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Photo-epilation results of axillary hair in dark-skinned patients by intense pulsed light: comparison between different wavelengths and pulse width.

[Hee Lee J](#), [Huh CH](#), [Yoon HJ](#), [Cho KH](#), [Chung JH](#).

Source

Department of Dermatology, College of Medicine, Seoul National University, Seoul, Korea.

Abstract

BACKGROUND:

Recently, intense pulsed light (IPL) sources have been shown to provide long-term hair removal.

OBJECTIVE:

This study examined the photo-epilatory effects of different wavelengths and pulse width application in the same IPL device and compared their efficiencies in Asian skin.

METHODS:

Twenty-eight Korean women were treated using hair removal (HR) (600-950 nm filter) and 27 using HR-D (645-950 nm filter) in the axillary area. Four treatments were carried out at intervals of 4 to 6 weeks; follow-ups were conducted 8 months after the last treatment. Mean energy settings were 14.9 6 2.0 J/cm² for HR and 17.1 6 0.6 J/cm² for HR-D. Longer pulse widths were applied in case of HR-D treatment. Hair counts and photographic evaluation of skin sites were made at baseline and at the last follow-up. Final overall evaluations were performed by patients and clinicians.

RESULTS:

Average clearances of 52.8% and 83.4% were achieved by HR and HR-D, respectively. No significant adverse effects were reported after HR-D treatment. One case each of hypopigmentation and hyperpigmentation was reported for HR.

CONCLUSION:

An IPL source removing 45 nm of the emitted spectra and applying a longer pulse width was found to provide a safer and more effective means of photo-epilation in Asian patients.