Crown Lengthening and Gingival Depigmentation Procedure before Crown Insertion: A Case Report

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Introduction

Crown restoration is one of treatment options for widespread tooth decay. The success of this restoration may depend on preparation technique and gingival tissue preparation. Crown lengthening and gingival depigmentation may esthetically improve the crown restoration.

Objectives

To emphasize the importance of gingival preparation before crown insertion.

Case & Case managements

A 30-years-old female patient was referred to Hasanuddin University Dental Hospital with chief complain of unpleasant esthetic appearance in anterior region of maxillary teeth. Upon intraoral examination, there were smile line heights more than 4 mm, hyperpigmentation of gingiva, acrylic crowns on teeth #11, 12 and 21 with discolorization after two years of insertion and secunder caries on teeth #22. Initial periodontal treatment of all regions along with endodontic and restorative treatment of 11, 12, 21 and 22 was performed. Crown lengthening procedure followed by depigmentation of gingiva were conducted in the next appointment. The new crowns were inserted after three months.

Conclusion

Interdisciplinary collaboration in dentistry is beneficial to achieve optimal result in the treatment of anterior esthetic disturbance.