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Stimulation of reactionary dentine in indirect pulp capping

Biodentine™ is able to stimulate a reactionary dentine which is a natural barrier against bacterial invasions. The reactionary dentine formation stabilizes at 3 months, indicating that the stimulation process is stopped when a sufficient dentine barrier is formed [30].

Use of Biodentine™ as a direct pulp capping material

Clinical trial conducted by Septodont showed that Biodentine™ can be used in direct pulp capping indications with a good success rate. Perard et al. [31] assessed the biological effects of Biodentine for use in pulp-capping treatment, on pseudo-odontoblastic and pulp cells and found that MTA and Biodentine modify the proliferation of pulp cell lines. Nowicka et al. [32] concluded that Biodentine had a similar efficacy to that of MTA in clinical setting and can be considered as alternative to MTA in pulp capping treatment because it preserves pulp vitality and promotes its healing.

Application in Endodontics

Use of Biodentine in pulpotomy

Villet et al. [33] performed partial pulpotomy in an immature premolar and detected fast tissue response (radiologically evident) by the dentin bridge formation and continuation of root development in shorter time. They experienced increased speed of pulpal response and homogenous bridge formation making Biodentine good choice than calcium hydroxide [34-36].

Use of Biodentine™ as an endodontic repair material

The endodontic indications of Biodentine™ are similar to the usual calcium silicate based materials, like the Portland cements and MTA. Biodentine has been recommended for perforation repair, formation of apical plug and furcation repair.

Biodentine™

