

First Approved Treatment for Dry Age-Related Macular Degeneration (AMD) Using Photobiomodulation



VALEDA.
Light Delivery System

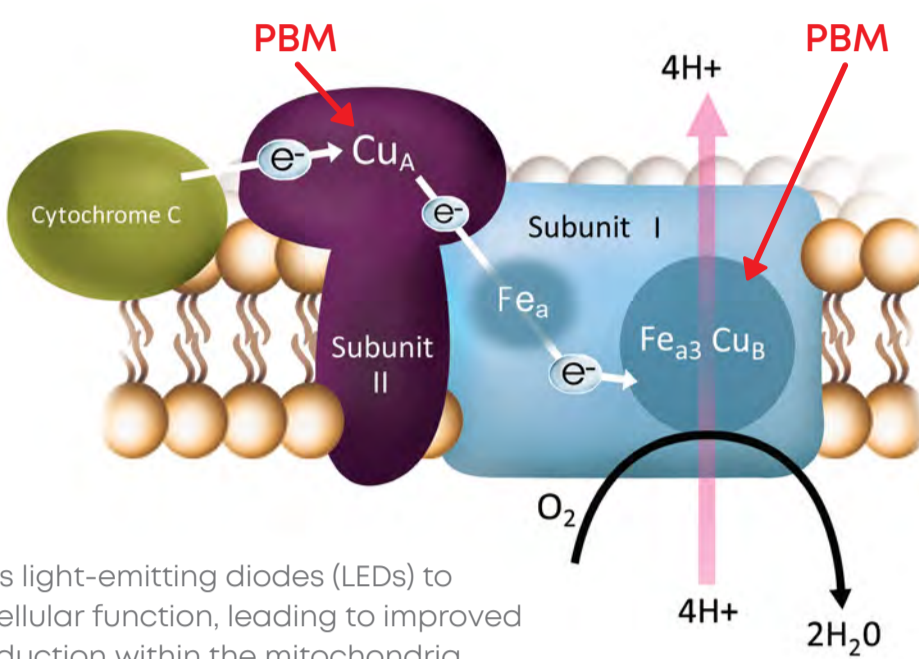
Improves Visual Acuity

Improves Contrast Sensitivity

Reduces Central Drusen Volume

Mitochondrial Dysfunction and Oxidative Stress Play a Key Role in Age-Related Macular Degeneration¹

Mitochondrial cytochrome C oxidase (CCO) is the primary photoacceptor target for photobiomodulation



Valeda uses light-emitting diodes (LEDs) to stimulate cellular function, leading to improved energy production within the mitochondria.

Wavelength 850²

Drives electron transfer (Cu_A), stimulates metabolic activity (ATP), and inhibits inflammation and cell death

Wavelength 660²

Promotes O₂ binding (Cu_B), stimulates metabolic activity (ATP), and inhibits inflammation and cell death

Wavelength 590^{3,4}

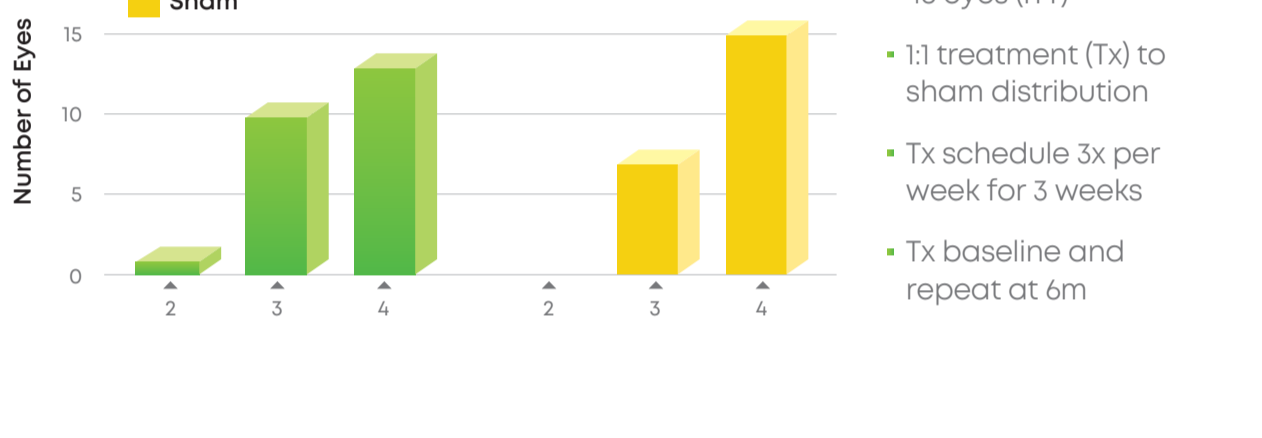
Inhibits VEGF expression and promotes nitric oxide generation

