SILVER LINE™
LABORATORIES

McAsfeer™ Scleral Lens

USER GUIDE

Prepration to insert McAsfeer™ Scleral Lens

Cleanliness is the first and most important aspect of proper lens care.

1. Fingernails should be short and neat.
2. Wash your hands thoroughly with a mild soap, and dry with a lint-free towel or let them air dry before handling the Lens.
3. Avoid using soap that contains cold cream, moisturizers, lanolin or perfumes.
4. Avoid use of oily cosmetics, waterproof eye liner etc, prior to handling McAsfeer™ Scleral Lens
   - (a) These substances can adhere to the lens surface causing dryness and visual discomfort.
   - (b) Cosmetics may spoil the tear reservoir on the cornea which may affect Lens performance and reduce the wearing schedule.

Handling your McAsfeer™ Scleral Lens

1. If your Lens does not have different handling tints then it is recommended to develop the habit to start with single lens first. Open only one compartment of your lens case at a time (better eye lens first) to avoid Lens swapping.
2. Open the lens case (one side only) and empty it onto the palm of your non dominant hand.
3. Check and make sure that it is free of any deep scratch, crack or chipped edges.
4. In case of similar handling tints of your lens, it is recommeded to check the marking provided on the lens surface ("R" on the Right Eye lens and "L" on the Left Eye lens) to distinguish the appropriate lens.

NOTES

Two different options are available to distinguish between the appropriate Lens

a. **Marking / Engraving "R & L" on the Lens surface.**

b. **Two different handling tints for both the Lenses.**

We recommend tint difference between both the Lens. For an example "CLEAR" tint for Rt Eye (to remember "R" alphabet in its spelling - cleaR') and "BLUE" tint for Lt Eye.
(to remember "L" alphabet in its spelling - bLue

Cleaning McAsfeer™ Scleral Lens before placing on the eye.

A) Two Bottles Care System

You will require Lens, GPcare - cleaning solution (surfactant) and gpfresh (one step multi-action solution)

1. Take the lens out from the lens case.
2. Hold the lens with three fingers - Thumb, Index Finger and Middle Finger of your dominant hand.
3. Rinse the lens with gpfresh solution, hold it within three fingers, to remove the dust particles or other substances adhering to the lens surface which may cause scratches on the lens during cleaning.
4. Put 3-4 drops of GPcare - cleaning solution (surfactant) on the lens. Gently massage the lens surface in circular motion for 15-20 seconds. Massage more on the front 90% (convex side) and less on the back surface (concave side).
5. Rinse the lens with gpfresh solution throughly until the GPcare (surfactant) is washed off completely.

This will enhance the following factors.

a. HYGIENE : It will remove the bacteria, impurities and hardness from the lens surface.

b. RECONDITIONING : It will recondition the lens surface after cleaning with GPcare cleaning solution (surfactant).

c. COMFORT : It will maintain a hydrating layer and pH value of the lens surface will be similar to natural tears.

NOTES

Don't clean the Lens on the palm.

Hold and clean the lens between the fingers with very light pressure. It will protect the lens surface from heavy friction and reduce the chance of getting scratches. It will also increase the lens life.

One Bottle Care System

You will require Lens gpfresh - one Step Multi-Action solution.

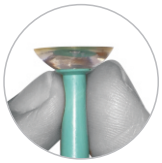
1. Take the lens out from the lens case.
2. Hold the lens with three fingers-Thumb, Index Finger and Middle Finger of your dominant hand.
3. Put 3-4 drops of gpfresh on the lens. Gently message the Lens surface in circular motion for 35-40 seconds. Massage more on the front 90% (convex side) and less on the back surface (concave side).
4. Now put some more drops of gpfresh to rinse the lens properly and to remove loose debris and deposits which appear on the lens surface after 40 seconds of mechanical rubbing.

Placement of McAsfeer™ Scleral Lens on the eye - with suction holder.

You will need Scleral lens, Pro Saline, suction holder, looking mirror and lint-free towel.

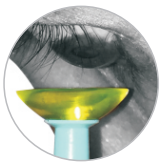
1. Sit close to the mirror kept on a table covered with a clean lint-free towel.
2. Hold and pinch the suction holder from the middle, in between the thumb and index finger of dominant hand (cup side up).
3. Put few drops of Pro Saline and wet the suction holder cup.
4. Place the clean wet lens on the centre of pinched wet suction holder.

