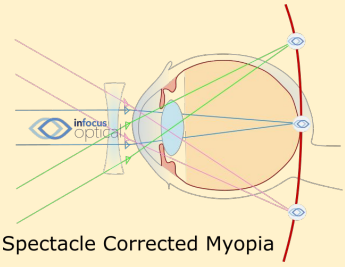
EYES PLUS INC
Family Vision Care

Myopia Management Treatments

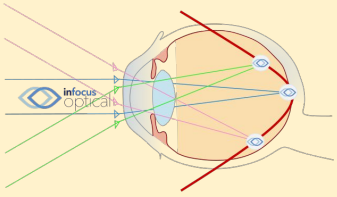
Orthokeratology (Ortho-K)

What is Ortho-K? How does it work?

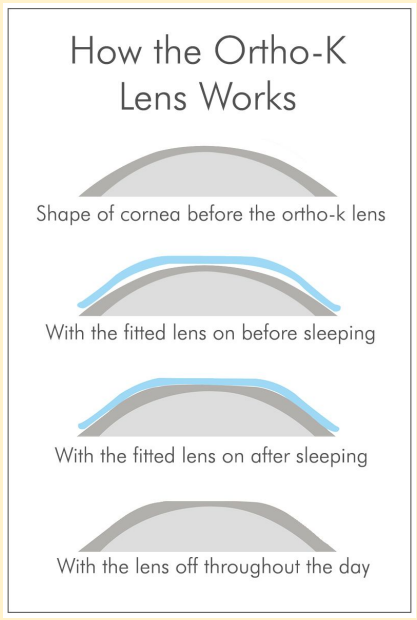
- Overnight use (while sleeping) of specialized rigid contact lenses - **Requires 8hrs of sleep**
- Temporarily reshapes the cornea (front of the eye) to correct myopia
- Gently reshapes and flattens the front of the eye, changing the way light is focused
- Focuses peripheral light rays in front of the retina (back of the eye) to slow myopia progression
- Patient removes contact lenses in the morning and is able to see clearly through the day
- Essentially like "braces" for the eye
- Freedom from glasses wear during the daytime



Spectacle Corrected Myopia



Ortho-K Corrected Myopia



Is Ortho-K safe for my child? Why is it considered to be "off-label"?

- Yes, Ortho-K is largely considered to be a safe treatment option for children.
- While Ortho-K is FDA-approved to treat myopia in adults, its use for myopia management is considered to be "off-label" as they have not undergone the specific research parameters for this purpose.
- Nonetheless, there is significant evidence-based research supporting the use and efficacy of Ortho-K for myopia management.

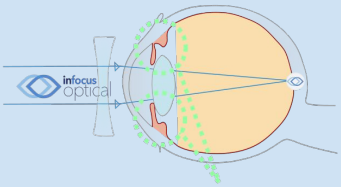
Who is a good candidate for Ortho-K?

Studies have shown that Ortho-K is most effective at slowing myopia progression in younger age groups with its greatest treatment effect occurring around 6-8 years of age. However, even older kids benefit from Ortho-K treatment and remain good candidates if their myopia continues to progress. The best candidates are those who can consistently get at least 8 hours of good sleep per night as this is imperative to optimal treatment results.

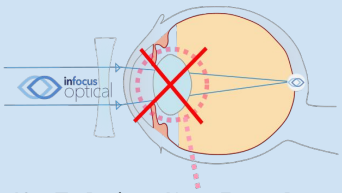
Low-Dose Atropine Eye Drops

What is atropine? How does it work?

- A pharmacological eye drop instilled nightly into both eyes
- Causes slight dilation effect to prevent over-focusing when doing near work



Atropine Paralyses Near Focus Muscles



Aim To Reduce Near Focus Demand

Is atropine safe for my child? Why is it considered to be "off-label"?

- Yes, atropine is largely considered to be a safe treatment option for children.
- While 1% atropine is FDA-approved to treat amblyopia, the low-dose concentration (0.01%-0.05%) used for myopia management is considered to be "off-label". Although the exact mechanism of action is not fully understood at this time, numerous studies have supported its use in myopia management.

Who is a good candidate for atropine?

Low-dose atropine is a great treatment option for children of all ages. Side effects may include blurred near vision, light sensitivity, and mild stinging upon instillation. However, these are usually minimal due to the low-concentration. Glasses or contact lenses are still required for optical correction.