1. Jarrett et al., Mol Aspects Med, v33, 2012; 2. Wong-Riley et al., J Biol Chem, v280, 2005; 3. McDaniel et al., Am Soc Laser Med Surg Mtg, 2006; 4. Ball et al., J Photochem Photobiol B Biol, v102, 2012; 5. Munk et al., ARVO online planner, C0031, April 2018

LIGHTSITE I STUDY

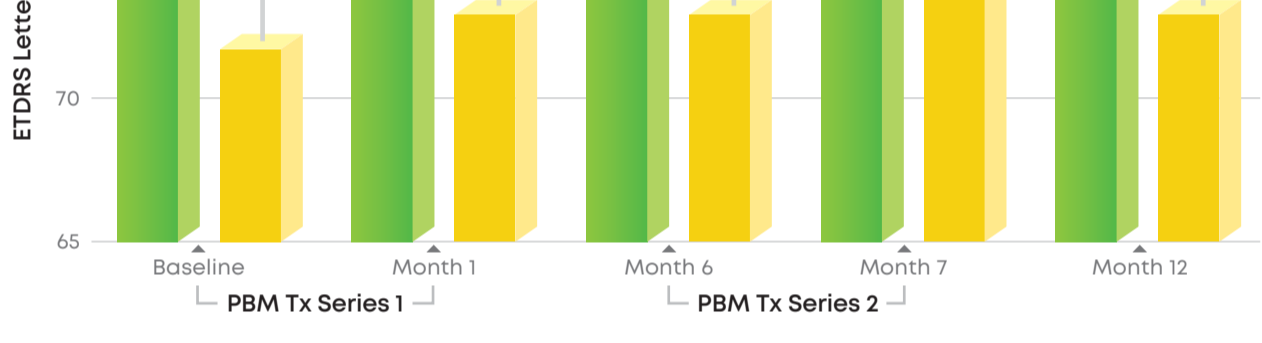
A Double-Masked, Randomized, Sham-Controlled Study with Photobiomodulation in Dry Age-Related Macular Degeneration Subjects⁵

