

*To the Chairman of the Scientific council,  
appointed by order of the  
Rector of Medical University - Varna,  
№ P - 109-247/09.06.2021.*

### **STATEMENT**

**By Prof. Dr. Anton Jordanov Djorov, MD, PhD,  
Acibadem City clinic, multi profile hospital for active treatment Tokuda EAD,**

*member of a Scientific council, included by order № P - 109-247/09.06.2021 of the Rector of MU-Varna.*

**About:** Dissertation for the award of educational and scientific degree “Doctor” in the scientific specialty “Therapeutic Dentistry” in the field of higher education 7. Health and sports in professional field 7.2. Dental Medicine in the Department of Conservative Dentistry and Oral Pathology, FDM, MU-Varna.

**Topic: “ Comparison of treatment methods for chronic periapical inflammatory diseases “**

**Autor:** Dr. Denitsa Georgieva Zaneva-Hristova, assistant at the Higher School, Medical University “Prof. Dr.Paraskev Stoyanov”-Varna, Faculty of Dental Medicine, Department of Conservative Dentistry and Oral Pathology.

**Scientific advisor:** Assoc. Prof. Dr. Tsvetelina Iliyanova Borisova-Papancheva, DMD, PhD.

**Form of doctoral studies:** PhD student

#### **Biographical data about the doctoral student:**

Dr. Denitsa Georgieva Zaneva-Hristova was born in 1991 in the city of Varna. She completed her secondary education at High School of Mathematics “Dr. Petar Beron” in Varna in 2010. She received a higher education in Dental medicine at the Medical University of Varna “ Prof. Dr. Paraskev Stoyanov” in 2016. Since 2017 she has been a full-time assistant at the Department of Conservative Dentistry and Oral Pathology, FDM, MU-Varna. She teaches second- to fifth-year students Bulgarian and English language training in the disciplines Propaedeutics and Clinics of Conservative Dentistry.

#### **General presentation of the procedure and the doctoral student:**

The dissertation presented for my opinion contains 185 standard pages and is illustrated with 46 tables and 96 figures. The bibliography consists of sources, of which 6 in Cyrillic and 193 in Latin. The dissertation includes an introduction, literature review, aim and tasks, material and methods, results and discussion, summary and conclusions, bibliography and applications.

The presented abstract reflects the structure of the dissertation and the most important results and contributions. The results of the study are reflected in a list of 3 publications in which Dr. Zaneva is the first author and 2 participations in international scientific forums.

## **Relevance of the topic:**

One of the main etiological factors for the development of apical periodontitis is the presence of microorganisms colonizing the root canal system. In order for the endodontic treatment to achieve optimal results, bacterial populations in the root canal must be eliminated or at least significantly reduced to levels compatible with the healing process of the periapical tissues.

The endodontic environment provides a selective medium for the creation of a mixed, predominantly anaerobic flora. The treatment of periodontitis aims to eliminate the etiological factor, i.e. microorganisms and their toxins; to influence the inflammatory process in the periapical tissues and to stimulate the healing process; to provide a hermetic filling of the root canal to isolate the apical periodontium from contact with the saliva in the oral cavity. The removal of the etiological factor is associated with mechanical and chemical treatment of the root canal.

Since most endodontic problems are of microbial origin, their removal is considered the most important step in root canal therapy. The number of visits for treatment of infected root canals is one of the most discussed topics in endodontics.

The application of a single method would reduce the time of treatment, the number of visits and the discomfort of patients from repeated dental procedures, as well as the risk of reinfection in the presence of microleakage from the temporary situation between individual visits. This would be made the preferred method of treating teeth with HAP by dentists.

The aim of the dissertation is: To compare the methods of periodontitis treatment and to study the effectiveness of different materials used for their treatment.

There are 5 tasks through which the study was conducted:

1. A survey among dentists and patients to monitor the postoperative dental pain in chronic periodontitis, depending on the used methodology.
2. To study the effectiveness of the treatment of chronic periodontitis using a one-visit method.
3. To monitor the chronic periodontitis treatment method using a multi-visits method by placing a medication dressing of calcium hydroxide for 7 days.
4. To study the chronic periodontitis treatment using a multi-visits method by placing a sterile cotton swab between visits.
5. To monitor the chronic periodontitis treatment method using a multi-visits method by irrigation with 2% chlorhexidine.

**The results and discussion** are presented with tables and figures.

**The conclusions** correspond to the obtained results.

The self-assessment of **the contributions** related to the dissertation includes 2 contributions with original and 3 contributions with confirmatory character.

### **Scientific and applied contributions**

1. Confirmation of the high frequency of the presence of *Enterococcus faecalis* in teeth diagnosed with chronic apical periodontitis.
2. Confirmation of the efficacy of sodium hypochlorite and chlorhexidine against *Enterococcus faecalis* in clinical conditions.
3. Confirmation that single-visit treatment is a good alternative to the multi-visits one.

### **Original contributions**

1. An in-depth study of pain was performed after treatment of teeth with chronic apical periodontitis
2. It has been proven that with a correctly performed irrigation protocol according to the methodology described by us, the use of a medication dressing does not improve the healing processes.

There are no omissions in the documentation attached by Dr. Zaneva-Hristova. The dissertation "Comparison of treatment methods for chronic periapical inflammatory diseases " meets the prescriptive requirements for obtaining an educational and scientific degree "Doctor" according to ZRASRB, PPZRASRB and the Regulations on the terms and conditions for obtaining scientific degrees and holding academic positions at the Faculty of Dental Medicine, Medical University "Prof. Dr. Paraskev Stoyanov"- Varna.

**In conclusion: I propose to award Dr. Denitsa Georgieva Zaneva-Hristova the scientific and educational degree "DOCTOR" in the field of higher education 7. Health and sports in professional field 7.2. Dental Medicine.**

*Date: 13.08.2021*

*Varna*

*Prepared the statement.....*  
*(Prof. Dr. Anton Djorov, MD, PhD)*

