

primelase HR

EXCELLENCE



BENIGN PIGMENTED LESIONS

Benign pigmented lesions

Laser technology is a good technique for treating skin benign pigmented lesions, such as sun-spot or lentigines, due to selective thermolysis. By selecting the appropriate parameters (wavelength, pulse duration, fluence and size spot), not only lesions can pigmented be removed, but also undesirable side effects are minimized.

The use of Diode LASER of high power at 755 nm and 810 nm of the model Primelase HR Excellence from Cocoon Medical, Barcelona-Spain, is a novel method which shows good results for the removal of lentigines on face, neckline and hand.

Parameters

Alex^{755nm} L 20x9 | 755nm



Skin Phototype (Fitzpatrick I-VI)	Lesion	Fluence (J/cm ²)	Pulse Duration (ms)	Frequency (Hz)	Treatment
I-IV	Facial Lentigines	20-28	AUTO	1	1-2 pulses No contact
	Lentigines in necklines and hands	16-24	AUTO	1	1-2 pulses No contact

Diode^{810nm} L 20x9 | 810nm



Skin Phototype (Fitzpatrick I-VI)	Lesion	Fluence (J/cm ²)	Pulse Duration (ms)	Frequency (Hz)	Treatment
I-IV	Facial Lentigines	20-30	AUTO	1	1-2 pulses No contact
	Lentigines in necklines and hands	16-24	AUTO	1	1-2 pulses No contact

Pre-preparatory:

- Skin color and phototype classification according to Fitzpatrick.
- Lesion characteristics: color, uniformity and diameter.

User Guideline: step by step

- Clean, degrease and disinfect the area to be treated.
- If hair on the treated area exists, it must be shaved.
- The treatment must start with the lowest energy levels recommended and evaluate the patient response.
- The use of perforated spacer or spatula (0,5-7 mm diameter holes) is essential, so there is not a direct contact between the skin and the diode LASER applicator and to limit the LASER pulse to the target.
- It is important to select the correct spatula hole, looking for the one which fits better the target.
- Then, support the diode LASER applicator on the spatula and apply the pulse.
- In case of lesions larger than the holes, the pulse must be distributed regularly on the entire length of the lesion, performing several pulses in order to cover the complete area, but only overlapping up to 30% impacts, while avoiding double pulse (two pulses on the same point).
- In order to verify that end-point has been reached (initial darkening):
 - An acoustic spark from the skin may be heard by the doctor.
 - Remove the spatula and evidence that there has been the initial darkening of the target.
 - If after 5-10" the darkening has not occurred, it is necessary to carry out a second pulse.
- Hydrocortisone (1%) creams shall be used in order to avoid inflammatory reactions.

Post-treatment:

- Initially the lesion will look bigger and/or darker (initial darkening).
- A scab will appear and finally peel. Lesions usually heal after 21-30 days.
- It is recommended to clean the treated area with neutral soap and apply antibiotic cream (p.e. Plasimine (mupirocina) or antiseptic cream (p.e. Diprogenta o Cicalfate (copper and zinc salts)). This cream may be used if necessary during the first 15 days.
- The treatment can consist of several sessions (usually 1-2 sessions), to be performed every 6-8 weeks.
- Sun exposure must be avoided from the first day and SPF50 sun cream is required.
- It is recommended not to use hydrating creams or moisturize while the scab is still present, to prevent it from getting wet, and, consequently, enhancing skin regeneration.
- Once the scab has peeled, revitalizing creams can be used.



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A diode LASER platform developed with the exclusive technology of **cocoon medical**. It has a maximum power of 4800W and different wavelengths (755, 810, 940 and 1060 nm) that are suitable for all kind of skins and phototypes.

Alex	Diode	Blend	Yag
755 nm	810 nm	1060 nm 940 nm 810 nm	1060 nm

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REJUVENATION

Rejuvenation

Background

Laser technology is a good technique for facial rejuvenation treatments, in particular for the treatment of wrinkles. The heating of the skin induced by laser stimulates the production of collagen and elastin, promote its growth and as a result, renew and rejuvenate the skin. Unlike other more effective methods that are much more aggressive, the high-power diode LASER technique is a non-ablative and safe method.

The use of Diode YAG LASER (1060 nm) and BLEND (810-940-1060 nm) of the Model Primelase HR Excellence from Cocoon Medical, Barcelona-Spain, is a novel method which have shown good results for facial rejuvenation treatments. The new combined wavelength technology causes an homogeneous heating of the epidermis and dermis, as it attacks the melanin of the epidermis as well as the water and blood present in the dermis, thus achieving a triple effect: **a)** improving the texture of the epidermis, **b)** stimulating the creation of collagen and elastin fibers that regenerates the dermis and softens wrinkles, and **c)** promoting blood circulation that stimulates cell regeneration.

Parameters:

Yag^{1060nm} 10x10 | 1060nm



Skin Phototype (Fitzpatrick I-VI)	Fluence (J/cm2)	Pulse Duration (ms)	Frequency (Hz)	Duration (minutes)	Treatment
I-II	10-12	400ms	2	3	Motion movement without direct contact with the skin
III-IV	8-10	400ms	2	3	
V-VI	6-8	400ms	2	4	

Blend^{1060nm, 940nm, 810nm} L 20x9 | 1060nm + 940nm + 810nm



Skin Phototype (Fitzpatrick I-VI)	Fluence (J/cm2)	Pulse Duration (ms)	Frequency (Hz)	Duration (minutes)	Treatment
I-II	10-12	400ms	2	3	Motion movement without direct contact with the skin
III-IV	8-10	400ms	2	3	
V-VI	6-8	400ms	2	4	

Pre-preparatory:

- Skin color and phototype classification according to Fitzpatrick.
- Skin examination in search of freckles, warts and/or vascular lesions that may condition the treatment.

User Guideline: step by step

- Clean, degrease and disinfect the area to be treated.
- It is recommended the use of transparent and uncolored pure aloe vera cream to enhance the movement of the head on the skin.
- Add a spacer on the head so it is not in direct contact with the skin.
- Support the head (with the spacer) on the treated area and apply the pulse in motion mode.
- Alternate horizontal, vertical and diagonal sweep modes, so there will not appear a line pattern on the patient's face.
- A temperature lector must be used during the session, in order to control the temperature reached on the patient's skin. The objective is to heat up the skin up to 42 °C, to get the stimulation of collagen and promote its growth so that the skin becomes tight.
- Control the total treatment time per area in accordance with the parameter table.
- Stop treatment if skin reaches 42°C before completing the treatment time.

Immediate post-treatment

- It is recommended to apply Eformitina (14%) cream after each session.

Post-treatment

- Sun exposure must be avoided from the first day and SPF50 sun cream is required.
- The number of sessions required depends on the patient age, with a minimum of 3 sessions and adding 1 for each decade above 30 years. The optimal interval between sessions is 3 weeks.
- The results are noticed one month after the last session.
- The results are evaluated with before and after photographs.



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