

Lens Warpage

Euclid's orthokeratology lenses expire one year after the date of manufacture. This expiration date is based on internal shelf-life testing. As a result, Euclid recommends patients replace their lenses yearly. Please see the clinical guidance for [Routine OrthoK Lens Replacements](#) for more details on the mechanical damage lenses can experience over time.

Lenses that have been worn for **more than a year** can become warped or damaged over time, resulting in a lens that doesn't provide adequate vision or comfort for the patient. In a consult, this can manifest as residual spherical error, induced astigmatism, lens decentration, or patient discomfort. Lens warpage can occur in all parameters of the lens, including the base curve and alignment curves.

If you are performing a consult on a pair of lenses that are substantially more than a year old (two+ years), it can be beneficial to recommend a fresh pair of lenses before making any changes. If the lenses are not substantially more than a year old, it's important to work with the customer to determine the best change required for the lenses. While a fresh pair may solve the problem, there may be an underlying problem with the lens fit as well. Sometimes it can be helpful to split the difference with any changes so that you are making a smaller change. For example, if the patient is experiencing uncorrected spherical error of -1.00D, you might suggest flattening the base curve (increasing the target) -0.50D instead of -1.00D.

Remember that our customers' chair time is very valuable, so it's important to work with them to minimize return visits. If you recommend replacing the lenses with no changes and they would like to make a change, make sure to recommend changes accordingly.