



Dry Eye and GVHD: How PROSE Treatment Can Help

“MY BONE MARROW TRANSPLANT GAVE me back my life.
But I wasn’t able to enjoy that life until I got PROSE.”

-Robert Strom, patient, Fred Hutchinson Cancer Research Center





GVHD AND THE EYE

In 2009, over 25,000 patients worldwide received allogeneic (donor source) stem cell or bone marrow transplants; that number continues to rise every year. Approximately half of these patients develop chronic graft-versus-host disease (GVHD), a posttransplant complication in which T cells from the donor graft recognize the host's tissues as foreign and mount an immunologic attack.

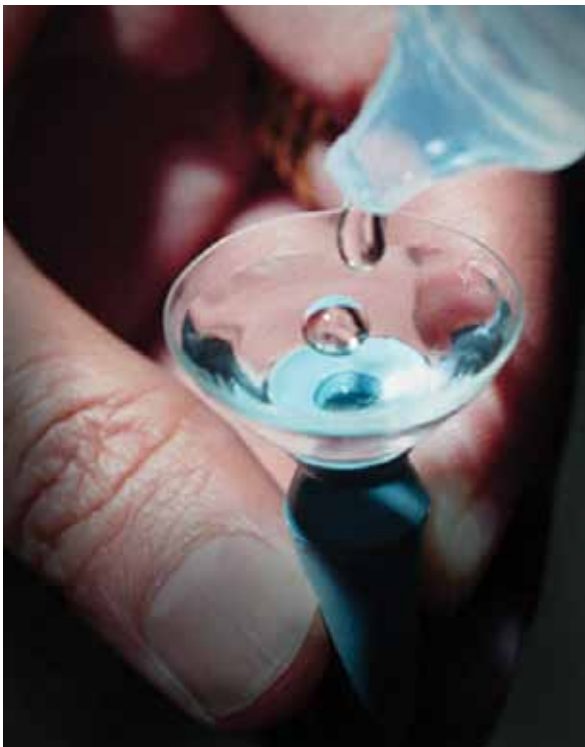
Ocular GVHD is a major complication that affects 60% of patients with chronic GVHD. Symptoms include blurry vision, dry eye, burning, foreign body sensation, gritty sensation, pain, and light sensitivity. Currently there is no preventative treatment for chronic ocular GVHD - **but there is relief.**

PROSE TREATMENT

Hundreds of patients with chronic ocular GVHD -just like you- have had their vision restored and quality of life transformed with our innovative treatment: prosthetic replacement of the ocular surface ecosystem (PROSE).

Pioneered by Boston Foundation for Sight and also available at sixteen top ranked medical centers across the globe, PROSE uses FDA-approved custom made prosthetic devices to replace or support impaired ocular surface system functions that protect and enable vision.

“MY QUALITY OF LIFE improved a great deal... Now, I can watch TV, read and work, which I could not do before because of the constant discomfort in my eyes.”
- GVHD patient





PROSE TREATMENT

The prosthetic devices used in PROSE are transparent domes, about the size of a nickel, made of gas-permeable plastic that allows oxygen to reach the ocular surface.

Devices fit under the eyelids and rest on the sclera (the relatively insensitive white tissue of the eye), vaulting the damaged cornea and creating a new smooth optical surface that protects the eye from the environment and blink trauma. The devices are filled with saline at the time of insertion, creating a reservoir of fluid that continuously bathes the eye in oxygenated artificial tears while being worn during waking hours.



BENEFITS OF PROSE

- Reestablishes a healthy and stable ocular surface environment that supports healing and reduces symptoms
- Improves blurry vision by masking surface corneal irregularities and transmitting a sharp image to the back of the eye
- Prevents further damage by protecting and shielding the cornea against the environment and eyelids

SYMPTOMS AND TREATMENT SUCCESS

In 2010, Boston Foundation for Sight (BFS) conducted an online survey of more than 1,000 people with corneal disease, the majority of whom suffer with dry eye.

For the 51 survey respondents diagnosed with ocular GVHD, including 41 PROSE patients:

- 96% had moderate or severe pain
- 87% had difficulty reading regular print newspapers, magazines or websites
- 85% were very worried about their sight
- 80% had difficulty with work or hobbies that require seeing up close
- 75% had trouble driving at night

BFS also asked GVHD respondents about their success with a variety of treatments. Here is what they had to say about the five most common:

- 0% had significant success with oral antibiotics, fish oil or flax seed oil
- 0% with topical immunosuppression (Restasis / cyclosporine)
- 0% with punctal plugs
- 0% with topical steroids
- 7% with artificial tears, lubricant gel, or lubricant ointment

76% had significant success with PROSE





About PROSE Providers

As of March 2012, there are seventeen top-ranked specialty eye care institutes located in academic medical centers and clinics in the U.S. and abroad that offer PROSE.

During their treatment, each patient is partnered with cornea specialists and an optometrist who has completed an intensive nine-week PROSE Clinical Fellowship at Boston Foundation for Sight.



PROSE treatment teams will work with you and your support network to understand your specific needs, and to create devices that successfully replace ocular surface system functions, improve vision and restore your quality of life.

PROSE providers are independently owned and operated, managing scheduling and insurance and providing ongoing care.

Please contact a PROSE provider today to make an appointment or visit www.bostonsight.org to learn more about how PROSE can help you!

PROSE Providers

ALKEK EYE CENTER, HOUSTON, TX
Baylor College of Medicine
(713) 798-6109 www.bcm.edu/eye

BASCOM PALMER EYE INSTITUTE, MIAMI, FL
University of Miami
Opening Spring 2012

BOSTON FOUNDATION FOR SIGHT, NEEDHAM, MA
(781) 726-7337 www.bostonsight.org

BROOKE ARMY MEDICAL CENTER, SAN ANTONIO, TX
(210) 916-9900

DOHENY EYE INSTITUTE, LOS ANGELES, CA
University of Southern California
(323) 442-6337 www.doheny.org

ILLINOIS EYE AND EAR INFIRMARY, CHICAGO, IL
University of Illinois College of Medicine
(312) 996-5410 www.uic.edu/com/eye

KELLOGG EYE CENTER, ANN ARBOR, MI
University of Michigan
(734) 232-8400 www.kellogg.umich.edu

MASSACHUSETTS EYE AND EAR
Boston, MA

NORTH SHORE — LIJ HEALTH SYSTEM, GREAT NECK, NY
Great Neck, NY www.northshorelij.com

PROCTOR FOUNDATION, SAN FRANCISCO, CA
University of California, San Francisco
Opening Spring 2012

WEILL CORNELL EYE ASSOCIATES, NEW YORK, NY
Weill Cornell Medical College
(646) 962-2020 www.weillcornelleye.org

WILMER EYE INSTITUTE, BALTIMORE, MD
Johns Hopkins
(410) 955-5257 www.hopkinsmedicine.org/wilmer

Please visit www.bostonsight.org/providers for the most current list, including providers in India, Iran and Japan.