

Gingival Depigmentation

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Background

24 years old male complaining from gingival hyperpigmentation.

Gingival hyperpigmentation is a common aesthetic concern in patients with gummy smile.

Aim of the Case Study

Using diode laser with 980nm wavelength with fiber tip size 300 μ m can give very good aesthetic result.

Why diode laser for this case?

After examination, this hyperpigmentation was due to higher secretion of Melanin pigments beyond the normal level and because of his gummy smile it was very obvious when he speak or smile.

Diode 980 nm wavelength is highly absorbed by pigments, like melanin.

Number of visits: four.

Method

Choose fiber optic tip size 300 μ m.

Setting: Start with Power 2W, Frequency 10 Hz, Average power 1W.

- Use only topical anaesthesia and monitor the patient discomfort.
- Mode of application is: Contact mode.
- Use water spray to cool the tissue.
- Diode laser ablate the epithelial layer and exhibiting melanin pigmentation. Most of the hyperpigmentation is removed with minimus penetration.

The procedure is done in two sessions.

And follow up after 48 hours and then after two weeks.

The attached picture is before and after three months.



Figure

Conclusion

In comparison with conventional clinical methods for depigmentation, diode laser 980 nm with the right setting and mode of application can give better result in treating gingival hyperpigmentation and the least discomfort to the patient.

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