

RevLite Q-Switched Nd:YAG Laser Treats Wide-Range of Aesthetic Indications

By Bob Kronemyer, Associate Editor

From wrinkle reduction to tattoo removal, the RevLite EO Q-switched Nd:YAG laser from HOYA ConBio (Fremont, Calif.) can successfully treat a wide-range of popular aesthetic indications, in part because of its four distinct wavelengths.

"At my dermatology practice, I offer treatments with this laser for wrinkle reduction, vascular lesions, acne scars, dermal lesions, epidermal pigment, tattoo removal and hair removal," said Ariel Hasson, M.D., an assistant professor at Clinic Hospital, Catholic University in Santiago, Chile. Pigmented lesion removal includes Ota's nevi, Becker's nevi and solar lentiginos, whereas vascular lesion treatment encompasses port-wine birthmarks and telangiectasis.

Dr. Hasson's two most popular indications to treat with the RevLite are hair and wrinkle reduction. Facial hair requires four to six sessions, spaced one month apart and other sites are treated every five to six weeks for a total of at least five sessions. "Patients can expect lightening, thinning and reduction in the number of hairs," he noted. For wrinkle reduction, patients schedule a minimum of four weekly sessions, for which there is a decrease "in fine lines and pore size, smoother texture of the skin and tightening."

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Dr. Hasson also treats aging skin with good results and without pain or complications such as severe erythema, bleeding, crusting or scars. "RevLite's technology produces a PhotoAcoustic action to target the molecule versus the photothermal action delivered by other lasers," he said. This PhotoAcoustic Technology Pulse (PTP) produces shockwaves thought to reorganize the skin's collagen, giving skin a tightening sensation. Dr. Hasson also mentioned that the RevLite

has the advantage of treating ethnic skin (types IV – VI) in South America, "with minimal risk of hyperpigmentation."

Will Kirby, D.O., F.A.O.C.D., a board certified dermatologist in private practice in Beverly Hills, Calif., uses the RevLite exclusively for tattoo removal. "Even though the laser is very technologically advanced, it has a touch screen and is relatively simple to operate. The laser is basically plug-and-play," he said. The intuitive touch screen features several preprogrammed settings for tattoo removal, wrinkle reduction, dermal lesions, laser peel and hair removal. A physician can also customize settings for his practice needs.



Will Kirby, D.O., F.A.O.C.D.
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For tattoo removal, the RevLite "is absolutely effective for treating most colors," Dr. Kirby said. Four distinct wavelengths target different ink colors: dark and black (1064 nm); red, orange and some yellows (532 nm); sky blue and purple (585 nm); and green (650 nm). Patients schedule anywhere from 5 to 15 sessions, normally six to eight weeks apart, with the typical patient requiring seven to nine treatments. Some patients achieve complete removal of their tattoo, while others are satisfied with the lightening that occurs after only three or four sessions. "The RevLite laser also does a phenomenal job of treating different skin types," Dr. Kirby added.

RevLite's PTP setting adds a subtle photothermal effect to the PhotoAcoustic action. "The combination of the PTP and selective photothermolysis makes this laser an excellent tool for my practice," Dr. Kirby said. "The selective photothermolysis does not arbitrarily destroy tissue. It selects just the ink." In addition, because PTP limits the tissue's exposure to thermal build-up, skin can be treated with no scarring or need for cooling.