

# Levulan Protocol

1. Patient washes their skin well.
2. You have choice of performing a microdermabrasion or an aggressive acetone scrub to prep the skin. An alcohol scrub is not an effective choice.
3. Activate the kerastick by pressing site A + B on the Kerastick. Holding your fingers on the side of stick shake the stick for about two minutes. DO NOT place a finger over the end of the applicator. That activates the pump to deliver the levulan and some may leak out the end.
4. Apply the contents on the area that you wish to treat by painting the Levulan on the entire area. Do not worry about applying too much Levulan solution (recommend applying two coats of the solution). It is important to get close to the eyes as it will be apparent that the periorbital skin was not treated adequately if you fail to do this.
5. Allow the Levulan to incubate for 60 minutes on the skin indoors. You may wish to introduce the patient to other services that you offer during this time.
6. Activate the Levulan with the appropriate light source. You may wish to use a Vasculight SR or Blu-U Light. The parameters to activate Levulan for the most popular light sources are listed below:

**Vasculight:** You have to wash the face prior to the IPL treatment to remove the Levulan because Levulan will make the skin very slippery, and any gel will slide off the face while you are attempting to perform the IPL treatment. It is not necessary to adjust the parameters downwards if Levulan is on the face. Treat the patient with Vasculight as you normally would. 560 filter; 30 J., 2.4/4.0 with 20 msec.. delay, one pass. Some use 2.4/6.0 with 20 msec. delay

**Quantum:** 560 filter; 26 J., 2.4/4.0 with 20 msec.. delay, one pass

**Aurora:** 16-22 J. with an RF of 16-22 J., one pass

**Estelux:** 19-30 J. at 20 msec., one pass

**V-Beam:** 10 mm spot; 7.5 J; 6 msec. pulse width; two passes with 50% overlap. Levulan can stay on the skin during treatment.

**V-Star:** 10 mm spot; 7.5 J; 40 msec. pulse width; two passes with 50% overlap. Levulan can stay on the skin during treatment.

**Clearlight:** 5 minutes under the light. Levulan can stay on the skin during treatment.

**Blu-U Light:** 8 minutes under the light. Levulan can stay on the skin during treatment.

7. It is important to really wash the face well with soap and water after completing light treatments to remove any residual Levulan from the skin surface.
8. Warn the patient to remain out of direct sunlight for 24 hours. Give routine post-laser instructions to moisturize, etc.
9. Repeat the treatment in three weeks. Increase incubation time if there was little reaction, and reevaluate your skin preparation technique.