AREDS Category Distribution at Baseline

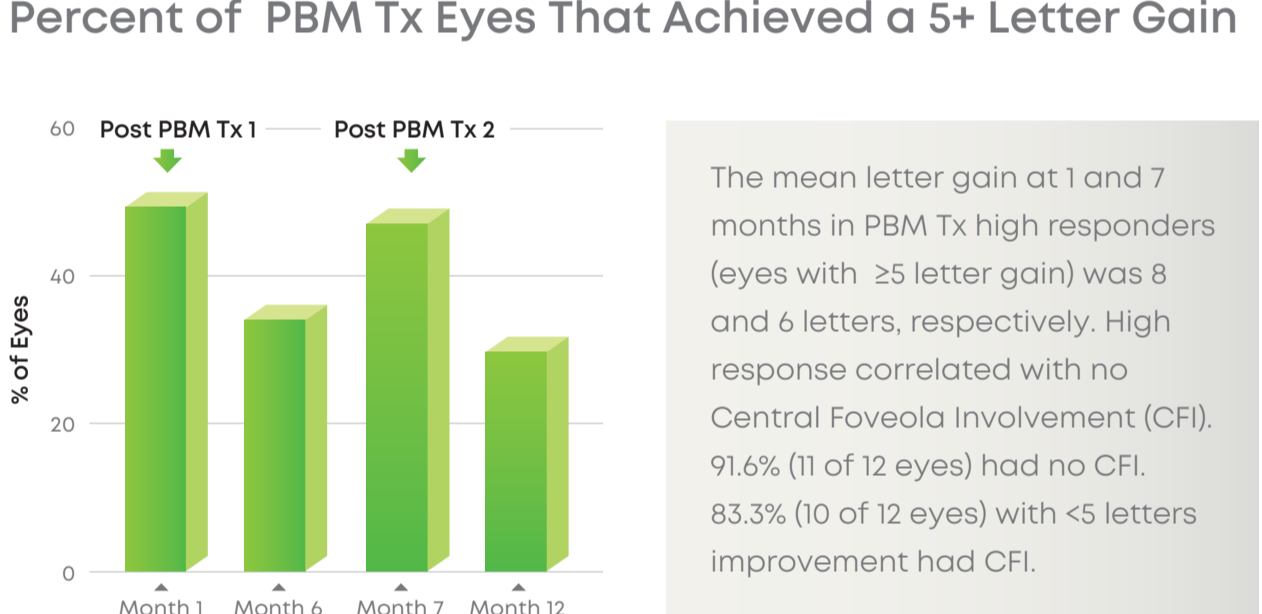


Visual Improvement Demonstrated Immediately Following PBM and at Maintenance Therapy

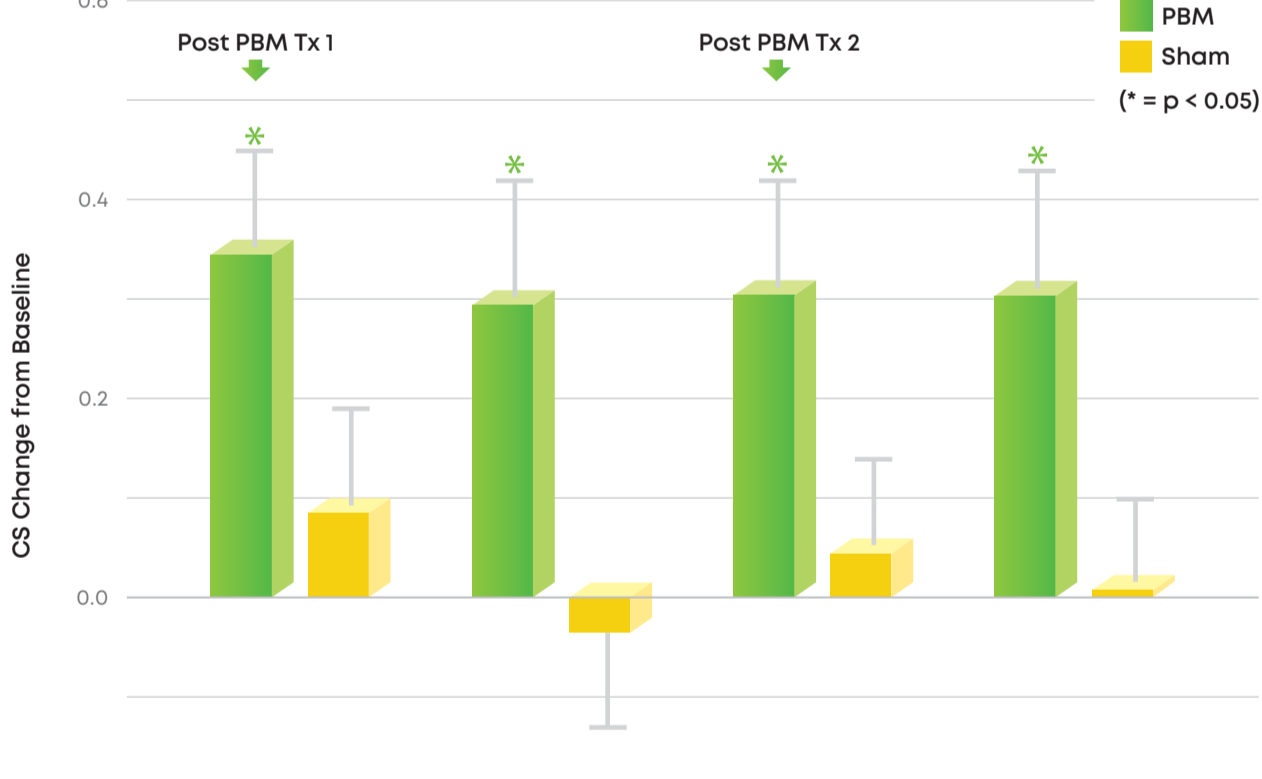
Measurements at end of each Tx cycle – post-initial Tx and post 2nd Tx



