

# Multi-Wavelength ADVATx Erases Aesthetic Concerns Without Consumables

By Kevin A. Wilson, Contributing Editor



**Ronald L. Moy, M.D.**  
Plastic Surgeon  
Moy Fincher Chipps Facial  
Plastics & Dermatology  
Beverly Hills, CA



**Jennifer Herrmann, M.D.**  
Dermatologist  
Moy Fincher Chipps Facial  
Plastics & Dermatology  
Beverly Hills, CA

Using multiple wavelengths (598 nm and 1319 nm) to treat a range of indications, the versatile solid state ADVATx from Advalight (Copenhagen, Denmark) requires minimal maintenance and no consumables or toxic dye kits, unlike the pulse dye laser it replaces. This workhorse is sophisticated, yet easy to operate, and preset parameters enable effective treatment of most common aesthetic skin concerns including the spectrum of vascular and pigmented lesions, acne and acne scarring, wrinkles and many more, with little to no pain, downtime, or side effects. Among other conveniences, ADVATx runs on a 120 V power supply.

According to Ronald L. Moy, M.D., a plastic surgeon at Moy Fincher Chipps Facial Plastics & Dermatology in Beverly Hills, Calif., “A solid state device is ideal in that one does not have to switch out dyes, which improves efficiency and safety.”



Before and after ADVATx treatment  
Photos courtesy of Advalight



Before and after ADVATx treatment  
Photos courtesy of Advalight



A standout feature is the company's patented pulse synchronization technology, known as PulSync, which delivers either wavelength as a single spot or scanned pattern. ADVATx uses two laser modules (1064 nm and 1319 nm) modulated by a shared Q-switch to generate a pulsed train of light passed through a crystal, combining the energy to create a 589 nm beam. The 1319 nm wavelength may be used if desired.

“The scanner is one of the most useful elements of the laser's design,” said Jennifer Herrmann, M.D., a dermatologist at Moy Fincher Chipps Facial Plastics & Dermatology. “Since the laser scans over the target area, short skin contact in any one ‘spot’ minimizes pain and reduces the need for contact or cryo spray cooling. This in turn decreases swelling, especially for those with sensitive skin. Conversely, vascular lasers that use cryo spray can cause significant post treatment edema. Overall, recovery is next to nothing.”

The ability to easily change the treatment pattern also allows very selective targeting, Dr. Herrmann added. “I can trace out a vessel very precisely, or target a 2 mm cherry angioma without heating surrounding skin. Also, the capacity to toggle between the 589 nm and 1319 nm wavelengths using just a couple of clicks on the tablet home screen is very convenient, there's no need to change out handpieces and recalibrate as with many other lasers.”

Dr. Herrmann has found the combination of wavelengths applied for acne and early acne scarring to be particularly satisfying to use. “For patients with active acne, my primary concern is getting them on a combination of topicals and orals to treat the condition. But for many patients, the erythema and textural changes seen with acne and acne scarring have a significant psychological impact,” she explained. “Waiting several months for traditional prescriptions to ‘work’ is frustrating and slow. By incorporating the laser early, we can address erythema immediately and begin the scar remodeling process if scarring is already present.”

“With treatments at two-week intervals, patients start noticing improvement more quickly, which also keeps them motivated to maintain compliance using their prescriptions,” Dr. Herrmann continued. “And although this hasn't been formally studied, many of my patients report decreased skin oiliness after treatments. Because of this, they feel as if their skin is improving more quickly. It's possible that the 1319 nm wavelength is partially targeting the oil gland, and we're continuing to look into this possibility.”

# Next-Generation ADVATx Platform Transcends Pulsed Dye Lasers

By Kevin A. Wilson, Contributing Editor

The multi-wavelength ADVATx platform from Advalight (Copenhagen, Denmark), provides outstanding results for vascular lesions without consumables or need for cooling via its 589 nm wavelength. And with the addition of the 1319 nm wavelength, ADVATx can treat a wide variety of common aesthetic indications safely and effectively, increasing versatility and ROI.



**David J. Goldberg, M.D., J.D.**  
Dermatologist  
Medical Director  
Skin & Laser Surgery Specialists of NY & NJ  
New York, NY & Montclair, NJ

“With a similar wavelength; no need for liquid dye for the laser; or cooling during treatment, ADVATx is the next-generation alternative to the pulsed dye laser,” explained dermatologist David J. Goldberg, M.D., J.D., medical director of Skin & Laser Surgery Specialists of NY & NJ (with offices in New York City, New Jersey and Florida).

“We’ve known for three decades that the ideal wavelength range for treating vascular lesions lies between 585 nm and 595 nm, which provides clinically relevant absorption and depth of penetration for those indications,” Dr. Goldberg noted. “With this we’ve grown used to seeing purpura, needing cooling and replacing toxic dyes. However, because of ADVATx’s unique scanning system, which features several different sizes and patterns, scanning of larger areas is enabled, thus the laser is never dwelling too long on any one area. And

it delivers enough energy for the desired clinical outcome.

