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CHANGES IN THE DENTAL PULP CALCIFICATIONS WITH A LAMELLAR CONCENTRIC STRUCTURE AND CALCIFICATIONS WITH AN AMORPHOUS TO FINELY GRANULAR STRUCTURE

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Abstract

The aim of the study was to inspect change in the pulp with dental calcifications by different structure. Material and



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method: we carried out the research on 40 pulps after indicated tooth extraction, during which we made a vertical section of the teeth and removed the pulps, and 60 extirpated pulps from teeth with an endodontic diagnosis of pulpitis chronica. With the method of light microscopy, and by using standard differential histo-chemical coloring, results were obtained on the Institute of Pathology of the Faculty of Medicine in Skopje. Results: 2 morphological images of changed pulp were obtained with the method of light microscopy with the application of standard differential histochemical staining: (1) dental pulp with calcifications with a lamellar concentric structure; (2) dental pulp with calcifications present with an amorphous to finely granular structure. In both groups, a reduction of cellularity in the connective tissue is observed, with evident but gradual hyalinization, which takes the form of wider areas or tracks, dissociated from relatively preserved loose connective tissue. Pulps containing nodular calcifications show a certain degree of congestion of blood vessels, in contrast to dispersed and irregularly shaped calcifications.

Keywords: dental pulp, dental calcification, hystopathological analysis.

References

1. P. Aleksova, V. Radojkova Nikolovska, M. Popovska, Lj. Simjanovska, F. Sali. Prevalence of pulp stones in association with dental arches in molars. 19th Congress of the Balkan Stomatological Society (BaSS) 2014., 232.
2. Aleksova P. Dental calcifications - reason for special analysis. MD Thesis, 2006; pp 62-67.
3. Pavlina Aleksova. Prevalence of pulp stones in Molars Regarding the Dental Arches. International Journal of Science and Research (IJSR). ISSN (Online): 2319-7064, Volume 4 Issue 7, 2015, p. 3: 1990 –1993.
4. Pavlina Aleksova. A radiographic assessment of the prevalence of pulp stones in premolars regarding the dental arches. International Journal of Science and Research (IJSR). ISSN (Online):2319-7064. Volume 4 issue 3, 2015. Page 5:2243-2247.
5. Aleksova Pavlina. Prevalence of pulp stones in incisive teeth regarding the dental arches. International Journal of Science and Research (IJSR). ISSN (Online): 2319-7064. Volume 4 issue 4, 2015. Page7: 3170-3172.

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7. Pavlina Aleksova. Prevalence of coronal pulp stones in mandibular first and second molars. *International Journal of Science and Research (IJSR)*. ISSN (Online): 2319-7064, Volume 4 Issue 7, 2015, p. 2550-2552.
8. Moss-Salejtin L, Hendricks-Klyvert M. Epithelially induced denticles in the pulps of recently erupted non carious human premolars. *J Endodon*, 1983; 9:184-189.
9. Aleksova P, MatovskaLj, Ambarkova V. Occurrence of dental calcifications according to the patient's sex. Abstract book of the 13th Congress of the BaSS, 2008; p 166.
10. Pavlina Aleksova. A radiographic assessment of the prevalence of pulp stones in premolars according to the sex. *International Journal of Science and Research (IJSR)*. ISSN (Online): 2319-7064, Volume 4 Issue 7, 2015, p. 2473-2475.

11. Aleksova Pavlina, Gjorgova J., Velevski D., Velevska Stefkovska D. Analysis of the dental calcifications according to structure. *JOURNAL OF STOMATOLOGY*, 2013, Vol. 17 (3): 144 - 148.
12. Pavlina Aleksova. Analysis of radicular dental calcifications according to the shape. *International Journal of Science and Research (IJSR)*. ISSN (Online):2319-7064, Volume 4 Issue 7, 2015, p. 3: 1965-1967.
13. Schaffner M., Stich H., Lussi A. Denticles: Dental pulp calculi. *Swiss Dent. J.* 2014; 124:416-417.
14. Foremen P.C. Micromorphology of mineralization deposits in the pulps of human teeth. *Int. Endod. J.* 1984; 17:183-191. Doi:10.1111/j.1365-2591. 1984. tb00403x.
15. Kannan S., Kannepady SK., Muthu K., Jeevan MB., Thapasum A. Radiographic Assessment of the Prevalence of Pulp Stones in Malaysians. *J. Endod.* 2015; Vol. 41(3):333-7.
16. M. Turkal et all. Incidence and Distribution of Pulp Stones Found in Radiographic Dental Examination of Adult Turkish Dental Patients. *Ann Med Health Sci Res* 2013 Oct-Dec;3(4):572-576.
17. Pavlina Aleksova. Analysis of radicular dental calcifications according to the numeral prevalence. *International Journal of Science and Research (IJSR)*. ISSN (Online): 2319-7064, Volume 4 Issue 9, 2015, p. 1803-1804.
18. Lin CT, Roan RT, Rou WJ, Chen JH, Chuang FH, Hsieh TY. A radiographic Assessment of the Prevalence of Pulp Stones in Taiwane. *Svenska Massan.* 2003; 11: 12–15.
19. Sener S, Cobankara FK, Akgünlü F. Calcifications of the pulp chamber: prevalence and implicated factors. *Clin Oral Investig.* 2009; 13: 209–215.
20. Aleksova P., MatovskaLj., Ristovski M. The histopatology of the dental calcifications. *Maked Stomatol Pregl* 2010; 34 (1-2): 13-20.

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