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Minimally invasive endodontics: A nostalgic turn back


Minimally invasive endodontics (MIE) is the bid for a logical regard for the original tooth tissue. Endodontists are aware that an artifact is of less biological value than the original healthy tissue. The main aims are tissue preservation, preventing of disease, and intercepting its progress, removing and replacing with as little tissue loss as possible. With regards to endodontic procedures, it can range from diagnosis to making a decision not to treat, to a minimally but purposefully fashioned access openings based on anatomical challenges, to minimal removal of dentin during access opening, enlarging and shaping of the root canal to retain as much sound dentin as possible, to performing a crown lengthening procedure to establish sound tooth margins for core/crown restorations as opposed to tooth extraction and implant or bridge placement. MIE could also include the provision of a pulpotomy as a definitive procedure, but only if the status of the dental pulp can be determined much better than we do today. Knowledge of anatomical structures and their variations is essential so that excessive enlargement proposed with some techniques and certain instruments can

be avoided. Development of new techniques to minimize tooth structure removal. Skillful conservative access openings, judicious orifice location, careful canal penetration, the use of minimally tapered rotary instruments, to develop better methods of canal cleaning and disinfection, techniques that favor ease of deliver of obturation materials thoroughly within the root canal with minimal application forces, use of strong, well-placed, bonded core materials and a post prior to crown placement, along with tooth retention, are prime goals within MIE.

Speaker Biography

Mohan Gundappa has completed his MDS from University of Mumbai in 1985 in Conservative Dentistry and Endodontics. Further, he has done his Masters in Oral Maxillofacial Radiology from University of London in 2004. Presently, he is the Principal, Professor and the Head, and a Post Graduate Teacher in Dept. of Conservative Dentistry and Endodontics of a premier Dental School in India. He has published more than 40 papers in reputed journals and has been serving as an Editorial Board Member of reputed journals.

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