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MTA as a revolution in endodontics

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In the field of dental sciences, research for newer materials is never ending. Various materials have been formulated, tested and standardized to obtain maximum benefit for good clinical performance. One such new material is Mineral Trioxide Aggregate (MTA). It is one of the most versatile materials of this century in the field of dentistry. Its composition is tricalcium silicate, dicalcium silicate, tricalcium aluminate, tetracalcium aluminoferrite, calcium sulfate and bismuth oxide. MTA materials have been shown to have a biocompatible nature and have an excellent potential in endodontic use. MTA materials provide better microleakage protection than traditional endodontic repair materials using dye, fluid filtration, and bacterial penetration leakage models. In both animal and human studies, MTA materials have been shown to have excellent potential as pulp-capping and pulpotomy medicaments. It sets in the presence of moisture and is least cytotoxic compared to other materials. It has dentinogenic and osteogenic potential. It also induces cementum apposition and facilitates regeneration of periodontal ligament. In this poster, I will discuss about the various surgical and non-surgical applications of MTA and cases performed by MTA such as furcal perforation repair, direct pulp capping, surgical root repair (apicoectomy) along with PRF placement, apexification, healing of large periapical lesion, horizontal root fracture treatment and in the management of dens invaginatus.

Biography

Amit Gandhi has completed his BDS from PDM Dental College and Research Institute Sarai Aurangabad, Bahadurgarh, Jhajjar, Haryana, India. Dr. Arjun Chadha carries immense interest in propagating the oral health care with dexterity in his hands skills and satisfying patients with her total cooperation in alleviating pain.

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