

Physicians Embrace RevLite for Anti-Aging Procedures

By Amy Kamin, Contributing Editor

RevLite's (HOYA ConBio™, Fremont, Calif.) Q-switched Nd:YAG laser offers superior non-ablative resurfacing effects, including the improvement of a patient's skin texture and pigmentation, decreased redness, a reduction in fine lines and wrinkles and collagen stimulation. As a result, aesthetic physicians are incorporating the RevLite® into anti-aging regimens, characterized by monthly or weekly treatments over a period of six months or longer. Such programs are creating a paradigm shift for aesthetic lasers, positioning treatments as maintenance therapy similar to cosmetic non-medical procedures such as facials, hair color, nail care, etc.

RevLite is the newest generation of sophisticated Q-switched engineering that was pioneered by HOYA ConBio more than 15 years ago. Today's RevLite features PhotoAcoustic Technology Pulse (PTP), a unique pulse dispersion that delivers both a PhotoAcoustic and a subtle photo-thermal effect to the target tissue. Harnessing 60% more power than the company's previous lasers, the RevLite delivers peak energy at very narrow pulse widths, even at larger spot sizes. According to David Goldberg, M.D., clinical professor of dermatology, director of laser research at Mount Sinai School of Medicine (New York, N.Y.), and one of the earliest researchers of Q-switched technology, "RevLite produces cosmetically elegant results."



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Ten years ago, Dr. Goldberg conducted a study of HOYA ConBio's first non-ablative Q-switched Nd:YAG laser, comparing it to ablative CO₂ lasers. "High

fluences produced results, but with significant wounds. When used at low fluences we didn't get the wounds, but it also didn't produce significant results," reported Dr. Goldberg. "The RevLite's new PTP delivery system has the ability to produce a mild thermal effect and, most importantly, doesn't have to create a wound." The absence of wound healing or social downtime enables patients to enjoy the laser's benefits on a regular schedule.

Dr. Goldberg just completed a clinical research study on RevLite and believes preliminary results are impressive. For the study, he treated six patients every other week, using an 8 mm spot size, a 1064 nm wavelength at 3.4 J/cm² energy output. Blind evaluators observed subjects at three months and reported that 75% had fair-to-good improvement in skin texture and pigmentation, and 88% showed an improvement (reduction) in redness. According to Dr. Goldberg, biopsies and light microscopies showed collagen renewal.

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has an added bonus in providing laser facials or anti-aging maintenance treatments. It is a relatively painless procedure and delivers energy with amazing speed and results," noted Amir A. Bajoghli, M.D., clinical assistant professor, George Washington University School of Medicine (Washington, D.C.).



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RevLite's 1064 nm wavelength with PTP conditions the skin, cleans and tightens the pores and stimulates collagen. "We perform treatments on our patients once a week for a month or two, and then once a month for four to five months for maintenance," Dr. Bajoghli explained. "It is comparable to the glow from TCA peels in the 25% to 35% range. You achieve mild peel like results without the redness and downtime." The RevLite is safe for all skin types and doesn't require any cooling devices or messy gels. An intuitive touch screen panel allows the physician to choose from a menu of pre-programmed settings or create custom settings appropriate for their patient base.

With regular follow-up maintenance treatments, the anti-aging procedure has been well received by patients. Like many physicians, Dr. Bajoghli is pleased that the RevLite satisfies his patients' aesthetic goals while enhancing the practice with regular income generated from an ongoing procedure. Additionally, the RevLite provides the ultimate versatility in an aesthetic laser, with FDA clearance for a variety of popular indications including treatment of vascular and pigmented lesions, hair removal, acne scar reduction and full spectrum tattoo removal.