

biofinity mf fitting guide

biofinity mf fitting guide provides essential information for eye care professionals and wearers to achieve optimal comfort and vision correction with Biofinity Multifocal contact lenses. These lenses are designed for presbyopic patients seeking clear vision at all distances without compromising on ocular health. This comprehensive guide covers the fitting process, lens parameters, patient assessment, and troubleshooting tips to ensure a successful fitting experience. Understanding the unique features of Biofinity MF lenses, including their material properties and design technology, is crucial for maximizing patient satisfaction. This article also delves into lens selection criteria, fitting techniques, and follow-up care protocols. By following this guide, practitioners can enhance fitting accuracy, reduce adaptation time, and improve long-term wear success with Biofinity multifocal lenses.

- Understanding Biofinity Multifocal Lenses
- Pre-Fitting Patient Assessment
- Lens Selection and Parameter Determination
- Fitting Techniques and Evaluation
- Troubleshooting Common Fitting Issues
- Patient Care and Follow-Up

Understanding Biofinity Multifocal Lenses

Biofinity Multifocal contact lenses are silicone hydrogel lenses manufactured by CooperVision, specifically designed for presbyopic patients. These lenses utilize the patented Balanced Progressive Technology, which incorporates multiple zones for near, intermediate, and distance vision. The material, Comfilcon A, offers high oxygen permeability (Dk) to maintain corneal health during extended wear. The lens design aims to provide seamless visual transition across different focal points while ensuring comfort and stability on the eye.

Material Properties and Benefits

Biofinity MF lenses are made from a silicone hydrogel material that allows significantly more oxygen to reach the cornea compared to conventional hydrogel lenses. This reduces the risk of hypoxia-related complications and helps maintain ocular health during daily or extended wear. The lens surface is treated with Aquaform Technology, which enhances wettability and moisture retention, contributing to overall comfort.

Design Technology

The Balanced Progressive Technology incorporated in Biofinity Multifocal lenses features concentric zones for different focal distances. The center-near design places the near vision zone centrally, surrounded by intermediate and distance zones. This design provides a balanced distribution of light, optimizing vision at various ranges without compromising clarity or comfort.

Pre-Fitting Patient Assessment

A thorough patient assessment is critical before fitting Biofinity MF lenses to ensure suitability and to guide lens parameter selection. This includes evaluating the patient's visual needs, lifestyle, ocular health, and refractive errors. Understanding presbyopic status and degree of ametropia helps customize the fitting process.

Patient History and Visual Requirements

Gather comprehensive information about the patient's visual demands, occupational requirements, and previous contact lens experience. Assess the extent of presbyopia, whether early or advanced, and determine whether the patient requires constant multifocal correction or occasional use. Lifestyle factors such as screen time, outdoor activities, and driving habits also influence lens choice.

Ocular Health Examination

Perform a detailed anterior segment examination to rule out contraindications for contact lens wear. Evaluate tear film quality, corneal curvature, and any signs of dry eye or ocular surface disease. Proper ocular health is essential for a successful multifocal lens fitting and to prevent complications during wear.

Lens Selection and Parameter Determination

Selecting the correct Biofinity MF lens parameters requires careful consideration of the patient's refractive prescription, pupil size, and fitting characteristics. The base curve, diameter, power, and add power must be optimized to match the patient's visual and anatomical needs.

Determining Base Curve and Diameter

The standard base curve provided for Biofinity Multifocal lenses is typically 8.6 mm, with a diameter of 14.0 mm. These dimensions suit the majority of corneal shapes; however, adjustments may be necessary for unusually steep or flat corneas. Proper alignment ensures lens centration and stability, which are crucial for multifocal performance.

Calculating Sphere and Add Powers

The sphere power is derived from the patient's manifest refraction, while the add power is selected based on the degree of presbyopia. Biofinity MF lenses offer several add power options, ranging from low to high adds, to accommodate varying near vision demands. It is essential to start with the recommended add power and adjust based on visual response during the fitting process.

