



ROBERTS EYECARE

# InSight

## What is Keratoconus?

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Keratoconus is progressive disease of the front surface of the eye called the cornea. It affects 1 in 2000 people in the population. This disorder causes the progressive thinning of the cornea, which may cause it to bulge outward. This forward bulging of the cornea can cause irregular astigmatism and nearsightedness as well as scarring of the cornea as well. Studies have indicated that keratoconic corneas show signs of increased

activity of enzymes that break down the structural integrity of the cornea causing it to thin and weaken. It is also associated with atopic disease, which includes asthma, allergies, and eczema. Keratoconus causes a gradual decrease in vision, seeing multiple images, shadows, and sensitivity to light. Initially glasses and soft contacts may provide good vision, but as the condition

progresses, rigid gas permeable contact lenses are usually needed to provide adequate vision. The traditional treatment for keratoconic eye that cannot obtain good visual acuity though rigid gas permeable contacts is a corneal transplant. One new technique being developed is called collagen cross linking, which involves riboflavin drops and UV light to halt or slow the progression of the disease.

## Varilux Physio Enhanced

### Benefits of Varilux Physio Enhanced:

- Smoother transition between powers
- Better performance under low light conditions
- Less aberration in lens resulting in more natural vision

Progressive lenses, also known as no line bifocals have been around for many years. Each subsequent iteration of these lenses improves upon the last. These lenses are characterized by a gradual increase in the lens power as the eye moves down the lens, allowing the wearer of these lenses the ability see at multiple distances. Although progressive lenses of the past allowed

the wearer this advantage, the wearer often suffered from distortion when looking away from the optic axis, a feeling of "swim" and poor vision in low light conditions. The next generation progressive lens on the market called "Varilux Physio Enhanced" allows for the sharpest vision at every distance, even in low light conditions compared to older progressives. This lens

also comes with WAVE Technology 2, which greatly decreases higher order aberrations that decrease and distort vision. The Varilux Physio Enhanced lens is digitally surfaced on both sides, allowing safer, more confident night driving, more comfortable reading, TV and computer use. Ask the doctors and opticians here at Roberts Eyecare if this lens is right for you!