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Multiple applications using new vascular filters : 500(S), 530D and 550(S)

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Backgrounds : Intense Pulsed Light (IPL) has been one of the most popular ways of photo rejuvenation therapies. For aesthetic and therapeutic purposes, pulsed polychromatic light in a broad wavelength spectrum is widely used for improvement of pigmented lesion treatment and skin texture. It is very effective for pigmented lesion, also used for hair removal and vascular lesion treatment. There will be no doubt that IPL has the broad treatment ranges and stabilities for pigmented and vascular lesions for most doctors.

Materials : Jeisys Medical Inc. recently released the upgraded IPL device, cellec v, which has 3 new vascular specialized filters such as 500(S), 550(S) and 530(D) with superior absorption of oxyhemoglobin and deoxyhemoglobin. The previous IPL device, cellec provided 530(S) filter for vascular lesion treatment, but newly upgraded three filters 500(S), 550(S) & 530D are expected to maximize the effects of vascular treatments.

Methods : To minimize post-inflammatory hyper/hypopigmentation, various cellec v filters were operated depends on patients' skin types with pigmented lesions and flushing. Patients with Fitzpatrick skin type 1-2 were treated by 500(S), 530(S), 530(D) and 550(S) filters. Patients with Fitzpatrick type 3 were treated by 530(S) and 550(S) filters. Patients with Fitzpatrick type 4 were treated by mainly 550(S) filter, and 530(D) filter only for telangiectasia treatment. Patients with facial flushing in Fitzpatrick type 5 were multiply treated by 550(S). Most patients with pigmented lesions were treated by 560, 590, 640, and 700nm filters. Some case of rosacea and telangiectasia were treated by 560nm filter in the lentiginos mode.

Conclusion & Clinical experience : The Selective Spectral Stacking technique of cellec v is effective in treating pigmentation and facial flushing. Additionally, laser toning and dermal resurfacing can be performed together, so the versatility of cellec v is very wide in the aesthetic treatment field. Based on trials of 40 patients in this study, cellec v can be defined as "a rejuvenation & treatment procedure" which improves the pigmented lesion, skin texture, and flushing together at a low cost to the patient. Although the pigmented lesion was mainly focused on the epidermal pigment (lentiginos), the secondary improvement effect of enhanced dermal remodeling increased the patient satisfaction.

*Source : cellec v_article_180615.indd (jeisysms.com)

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A new paradigm in vascular treatment: Cellec-V

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Background

Approximately 25 years ago, intense pulsed light (IPL) was first developed and introduced to the market. Early-stage IPL technology was only capable of providing skin pigmentation treatment – however, the development of IPL technology introduced the cut-off filter which allowed the clinicians to choose the wavelength. As a result, the clinicians could apply the appropriate filter according to different indications such as vascular lesions, skin rejuvenation, and acnes. More specifically, vascular lesions which could only be treated with laser therapy can now be treated with IPL. When the excessive amount of laser is used for irradiation, there are risks of burns, skin necrosis, and scarring. IPL does not utilize a single wavelength as laser therapy does, but instead uses the cut-off filter to select higher wavelengths which show relatively higher vascular absorption. This allows more efficient treatment of vascular lesions and a relatively lower risk of side effects than the laser therapy. This study aims to validate the effectiveness and safety of the cut-off filter of IPL by performing IPL-based treatment on 10 patients with vascular lesions using the cut-off filter.

Materials

Recently, Jeisys Medical Inc. upgraded their cellec line to cellec-v which has upgraded spectrum 500(S), 550(S) options for more effective vascular treatments and 530(D) filter is also forthcoming shortly. The past versions of cellec offered vascular filter of 530(S)nm which was still effective for many vascular lesions but a pleasant upgrade has been made in developing new filters 500(S), 550(S) & 530D to maximize the effects of vascular treatments.

Results

All 10 patients who received the treatment had clinical improvements. Comparison of the pictures pre-treatment and post-treatment (3 treatments) demonstrated the effectiveness of the treatment. All patients exhibited improved skin texture and clearer skin.

*Source : [CellecV] White paper_ver2.1_A new paradigm in vascular treatment Dr. Lucas Chey.pdf (jeisysms.com)

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Evaluation of Intense Pulsed Light Based on Harmonization Therapy

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Harmonization therapy is an approach that strives for comprehensive skin health by balancing medical aesthetics devices, external medicine, oral medications, skin care, and lifestyle guidance. It is similar to the process in which a gardener first nurtures the soil and then waters and nourishes the roots for a beautiful rose to bloom. Applying vitamin C cream to the petals to make the flower beautiful does not make a beautiful flower.

Similarly, in medical aesthetic treatments performed for obtaining beautiful and vital skin, treating the entire skin and not just a localized area is necessary. Especially in treatments involving medical aesthetic devices, the promotion self-restoration by employing the healing capabilities of skin wounds through heat or shockwave application is essential. In summary, by taking care of the body from the inside, treatment effects of medical aesthetic devices can be maximized. In this paper, the theory and clinical experiences of harmonization therapy in this clinic using the intense pulsed light (IPL) equipment will be explained along with clinical cases.

*Source : [Cellec V] IPL evaluation based on harmonization Therapy by Dr. Mayumi Nomoto_211019.pdf (jeisysms.com) [VIEW ▶](#)

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