

reepot

A New Era of VSLS Treatment
For Epidermal pigments And Skin Regeneration

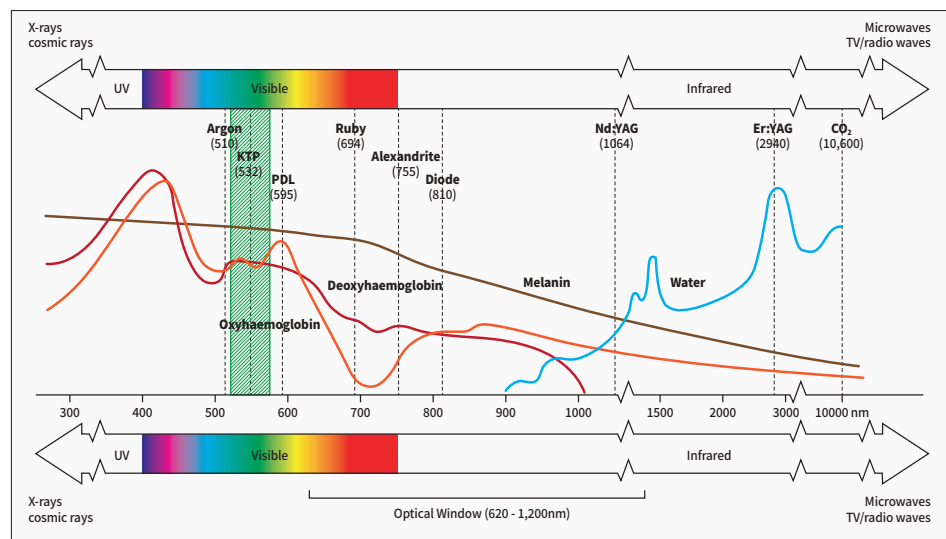


WHY, REEPOT —

“Excessive ultraviolet exposure of the skin stimulates the production of melanin and the amount of melanin is abnormally getting increased.”



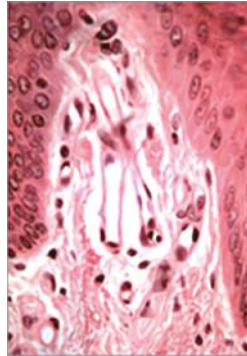
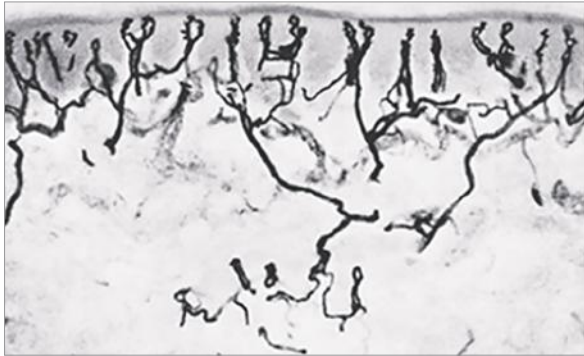
Our new system overcomes the limitations of Q-switched 532nm and other laser applications to create a new and innovative standard in techniques for treating pigment disorders and hard-to-treat pigmented lesions.



At first glance, the Q-switched 532nm appears to be the most useful laser for treating pigmented lesions in the epidermis due to its high melanin absorption rate, but it comes with the downside of a high hemoglobin absorption rate. This is why even at a low energy level, Q-switched 532nm lasers carry a higher risk of side effects such as PIH, persistent post laser erythema (PLE) and changes to scars and textural deformity caused by damage to the blood vessels of the papillary dermis.

