

Efficacy and Safety of High-Power Diode Laser at 1060 nm for Skin Rejuvenation Treatment

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KEY TAKEAWAY

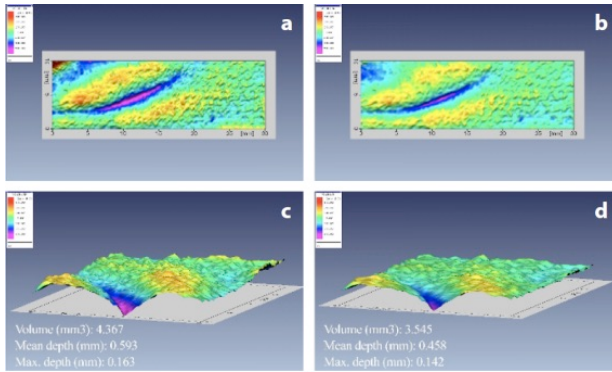
- The 1060nm high-power diode laser used in the current case obtains results comparable to those of solid-state Nd:YAG while still keeping the advantages of diode laser-based systems.
- Photographs showed a progressive improvement of the wrinkles, nasogenian fold depth, skin roughness and appearance.



- The patient experienced no pain or discomfort and even described the procedure as pleasant. Aside from a transient erythema that remained for 20 minutes no side effects occurred.

- 3D fringe projection measurements of the wrinkle confirmed a 18.8% volume improvement, a 15.5% reduction of the maximum depth and a 22% average depth decrease of the wrinkle.

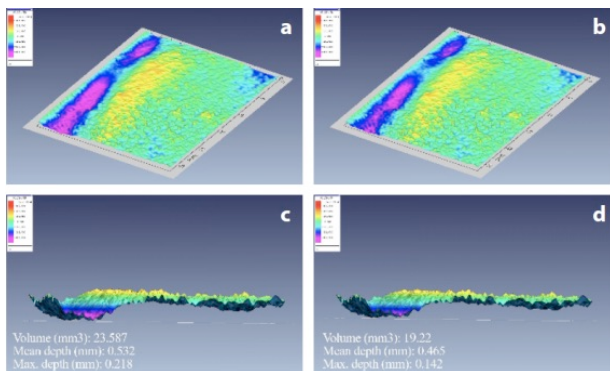
皺紋的3D線段投影測量顯示，體積減少了18.8%，最大深度減少了15.5%，平均深度減少了22%。



3D images and fringe projection measurements of the wrinkle. Before: A and C; after: B and D.

皺紋的3D圖像和線段投影測量。療程前：A和C；療程後：B和D。

- Nasogenian fold 3D measurements showed an 18.5% volume improvement, a 34.9% reduction of the maximum depth and a 12.6% average depth decrease, 3D測量顯示，虎紋體積減少了18.5%，最大深度減少了34.9%，平均深度減少了12.6%。



3D images and fringe projection measurements of the nasogenian fold. Before: A and C; after: B and D.

虎紋的3D圖像和線段投影測量。療程前：A和C；療程後：B和D。

表1. 皺紋的3D測量

Table 1. Wrinkle 3D measurements			
	第0日 Day 0	4次療程後1個月 1 month after 4 Tx	改善(百分比) Improvement (%)
體積 Volume (mm ³)	4.367	3.545	-18.8
平均深度 Mean Depth (mm)	0.593	0.458	-22.8
最大深度 Max. Depth (mm)	0.168	0.142	-15.5

表2. 虎紋的3D測量

Table 2. Nasogenian fold 3D measurements			
	第0日 Day 0	4次療程後1個月 1 month after 4 Tx	改善(百分比) Improvement (%)
體積 Volume (mm ³)	23.587	19.22	-18.5
平均深度 Mean Depth (mm)	0.532	0.465	-12.6
最大深度 Max. Depth (mm)	0.218	0.142	-34.9

表3. 皮膚粗糙度的3D測量

Table 3. Skin roughness 3D measurements			
	第0日 Day 0	4次療程後1個月 1 month after 4 Tx	改善(百分比) Improvement (%)
粗糙度 Roughness (mm)	0.108	0.098	-9.3

9.3% improvement of the skin roughness

皮膚粗糙度改善9.3%。