



## Picosecond Solar Lentigo Removal

Anže Zorman, MD

### Introduction:

A solar lentigo, also known as a sun-induced freckle or senile lentigo, is a harmless, dark (hyperpigmented) lesion on the skin. It is caused by exposure to ultraviolet (UV) radiation, which causes local proliferation of melanocytes and accumulation of melanin within keratinocytes. Solar lentigos, or lentiginos, are very common, especially in people over the age of 40 years. They are benign, but indicate excessive sun exposure, a risk factor for the development of skin cancer.

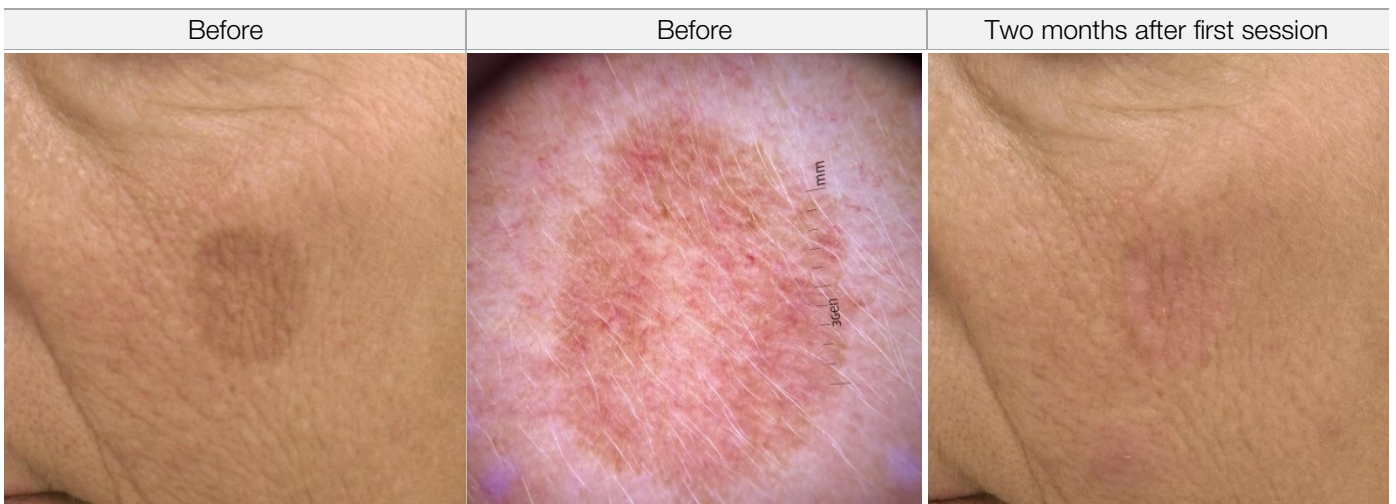
	Parameters used		
	1 <sup>st</sup> session, medial side	1 <sup>st</sup> session, lateral side	2 <sup>nd</sup> session
Laser system	StarWalker MaQX	StarWalker PQX	StarWalker PQX
Wavelength	532 nm	532 nm	532 nm
Handpiece	R28	Green	DuoDot
Fluence	1.6 J/cm <sup>2</sup>	1.2 J/cm <sup>2</sup>	1.2-1.6 J/cm <sup>2</sup>
Mode	MaQX-1	PQX	PQX
Frequency	1 Hz	1 Hz	1 Hz
Spot size	3.5 mm	3 mm	1-3 mm



*Dr. Anže Zorman graduated from the Medical University of Ljubljana, Slovenia. He did his internship at the Medical Center Novo Mesto, Slovenia and from 2013 to 2015 practiced medicine at the Health Center Sežana as a General Practitioner and Emergency Doctor. He joined Fotona in 2015 as a clinical expert specializing in dermatology, aesthetics and surgery. Since then Dr. Zorman has been involved in the development of new applications and user education. In addition to being a researcher and regular lecturer for LA&HA, he also works at the Medilase laser aesthetic center in Ljubljana since 2016.*

## CLINICAL CASE:

A female patient in her 60's came into the clinic for reasons unrelated to this report. We mentioned our ability to remove the lesion on her left cheek during her visit with us and she opted for it. Since the lentigo, present for about 10 years, was relatively big we decided to test 2 different systems, a picosecond (StarWalker PQX) and a nanosecond laser (StarWalker MaQX). Solar lentigo was divided on a medial and lateral half, medial was treated with nanosecond and lateral using picosecond 532 nm KTP using the above mentioned parameters. Both lasers performed well but due to lentigo's thickness at the border slight hyperpigmentation persisted which was resolved in a second session using only the new StarWalker PQX with a small spot size DuoDot handpiece. Patient reported discomfort level of 1-3/10 on both sides during both visits. No special after care besides daily moisturizer and sun avoidance was prescribed. The patient was extremely happy with the results



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