



BOSTON FOUNDATION *for* SIGHT

PROSE Treatment

Information for Patients and Doctors





PROSE Treatment Description

Prosthetic replacement of the ocular surface ecosystem (PROSE) is a pioneering treatment developed by Boston Foundation for Sight (BFS) and also available at twelve top-ranked academic medical centers in the U.S. and clinics abroad. PROSE restores vision, supports healing, reduces symptoms and improves quality of life for patients suffering with complex corneal disease. PROSE uses FDA - approved (1994) custom designed and fabricated prosthetic devices to replace or support impaired ocular surface system functions.

BENEFITS

- **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 damage** by protecting and shielding the cornea and conjunctiva against the environment and eyelids

For many of the thousands of patients suffering with complex corneal disease, PROSE may be the ideal, and sometimes only, treatment capable of restoring vision and dramatically reducing eye pain and light sensitivity.





Indications

Ocular Surface Disease

DRY EYE SYNDROME

- Chronic ocular graft versus host disease (GVHD)
- Sjögren's syndrome
- History of LASIK or other refractive surgery

LIMBAL STEM CELL DEFICIENCY

- Stevens Johnson syndrome
- Aniridia
- Cicatricial conjunctivitis / ocular cicatricial pemphigoid
- Chemical / thermal injury

EPIDERMAL OCULAR DISORDERS

- Goldenhar syndrome
- Ectodermal dysplasia
- Atopy
- Epidermolysis bullosa

NEUROTROPIC KERATITIS

- Herpes zoster (shingles)
- Herpes simplex (ocular herpes)
- Familial dysautonomia
- Moebius syndrome
- Trigeminal nerve dysfunction
- Post-surgical

CORNEAL EXPOSURE/ LAGOPHTHALMOS

- Anatomic
- Paralytic
— Acoustic neuroma

Corneal Ectasia / Irregular Astigmatism

DEGENERATIONS AND DYSTROPHIES

- Keratoconus
- Keratoglobus
- Pellucid marginal degeneration
- Terrien's marginal degeneration
- Salzmann's nodular degeneration
- Meesmann's corneal dystrophy

POST OPERATIVE ASTIGMATISM

- Cornea transplant (PK, PKP)
- Radial keratotomy (RK)
- Photorefractive keratectomy (PRK)
- Phototherapeutic keratectomy (PTK)
- Epikeratophakia
- LASIK
- Open globe injury

CORNEAL SCARRING

- After trauma
- After infection

Peer-Reviewed Research

PROSE treatment “significantly improved visual acuity and visual functioning in patients with corneal ectasia, irregular astigmatism and ocular surface disease...”

— **American Journal of Ophthalmology**
2010; 149: 54-61

PROSE treatment “yielded significant increase in visual function...with high tolerance (wearing failure 8%) at 6 months. 93.1% of eyes achieved visual acuity of 20/40 or better.”

— **Poster Presentation, World Cornea Congress VI, April 2010**

The PROSE Clinic Network has published over 20 peer-reviewed publications and 40 papers and presentations on PROSE treatment. For a complete list: www.bostonsight.org/research.



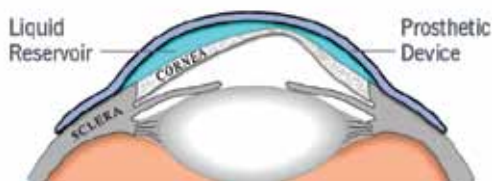


DEVICES USED IN PROSE

The prosthetic devices created during PROSE are transparent domes, about the size of a nickel, made of gas-permeable plastic that allows oxygen to reach the cornea. 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. They are filled with sterile saline that remains in the reservoir while the devices are being worn during waking hours.

PROSE creates:

- A new transparent, smooth optical surface over the irregular, damaged or diseased cornea
- An expanded artificial tear reservoir that provides constant lubrication while maintaining necessary oxygen supply



TREATMENT PROCESS

PROSE interdisciplinary treatment teams include cornea specialist ophthalmologists, optometrists who have completed an intensive PROSE Clinical Fellowship, ophthalmic technicians and prosthetic device manufacturing engineers. PROSE treatment teams work with each patient, his/her support system and other medical providers to form a collaborative care network in which all members work to understand each patient's specific needs and reach treatment goals together.

