

Vbeam Treatment Guidelines						
These guidelines were developed from clinical experience and do not take the place of the Operator's Manual and clinical judgment. These guidelines are subject to change as users gain additional experience using the Vbeam. Be sure to inquire with your Candela Sales Representative, Clinical Nurse Consultant or visit MyCandela.com regularly for the latest updates and a comprehensive bibliography list of references/published articles						
Lesion	Spot size (mm)	Pulse width (ms)	Fluence J/cm2	DCD Spray / Delay (ms)	Retreat weeks	Comments
Benign Epidermal Pigmented Lesions (solar lentigines, epheildes, seborrheic keratosis)	7	10	7	0	4-6	<p>Single pulse discreet lesions only.</p> <p>For Skin Types I-III only. Do not treat skin types IV-VI. Do not treat lesions on the face.</p> <p>Several treatments may be required for improved clearance.</p>
Inflammatory Acne Vulgaris	5	0.45	3	0	8-12 or as per physician	Slight redness and light purpura may be experienced, observe closely.
<u>Telangiectasia</u>						Double or triple pulse depending on the refill of the vessel.
Facial	7 10 3x10	6,10,20	7-12 5.5-7.5 11-14	30/10 30/20 30/30	4-6	Use 3x10 on linear vessels. For vessels, which do not clear immediately: treat first with the round spot followed by the 3x10 spot.
Nasal	7 10 3x10		8-12 6.5-7.5 8-12			Note: 6-40ms pulse widths are recommended for purpura free treatment. Use of pulse widths of 0.45-1.5 ms will induce purpura but may clear vessels faster
Leg	3x10	10,20,30	11-18	30/10 30/20 30/30	8-12	Purpura is almost always induced in leg vessels.
Telangectatic Matting	7 10	10,20,30	11-15 6-7	30/10 30/20 30/30	6-10	Larger spot size may improve results.

<u>Non ablative facial applications</u>						Note: Treatment parameters may be similar for a variety of facial lesions. Diffuse vessels/background blush-may treat the entire cosmetic unit w/ 50% overlap using the 10mm spot.
Wrinkles	7 10	10 6	7 6	30/10 30/20 30/30	4	
Rosacea, diffuse facial telangiectasia	7 10	6,10,20	8-11 6-7.5		4-6	Shorter pulse widths and higher fluence may induce purpura. Vessel may be pulsed 2-3 times to obtain transient intravascular purpura, which will disappear and become bluish pink" dusky erythema." May use 10mm spot then retreat larger vessels immediately with smaller spot.
Poikiloderma of Civatte	7 10	6,10,20	6.5-7 5-6.5	30/10 30/20 30/30	4-6	Always perform test spots laterally. Apply pulses close to one another to minimize uneven pattern. Feather edges to minimize sharp line of demarcation
Cherry Angioma Spider Angioma	7 10 7 10	1.5 0.45	8-11.5 5-7 4-3-4	30/10 30/20 30/30	4-6	Use white, moist template to isolate lesion. Double pulse center of angioma first, then treat peripheral area
Hemangiomas	5 7 10	1.5	8-10 6-10 5-6	30/10 30/20 30/30	2 weeks (neonate and Infant) 8-12 weeks (Adult)	Use caution and lower fluences for neonates and infants. Treat every two weeks for proliferative hemangiomas. Improper treatment may cause scars. Refer to specialist if not within your typical practice.
Venous Lake	7	1.5	7-10	30/10 30/20 30/30 40/10 40/20 40/30	4-6	Two treatments may be required.
<u>Port Wine Stains</u>						Use caution and lower fluences for neonates and infants.
Facial	7	0.45 1.5	10-15	30/10 30/20 30/30	8-12	Begin at longer pulse widths and move to shorter pulse widths as treatment continues.
Neck, Head	7 10		8-12 4-7.5			
Trunk, Extremities	7 10		6-12 6-7.5			Use lower fluences on necks and extremities.
Hypertrophic PWS	7		10-15	40/10 40/20 40/30		Purpura it is present on PWS vessels and not on surrounding skin. Ectatic vessels may be double pulsed.

