

Gingival Depigmentation in Esthetic Area: A case series



Hourya Alnofaie^{*}, f, BDS, MSc^{**}

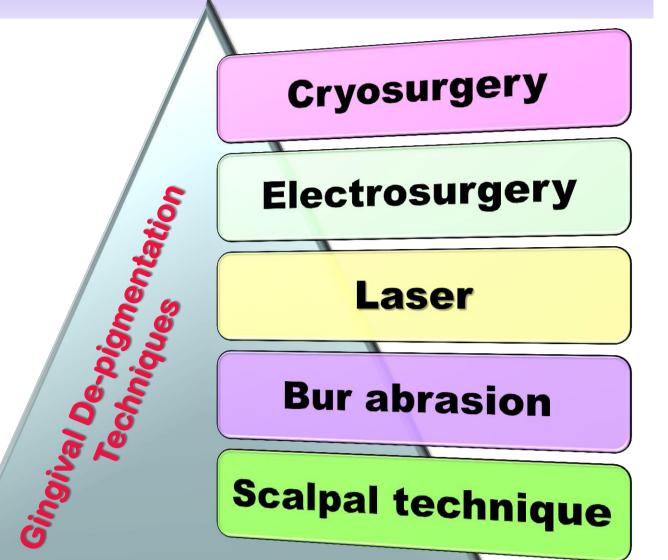
*4th year dental student, college of dentistry, King Saud University, Riyadh, Saudi Arabia.

**Periodontist and lecturer, Department of periodontics and community dentistry, King Saud University, Saudi Arabia.

Introduction

Tingival melanin hyperpigmentation is a clinical discoloration of the gingiva which is associated with local and or systemic factors including genetic, tobacco use, prolonged administration of certain drugs especially antimalarial agents and tricyclic antidepressants.¹ The Pigmentation is mostly located in the anterior labial gingiva, affecting females more than males.²

It can be treated by gingival depigmentation which is a periodontal procedure where the hyperpigmentation is removed by various. Systematic reviews show that cryosurgery exhibits the optimal predictability for depigmentation, followed by electrosurgery and laser techniques.³



Scalpal technique

The case series presented here used bur abrasion/scraping technique for the management of gingival melanin pigmentation exclusively for the esthetic purpose. The technique is simple, versatile & cost effective and does not require sophisticated instrument or apparatus but still providing satisfactory & stable outcome after 5 years follow-up.

Materials & Methods

Three cases were selected as the patients were healthy with no history of systemic diseases or smoking, and presented with a greater degree of gingival pigmentation compared to their skin colour. Based on that, a decision was taken to do an anterior depigmentation by "Surgical abrasion" using round diamond bur.

Case Series



Figure 1: Pre-operative picture of 22 years-oldSaudi female.

Figure 2: Depigmentation of lower arch.

Figure 3: Degigmentation of upper arch.

Figure 4: 5 Years follow up

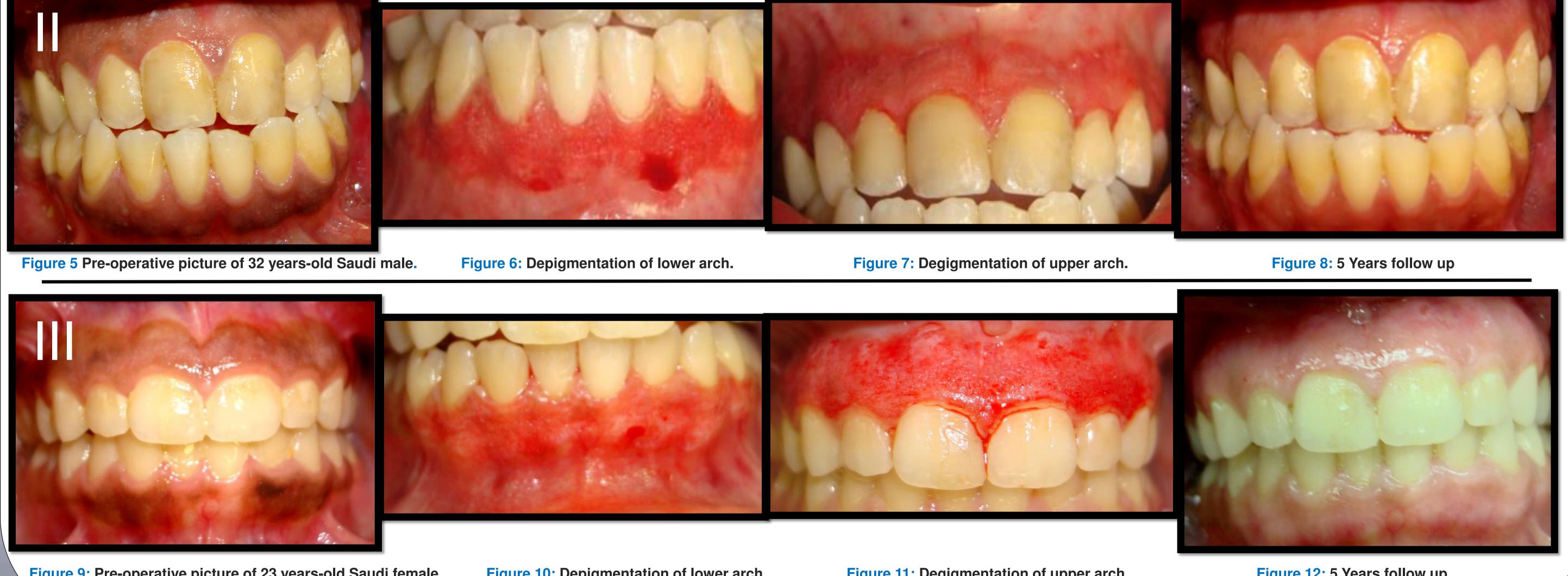


Figure 9: Pre-operative picture of 23 years-old Saudi female.

Figure 10: Depigmentation of lower arch.

Figure 11: Degigmentation of upper arch.

Figure 12: 5 Years follow up



References

Gingival depigmentation is a periodontal plastic procedure should be included in the treatment options designed to ensure more accurate esthetic outcome thereby enhancing the confidence of the patient. The bur/scraping technique provided stable clinical results with minimal postoperative discomfort.



1. Kasagani SK, Nutalapati R, Mutthineni RB. Esthetic depigmentation of anterior gingiva. A case series. N Y State Dent J 2012;78:26-31. 2. Unsal .E, Paksoy .C. Oral melanin Pigmentation related to smoking in Turkish population. Community Dent Oral Epidemiol 2001,29(4):272-7. 3. Lin YH, Tu YK, Lu CT, Chung WC, Huang CF, Huang MS, Lu HK Systematic Review of Treatment Modalities for Gingival Depigmentation:A Random-Effects Poisson Regression Analysis. J Esthet Restor Dent 2014, 26:162-178.

printed by **MegaPrint Inc.** www.postersession.com