

## Regenerative endodontics-the need of the hour

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Regenerative medicine offers several advantages for the treatment of disease with its aim of “replacing or regenerating human cells, tissues or organs to restore or establish normal function”. Considerable recent enthusiasm and effort towards the application of regenerative therapy in endodontics is leading to an exciting future potential for engineering not only pulp tissue but also whole tooth. Regenerative endodontic procedures can be defined as biologically based procedures designed to replace damaged structures, including dentin and root structures, as well as cells of the pulp-dentin complex. Various approaches include root-canal revascularization, postnatal (adult) stem cell therapy, pulp implant, scaffold implant, three-dimensional cell printing, injectable scaffolds and gene therapy. The possible benefits to patients and the profession will be exciting, but several challenges still exist before such replacement therapies and can be clinically implemented in dental practice. Patient demand is impressive both in scope and cost, as the procedures can restore the biological functions instead of surgical placement of an artificial prosthesis. The presentation will give an overview of the indications, methodological issues and expected outcomes of this revolutionary therapy.

### Biography

Anil Chandra is currently serving as professor, Department of Conservative dentistry & Endodontics, Faculty of Dental sciences, CSM Medical University. He completed his Bachelor's degree in year 1983 from King George's Medical College Lucknow and went on to do his Master's in Operative Dentistry from the prestigious University (BHU) in year 1986. He is actively involved in teaching at both under graduate and post graduate level since 1986 with a total experience of 27 years.

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