

Contemporary Topics in Specialty Contact Lenses

One Hour Lecture

Speakers:

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Course Description:

Specialty lenses encompass a wide range of lens materials, lens designs and patient indications. Throughout this lecture five internationally recognized contact lens specialists will share their expertise in managing a number of diverse ocular conditions. Specific topics include pediatric aphakia, ocular suture complications, the use of scleral lenses in special populations, the management of ocular cicatricial pemphigoid and communicating the strategies for myopia management.

Course Objectives:

Upon completion of this course, the participant should understand:

1. the management of pediatric aphakia and traumatic anterior eye irregularity.
 2. the safe and effective use of contact lenses in a vulnerable population.
 3. the common complications associated with corneal and scleral sutures
 4. the use of scleral lenses in patients with ocular cicatricial pemphigoid
 5. the patient and parent communication strategies for myopia management
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- I. Introduction
 - a. Introduction to format and speaker presentation
 - II. Pediatric Aphakia and Trauma in Youths
 - a. Introduction to surgical and traumatic causes of ocular irregularity in infants and kids
 - b. Infant Aphakia
 - c. Traumatic injury and subsequent anterior eye opacities and irregularity in pediatric patients
 - d. Safety considerations
 - e. Clinical integration for fitting specialty contact lenses for infants and youth
 - III. Suture Related Complications
 - a. Suture Use
 - i. Briefly discuss when and why sutures are utilized
 - b. Suture Types and Methods
 - i. Continuous

- ii. Interrupted
 - iii. Compare and contrast types and surgical considerations
 - c. Suture Location
 - i. Corneal
 - ii. Scleral
 - d. Suture Complications
 - i. Brief overview of common types of complications
 - ii. Discuss short and long term management options
 - e. Contact Lens Considerations in suture related complications
 - i. Discuss suture related complications based on current and future contact lens types
 - ii. Describe methods to address complications and patient management
- IV. Special Populations in Scleral lenses
 - a. Discuss and define scleral lenses for pediatric patients
 - i. Designs and lens customization for the pediatric population
 - ii. Challenges associated with handling and compliance of scleral lenses in pediatric patients
 - b. Discuss and define scleral lens indication and uses in geriatric populations
 - i. Age-related changes in the cornea
 - ii. Surgical procedures and scleral lens wear
 - iii. Benefits and limitations of scleral lenses in geriatric patients
 - iv. Handling and Care considerations
 - c. Scleral Lenses for Military Professional
 - i. Lifestyle and visual challenges faced by military personnel
 - ii. The role of scleral lenses in managing ocular trauma and corneal injuries in military personnel
 - iii. Challenges associated with handling and adherence
 - d. Scleral Lenses in Down's Syndrome Populations
 - i. Common ocular issues in Down syndrome
 - ii. Common Ocular infections
 - iii. Benefits and Limitations of scleral lenses
 - iv. Challenges to application, removal and management
- V. Ocular Cicatricial Pemphigoid
 - a. Disease Overview
 - b. Therapeutic Contact Lens Options
 - i. Bandage Contact Lenses
 - ii. Scleral Lenses
 - c. Common Fitting Challenges

- d. Special Considerations and Fitting Obstacles
 - i. Symblepharon
 - ii. Persistent Epithelial Defects
 - iii. Tarsorrhaphy
 - iv. Surgical Considerations
- VI. Myopia Management and Parent Education
 - a. Brief Overview of Myopia Management Options
 - b. Review the efficacy of contact lenses in Myopia Management
 - c. Patient and Care Giver Educations
 - i. Communication Tips
 - ii. Strategies for successful outcomes
 - 1. Handouts
 - 2. Define and discuss timeline of fitting and management process.