EVALUATION OF A CLINICAL PROTOCOL OF PHOTODYNAMIC THERAPY FOR ENDODONTIC TREATMENT OF DECIDUOUS TEETH.

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The aim of this study is to evaluate a dosimetric parameter for aPDT in the

endodontic treatment in deciduous teeth, considering bacterial reduction, clinical and

radiographic. 20 anterior deciduous teeth with a diagnosis of pulp necrosis will be selected.

The teeth will be randomly divided into two groups, which will receive treatments

distinct: Group 1 (G1): conventional endodontic treatment (n=10); Group 2 (G2): Treatment with aPDT (9J) using optical fiber (N=10). For aPDT it will be used as a photosensitizer methylene blue (Chimiolux®) at a concentration of 0.005%, applied inside the canal radicular with a pre-irradiation time of 3 minutes, associated with the application of the laser with wavelength of 660nm (DMC, Laser THERAPY XT), the channel will be irradiated with the equipment previously calibrated with energy of 9J and power of 100mW. For microbiological analysis, two collections of the intracanal content will be carried out with paper cones, one before and another right after the proposed treatments in both groups. The radiographic aspects

will be evaluated, considering the repair process, clinically will be evaluated: presence

of fistula and mobility, the evaluations will be carried out in the periods of 1 and 3 months after the treatment. The data obtained will be submitted to the Shapiro-Wilk normality test, where defined for the statistical analysis that will be used for this study, adopting a significance level of 95% (p<0.05).

Keywords: Endodontic treatment, Primary teeth, Photodynamic therapy antimicrobial, Root canal infection, Dental pulp necrosis.

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