

Tattoo Removal - Nano vs Pico

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SUMMARY

Four tattoos with equal pigment colors and density were used to compare the efficiency of new picosecond q-switched laser with standard nanosecond q-switched laser. A single aggressive split-tattoo treatment was performed using a 750 ps, 755 nm laser (Cynosure, USA) in comparison to a 5 ns, 1064 nm laser (QX-MAX, Fotona).

In the first case, after one treatment on black ink, the nano laser performed a better job.

In the second case, we had a multicolor tattoo and the clearance was similar.

In the third case, we treated another multicolor tattoo with similar results, with the nano laser doing a better job on the black pigments, while the others showed similar clearance.

In the fourth case, we treated an oil explosion traumatic tattoo. There were no visual differences regarding efficacy.

In conclusion, after a single treatment, a traditional nanosecond laser is equal or better in removing pigments. Nanosecond lasers deliver higher fluences at larger spot sizes. Having the right color laser for the right pigment is probably a greater advantage than having very short pulses and the wrong color laser.

QX MAX Treatment of Acne Vulgaris

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SUMMARY

Currently available treatments for acne do not have satisfactory results. Many light-based treatments are limited by pain during the procedure. Recently, Nd:YAG infrared 1064 nm laser treatments were introduced.

We have performed a limited study with a Q-switched Nd:YAG laser on 34 patients who were unresponsive to traditional acne therapy. The main advantages are no pain, no downtime and no consumables. We used the combination of Accelera mode pulse (0.25 ms) and Q-switched nanosecond mode (5 ns). In the first pass with Accelera mode, we stacked pulses until the heat tolerance discomfort was reached. In the second pass with nanosecond pulses, we did four passes. For the average patient the treatment involved cheeks and temples and sometimes the chins. The duration of the whole treatment was approximately ten minutes. The frequency of treatments was two times per week.

The QX MAX has proven itself with good efficacy, lack of discomfort and the appeal of a drug free acne treatment with no downtime.

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