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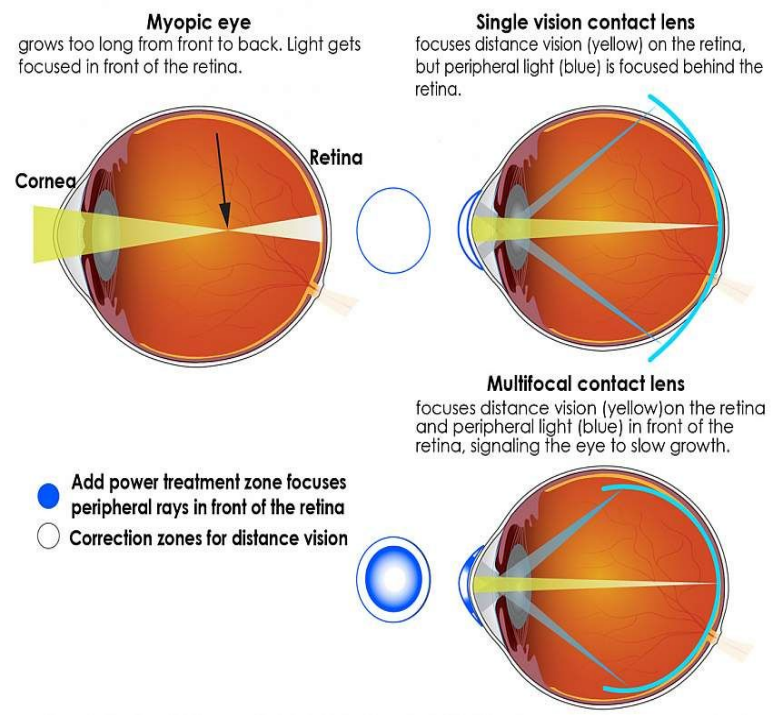
Soft Multifocal Contact Lenses



<u>What are soft multifocal contact lenses? How does it work?</u>

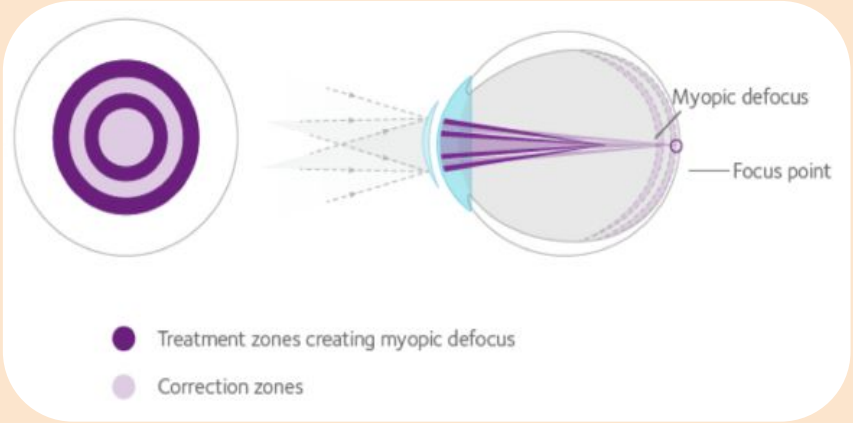
- Used as 'regular' soft contact lenses during the day
- Monthly replacement - 30 days/uses for each lens
- Must clean and sanitize daily before each use
- Apply in the morning, Remove before bed
- Corrects distance vision
- Multifocal design changes peripheral light rays to focus in front of the retina (back part of the eye) to slow progression of myopia

<u>What are MiSight 1 Day contact lenses? How does it work?</u>

- Used as 'regular' soft contact lenses during the day
- Daily replacement - no disinfection or storage
- Made specifically for Myopia Management - FDA-approved
- Unique Dual purpose: vision correction <u>and</u> treatment zones to help control the progression of myopia

<u>Are soft multifocal contact lenses safe for my child? Why is it considered to be "off-label"?</u>

- Yes, soft multifocal contact lenses are largely considered to be a safe treatment option for children.
- While soft multifocal contact lenses are FDA-approved to treat presbyopia in adults, its use for myopia management is considered to be "off-label" as they have not undergone the specific research parameters for this purpose.
- The exception to this would be MiSight contact lenses by CooperVision. These are the only FDA-approved soft multifocal contact lenses that were developed for the purpose of myopia management in children aged 8-12 years.



<u>Who is a good candidate for soft multifocal contact lenses?</u>

Safe, effective, and well tolerated in younger children aged 7-8 years. Older kids can benefit from soft multifocal contact lens treatment and remain good candidates if their myopia continues to progress