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Autotransplantation of mandibular third molar with completely formed roots: A case report

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This case report presents the autotransplantation of a mandibular third molar (tooth #48) with completely formed root to replace a mandibular second molar (tooth #47) diagnosed with asymptomatic irreversible pulpitis. After extraction of tooth #47, the recipient socket was prepared based on the size measured. Extracted third molar #48 was adapted to sockets and stabilized using suture. After two weeks, root canal treatment was initiated. The patient was recalled at 3-month and 1-year. Clinical and radiographic examinations were conducted. The transplanted tooth was asymptomatic and maintained without any pathologic changes. Advantages of autotransplantation include maintenance of alveolar bone formation, possible orthodontic movements, and a relatively low cost. This case report demonstrates that an autotransplantation of a third molar is a good treatment option to replace non-restorable teeth.

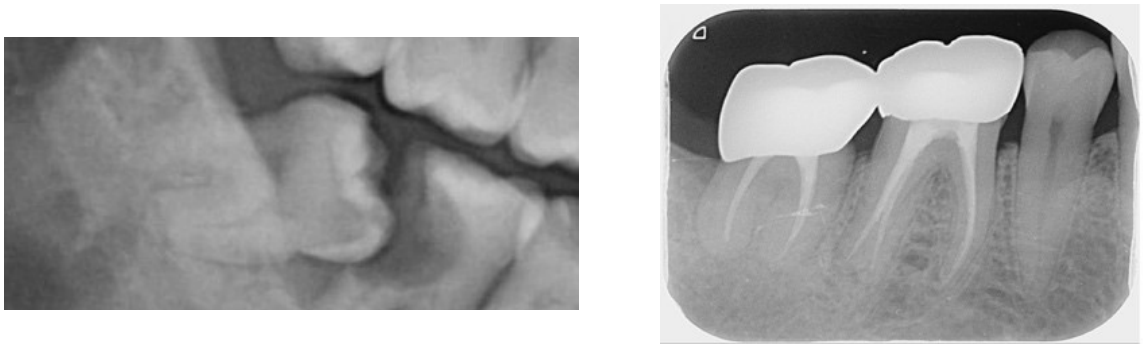

Figure: Preoperative state 1-year recall.

Recent Publications:

1. Y E Jang et al. (2014) Cytotoxicity and physical properties of tricalcium silicate-based endodontic materials. Restorative Dentistry and Endodontics. 39(2):89-94.
2. Y E Jang et al. Changes in SIRT gene expression during odontoblastic differentiation of human dental pulp cells. Restorative Dentistry and Endodontics. 40(3):223-228.

Biography

Young Eun Jang is currently the Clinical Assistant Professor at Ewha Womans University Medical Center.

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