

Crown Lengthening In Anterior Teeth Post Fracture

Fauziah Karimah¹, Hartanti²

¹Undergraduate Student, School of Dentistry, Faculty of Medicine and Health Science, Universitas Muhammadiyah Yogyakarta

²Lecturer of School of Dentistry, Faculty of Medicine and Health Science, Universitas Muhammadiyah Yogyakarta

ABSTRACT

Introduction: Anterior tooth fracture that left minimal tooth structure might be dilemmatic for dentist to make a restoration. Since it has less retention for final restoration, dentists usually decide to extract the teeth without consider its aesthetics aspect especially in anterior teeth. Crown lengthening is a procedure to expose clinical crown that may enhance retention in final restoration. **Case Report:** A 20 years old women came to dental hospital with fracture in upper incisor after motorbike accident. Teeth 21 was fracture into 1/3 cervical without periodontal tissue damage. The pulp was *necrose* and there no any periapical disorder from radiograph imaging. **Case Management:** Scaling and root planning in region 21 was done before the surgery. Gingival of teeth 21 was incised circumferentially about ± 2 mm in depth using blade no 15 and universal curettage while surgical wound were covered with periodontal pack. Root canal treatment was done followed by fiber post and glass ionomer core restoration. At last, porcelain fused to metal crown was inserted for final restoration. **Result:** Final restoration of porcelain fused to metal crown was remain until 6 months observation and patient was satisfied with the result of the treatment. **Conclusion:** Crown lengthening procedure can be beneficial to create more retention for final restoration in fracture anterior teeth with less tooth structure.

Key words: *Crown lengthening*, anterior teeth, periodontal surgery.