

MANAGEMENT OF PHYSIOLOGIC MELANIN-INDUCED GINGIVAL PIGMENTATION: A CASE REPORT

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Endogenous factors-
Haemoglobin,
Bile pigments, Melanin,
Hemosiderin

INTRODUCTION

Exogenous factors-
Silver amalgam,
Graphite, Lead,
Mercury, Bismuth

Melanin Pigmentation Index (MPI), Oral Pigmentation Index (OPI) and Smile Line classification were taken into consideration for measurement of gingival pigmentation.

A 19-year-old female patient with a chief complaint of black colour of gums on upper front teeth region for the previous 3 years. Measurement of gingival pigmentation scores was done with MPI score-2, moderate clinical pigmentation, and class 1 i.e. a very high smile line.

MATERIAL AND METHODS

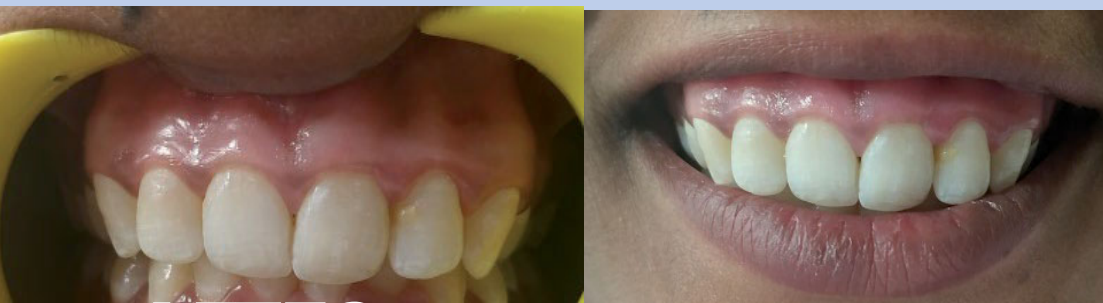
After intra and extra-oral examination, a scalpel technique with an abrasive bur technique as gingival depigmentation procedure was decided on. For the high smile line, a surgical procedure was considered but patient did not consent.



PRE-OPERATIVE

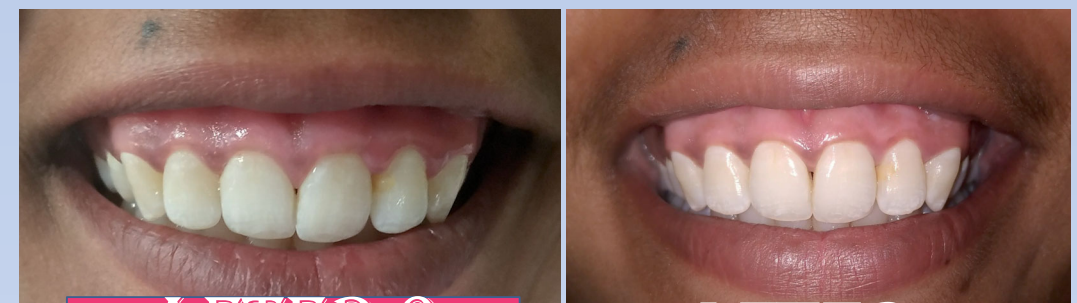


INTRA-OPERATIVE



AFTER 1 WEEK

AFTER 1 MONTH



AFTER 6 MONTHS

AFTER 1 YEAR

RESULTS: Satisfactory results were obtained with reduced pigmentation scores, MPI scores - 0, no clinical pigmentation (pink gingiva)

CONCLUSION- Procedure was simple, cost-effective, comfortable for the patient with less pain, minimal tissue loss, requiring minimum time and effort. After 1-year follow up, we found a decrease in pigmentation scores, and the patient was satisfied with clinical results.