

MultiClear Tunable UV Light System Offers New Repigmentation Treatment Approach

By Bob Kronemyer, Associate Editor

CureLight (Or Akiva, Israel) has taken a technology leadership position by commercializing MultiClear™, the first multi-wavelength system that treats psoriasis, hypopigmented lesions (leukoderma), and other skin conditions such as stretch marks.

Striae distensae, better known as stretch marks, are a common skin disorder of significant cosmetic concern. Initially, striae appear as pink-red flattened areas of thinned skin. The typical white, depressed appearance of older striae develops with time along the long axis aligned parallel with the normal lines of skin tension. Histologically, striae display an atrophic, thinned epidermis, loss of the normal dermal random collagen distribution to the level of the mid-dermis or deeper, and a decrease in elastin fibers and fibrillin.

The MultiClear system emits high intensity incoherent light which is tunable to intense targeted narrow band UVB or UVA1 – or a tailored combination of the UVB/UVA1. Optimal treatment parameters are selected via expert software. This FDA cleared high intensity device may selectively expose hypopigmented skin to high narrow band fluences while totally sparing the non lesional skin. Basic setup provides a spot size as large as 23 x 23 mm. Computerized controls allows exposures of up to 7 MEDs in both continuous or pulsed mode. UVB emission at double peaks (304, 313 nm) is optimized to fit the best efficacy/erythema treatment ratio, with UVA emission peak at 365 nm (UVA1).

Neil Sadick, M.D., a dermatologist in New York City, has used the MultiClear to treat a group of patients with stretch marks. “I was very impressed to see results after a single treatment of less than five minutes. Using the UVB/UVA mode it was possible to achieve a significant decrease in contrast between stretch marks and normal skin in most patients.”

According to David J. Friedman, M.D., a former assistant professor at Brown University, MultiClear is also effective for vitiligo and keloids. “The MultiClear has a clear advantage in the therapy of vitiligo. The

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Before Tx



After MultiClear Tx

Photos courtesy of Neil Sadick, M.D.

effects of targeted narrow band UVB and UVA1 are synergistic and target both the two different mechanisms of pigmentary stimulation (immediate and delayed) and the dermal anti-inflammatory effect of UVA1.” Repigmentation of vitiligo with the MultiClear begins as soon as after four sessions.

“Preliminary results with the MultiClear show significant softening and reduction of thickness of new keloids within one to three high intensity targeted UVA1 treatments,” reported Dr. Friedman. Keloids were treated with high intensity UVA1 at a starting dose of 3 J/cm². “The MultiClear seems to be superior to the slow acting and painful steroidal intralesional injections or cryotherapy.”

The faster results achieved with the MultiClear in both hypopigmented disorders and psoriasis are attributed to its optimized UVB wavelength and the blend with the strong anti-inflammatory UVA band. UVB and UVA induce pigmentation by different mechanisms. The use of tailored combinations of UVB and UVA1 in the MultiClear apparently offers a significant advantage over UVB only sources, and is possibly the ideal repigmentation tool. ■

Contact CureLight at www.curelight.com.