

## About our practice

Advanced Eye Care Professionals provides comprehensive eye care for the entire family. "Our community, your vision, our passion" is AEP's mission. We are part of the community we care for, and the AEP team is passionate about providing excellent care to each patient. In the current health care environment of less personalized care, AEP stands out as a practice that sincerely cares for our patients. From appointment scheduling, through the examination, to the moment a patient leaves the office, it is all about the patient!

## Patient Services

- Specialty Contact Lenses
- Scleral Lenses
- Dry Eye Disease Diagnosis and Management
- Keratoconus
- Myopia Control
- Eyewear
- Comprehensive Eye Care and Comanagement of Ophthalmic Surgeries

## Contact Us Today

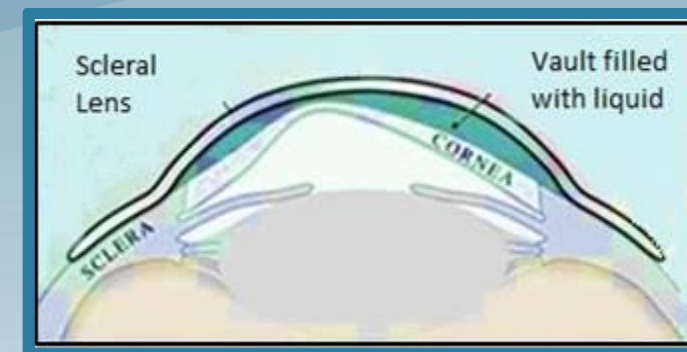
*To make an appointment, refer a patient, inquire about more information or to speak with one of the doctors or staff on our team, please call:*

Advanced Eye Care Professionals, P.C.  
Casey L. Hogan, O.D., F.A.A.O,  
Diplomate, American Board of Optometry

10320 S. Cicero Avenue  
Oak Lawn, IL  
60453  
708-229-2200

[www.aepeye.com](http://www.aepeye.com)  
[www.eyedoctoroaklawnil.com](http://www.eyedoctoroaklawnil.com)  
[www.sclerallenschicago.com](http://www.sclerallenschicago.com)

# Scleral Lenses for Keratoconus and Other Corneal Ectasias



Scleral lens vaulting the cornea, maintaining a cushion of tears.

# Scleral Lenses for Keratoconus and Other Corneal Ectasias

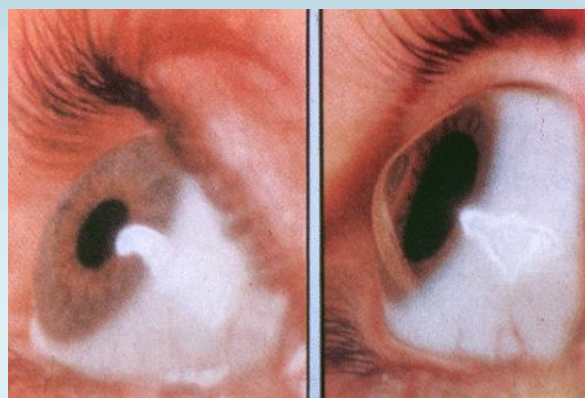
## What is an Ectasia?

The cornea is the clear tissue on the outermost surface of the eye covering the iris (color tissue) and pupil. The main function of the cornea is to refract light entering the eye.

A normal cornea will have a smooth shape. A cornea with an **ectasia** will have an irregular shape or bulge. This irregular corneal shape does not refract light correctly and will create irregular and distorted vision. Ectasias can be caused by corneal problems such as keratoconus, or may result after surgery such as LASIK or after injury to the eye.

## Keratoconus

Keratoconus is the most common ectasia. The cause of the condition is not clearly known. It is a condition in which the cornea thins and bulges into a cone shape causing distorted vision. According to the Global Keratoconus Foundation, the condition occurs in 50 to 230 patients per 100,000 and in men and women of all races.



Normal Cornea

Cornea with an ectasia, keratoconus

## How Do Scleral Lenses Help?

Scleral lenses can be an excellent choice for a patient with keratoconus or with a corneal ectasia.

Scleral lenses are designed specifically to vault over the irregular corneal shape and fit on the sclera (white tissue) of the eye.

The scleral contact lens creates a new regular surface on the front of the eye that refracts the light correctly. The result is clear, distortion-free vision!

## Keratoconus/Ectasia Symptoms and Treatment

### Common Symptoms:

- 78% report moderate issues with night driving
- 77% report difficulty reading regular print
- 73% report difficulty with work or activities requiring near vision
- 59% complain of pain

### Treatment Success Rates:

- 1% report significant success with soft contact lenses
- 7% report success with hybrid contact lenses
- 22% report success with conventional GP lenses

\*2009 Study by the Boston Foundation for Sight

## How the Blanchard Onefit™ Cone Scleral Lens Works

The Onefit™Cone lens is designed specifically for irregular corneas with keratoconus. The lens is made of materials that let oxygen pass through the lens and the design creates a thin vault making it very comfortable and healthy.

### Onefit™ Cone lenses offer three critical benefits to patients with keratoconus:

1. Creates a regular smooth ocular surface to provide clear, crisp vision
2. Fits beneath the lids and rests on the sclera (white of the eye) offering exceptional comfort and stability
3. Maintains a vault of soothing tears between the lens and cornea keeping the eye moist, comfortable and healthy



Onefit™ Cone lens on the eye

### The Success of Scleral Lenses:

- 78.9% report improved comfort
- 78.2% report improved visual quality
- 87.77% report **improved overall satisfaction** with scleral lenses

\*2007 Study by Visser  
<http://www.ncbi.nlm.nih.gov/pubmed/17224675>

### Patient Testimonial:

I used to wear small hard lenses for my keratoconus, basically tolerating them. My doctor fit me in Onefit Keratoconus lenses. I never imagined they would be so comfortable and my vision is better than I can remember. These lenses are truly remarkable!

B.T. – 36-year-old male with keratoconus, Orlando, FL