



Multipurpose bioceramic materials in endodontics and clinical applications

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In contemporary endodontics, the bioceramic materials are commonly used for clinical procedures. Especially the root canal obturation using the calcium silicate sealer has been reported as an effective pressure-less technique. Recently introduced pre-mixed putty type bioceramic materials are getting popularity as a MTA substitute and used for vital pulp therapy such as direct capping and pulpotomy as well as the materials for root-end filling in surgical procedures.

This lecture will present various clinical indications of calcium silicate based bioceramics. Cases of

intentional replantation and pulp revascularization using pre-mixed bioceramics will be detailed with some clinical video clips.

- Basic understanding of endodontic bioceramics
- Bioceramic root canal sealer and its advantages
- Pre-mixed MTA and clinical applications
- Indications and clinical cases of "Intentional Replantation"
- Clinical technique of "Pulp Revascularization procedure"
- Putty type calcium-silicate and its usage as extraordinary endodontic procedures