PROSE Clinical Fellows use our proprietary DTF™ CAD/CAM system to directly control the design and assure that each device precisely fits the patient's unique eye shape and maximizes ocular surface system function. All devices are manufactured at our state-of-the-art lab using ultra-precision diamond Nanoform lathes.

TREATMENT STEPS

- Referral from primary eye care provider, medical doctor or cornea specialist
- Initial medical review by BFS doctors
- 2-3 hour medical consultation
- Insurance coverage determination and potential eligibility for financial assistance (2-6 weeks)
- PROSE treatment (4-12 day-long visits)
- Periodic follow up visits as required
- Annual evaluation by the PROSE treatment team

Patients continue to be followed by their primary eye care provider during and after treatment; ongoing care is managed with primary providers and the PROSE treatment team.

INSURANCE COVERAGE

In 2010, almost 80% of our patients were covered by insurance and/or financial assistance. Our staff is happy to help with third-party coverage and financial applications. For additional travel, financial and lodging resources, visit www.bostonsight.org/patient-resources.





Restoring Sight — Reclaiming Lives

Boston Foundation for Sight is an internationally renowned nonprofit eye healthcare organization with a mission to improve the quality of life for patients and their families by transforming the understanding, treatment and care of complex corneal disease. Since our founding in 1992, we have restored vision to thousands of patients.

We enjoy partnerships with the acclaimed Massachusetts Eye and Ear Infirmary and New England College of Optometry; each year Cornea Fellows and Optometry Residents come to BFS to be educated in the latest treatments for corneal disease, and join our medical staff in clinical research on cutting-edge tools in the fight against insidious diseases of the ocular surface system.

CALL US TODAY FOR A CONSULTATION!

Contact our New Patient Affairs department today at 781-726-7501 to learn more or set up a PROSE consultation.

FOR PHYSICIAN REFERRALS

For new patient referrals or inquiries from medical professionals please call our Physician Referral Hotline at 781-726-6033.

Fill out our Physician Referral Form online at www.bostonsight.org/doctors and fax it along with your last note to 781-726-7311.



PATIENT SERVICES AND AMENITIES

Compassionate care is at the heart of our approach to patients and their families. We strive to make the entire treatment experience as supportive and healing as possible.

Complimentary breakfast and lunch are served in our community kitchen. Throughout the day between appointments, patients can be found relaxing in our low-light quiet room, catching up with work or family via wireless internet in our lounge, or watching a DVD and playing games in our media room. The BFS apartment, a short walk from our facility, is available to out-of-town patients for a small fee. We coordinate a private car service, and onsite parking is ample and free.

Our 13,000 square foot facility includes a state-of-the-art manufacturing lab, a Medical Institute with 13 exam and training rooms, and a Clinical Research Center. Our Patient and Community Support Center resources include facilitated one-to-one and group conversations; community networking, outreach and educational events; and our Connected Visions blog, PROSE Eye View e-bulletin, and Facebook community. Visit www.bostonsight.org to learn more.





Meet Our Doctors



Perry Rosenthal, MD
FOUNDING PRESIDENT



Deborah S. Jacobs, MD
MEDICAL DIRECTOR



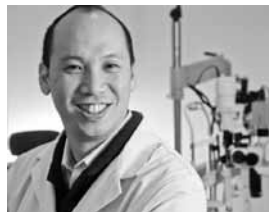
Ryan Ridges, MD



Lynette Johns, OD, FAAO



Karen S. Carrasquillo,
OD, PHD, FAAO



Alan Kwok, OD, FAAO

PROSE Clinic Network

DOHENY EYE INSTITUTE
University of Southern California
Los Angeles, CA

ILLINOIS EYE AND EAR INFIRMARY
University of Illinois College of Medicine
Chicago, IL

KELLOGG EYE CENTER
University of Michigan
Ann Arbor, MI

NORTH SHORE — LIJ HEALTH SYSTEM
Great Neck, NY

WEILL CORNELL EYE ASSOCIATES
Weill Cornell Medical College
New York City, NY

ALKEK EYE CENTER
Baylor College of Medicine
Houston, TX

BROOKE ARMY MEDICAL CENTER
San Antonio, TX

Each PROSE clinic is independently operated. Each clinic manages its' own scheduling and insurance and provides ongoing care.

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