

## 0441 **Partial Pulpotomy for Treatment of Traumatic Irreversible Pulpits** A. Çelik, N. Ünlü Restorative Dentistry Department, Selcuk University, Konya, Turkey

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**Objectives** In cases of complicated crown fractures, depending on the condition of the pulp, direct capping, partial pulpotomy, pulpotomy, and pulpectomy options can be employed for the treatment of traumatized teeth. It has been shown in the literature that teeth with irreversible pulpitis can be treated successfully with partial pulpotomy or pulpotomy, in addition to canal therapy, allowing the teeth to remain functional in the oral cavity.

**Methods** A 16-year-old male patient presented to our clinic with complaints of fractured anterior teeth and severe nocturnal pain following a motorcycle accident. Intraoral examination revealed the presence of a complicated crown fracture on tooth #21, exhibiting symptoms of irreversible pulpitis. Under rubber dam isolation, the infected pulp was gradually removed using a sterile diamond round bur, hemorrhage was controlled with a sterile cotton pellet, and a bioceramic-based putty material (WellRoot PT, Vericom, Chuncheon, South Korea) was placed over the presumed healthy pulp. Upon this, a light-cured calcium silicate-based material (TheraCal LC, BISCO, Chicago, USA) was placed, followed by restoration with composite resin (Tokuyama Palfique Estelite, Tokuyama, Tokyo, Japan). Clinical and radiographic examinations conducted during a one-year follow-up revealed no pathological conditions, and positive responses were obtained from vitality tests.

**Results** Clinical and radiographic examinations conducted during a one-year follow-up revealed no pathological conditions, and positive responses were obtained from vitality tests.

**Conclusions** As stated in the literature, in teeth exhibiting symptoms of irreversible pulpitis, alternative treatment options such as partial pulpotomy and pulpotomy can be considered apart from root canal therapy.