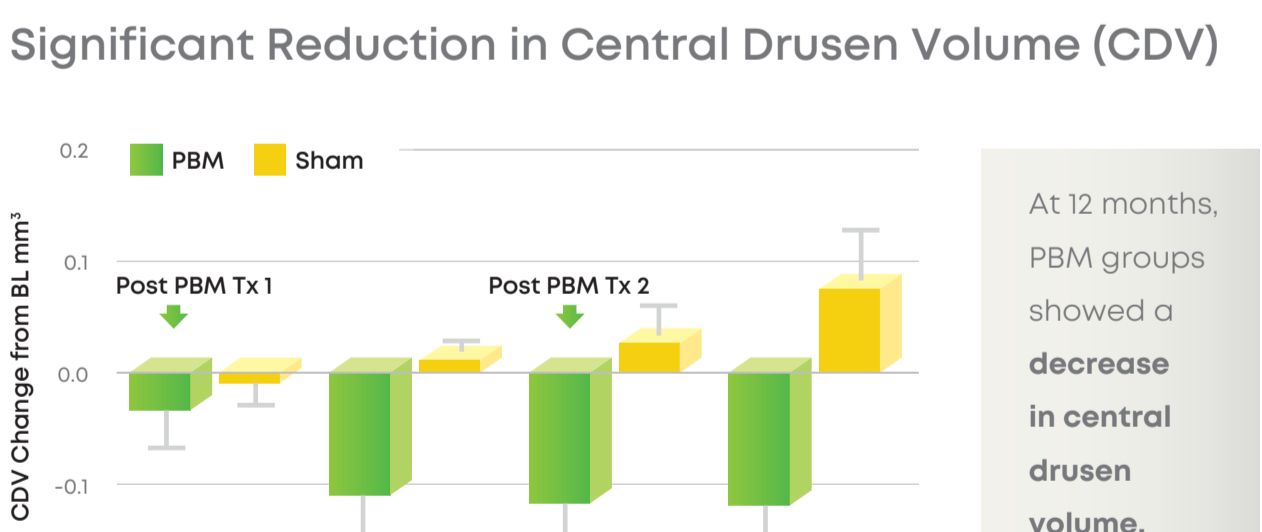
Percent of PBM Tx Eyes That Achieved a 5+ Letter Gain



Contrast Sensitivity Significantly Improved at Each Time Point (18 cycles per degree)

