



LASERS

THE WELL ESTABLISHED EFFECTIVENESS OF Q-SWITCHED NANOSECOND LASER FOR TATTOO REMOVAL

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Background: Tattoo consists of phagocytosed ink particles, trapped mainly in fibroblasts and macrophages dermal cells. During photo-therapy, the pigment absorb the emitted light, where it is rapidly converted into heat, leading to fragmentation of the clusters. Due to the rapid and selective nature of this process, collateral damage to the adjacent tissue structures is avoided.

Observation: Case 1 – Subject was seeking treatment for a professional, black tattoo on the leg (tattoo age ~10 years) and underwent 8 treatments (fluence range was 2.25-14 J/cm2) with 2-month interval. Investigator rated clearance as 51-75% after 4th treatment and 76-100% after 8th treatment.

Case 2 –Subject was seeking treatment for large camouflage tattoo on the back (tattoo age ~15 years) and underwent 6 treatments (fluence range was 2.25-14 J/cm2) with 2-month interval. Investigator rated clearance as 26-50% after 3rd treatment and 51-75% after 5th treatment.

Case study 3 – Subject was seeking treatment for ethnic tattoo on the forehead (tattoo age ~31 years) and underwent 6 treatments (fluence range was 2.25-14 J/cm2) with 2-month interval. Investigator rated clearance as 51-75% after 3rd treatment and 76-100% after 6th treatment.

Case study 4 – Subject was seeking tattoo lightening in order to apply a new camouflage tattoo on the back (tattoo age ~7 years). Subject underwent 3 treatments (fluence range was 2.25-14 J/cm2) with 2-month interval. Investigator rated clearance as 51-75% after 1st treatment and 76-100% after 2nd treatment.

Key message: The well-established nanosecond domain treatment for tattoos is still the gold standard for various types of dark tattoos and provide a safe and effective treatment for practices that own only a 1064nm QS module.





