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## Coronal pulpotomy in permanent teeth: an alternate to root canal treatment

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Though the modern root canal treatment is reasonably a successful treatment modality in teeth with irreversibly infected pulp; however, it is more complex, extensive and expensive sort of treatment. Moreover, it needs to remove the sound dentine to clean and fill the root canals and the procedure renders the tooth susceptible to fracture. This is scientifically proved that teeth with having vital pulp remain longer than the root treated teeth. The advent of modern biomaterial based on bioceramic like mineral trioxide aggregate, biodentine and BC root repair material have potential to regenerate both hard and soft tissue including dental pulp. The sequence of pulp infection usually spread from coronal area to radicular space and this take days to weeks, so in early stage of infection if coronal pulp tissues be removed the radicular pulp can be saved to nourish the dentine and this procedure is called coronal pulpotomy. Usually pulpotomy is recommended for the permanent teeth having immature root but there are some recent studies which claimed a successful outcome of this procedure in mature permanent teeth if performed with bioceramic materials. So, in our study the pulpotomy was performed in permanent teeth with mature roots using three bioceramic materials MTA, biodentine and BC root repair material. Total 32 teeth with irreversible pulpitis but with normal periapical status were treated by performing the coronal pulpotomy procedure with three different materials MTA, biodentine and BC root repair material. On follow- up the teeth were checked clinically and radiographically. After more than a year follow-up, more than 90% teeth showed healthy signs. Coronal pulpotomy could be an alternate treatment modality to the root canal treatment in mature permanent teeth having irreversibly infected pulp.

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