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Easy clean: A new device for performing the agitation of irrigating substances in endodontics


The main goal of endodontic treatment is to make the root canal system free of as many microorganisms as possible. The anatomical complexity of this system involves numerous lateral, secondary and accessory root canals that communicate the pulp cavity to the periodontium, which makes eradication of microorganisms impossible. However, bacteria located in areas of branches, deltas, irregularities and dentinal tubules not affected by endodontic disinfection procedures probably have their substrate radically reduced, which renders the medium unsuitable for survival. Although sterilization of the root canal system is impractical, there are some determinants for successful endodontic therapy. Principles of cleansing and modeling, already advocated and recognized as essential by Schilder in the 1970s, were established as prerequisites for subsequent procedures to be performed successfully, raising the success rate. Rotating nickel-titanium instruments have become important allies of endodontic therapy, enabling a more accurate modeling of the root canals, optimizing the action of irrigating agents and facilitating three-dimensional hermetic obturation of the intraradicular space. However, anatomical factors remain a huge challenge. The importance of the knowledge of the intraradicular morphology is unquestionable, and we rarely find variations of the aspect of normality like extra channels, C-shaped channels, accentuated curvatures, etc. In Endodontia,

the use of mechanized nickel-titanium single-file systems has been widely propagated, especially the reciprocating files. Several studies have shown that no system currently, whether of rotating or reciprocating files, can touch all the walls of the root canal system. In my private practice, I have carried out an instrumentation protocol aiming to improve the modeling of non-circular channels to better clean areas of difficult access to mechanized instruments. This instrumentation would complement the cleaning and modeling of previously used instruments because it allows the instrument to enter areas of histories, flattening and reentrances. This will improve our disinfection and facilitate the action of our irrigating solution and auxiliary chemical substances, for better disinfection and therefore better filling to achieve the success of the case.

Speaker Biography

Samuel Nogueira Lima is a Specialist in Endodontics, Specialist in Orthodontics, Post-graduate in Dental Prosthesis and holds a Master's degree in Endodontics from São Leopoldo Mandic School of Dentistry in São Paulo, Brazil. He has 16 years of private practice in Endodontics in his private practice, was a Brazilian Air Force Endodontist for 6 years. He works in the public service of Endodontics of the unique service of health of Brazil and is a Professor of Endodontics in the Faculty Alagoas of Technology. He has participated in several conferences and endodontic meetings. He was an outstanding student of his Postdoctoral program in Endodontics, Founding Partner of Advanced Endodontic Training: Endoninjas.

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