Fitting Techniques and Evaluation

Proper lens fitting involves verifying lens movement, centration, and visual acuity at multiple distances. The evaluation process includes both objective and subjective assessments to confirm that the Biofinity MF lenses provide balanced vision and comfort.

Initial Lens Application and Observation

After inserting the trial lens, observe its centration relative to the cornea and eyelids. The lens should move approximately 0.1 to 0.2 mm with each blink and settle quickly without excessive lag. Adequate movement facilitates tear exchange and oxygen transmission, which are vital for ocular health during wear.

Visual Acuity Testing

Assess distance, intermediate, and near visual acuities with the lenses in place. Multifocal lenses may require adaptation, so it is important to evaluate each visual zone independently. Subjective feedback from the patient regarding clarity and comfort at different distances helps guide further adjustments.

Over-Refraction and Parameter Adjustment

If visual acuity is suboptimal, perform an over-refraction to refine the sphere power. Adjust the add power or base curve as necessary to improve lens centration and vision balance. Multiple trial lenses may be needed to achieve the best fit and visual outcome.

Troubleshooting Common Fitting Issues

Despite careful selection and fitting, some patients may experience challenges with Biofinity MF lenses. Identifying and resolving these issues promptly enhances wearer satisfaction and lens performance.

Lens Decentration or Excessive Movement

Lens decentration can cause blurred vision and discomfort. If the lens shifts excessively, consider altering the base curve or diameter to improve fit. In some cases, adjusting the eyelid tension or using lens stabilizing techniques may be beneficial.

Visual Disturbances and Ghosting

Patients may report halos, glare, or ghost images, especially during night driving. These symptoms often result from improper add power selection or lens centration issues. Refining the add power, performing a thorough over-refraction, or switching to an alternative multifocal design may help mitigate these problems.

Discomfort and Dryness

Discomfort can be related to dry eye, lens surface issues, or poor lens fit. Ensuring proper lens care, recommending rewetting drops compatible with silicone hydrogel lenses, and addressing any underlying ocular surface disease are essential steps to improve comfort.

Patient Care and Follow-Up

After a successful fit, educating the patient on lens handling, wearing schedule, and hygiene is vital for long-term success. Regular follow-up appointments allow monitoring of lens performance and ocular health.

Patient Education and Handling

Instruct patients on proper insertion and removal techniques, lens cleaning regimens, and the importance of adhering to recommended wearing schedules. Emphasize the need for regular eye examinations to detect any early signs of complications.

Follow-Up Schedule and Evaluation

Schedule follow-up visits within one to two weeks after lens dispensing to assess adaptation, visual performance, and ocular health. Subsequent visits should be tailored based on individual patient needs and any emerging issues. Continuous monitoring ensures sustained success with Biofinity Multifocal lenses.

1. Understand the unique features of Biofinity MF lenses
2. Conduct comprehensive patient assessments
3. Select appropriate lens parameters based on refractive needs

4. Perform meticulous fitting and visual evaluations
5. Address fitting challenges with targeted solutions
6. Provide thorough patient education and follow-up care

Frequently Asked Questions

What is the Biofinity MF fitting guide?

The Biofinity MF fitting guide is a resource provided by CooperVision to help eye care professionals accurately fit Biofinity Multifocal contact lenses to patients with presbyopia, ensuring optimal vision and comfort.

Who should use the Biofinity MF fitting guide?

Eye care professionals who prescribe Biofinity Multifocal contact lenses should use the fitting guide to determine the appropriate lens parameters and ensure a proper fit for their patients.

What are the key steps in the Biofinity MF fitting process?

The key steps include assessing the patient's refractive error, pupil size, and visual needs; selecting the initial lens parameters based on the guide; performing an over-refraction; and evaluating lens centration and movement on the eye.

How does the Biofinity MF fitting guide help with lens selection?

