

Managing Aphakic Pediatric Patients with Specialty Lens as They Age

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Course Description:

This case driven, 1-hour course focuses on how to manage aphakic pediatric patients with specialty lens and how to adjust treatment to optimize vision as their visual demands change with age.

Learning Objectives (3):

- 1) Understand the visual demands and special considerations in this population.
- 2) Learn the specialty lens options available for pediatric aphakic patients.
- 3) Learn how to implement follow-up care and modify treatment plans as their visual demands change with age.

Outline

- I. Introduction
 - a. Goals of the lecture
 - b. Discuss different etiologies that can cause aphakia in pediatric patients
 - i. Most commonly cataracts or trauma
- II. Why fit a specialty lens on a pediatric aphakic patient
 - a. To allow for proper visual development
 - b. Risks of Visual consequences
 - c. Different options available for treatment and management
 - i. Limitations with other forms of correction
 - 1. PCIOL
 - a. Risks
 - 2. Spectacle correction
 - a. Issues of image distortion, prismatic effects, aniseikonia, etc
 - d. Risks of contact lenses in children
- III. Special considerations in this population
 - a. Rapid changes occurring in eyes
 - b. Critical period of visual development
 - i. The later it is addressed the more limited improvement can be
 - c. The changes in visual demands as the child ages
 - i. Treatment and management needs to be modified as the visual demands of child changes
 - 1. Infants
 - 2. Toddlers
 - 3. School age
 - d. Resistance from practitioners
 - i. Concerns
 - e. Starting points for fitting
 - i. Tools
 - f. Different Contact lens options
- IV. Involving Caregivers
 - a. Discussion options
 - b. Parent concerns

- c. Educating caregiver on why contact lens is important to their child's visual development
 - d. Training caregiver on insertion and removal
 - e. Educating caregiver and setting expectations
 - i. When to expect changes in fits
 - ii. When to expect child to become more involved in insertion and removal
 - iii. Things to look out for when using contact lens on children
 - f. Providing resources
 - i. Examples
- V. Insertion and removal tips
 - a. Holding and IR techniques
 - b. Teaching parent to insert and remove lens
 - c. Teaching child to insert and remove lens
- VI. Follow-up care
 - a. Follow-up schedule
 - i. Varies case to case. Generally
 - 1. infants younger than 6 months seen every 2 weeks,
 - 2. Age 12-18 months seen monthly
 - 3. 18 months to 3 years every 3 months
 - 4. Over 3 years seen every 6 months
- VII. Case presentations
- VIII. Conclusions and summary