrova, DMD, PhD
Head of the Department of Prosthetic Dentistry,
Faculty of Dental Medicine, Medical University-Plovdiv, Bulgaria

Of Dissertation for PhD Degree 'Doctor'

Professional direction: Dental Medicine

Doctor's program: Prosthetic Dentistry

Author: Dr. Atanas Vaskov Doshev

Form of dissertation: self-preparation

Department: Prosthetic Dental Medicine

Topic: "Retrospective analysis of Fixed Prosthodontics provisional restorations shade change"

Scientific Supervisor: Prof. Diyan Slavchev, DMD, PhD

1. General presentation of the procedure and the PhD student

The presented set with the materials on paper and electronic variant is in accordance with Article 115 (1) of the Procedure for PhD Defense of MU-Plovdiv; Regulations of MU-Plovdiv (2021) and includes the following documents:

- Report to the Rector of MU-Plovdiv for disclosure procedure of PhD defense
- Signed CV in European format
- notarized copy of university diploma
- orders for PhD student and for deduction with the right to make final defense
- order for individual plan exam and protocol of PhD student exam according to the specialty
- protocol of department meeting for discussion of the dissertation with decisions for starting procedure of final defense and choice of scientific jury
- Dissertation

- Abstract book
- list of publications connected with the topic of the dissertation
- copies of the publications
- list of participations in scientific forums
- list of noticed citations
- declaration of originality and reliability of the documents
- other documents.

The PhD student has 4 publications (1 of them in referred journal) and 3 participations in scientific forums.

Notes and comments for the documentation:

The documents are properly prepared and submitted.

2. Short CV data of the PhD student

Dr. Atanas Vaskov Doshev was born in Plovdiv on 02.08.1990. He graduated English High School “Ivan Vazov” with German, Russian and English language in 2009.

In 2016 Dr. Doshev graduated Dental Medicine in MU-Plovdiv. He was working in private dental practice from 2017 till now. He is a member of BDA.

In 2017 Dr. Doshev starts working as an Assistant Professor in the Department of Prosthetic Dental Medicine, FDM, MU-Plovdiv.

3. Relevance of the topic and expediency of the aim and the tasks of the dissertation

The provisional restoration, same as every other one, obligatory must cover the functional requirements, to keep and to improve the masticatory and the speech function. The recovery of the speech function is one of the main wishes of many patients the same as the esthetics.

The color is an indicator that is not constant and has been changed because of different factors. This will affect the esthetics and will not cover all the requirements of prosthetic treatment. To skip this disadvantage additional investigations need to be made for finding the etiology of the problem. This fact makes the topic of the dissertation actual and appropriate.

The dissertation aim and tasks are clear, precise and understandable formulated.

4. Knowledge of the problem

The PhD student Dr. Atanas Vaskov Doshev has an excellent knowledge about the problem and creative evaluation about the material. A proof of this is the detailed literature review based on 230 literature sources, 33 of them on Cyrillic, richly illustrated with figures and photos.

5. Methods of the investigation

The chosen methods of the investigation allow achievement of the aim and tasks of the dissertation.

The questionnaire survey of Task 1 was made via an individual anonymous questionnaire for every person in the investigated group. 180 survey cards with 10 questions (4 of them opened) were used.

A matrix for fabrication of samples was created for Task 2. It is used for making specimens that mimic maximally the anatomy and the morphology and guaranties reliable results.

Samples made with the matix of Task 2 were used in Task 3. They were sunk in five 100 ml staining solutions in separate containers – coke, coffee espresso, forest fruits tea, orange juice and red wine. The shade measurements were made with two spectrophotometric devices – Vita Easy Shade и Spectro Shade (before sinking, on 1, 4, 7 and on 14 day).

A clinical investigation of 45 provisional restorations (11 single crowns and 34 bridge restorations) for color change evaluation was made on Task 4.

6. Characteristics and evaluation of the dissertation

The dissertation of Dr. Doshev has 199 pages, 31 of which Bibliography and 8 applications.

According to the literature review the wide range of the Bibliography gives the impression (230 literature sources, 33 of them in Cyrillic). The used literature is present (after 2010).

