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CLINICAL RESEARCH STUDY ON POST AND CORE MATERIALS FOR PROSTHETIC RESTORATION OF ENDODONTICALLY TREATED MAXILLARY ANTERIOR TEETH

Achieving esthetically pleasing, structurally sound reconstructions on endodontically treated, devitalized and dis-colored teeth in maxillary anterior region often presents a challenge. Customized cast metal post and core has remained the standard for restoring such teeth for many years and are still used by clinicians. However they do not perform as well as other types of posts and core during various *in vitro* and *in vivo* studies. Some important factors to be considered while planning a post and core are retention and resistance form, preservation of tooth structure, mode of failure, retrievability, esthetics and clinical/laboratory time taken for the procedure. The FRC posts are more flexible than metal and are approximately of the same modulus of elasticity as dentin. When bonded with resin cement they distribute forces evenly in the root resulting in fewer root fractures. They are more biocompatible and are not subject to corrosion/galvanism like the cast metal post and core. The FRC posts have undergone numerous modifications in their composition, design, shape and size since their introduction. Against such a background this research study evaluated the clinical efficacy of two recently introduced FRC post and core systems to the customized cast metal post and core which meets the requirements of an ideal post and core and thus restores endodontically treated, compromised maxillary anterior teeth for use as individual units or as abutments for fixed or removable prosthesis in a predictable long term manner.

BIOGRAPHY

Maninder Hundal, a Prosthodontist of established repute is currently serving as the Executive Officer in the Indian Naval Dental Centre at Mumbai which is a prestigious institute of the Indian Armed Forces. She is an officer of the rank of a Surg Capt in the Indian Navy and has served the forces for 19 years now. She has been awarded numerous awards by the Indian Army as well as the Indian Navy for her meritorious work in serving the organization in both field as well as peace establishments. She did her Bachelors in Dental Surgery from Government Dental College, Amritsar, Punjab in 1997 with a gold medal and her Masters in Prosthodontia from Armed Forces Medical College, Mumbai University, India during the year 2001-2004. She is an avid national and international speaker with numerous scientific papers and publications to her credit. She is also an affiliate faculty for the post graduate residents of Prosthodontics at the Army Dental Centre; Refferal and research, New Delhi as well as the Armed Forces Medical College, Mumbai, India.

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