

# Periodontal-Prosthetic Treatment Approach to Manage Gummy Smile and Skeletal Class III Patient : A Case Report

Tamer Celakil,DDS,PhD<sup>1</sup>, Mutlu Keskin,DDS,PhD<sup>2</sup>, Emrah Baca,DDS,PhD<sup>1</sup>, Gulumser Evlioglu,DDS,PhD<sup>3</sup>

<sup>1</sup>Assistant Research, Department of Prosthodontics, Istanbul University, Istanbul, TURKEY

<sup>2</sup>Istanbul Kemerburgaz University, Vocational School of Health Services, Istanbul, TURKEY

<sup>3</sup>Professor, Department of Prosthodontics, Istanbul University, Istanbul, TURKEY

## Purpose

A gummy smile poses prosthetic and periodontal challenges for dentists attempting to achieve ideal esthetics. Gingival contouring procedure can create a mucogingival defect or a biological width devastation.

## Materials and Methods

A 37-year-old female presented with a complaint of excessive gum visibility while smiling as well as in resting lip position and crowding. Clinical and radiographical assessment of the concerned area was carried out to rule out any major pathology of the region. A diagnostic wax-up and 1 mm durable copolyester outer layer guide fabricated for marking gingival level. Gingivectomy was preferred over flapless surgery and mock-up used like temporary prosthesis after gingivectomy surgery. Using self-cured temporary acrylic, an intra oral mock-up was created that exactly duplicated the wax-up in temporary veneers to the mouth after tooth preparation procedure.



## Results

The patient was reviewed after a month, and 1 year follow-up of the case has been completed. The gummy smile significantly reduced and she also maintains good gingival health. The profile had improved with prosthetic treatment and she is satisfied with the prosthesis.



## Conclusion

It is important during treatment planning to evaluate the anatomical relationship that issued in the gummy smile and choose the appropriate periodontal and prosthetic treatment to eliminate this condition.