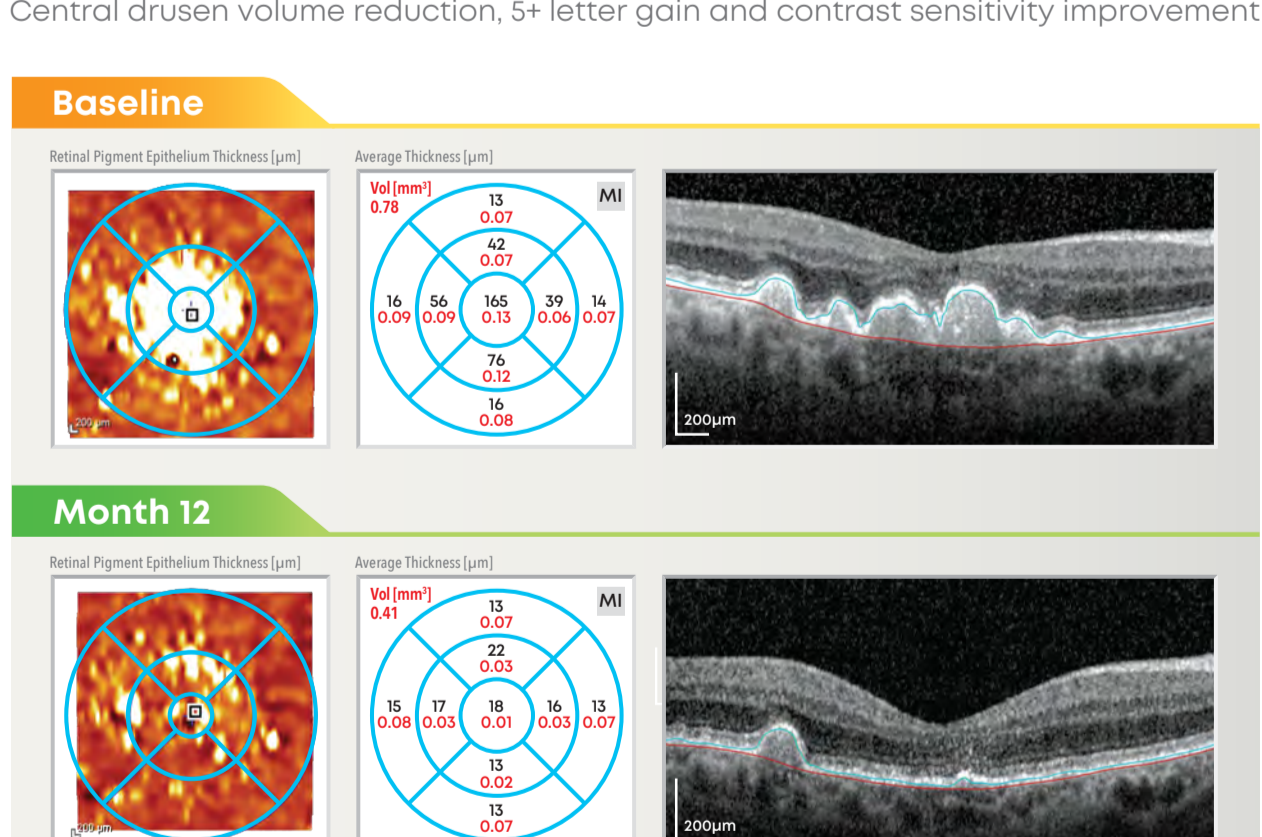


Significant Reduction in Central Drusen Volume (CDV)



Pathology and Clinical Benefits as Seen in an Individual Patient

Central drusen volume reduction, 5+ letter gain and contrast sensitivity improvement



Valeda Offers a Brighter Horizon to Patients Suffering from Dry Age-Related Macular Degeneration

Valeda was designed for ease of use in the clinician's office

Under the clinician's supervision, trained staff are able to administer the Valeda treatment.

- Excellent safety profile
- Preserves future treatment options

Treatments are delivered in a series of 9 sessions per eye over a three-week period. Each treatment session lasts less than 5 minutes per eye.

Valeda is a platform with the potential to successfully treat a number of degenerative ocular diseases.



Indications for Use

The indicated use is for treatment of ocular damage or disease using photobiomodulation, including inhibition of inflammatory mediators, edema or drusen deposition; improvement of wound healing following ocular trauma or surgery, and increase in visual acuity and contrast sensitivity in patients with degenerative diseases such as dry age-related macular degeneration.



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