   On releasing the pinch the plunger will hold/suck the Lens.
5. Now hold the suction holder gently near the suction cup (closer to the lens) and fill the Lens with Pro Saline and Rinse it.



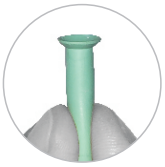
6. Fill the lens once again with fresh ProSaline

7. a Pull up and hold the upper lid margin firmly against the upper orbital bone with two middle fingers of the other hand. Pull down and hold the lower lid margin against the lower orbital bone with the middle finger of your dominant hand while holding the lens on suction holder.



or

7 b. Place the index finger parallel to the upper lid margin and thumb parallel to the lower lid margin and stretch them outward to open the eye wide for easy lens insertion. (use your right hand for right eye and left hand for left eye to stretch them outward. Hold the suction holder with other hand/ free hand).



8. Bend your head forward and touch your chin to your neck , so that your face is parallel to the floor.

9. Now make a perpendicular lens insertion on the cornea. While looking straight at the lens, maintain a tear reservoir in between the lens and the cornea.
10. Push the lens against the eye and let it rest on the sclera (white part of the eye). Pinch and detach the suction holder after the lens lands on the sclera. Release both the lids one by one.
11. Sit close to the mirror, pull both the lids outward to open the eye and check for any air bubbles that appear in between the lens and the cornea. If you find any air bubble take the lens out and repeat the whole process until the lens is inserted properly.
12. Check the distance vision to ensure that the lens is properly inserted by covering /closing the other eye with the palm of your hand.

NOTES

1. Suction holder should be clean and wet before usage.
2. Hold the suction holder from the top (closer to the Lens) to easily detach the lens on the eye.
3. Avoid any air bubbles trapped in between the lens and the cornea. It may desiccate (dry) the corneal surface.

Placement of McAsfeer™ Scleral Lens on the eye - with fingers.

You will require Lens, pro-Saline, looking mirror and a lint free towel.

1. Sit close to the mirror kept on a table covered with a clean lint free towel.
2. Make a tripod with Thumb, Index and Middle Finger of the dominant hand and place the lens on the tripod (concave side up).
3. Fill the lens completely with Pro- Saline.

4.a Pull and hold the upper lid margin firmly against the upper orbital bone with two middle fingers of the other hand. Pull down and hold the lower lid margin against the lower orbital bone with the middle finger of your dominant hand while holding the Lens on fingers tripod.

or

4b Place the index finger parallel to the upper lid margin and thumb parallel to the lower lid margin and stretch them outward to open the eye widely for easy Lens insertion. (use your right hand for right eye and left hand for left to stretch them outward. Make tripod with other hand / free hand).

5. Bend your head forward and touch the chin to the neck to make your face parallel to the floor.

6. Now perform a perpendicular lens insertion on the cornea, while looking straight at the lens to maintain a tear reservoir in between the lens and the cornea.

7. Push the Lens against the eye and let it rest on the sclera (white part of the eye). Release both lids one at a time.

8. Sit close to the mirror, pull both lids to open the eye and check for any air bubbles that might appear in between the lens and the cornea. If you find any air bubbles take the Lens out and repeat the complete process until the Lens is inserted properly.

9. Check your distance vision to ensure that lens is properly inserted by covering / closing the other eye with the palm of your hand.

CAUTION : Avoid any eye lash interaction with saline filled in the lens while inserting it in the eye. The eye lashes contains lots of debris and dust particles which may contaminate the tear reservoir (saline filled inside the lens) and reduce the performance and wearing schedule.

NOTES

1. To hold the lid margins firmly, finger tips should be dry.
2. When placing the lens on the eye bend your head forward completely and lower your chin perpendicular to the lens. This is essential to maintain the tear reservoir in between the lens and the cornea.
3. Avoid eye lash interaction with Lens and tear reservoir (saline filled inside the Lens)
4. Avoid any air bubble/s trapped in between the lens and the cornea. It may desiccate (dry) the corneal surface.
5. Do not hold the Lens with three fingers. Place the Lens on the top of the finger tripod and ensure that the fingers do not touch your eye.

