



Benefits of Diacope Handpiece in StarWalker MaQX

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Introduction:

The aim was to evaluate the effect of a compression window handpiece on the pain and healing process of solar lentigo lesions treated with the Fotona StarWalker MaQX.

Laser	Fotona StarWalker MaQX
Wavelength	532 nm
Handpiece	R28
Mode	MaQX-1
Fluence	1.3 J/cm ²
Frequency	2.0 Hz
Passes	2–3 passes
Spot size	4 mm



Sinem Karaca graduated as a dermatologist from Ege University, İzmir, Türkiye and received her specialization from Pamukkale University, Denizli. She has experience with different kinds of laser systems like Er:Glass, Er:YAG, Nd:YAG, thulium, and also IPL, BBL, plasma and RF systems in her private practice since 2015. She combines EBD treatments with both medical and injectable therapies. Her private practice is based in İzmir and she is open-minded about new laser technologies.

CLINICAL CASE:

Case: A 48-year-old female attended the clinic complaining about hyperpigmentation on her face and décolleté. She had three previous fractional Er:YAG laser treatments for her complaints, which didn't work as she had expected. According to dermoscopy of the lesions, they were diagnosed as solar lentigo.

Procedure: To evaluate the effect of a compression window handpiece on pain, no local anesthetic cream was applied. The treatment area was divided in half; the left side was treated with an R28 with a compression window handpiece, while the right side was treated with a regular R28. During the laser procedure, the compression window handpiece pressed on the lesions to reduce telangiectasia so that the laser energy could be absorbed only in the pigmented area. No cooling device was used during the procedure, but ice was applied immediately afterward.

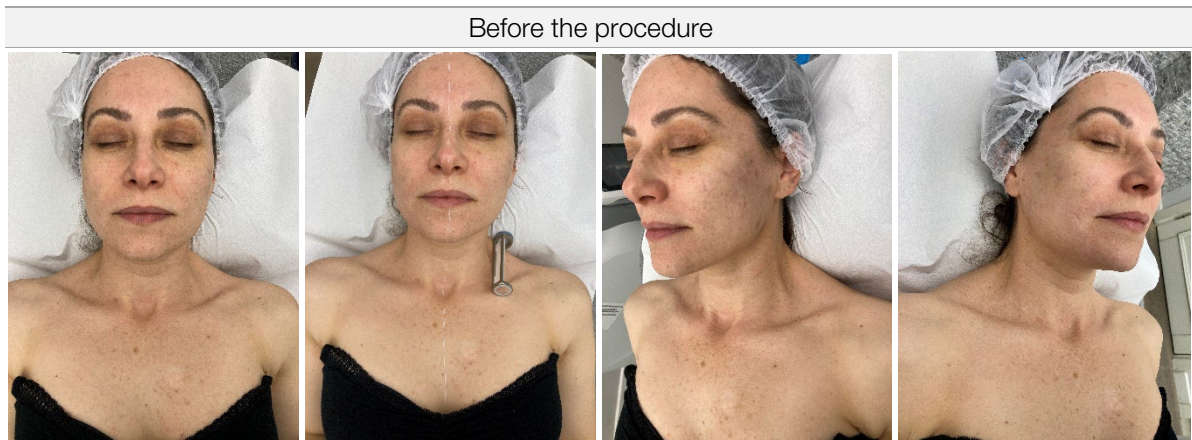
The patient was asked to evaluate the degree of pain from 1 to 10 after the procedure. She reported 6 for the compression window handpiece side and 8 for the regular handpiece side. On the right side, the lesions appeared more purple and edematous.

Post-procedure: She was advised to apply emollients and sunscreen every 3 hours, and not to scratch the crusts but allow them to fall

off naturally.

Healing process: The patient was checked 12 days after the procedure. When comparing the healing of the two sides, the left side, treated with the compression window handpiece, was noticeably less erythematous. This may reduce the risk of post-inflammatory hyperpigmentation, which is undesirable.

Conclusion: The R28 compression window handpiece can be used to improve patient comfort during the procedure and minimize the risk of post-procedure hyperpigmentation when treating pigmented lesions.



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