The guide provides detailed charts and instructions to select the correct base curve, diameter, and add power based on the patient's prescription and visual requirements, helping to customize the lens fit.

Can the Biofinity MF fitting guide be used for first-time multifocal lens wearers?

Yes, the guide is designed to assist both new and experienced multifocal lens wearers by providing a systematic approach to fitting and troubleshooting the lenses.

What should be done if a patient experiences discomfort

using Biofinity MF lenses according to the fitting guide?

If discomfort occurs, the guide recommends re-evaluating lens fit, checking for proper lens movement and centration, verifying prescription accuracy, and possibly adjusting lens parameters or trying a different add power.

Where can eye care professionals access the Biofinity MF fitting guide?

The Biofinity MF fitting guide is available on the CooperVision official website as a downloadable PDF, and it may also be provided as part of fitting kits or through professional training resources.

Additional Resources

1. *Biofinity Multifocal Contact Lenses: A Comprehensive Fitting Guide*

This book offers an in-depth exploration of the Biofinity multifocal contact lenses, focusing on fitting techniques and patient management. It includes practical tips, case studies, and troubleshooting strategies to optimize lens performance. Designed for eye care professionals, the guide helps improve patient satisfaction through effective fitting protocols.

2. *Advanced Contact Lens Fitting: Multifocal and Biofinity Lenses*

Covering the latest advancements in multifocal lens technology, this book emphasizes Biofinity lenses and their unique fitting requirements. It discusses ocular anatomy, lens design, and the biomechanics of fitting multifocal contacts. The text is ideal for practitioners seeking to enhance their clinical skills in multifocal lens fitting.

3. *Multifocal Contact Lenses: Clinical Applications and Fitting Strategies*

This resource provides a thorough overview of multifocal contact lenses, with special attention to Biofinity's product line. It outlines patient selection criteria, fitting procedures, and adaptation challenges. Readers will find evidence-based recommendations and real-world clinical examples.

4. *The Eye Care Professional's Guide to Biofinity Multifocal Lenses*

Tailored for optometrists and ophthalmologists, this guide focuses on the practical aspects of prescribing and fitting Biofinity multifocal lenses. It covers patient education, lens handling, and follow-up care to ensure successful outcomes. The book also addresses common fitting issues and solutions.

5. *Contact Lens Fitting Made Simple: Multifocal Solutions Including Biofinity*

This accessible guide simplifies the complexities of multifocal lens fitting, featuring Biofinity lenses as a primary example. Step-by-step instructions, fitting flowcharts, and patient case notes make it a valuable tool for clinicians at all experience levels. The book promotes confidence in multifocal lens fitting.

6. *Optimizing Visual Performance with Biofinity Multifocal Contact Lenses*

Focusing on maximizing visual acuity and comfort, this text discusses how to tailor Biofinity multifocal lenses to individual patient needs. It includes detailed fitting

methodologies and lens parameter adjustments. The book also explores the relationship between lens design and visual outcomes.

7. Multifocal Contact Lenses: The Biofinity Approach to Presbyopia

This book delves into the use of Biofinity multifocal lenses for presbyopic patients, highlighting fitting philosophies and patient management. It provides an overview of lens optics, fitting challenges, and adaptation timelines. The guide is a valuable reference for practitioners addressing presbyopia with contact lenses.

8. Clinical Pearls for Fitting Biofinity Multifocal Contact Lenses

A practical handbook filled with expert tips and clinical pearls, this book aims to streamline the fitting process of Biofinity multifocal lenses. It addresses common fitting pitfalls and offers strategies to overcome them. The concise format makes it a quick reference during patient consultations.

9. Essentials of Contact Lens Practice: Multifocal Lens Fitting and Biofinity

This essential text covers foundational knowledge in contact lens practice, with a special focus on multifocal lens fitting using Biofinity products. It discusses patient assessment, lens selection, and follow-up care protocols. Suitable for students and practitioners, it bridges theory and clinical application.

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