

Lutronic's Lasemd Offers a Practice-Building Total Skincare Solution



Windie Villarica-Hayano, M.D.
Medical Director
The Skin Inc. Dermatology and Laser Center
Makati, Philippines

By Kevin A. Wilson, Contributing Editor

Lasemd continues to shine as a first line solution for rejuvenation and maintenance of healthy skin. This stand-out device from Lutronic Corporation (Goyang, Korea) not only serves as a Cosmeceutical Delivery System (CDS), it also provides fractional laser treatment ideal for skin types prone to post-inflammatory hyperpigmentation (PIH). This robust desktop device provides clinics with an ideal option for just about every patient they see.

Based around a thulium fiber laser, the unique and stylish dual-purpose Lasemd platform delivers near infrared energy at 1927 nm using fractional technology. Lasemd can be operated in either the Easy Mode, where it functions as a safe and efficient CDS (paired with a variety of easy-to-use proprietary ampoules), or the Advance Mode, where it delivers powerful skin rejuvenation, smoothing wrinkles, clearing mild dyschromia and remodeling mild atrophic and hypertrophic scarring such as acne scars and striae distensae. "What sets Lasemd apart is that it's 'not just a pretty face' or a novel idea. It is a safe, effective device that offers flexible treatment options for all skin types," said Windie Villarica-Hayano, M.D., medical director of The Skin Inc. Dermatology and Laser Center (Makati, Philippines). "I can perform cosmeceutical delivery in Easy Mode, or in Advance Mode, I can adjust treatment parameters to treat a wide variety of on and off-face age-related sequelae. This combination of versatility and safety make it an excellent practice builder device." Dr. Hayano's clinic specializes in non or minimally invasive techniques of many types.

Easy Mode (or Delivery Mode) provides 2% to 3% coverage of a large

area, such as the décolleté, in about 15 minutes. Advance Mode (or Skin Resurfacing Mode) provides up to 30% coverage in a 15-20 minute facial procedure for pigment reduction, brightening and improvement in texture and pore size. Energy can be modulated in 1 mJ increments ranging from 1 mJ to 20 mJ and the 1927 nm thulium laser microbeams are only 100 µm in diameter, making treatment comfortable enough to forego the use of anesthesia. "Treatment is very superficial," said Dr. Hayano. "The fractional scanner uses Controlled Chaos Technology (CCT) to create patterns of microchannels with minimal buildup of heat. CCT, plus the narrow microbeam and superficial penetration, are what reduce the likelihood of seeing PIH in type III to V Asian skin."

For Dr. Hayano Lasemd offers something unique; a powerful and versatile device that bridges the gap between diligent home skincare and more aggressive rejuvenation modalities. "Many patients are ready and excited for a more powerful skincare approach that goes beyond their home care regimen, but are unwilling to contemplate more aggressive treatments. They are prime candidates for CDS therapies," she said. "Two-stage Lasemd CDS treatment is cyclical in nature, with the first laser treatment in the clinic followed by application of the selected ampoule or ampoules, and then home application of remaining product over the next two weeks, by which time patients are ready to return to the clinic for the next treatment."

"The excellent results encourage good compliance, and a willingness to repeat the cycle as many times as is required to achieve a well-maintained, glowing and youthful skin," Dr. Hayano continued.



Before treatment



After Lasemd treatment

Photos courtesy of N.K. Roh, M.D.

"Patients actually enjoy treatment, although in rare cases I may use EMLA or other topical anesthetic for highly sensitive patients." While no specific pre or post treatment protocol is required, Dr. Hayano insists patients adopt a daily sunscreen regimen with a UVA/B product of SPF 30 or greater.

According to Dr. Hayano there are currently six ampoules designed to work with Lasemd CDS, in which the active ingredients are kept separate from the carrier liquid until incubation to maximize shelf life; they can be stored for two to three years safely. Immediately before use the ingredient powder is mixed with a low molecular weight carrier consisting of hyaluronic acid gel. The mixing incubator unit is contained within the Lasemd system for convenience. In addition, ampoule formulation ingredients are kept to an absolute minimum, with no artificial colorants, preservatives, surfactants, penetrants or aromas; actives are packaged with Multigranulation NanoLiposome Technology, which standardizes particle size for delivery and facilitates some dermal penetration after microchannels have closed.

"There are four basic ampoules," Dr. Hayano began, "The active ingredients of which are ascorbic acid (vitamin C) for brightening and anti-aging with a strong antioxidant action; retinol (vitamin A) for wrinkle removal; tranexamic acid for whitening and redness; and resveratrol for whitening and anti-aging. Each of these ampoules is associated with one of the preset Easy Mode settings. The two latest ampoules are more specialized, containing human cord blood cell conditioned media (HCBCCM) for rejuvenation; and HCBCCM plus keratinocyte growth factor (KGF) and genistein for rejuvenation, hair loss prevention

and hair regrowth. These also have their own Easy Mode setting and already move beyond simple skin maintenance to help me increase my practice scope."

Once ampoules are mixed and microchannels are created, the serum is applied to the treatment area. The remaining serum is meant to be used at home by the patient as part of their daily skin-care regimen. "A typical course of five treatments, two weeks apart, can easily be combined with the patient's own at-home routine," Dr. Hayano stated. "I find that many patients like to book further sessions after they have completed this protocol because the maintenance effect of Lasemd and the ampoules is significant. Those patients who want a bright skin tone and texture without downtime can embark on a long-term easy care program to slow the skin aging clock and prolong natural luminosity."

Patients who have had more aggressive interventions for skin laxity or rejuvenation, such as fractional ablative or non-ablative laser or radiofrequency, can then undertake a course of gentle Lasemd to help maintain or even improve their results, without the downtime and discomfort associated with these more aggressive approaches. Lasemd can also be combined with other modalities. "I think the best treatment to combine with it is the 830 nm HEALITE LED-LLLT system," Dr. Hayano expressed. "This completely non-invasive phototherapy really complements the minimally invasive Lasemd treatment, and actually helps to ensure even more efficient penetration of the product. It only takes 11 minutes and is completely hands-free, which enhances the overall relaxation effect, followed by the Lasemd cream or cream mask, further improving the overall experience for the patient."



Café au lait lesion before treatment

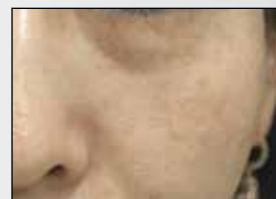


After Lasemd treatment

Photos courtesy of N.K. Roh, M.D.



Before treatment



After Lasemd treatment

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