The literature review is detailed and well structured.

The aim and the tasks of the dissertation are formulated according to the topic.

The presentation and the illustration with figures and graphics of the own investigations is on the desired level according to the materials and the methods.

The results are systemized and arranged according to the tasks. They are illustrated with photo material, final tables and schemes.

The discussion is made following the present requirements for the structure of the dissertation, separately for every task. There are also tables and diagrams with the statistical data.

The conclusions are in a direct connection with the evaluated results.

The contributions present the modern focus of the dissertation.

7. Contribution and significance of the dissertation for the science and practice

The contributions of the dissertation of Dr Doshev are systemized and divided into three groups: with confirmatory, with scientific-practical and with original character.

Contributions with confirmatory character

1. The created questionnaire approved the investigation of M. Dimova in 2003, that most of the dentists are making provisional restorations.

2. The often use of coffee, red wine and a tea changes the color of the provisional restorations.

Contributions with scientific-practical character

1. The created patient card gives information about the color change in the oral cavity environment for a period and for a statistical analysis of the collected data.

2. The created brass matrices give opportunity for fabrication of a lot of samples with the same shape and size that makes the investigation unified.

3. The color change was investigated in three zones – cervical, middle and incisal.

4. The color change of the provisional restoration was evaluated according to teeth groups – incisors, canines, premolars and molars.

Contributions with original character

1. A matrix that creates individual shape and tooth design like the vestibular surface was made for a first time.

2. The color measured with the devices was received as an initial one, not this that is from the manufacturer.

3. The color change of provisional restorations was investigated for a first time in Bulgaria with two different spectrophotometric devices - Vita Easyshade и Spectro Shade.

4. A clinical investigation of provisional restorations color change was made for a first time in Bulgaria with Vita Easyshade и Spectro Shade devices.

8. Assessment of the dissertation publications

The full text publications and participations associated with the dissertation of Dr Doshev are 7 and can be classified of:

- full text publications – **4, 1 of them in referred journal in English** (Folia Medica, MU-Plovdiv) and **3** in a textbook of Scientists Union in Bulgaria, Plovdiv;

- participations in conferences - **3**, all of them on scientific sessions of SUB.

9. Personal engagement of the PhD student

According to my opinion the personal engagement of Dr Doshev in the dissertation study is dominant and the approved contributions and the final results are his own personal merit and a merit of his Scientific Supervisor Prof. Diyan Slavchev, DMD, PhD.

10. Abstract book

The Abstract book of Dr Doshev is designed according to the requirements and presents the main results of the dissertation.

The contents and the quality of the Abstract book meet the requirements.

11. Critical notes and recommendations

I have no critical notes connected to the final variant of the dissertation of Dr. Doshev.

12. Personal impressions

Dr. Doshev is hardworking, organized and ambitious. He has a potential for academic development, and I hope that he will become a Chief Assistant Professor soon.

13. Recommendations for future application of the dissertation contributions and results

I recommend to Dr. Doshev to continue his work in the field of Fixed Prosthodontics provisional restorations shade changes with clinical investigations according to a future scientific project of MU-Plovdiv including shade measurement using an intraoral scanner.

CONCLUSION

The dissertation has scientific, scientific-practical and practical results that are an original contribution in the science and respond to all the requirements of the Law for academic development in Bulgaria (ЗПАЧРБ), the Regulations of ЗПАЧРБ and the Regulations of MU-Plovdiv. The materials and results of the dissertation respond to all the specific requirements of MU-Plovdiv.

The dissertation present that the PhD student Dr. Atanas Vaskov Doshev has exhaustive theoretical knowledge and professional skills of the scientific specialty “Prosthetic Dentistry” and demonstrates qualities and abilities for self-conduct scientific study.

Due to the above, I confidently give my **positive assessment** for the investigation presented in the Dissertation, Abstract book, Results and Contributions, and propose to the honorable scientific jury to award an educational and scientific degree „Philosophy Doctor (PhD)” to Dr. Atanas Vaskov Doshev in PhD program of Prosthetic Dentistry”.

29.07. 2021

Reviewer: 

(Prof. Angelina Vlahova, DMD, PhD)