



## Orthodontic extrusion of a traumatized anterior tooth

Hyunsook Chung\*, Hyunjung Ko, Wonkyung Yang

*Department of Conservative Dentistry, Seoul Asan Medical Center, Seoul, Korea*

### I. Introduction

In management of traumatized teeth, it may be necessary to perform extensive surgery in order to obtain good access for endodontic or restorative procedures. Although orthodontic extrusion requires multiple visits and is more time consuming than surgical procedure, it is preferred because the orthodontic forces allows a biological way of extruding the tooth with better esthetic results. The aim of this presentation is to report patients who were in need of orthodontic extrusion to solve the restorative problems.

### II. Case Presentation

#### Case 1

1. Sex/age: M /52
2. Chief Complaint (CC): Traumatic injury on upper face
3. Past Dental History (PDH): None
4. Present Illness (PI): Complicated crown root fx. on #21
5. Impression: Complicated crown root fx. on #21
6. Tx. Plan: ① Non-surgical RCT , orthodontic extrusion, & crown lengthening procedure on #21  
② Post & core, PFG crown restoration on #21

#### Case 2

1. Sex/age: M /48
2. Chief Complaint (CC): Facial trauma a week ago
3. Past Dental History (PDH): Previous trauma Hx. & resin build up on #21
4. Present Illness (PI): Intrusion with crown fx. on #12
5. Impression: Intrusive luxation with crown fx. on #12
6. Tx. Plan: ① Non-surgical RCT & orthodontic extrusion with fiberotomy on #12  
② Resin build up or crown restoration on #12

### III. Conclusion

This case presentation demonstrates a predictable solution using orthodontic extrusion in overcoming restorative difficulties caused by trauma. Orthodontic extrusion can preserve the natural root system and related periodontal architecture, resulting in years of additional service for the patient. Given the reported success of the technique, it should be employed more often by dentists.