A Novel Laser Treatment

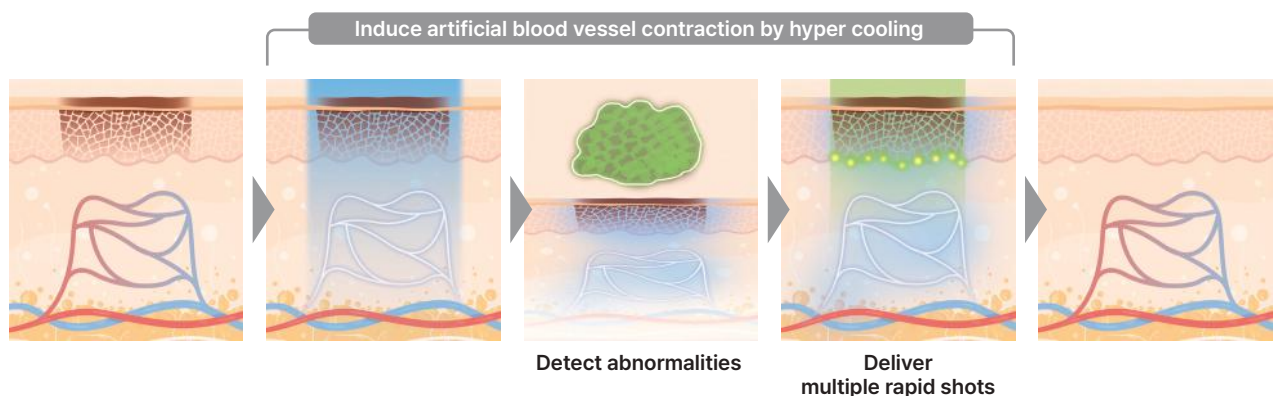
for Pigmented Skin Lesions



ABUNDANT
CAPILLARY
LOOPS IN THE
PAPILLARY
DERMIS

Accordingly, one of the top priorities for achieving successful clinical results is finding a way to preserve the tissue adjacent to the capillary loops in the papillary dermis during laser treatment of pigment disorders.

Our novel treatment delivers a precision high-power Q-switched 532nm laser beam that specifically targets only pigmented lesions by temporarily making the blood vessels located in the papillary dermis disappear through hyper-cooling. This synergy effect induces a mechanical separation between the epidermal lesion and the dermis via shock waves, keeping side effects to a minimum.



The procedure is called VLSL, which stands for Vasculature Salvage Laser Surgery. This treatment targets epidermal lesions without carbonizing surrounding tissue, making it possible to fully remove hard-to-treat pigmented lesions in just a single session.



CPTL[®]

Cryo Photo Thermo Lysis

Hyper Cooling Effect for Vascular Contraction

AUTODERM[®]

Lesion Image Analysis Technology

Target Laser for Pigmented Lesion

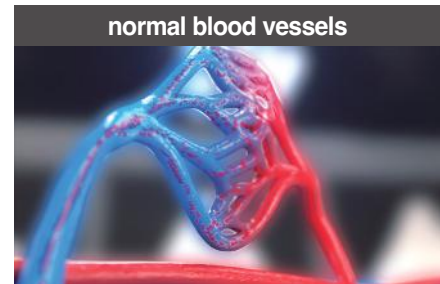
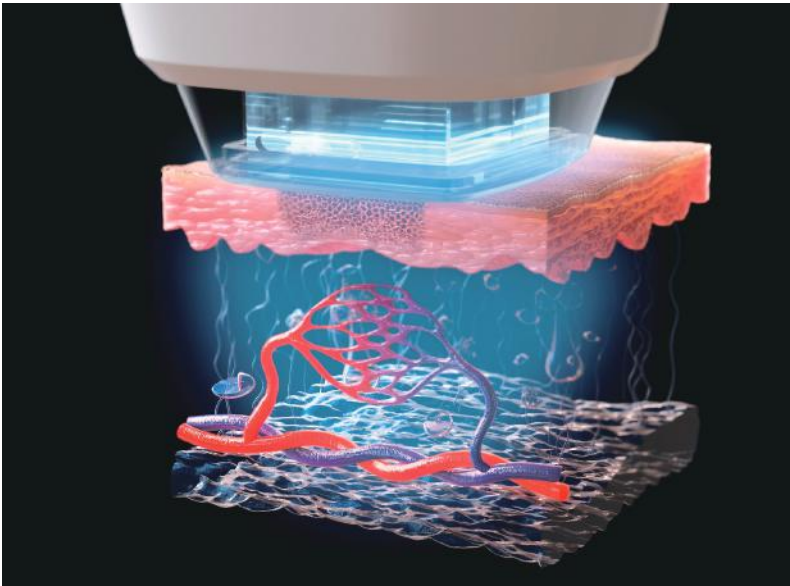
VSLs[®]

Vasculature Salvage Laser Surgery

Mechanical Separation via Reepot

CPTL[®]

Cryo Photo Thermo Lysis



Precision-controlled hyper cooling at a constant temperature temporarily removes the hemoglobin chromophore by triggering artificial vasoconstriction, facilitating a higher laser absorption rate into the remaining melanin chromophore.

The temperature of the skin at the site of measurement of blood flow, the local temperature, is an important determinant of that blood flow through direct effects on the smooth muscle and the neuroeffector junction. **Changes in the local temperature are capable of raising blood flow to the maximum through intense local heating or reducing it to nearly zero through aggressive local cooling (Barcroft and Edholm, 1943; Johnson and Kellogg, 2010; Johnson et al., 2014).** The principal players in the cutaneous vasoconstrictor response to direct cooling of the skin are the nitric oxide (NO) system and the alpha-adrenergic system. Additionally, there is a poorly understood vasodilator phenomenon (cold-induced vasodilation).

