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Dental complications and management of a patient with neuroblastoma: Splint of mandibular incisors with root anomalies using mini-screw

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Neuroblastoma is a common malignant tumor of the sympathetic nervous system in childhood, arises from embryonic neural crest cells. The period of tooth development is matched with peak times of diagnosis and treatment of neuroblastoma. The intensive multimodality treatment including radiotherapy and chemotherapy is used in patients with neuroblastoma has been shown to have late adverse effects and disturbances in dental development like tooth agenesis, microdontia, enamel hypoplasia and short roots. A 8-year old girl had been on medication and radiotherapy for neuroblastoma since she was 15 months old at Department Pediatrics, Chonnam National University Hospital. Oligodontia, microdontia and short root formation was notable in clinical and radiological examination. Mobility of lower permanent incisor was detected and measured at about degree 2. Resin wire splint using mini-screw implantation on buccal alveolar bone was conducted for maintenance of mandibular incisors and alveolar bone. Excessive mobility has been eliminated and maintained well so far. Further treatment is planned for re-evaluation of mobility, preventing dental caries and regular oral hygiene management. Although we need further evaluation, this treatment could be one of alternative therapy for those who have similar dental anomalies.

Biography

Yong Jin Lee has graduated in 2009 from the University of North Alabama in the United States. He completed his Master's degree in 2014 and is currently in Doctorate program at the school of Dentistry in Chonnam National University, South Korea.

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