



## Management of Post-Inflammatory Hyperpigmentation on Legs with Nd:YAG laser

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Introduction:

Post-inflammatory hyperpigmentation (PIH) is a common acquired cutaneous disorder occurring after skin inflammation or injury. It is a chronic disorder that is more common and severe in darker-skinned individuals (Fitzpatrick skin types III–VI). While the condition typically improves spontaneously, this process can take months to years, necessitating prolonged treatment. The Fotona StarWalker MaQX is a safe and effective treatment modality to treat PIH in a minimally invasive way.

Laser	StarWalker MaQX	
	Step 1	Step 2
Wavelength	1064nm	1064nm
Handpiece	R28	R28
Fluence	2.0-2.2J	2.0-3.0J
Mode	MaQX-1	MaQX-1
Frequency	10Hz	10Hz
Passes	2	2
Spot size	6mm	4mm



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## CLINICAL CASE:

A 36-year old female came to the clinic with the concern of post-inflammatory hyperpigmentation (PIH) that persisted as a consequences of her eczema flares during her pregnancy 2 years ago.

The Fotona StarWalker MaQX laser was proposed for treatment. Cool air was introduced before, during and after the procedure with no topical numbing used. First step was performed to target deeper layer with wavelength 1064nm, using handpiece R28, spot size 6mm, fluence 2.0-2.2J, MaQX-1 mode, frequency 10Hz, 2 passes. Second step was performed to target superficial layer using wavelength 1064nm, handpiece R28, spot size 4mm, fluence 2.0-3.0J, MaQX-1 mode, frequency 10Hz, 2 passes.

Six sessions with the parameters shown above were performed with a 3-week interval. Post-procedure care consisted of epidermal repair ointment for the next 5 days and daily body lotion.

The photos were taken before the procedure, 3 weeks after the 3rd session and 3 weeks after the 6th session.



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