



Multidisciplinary treatment approach for crown-root fracture

Hyeon Jeong*, Sang-Jin Park, Gi-Woon Choi

Department of Conservative Dentistry, Kyunghee University, Seoul, Korea

I. Introduction

Facial injuries occur usually as a result of sports activities, falls, car accidents, fight and intentional assaults. Maxillary incisors are the most common teeth involved in dental trauma and, most of time, dental crowns are damaged. Especially, tooth fracture below the gingival attachment or alveolar bone crest presents restorative difficulties. Treatment of the crown-root fracture is complex and requires a comprehensive and accurate diagnostic and treatment plan. It is also important to consider the biologic, functional, esthetic and economic aspects, as well as the patient's desire.

This presentation aims to report cases that show the multidisciplinary approach required to successfully manage the rehabilitation of the maxillary incisors with complex crown fractures.

II. Case Presentation

Case 1.

1. Sex/age: M/20
2. Chief Complaint (C.C): Crown fractures on upper anterior teeth
3. Past Dental History (PDH): N/S
4. Present Illness (P.I): Complicate crown-root fracture on #11
5. Impression: crown and root fracture
6. Tx Plan: Surgical extrusion, RCT, crown lengthening and crown restoration

III. Conclusion

The most important thing in a successful functional and esthetic rehabilitation of complicated crown-root fracture is multidisciplinary approach, which involves surgery, endodontics, orthodontics, periodontics and prosthodontics.