

Endo Clean™

by M Dent

(17% EDTA: Ethylenediamine Tetra Acetate Solution)

For Professional Use Only

PEETY PATENT NUMBER 1996

INDICATION : For Smear Layer Removal after Root Canal Instrumentation.

BACKGROUND

Root canal treatment can be summarized as a series of procedures for cleaning, shaping, and filling the root canal system. After canal instrumentation, the dentin walls of the post preparation are covered with a smear layer. The residual smear layer on the prepared root canal walls is composed of dentinal grindings and soft-tissue debris and may harbor residual bacteria. Removal of this layer by using irrigating solutions enhances final canal cleanliness and allows improved adaptation of canal obturating materials. The most effective irrigation sequence for removing the smear layer and other debris is the alternating sequence of sodium hypochlorite (NaOCl) and ethylenediaminetetraacetic acid (EDTA). NaOCl will dissolve and aid in the removal of the organic component and EDTA will aid in the removal of the inorganic calcify component of the smear layer. Current concepts support the removal of residual smear layer at completion of instrumentation prior to obturation and EDTA has been advocated for smear layer removal before obturation.

BRIEF SUMMARY OF THE INVENTION : Endo Clean™ by M Dent

This invention (Endo Clean™) is directed to improving the effectiveness in smear layer removal from dental root canal. The compound in Endo Clean™ solution includes 17% EDTA, ethylenediamine, solvent, and surfactant to enhance flotation. These chemical agents in formula are functional adjunct in reducing the packing of tissue and dentin debris on root canal walls. Endo Clean™ solution has been buffered to pH 7.3 because the chelating activity of EDTA is effective at a neutral pH. According to our study, an irrigation time of 1 min for Endo Clean™ and 2.5 % NaOCl was effective in removal of smear layer after canal preparation, as this seems clinically practical.

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PETTY PATENT 1996



PACKAGING : 200 ml / Bottle (Price : 220 Bht.)

OWNER : FACULTY OF DENTISTRY, MAHIDOL UNIVERSITY, THAILAND.

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