Treatment for reduced periodontal gingivitis - case report

Ingrid Cleópatra Santiago,¹ Daniel Lopes Franco de Souza,¹ Lucas Alberto dos Santos Nunes,¹ Sara Gomes de Moura,¹ Bruna Queiroz da Silva,¹ Israel Victor Costa de Lima,¹ Barbara Bruno Fagundes Marques,¹ Luiz Eduardo Monteiro Dias da Rocha,² Marilisa Lugon Ferreira Terezan²

¹School of Dentistry, Rio de Janeiro State University (UERJ), Rio de Janeiro, RJ, Brazil
²Department of Integrated Clinical Procedures, Rio de Janeiro State University (UERJ), Rio de Janeiro, RJ, Brazil

Conservative endodontic cavity (CEC) is a new technique used as an alternative to traditional endodontic cavity (TEC), aiming at less removal of tooth structure. The aim of this study was to verify the effects of this procedure. A literature search was carried out in the LILACS and PubMed databases. For a comparative analysis of data, 12 scientific articles were selected. The CEC showed to be more effective than the TEC in the removal of filling root material in retreatment with TRUShape instruments. About instrumentation efficacy of the root canal system, there was a drop in the quality of the distal root of lower molars. In relation to fracture resistance, there was a significant increase in lower molars, however, the literature diverged in relation to the lower premolars. It should be concluded, based on the scientific literature, that few benefits were found on TEC. It is also emphasized that, for this technique to be well performed, it depends on longer clinical time and use of specific equipment, such as cone beam computed tomography, operating optical microscope and ultrasonic. Clinical research is suggested for long-term data collect.

Keywords: Dental pulp cavity; Endodontics; Instrumentation; Minimally invasive; Pulp chamber.

1. Ingrid Cleópatra dos Santos Santiago – ORCID: 0000-0001-6868-6705 – E-mail: ingridcleopatrasantiago@gmail.com
2. Daniel Lopes Franco de Souza – ORCID: 0000-0002-6909-6050 – E-mail: danieldds.eng@gmail.com
3. Lucas Alberto dos Santos Nunes – ORCID: 0000-0002-1095-5332 – E-mail: ladsnunes@gmail.com
4. Sara Gomes de Moura – ORCID: 0000-0003-3554-7594 – E-mail: saragdemoura@gmail.com
5. Bruna Queiroz da Silva – ORCID: 0000-0002-0576-8540 – E-mail: bruna_852_queiroz@hotmail.com
6. Israel Victor Costa de Lima – ORCID: 0000-0003-0577-8981 – E-mail: israelvictorlima@hotmail.com
7. Barbara Bruno Fagundes Marques – ORCID: 0000-0003-0876-8607 – E-mail: barbarafragmar@gmail.com
8. Luiz Eduardo Monteiro Dias da Rocha – ORCID: 0000-0003-3387-9579 – E-mail: luizedurocha@gmail.com
9. Marilisa Lugon Ferreira Terezan – ORCID: 0000-0001-5781-7458 – E-mail: marilisaterezan@gmail.com