Warts	7	1.5	12-15	0	2-3	Pare wart aggressively before treatment. 100 ms of cryogen may be sprayed pre and post laser to cool area. Topical or injected anesthetic may be utilized pre tx. Pulse stack (1-5 pulses) if tolerated. Treat a 1 cm margin of uninvolved skin around the wart. Use of topical therapies at home may increase the effectiveness of the procedure.
Scars	7 10 7 10	1.5,3, 6, 10 1.5,3,6,10 0.45	7-9 4-6 4-8 3-4	30/10 30/20 30/30	4-6	Treat as soon as possible after suture removal. Newer more vascular scars may respond better than older, whiter scars.
Striae	7 10	1.5, 3, 6,10 1.5, 3,6,10	4-7 3-6	30/10 30/20 30/30	4-6	Newer more vascular striae may respond better than older, whiter striae.
Benign cutaneous vascular Gynecological Lesions including vulvodynia	7 10	1.5 1.5	4.5-5 3.5-4	30/10 30/20 30/30	8	Look for light purpura, which will require test spots at a variety of pulse durations and fluences.
Psoriasis	5 7 10 5 7 10	1.5	12-15 8-12 5.5-7.5 3-5 4-8 3-4	30/10 30/20 30/30	2-4	May require several treatments. Remove scale pre tx.

Laser Treatment Considerations

- Be aware that some fluence and wavelength combinations may cause purpura after the treatment. This should be considered when choosing settings. Understanding the interrelationship of spot size, pulse width, fluence and cyrogen settings is important in the selection of therapeutic parameters and will depend of size of lesion and individual patient skin characteristics at each treatment session. The most important indicator is the evaluation of laser epidermal interaction.
- Patient selection should also be based on the physician’s assessment of the individual patient including medical history. Including medication history
- Patients utilizing medications that have been reported to produce photosensitivity of the skin, should consult with their provider. The provider may advise the patient to refrain from utilizing the medication for 72 hours pre and post treatment to avoid a potential photosensitivity reaction.
- Skin types 4-6 may blister at higher fluences, producing a characteristic epidermal snap. If so, decrease fluence.
- Darker skin types may need lower energy settings to reduce/minimize hypo pigmentation.
- Suntanned patients should not be treated until the tan fades to avoid blistering and hypo pigmentation and delayed efficacy.

- When treating leg veins, have patient lay flat, as opposed to sitting with legs dangling.
- Patients on daily aspirin therapy, iron supplementation, anticoagulants, herbal supplements (ginkgo, garlic, and ginseng) may bruise more readily. Test small area first.
- Do not use flammable products on the skin or in the vicinity of the laser.
- Apply cold compresses after treatment to decrease discomfort and edema.
- Edema may occur regardless of the pulse width and fluence.
- Topical anesthetics may be used on lesions where vasoconstriction is not a concern.
- Remove all substances from the intended treatment area, including, topical anesthetics, makeup, lotions, ointments, deodorants, self-tanning products, and hair spray/gel products. Treating with out removing these products may induce epidermal damage, as they may contain flammable substances.

Procedure for establishing the Purpura –Free Threshold

One must evaluate skin type and tissues response each time a patient is treated. Follow the protocol below to establish the pupura free threshold.

1. Select pulse duration, fluence and DCD settings.
2. Apply escalating fluences until purpura appears, then reduce the energy by 0.5j/cm².
3. Optimum parameters may be achieved by matching pulse widths to vessel sizes.

Note: Treatment at sub-purpuric fluences may necessitate additional treatments for complete clearance of vessels on the face.

Expected responses

Purpuric Treatment: purpura, edema, minimal to moderate discomfort relived by cold compress or cool gel pack.
Non-Purpuric treatment: edema, erythema, and a tight sensation with minimal discomfort.

Untoward effects

Scarring, burns, hypo, or hyper pigmentation.

Warnings and precautions

Warning

When using the Vbeam laser with the Dynamic Cooling Device (DCD) in use in conjunction with an ECG monitoring device interference with the ECG monitoring device may result.

Warning

Oxygen will accelerate combustion of any flammable material. Never direct oxygen (with or without gasses) toward or over the laser field. Extreme caution should be used. When oxygen is in use, gauze, sponges, and hair near the treatment area should be moistened with water. Be aware that hairspray, gel, deodrants, and other grooming products may contain flammable substances.

Warning

Refer to Candela Policy for Pregnancy and the Use of Lasers (Document No. 0920-23-0814).

Warning

CANDELA does NOT recommend treating within the orbital rim as ocular damage may occur.

Caution

Treatment to areas bearing hair may cause the hair to be singe and may cause it to ignite. A fire extinguisher should be available.

CRYOGEN REORDER - Replacement canisters of cryogen are ordered by the part number listed on the GentleCool™ canisters shipped with laser. Use only 1000-gram size canisters for this product.