

21<sup>ST</sup> ANNUAL WORLD DENTAL SUMMIT

February 26-28, 2018 | Paris, France

**Apicoectomy of endodontic treated teeth with abnormal root state: Case report - a root fractured upper central incisor due to trauma and complex root canal anatomy in maxillary posterior tooth****Hyerin Shin**

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Faced with the failed previous endodontic treated teeth, the surgical endodontic approach is the only alternative except extraction where re-endodontic treatment is impossible. Apicoectomy is one of surgical endodontic therapies, especially performed for teeth with the abnormal root state. The aim of this presentation is to show the treatment outcome through apicoectomy. The 1<sup>st</sup> case: A 19-year-old male with symptoms of pain and gingival swelling of upper right central incisor. Clinical examination and past dental history revealed an endodontic therapy followed by post after the root fractured due to trauma in the past. Apicoectomy along with removal of apical part in the fractured root were performed. After 1 year, although there was clinically acceptable mobility due to the shortened root, the tooth was soundly maintained without pain and inflammatory symptoms. The 2<sup>nd</sup> case: A 27-year-old male with the symptom of a gum boil without pain in upper left 1st molar, performed the endodontic therapy 5 years ago. The periapical radiography and Cone Beam CT showed the apical lesion of the mesiobuccal root with complex anatomy, the spiral apex of MB root made the root canal therapy incomplete previously. The suitable treatment method chosen for this case was apicoectomy as re-endodontic therapy would not assure successful results due to apical spiral of the root. Apicoectomy of the MB root with apical spiral part resection was done. There was no symptom recurred in 6 month-checkups and the periapical radiography showed the healing state with the decreased size of radiolucent lesion

**Biography**

Hyerin Shin has completed PhD in 2016 from Yonsei University College of Dentistry in South Korea. She has completed her Dental graduation course from Pusan National University. She is the Clinical Fellow of Advanced General Dental Department in the St. Vincent Hospital, The Catholic University of Korea

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