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53. Management of Peg Shaped Maxillary Lateral Incisor during orthodontic treatment by esthetical approach: a case report
Crown fracture management of maxillary right central incisor with prefabricated direct composite veneer (componeer): a case report

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Background: Fractures of the anterior teeth are common and can interfere with a person’s appearance. There are many ways that can be done to restore the teeth with aesthetic problem, such as a veneer. Componeer as a direct veneer restoration can be used by easy application, but does not require a long working time, and give a better aesthetic.

Case: A 28-year-old female patient came to the Department of Conservative Dentistry and Endodontics, University of Padjadjaran, Bandung, with major complaint of her maxillary right central incisor were broken in an accident while riding a bike. The tooth has been treated, and then restored with direct composite veneer (Componeer).

Conclusion: Componeer is the best alternative for restoration of endodontically treated teeth with fracture, because the costs are economical, short working time, and has a good aesthetic qualities.

Keywords: Direct composite veneer, Componeer, Dental fracture, Aesthetic

INTRODUCTION

The most common causal factors of fracture in the permanent dentition are injuries caused by falls, contact sports, car crashes, or foreign bodies hitting the teeth. Management of patient’s with anterior tooth fracture provides great challenge to the clinicians both from a functional and an aesthetic perspective. Treatment objectives may vary depending on the age, socio-economic status of the patient and intraoral status at the time of treatment planning. The choice of restoration for an endodontically treated tooth is dependent on the amount of coronal tooth tissue left. There are various treatment modalities for restoration of fractured teeth like composite restoration, fixed prosthesis, reattachment of the fracture fragment (if available) followed by post and core supported restorations, or with the newest technique: veneer. Veneer is an aesthetic restoration technique, divided into two main categories: indirect and direct. Indirect veneer was made extra oral and attached to the teeth with resin cement (for example, porcelain veneers). Direct veneer was made directly in the mouth, usually using one or more layers of resin composites.

CASE REPORT

A 28-year-old woman came to the Department of Conservative Dentistry and Endodontics, University of Padjadjaran, Bandung, reporting a dental fracture of the maxillary right central incisor. Dental history revealed that she had a trauma as the result of an accident while riding a bike few weeks earlier. The tooth had been treated with endodontic treatment. The intraoral examination showed that the tooth 11 had a complicated crown fracture in the half incisal. Thermal and Electric Pulp Tester showed no response (Figure 1).

![Figure 1. Clinical aspect of the traumatized central incisor.](image)

Radiographic examination showed crown fracture in the half incisal of tooth 11, root canal had been obturated, and there is no abnormalities in the periapical area (Figure 2).