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Cryo Photo Thermo Lysis

Nearly Zero Damage
on Vascular
with Laser Treatment



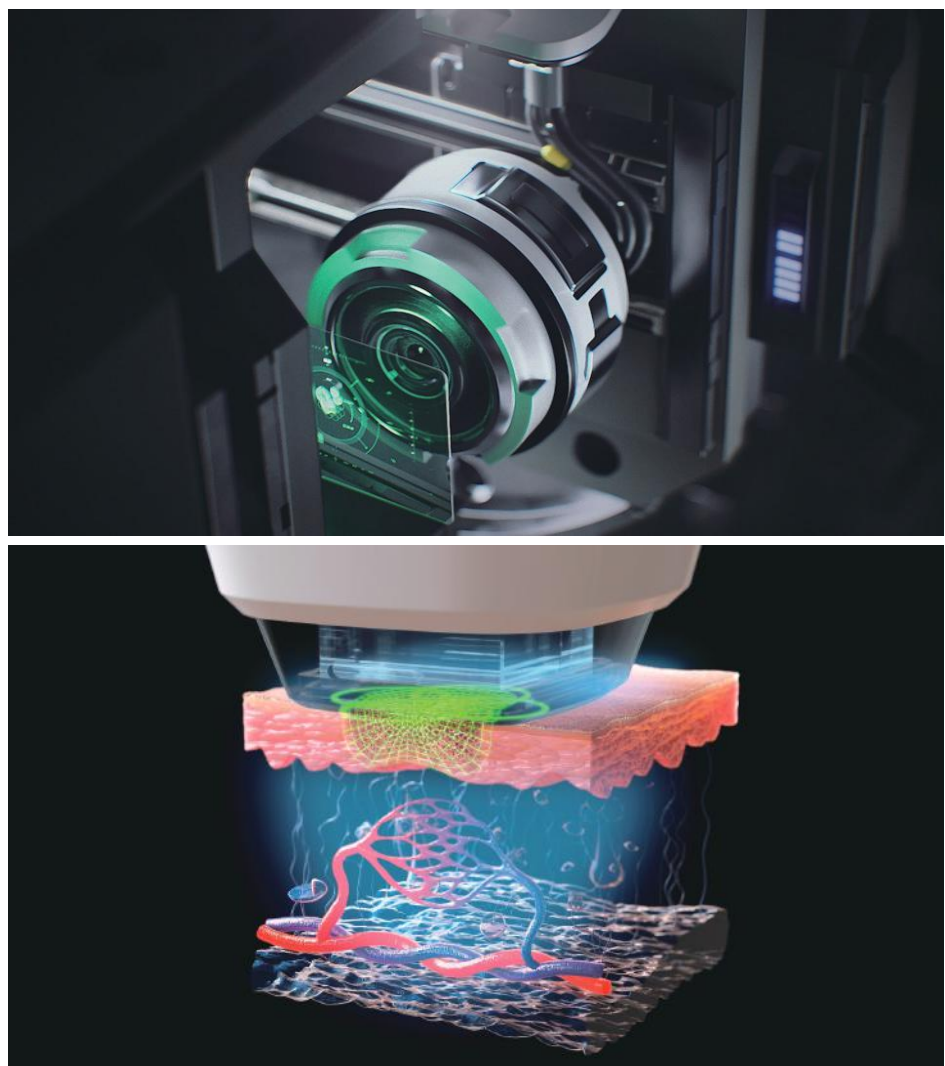


AutoDerm[®]

Lesion Image Analysis Technology

The Target Laser scans the treatment area through a lesion recognition algorithm to effectively deliver multiple rapid shots, thereby avoiding any skin damage caused by prolonged exposure to the cold.

Maximize treatment efficacy while minimizing pain and side effects by delivering energy solely to the treatment area.



VSLs[®]

Vasculature Salvage Laser Surgery

Super-powered 532nm Q-switched laser induces mechanical separation of the epidermal lesion from the dermis via shock waves that preserve blood vessels in the papillary dermis.

AutoDerm[®]

CPTL[®]



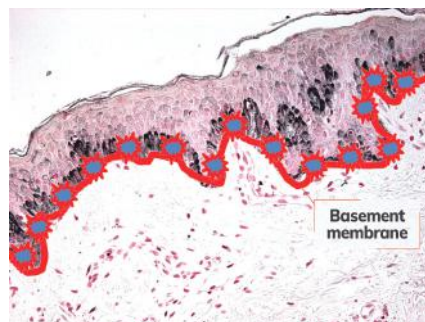
MAX 10X ENERGY



Mechanical Separation via Reepot

Most of energy is concentrated along the basement membrane and the pigmented lesion is mechanically separated from the dermis by shock waves.

