

SANGEETA TALWAR



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Dr. Sangeeta Talwar postgraduated in Operative Dentistry & Endodontics in 1986 from Faculty of Dental Sciences, King's George's Medical College, Lucknow, India. She joined Maulana Azad Institute of Dental Sciences, New Delhi in 1987 where she is presently working as Vice Principal and very effectively heading the Department of Conservative Dentistry and Endodontics since more than 30 years. She carries a reputation of an exceptional multi faceted personality, having contributed both as an academician and a clinician with astute meticulousness over the years. It is under her guidance that the Institute offers full time MDS in the subject. Her emphasis on both clinical and research aspects have led to her multiple scientific and clinical report publications in international and national peer reviewed journals. She has also authored various book chapters on the subject. She is an investigator with "Council for Scientific and Industrial Research (CSIR)" and Department of Sciences and Technology, Govt. of India under which research projects are underway in the department. She is Fellow of International College of Dentists (FICD) and Pierre Fauchard Academy. For her meritorious services and contributions in the field of health care in Delhi, she received the most prestigious "State Award" for the year 2010-11. Dr. Sangeeta has lectured extensively on various topics as keynote speaker in various conferences and workshops, with her particular interest being in the field of microdentistry.

CALCIUM SILICATE BASED CEMENTS – AN ENDODONTIST'S PANACEA !!

Recent advances in dental materials, has generated renewed interest and possibilities for Regenerative Endodontics, aimed at restoring the function of the pulpo-periodontal tissues.

Among the inorganic biomaterials, calcium silicate-based cements (Mineral Trioxide Aggregate (MTA); MTA like materials) are cements based on different formulations of calcium and silicate. Over time , newer formulations with improved physical and mechanical properties have been introduced which have given the endodontist a wider horizon of materials and treatment options to choose from in different clinical situations. Extensive research has been conducted by us on these materials in terms of their different physical properties, their removal in case of retreatment, and their biologic and biocompatible effects by evaluating cell viability and cell proliferation of vital human cells human bone marrow derived mesenchymal stem cells (hBMSCs)] in tissue repair. We have conducted studies to study the effects of calcium silicate based materials on cell biology (i.e tissue specific cell proliferation and differentiation) in various endodontic situations. This lecture focuses on an overview of the clinical aspects and applications of these calcium silicate cements in various clinical situations , backed by extensive research .