“A course of treatment for a given condition will be about the same as with a pulsed dye laser: three to five for facial erythema; two to three for telangiectasia; and so on,” he added. “ADVATx gives us the utility of a pulsed dye laser without the associated untoward effects and expense.”

The clinical results are excellent. “In the years I’ve treated vascular lesions I’ve seen everything,” Dr. Goldberg said, “and I’ve now come to rely on the impact of ADVATx on vascular lesions, even port-wine stains, red scars, stretch marks and telangiectasia. Discomfort is minimal so I rarely need to use topical numbing cream. With a typical course of treatment, the patient will probably notice improvement after the second session. In fact, we have a paper that’s

been accepted for presentation at the upcoming *American Society for Laser Medicine & Surgery* (ASLMS) annual meeting on treating facial erythema with this device.”

According to Dr. Goldberg, the system is easy to operate and features user-friendly presets that make treatment a breeze. “With my experience I don’t rely on the presets, but they are excellent, accurate and very easy to use for the beginner. It breaks things down by skin type and the condition to be treated.”

“The inclusion of the 1319 nm wavelength adds utility and improves ROI,” he shared. “You can use it for acne, acne scarring, skin toning and more, all without disposables, which really makes ADVATx a valuable device to have in my practice.” It is also remarkably reliable. “Because it is solid-state and requires no consumables, ADVATx is relatively inexpensive to run. We’ve had it for more than a year and it never breaks down.”

“What it boils down to is that we have a tried and true, proven wavelength in ADVATx delivered in a manner that’s more effective overall. It delivers the great results we’ve come to expect when treating vascular lesions, but with minimal to no discomfort, and the added utility of the 1319 nm wavelength, with no consumables or cooling.”



Telangiectasias around the nose before and after three treatments with ADVATx  
Photos courtesy of David J. Goldberg, M.D., J.D.

“We have a tried and true, proven wavelength in ADVATx delivered in a manner that’s more effective overall. It delivers the great results we’ve come to expect when treating vascular lesions, but with minimal to no discomfort, and the added utility of the 1319 nm wavelength.”



# Clinicians Rely on ADVATx for Acne Scars and Unwanted Vasculature

By Kevin A. Wilson, Contributing Editor

The multi-wavelength ADVATx laser has emerged as a favored alternative for a variety of aesthetic concerns including pigmented and vascular lesions. Physicians have also found that it is an excellent option for the management of acne vulgaris and related scarring. This solid-state device harnesses the proven power of the 589 nm and 1319 nm wavelengths modulated by a shared Q-switch to treat with little or no pain, downtime, or side effects, without need of consumables.



Michael H. Gold, M.D.

Director  
Tennessee Clinical Research Center and Gold Skin Center  
Nashville, TN

According to Michael H. Gold, M.D., director of the Tennessee Clinical Research Center and Gold Skin Care

Center (Nashville, Tenn.), you can treat a lot of indications with these wavelengths. “The 589 nm is well within the range for treating vascular lesions and 1319 has been around a long time for rejuvenation, improving skin tone and texture, and the appearance of scars,” he shared.

Proprietary PulSync technology delivers energy as a scanned pattern or single spot for either wavelength. The scanning process prevents lingering of the laser over any one spot so need for anesthesia or cooling is minimized. Moreover, changes to the pattern and other parameters may be made on the fly during treatment. Overall, this device is sophisticated, but very easy and intuitive to operate. “What I love about the ADVATx device versus the pulsed dye laser is that there are no consumables,” Dr. Gold said. “This is great for the physician and the patient, especially considering the safety and efficacy of treatment.”

“We just finished a study demonstrating the safety and efficacy of this device for acne scars,” Dr. Gold continued. “We treated 12 patients (11 women) of skin types II and III, one pass with each

wavelength, three sessions at intervals of two weeks, with follow-up at three and six months after the final session.”

Patients were scored using the validated ECCA acne scar grading scale<sup>1</sup>. “We observed a 42% reduction in ECCA score overall, which is clinically significant,” Dr. Gold reported. “Other than occasional moderate erythema there were no adverse effects or downtime. We also saw improvement continue through both the three and six-month follow-up visits.” Dr. Gold presented on this study at the 38th annual conference of the *American Society for Laser Medicine and Surgery* (ASLMS) in April 2018.

“We tell patients to expect a course of three to four treatments, with each treatment performed every other week, but most patients will begin to see a difference after only one or two sessions,” he added. Most often, Dr. Gold uses a combination therapy for acne and acne scars, which may include topical and oral vectors as well. “You can use ADVATx as a monotherapy, which we did for the study, but in the real world we combine it with topicals or oral medication.”

During the study, Dr. Gold also noticed clearance of vascular lesions. “We use ADVATx for vascular lesions and usually see complete clearance within several sessions. It does depend on the lesion; hemangiomas and port-wine stains will take more and we don’t usually use it for those, but for smaller vessels and angiomas, one or two treatments usually clears them nicely.”

#### Reference:

1. Dreno B, Khammari A, Orain N, et al. ECCA grading scale: an original validated acne scar grading scale for clinical practice in dermatology. *Dermatology* 2007;214(1):46-51.

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