2 weeks after Tx



Pigmented lesion peels off together with the DuoDerm (hydrocolloid) patch after 2 weeks



The world's first target laser based Q-switched 532nm laser

Reepot by VSLS greatly reduces treatment frequency while also minimizing side effects in the treatment of various pigment disorders including solar lentigo, a common condition that can be difficult to treat.



Faster Treatment

Actual Tx time just within 3 mins except for the time of anesthesia, either 30mins or 5mins



Outstanding Clinical Outcomes

Completely cured with just one session for most cases



Highest Customer Satisfaction

High rate of the patients who already had conventional treatment failure or got worse



Display

Touch Display 10.1" TFT LCD

Mode

Auto AutoDerm / Semi AutoDerm

Spot Size | 20 × 20mm

Manual Single / Multiple

Spot Size

Single ○ | 4mm

Multiple ● | 6, 10, 15, 20mm

■ | 20 × 20mm

Laser

532nm Q-Switched Nd:YAG Laser

Pulse Frequency 10Hz

Pulse width 5-20ns

Output Energy Max 350mJ, Up to 10Hz

Handpiece

Touch Display 2.8" TFT LCD

CPTL®Sapphire Tip Cooling

❄️ -2°C ~ -6°C

Dimension

430(W) x 750(D) x 960(H)mm

Power

100 ~ 240V /

AC(1.5KVA) Free Voltage

Treatment **TIP** & Coupling Fluid



Coupling Fluid
Cold Injury Protection
Anti-fog



Single Use Treatment Tip
30mins time limitation
Available for Laser radiation



CLINICAL EVALUATION



Sungil In, MD

Courtesy of Sungil In, M.D.

F/32, Solar Lentigo on erythematotelangiectatic skin

Mode : Multiple, Cooling : Medium, Fluence : 220 mJ, Single pass



M/51, Seborrheic Keratosis

Mode : Multiple, Cooling : Medium, Fluence : 350 mJ, Single pass, followed by Q-ruby laser



“

I have experienced Solar Lentigo treatment for a long time, after a long study and experience, I prefer reepot and the VSLS method. Reepot overcomes all the obstacles of existing laser treatment, and many patients who have already been treated by reepot in the initial stage do not have recurrence even after 2 years or more. I have confirmed efficacy of reepot.

”

M/47, Solar Lentigo

Mode : Multiple, Cooling : Low, Fluence : 220 mJ, Single pass



F/61, Solar Lentigo

Mode : Multiple, Cooling : Low, Fluence : 220 mJ, Single pass



CLINICAL EVALUATION



Youngjin Kim, MD

Courtesy of Youngjin Kim, M.D.

F/26, Solar Lentigo with young age patient

Mode : Semi-AutoDerm, Cooling : Low, Fluence : 250 mJ, Single pass



F/45, Solar Lentigo with dermal melanophages

Mode : Semi-Autoderm, Cooling : Low, Fluence : 230 mJ, Single pass + Q-Ruby laser



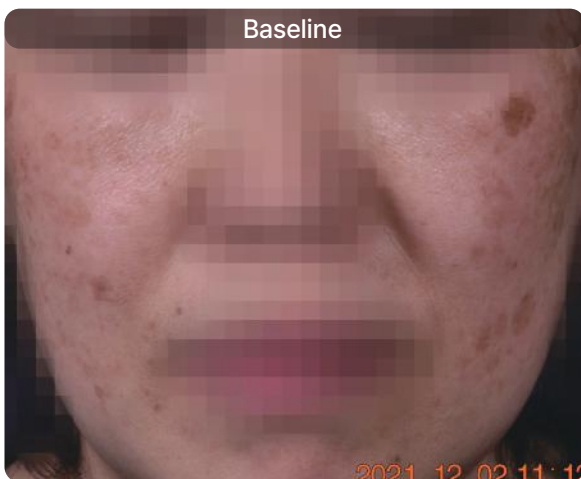
“

The fact that a certain clonal expansion occurs in the sun surplus itself, and the keratinocyte with mutation takes on a circular or oval shape on the skin and the contour or outline of the covered part disappears is a part that can be treated with just one treatment.

”

F/51, Solar Lentigo

Mode : Semi-AutoDerm, Cooling : Low, Fluence : 220 mJ, Single pass



F/54, Solar Lentigo

Mode : Semi-AutoDerm, Cooling : Low, Fluence : 220 mJ, Single pass



reepot



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