Removal of McAsfeer™ Scleral Lens from the eye.

There are three different types of vacuum gadgets available in the market to aid in the removal of the lens form the eye :



Suction Holder
(hole in the centre of the suction cup)



Vertical Plunger
(no hole in the suction cup)



Angulated Plunger
(no hole in the suction cup)

Lens Removal With Suction Holder

You shall require a clean and dry lens case, bottle of Pro Saline, suction holder, looking mirror and a lint free towel.

1. Sit close to the mirror kept on a table covered with a clean lint free towel.
2. Hold and pinch the clean suction holder from the middle with thumb and index finger of your dominant hand (cup side up).
3. Put few drops of Pro Saline and wet the suction holder.

4.a Pull up and hold the upper lid margin firmly against the upper orbital bone, with two middle fingers of the other hand. Pull down and hold the lower lid margin against the lower orbital bone with the middle finger of your dominant hand while holding the pinched Suction Holder.

or

4.b Place the index finger parallel to the upper lid margin and thumb parallel to the lower lid margin and stretch them outward to open the eye wider for easy Lens insertion. (use your right hand for right eye and left hand for left eye to stretch them outward. Hold the pinched suction holder with other hand / free hand).

5. Sit close to the mirror and locate the lower edge of the Lens, on the eye, while pulling lower lid downward.

6. Place the wet cup of pinched suction holder at the lower edge (at 6 o' clock of the Lens) of the Lens surface and release the pinch to capture the Lens. Pull the Lens out by breaking the suction between the lens and the cornea.

7. Detach the lens from the suction holder. Clean, rinse, disinfect and store the lens in a clean dry case filled with fresh gpfresh solution.

Lens Removal With Plunger

You shall require a clean and dry lens case, bottle of Pro Saline, plunger, looking mirror and lint free towel.

1. Sit close to the mirror kept on a table covered with a clean and lint free towel.
2. Hold the clean plunger from the middle between the thumb and index finger of the dominant hand (cup side up).
3. Put one drop of Pro Saline in plunger's cup.

4.a Pull up and hold the upper lid margin firmly against the upper orbital bone with two middle fingers of the other hand. Pull down and hold the lower lid margin against the lower orbital bone with the middle finger of your dominant hand while holding the plunger.

4b. Place the index finger parallel to the upper lid margin and thumb parallel to the lower lid margin and stretch them outward to open the eye widely for easy Lens insertion. (use your right hand for right eye and left hand for left eye outward.

Hold the plunger with other hand/ free hand).

5. Pull the lower lid while sitting close to the mirror and locate the lower edge of the lens.
6. To pull the lens out of the eye, place the wet cup of the plunger at the lower edge of the lens surface to capture the lens. Pull the lens out by breaking the suction between the lens and the cornea.
7. Detach the Lens from the plunger. Clean, rinse, disinfect and store the lens in a clean and dry lens case filled with fresh gpfresh.

NOTES

1. Suction holder / plunger should be held in the middle while removing the Lens.
2. Pull up and hold the upper lid firmly to avoid any incident due to strong blinking reflex while removing the Lens.
3. Break the suction gently (no jerk) while removing the Lens from the eye.
4. Suction holder / plunger should be kept dry after usage / before storage.
5. It is highly recommended to remove the Lens at least one hour before bedtime.

Removal of McAsfeer™ Scleral Lens with Fingers.

You will require a clean and dry lens case, looking mirror and lint free towel.

1. Sit close to the mirror kept on a table covered with a clean lint towel.
2. Open the eyes wide while looking straight into the mirror and try to locate the edge of the Lens.
3. Pull up and hold the upper lid margin firmly just above the upper edge of the lens on the eye with middle fingers of the other hand.
4. Sit close to the mirror and locate the lower edge of the Lens while pulling lower lid downward and hold it just below the lower margin (at 6'o clock) of the lens.
5. To break the suction between the lens and the cornea - press sclera (white portion of the eye) gently inwards with lower lid margin.

6. After releasing the suction, lens will start floating in the eye and will be full of air instead of saline.
7. Push the upper lid margin downward slowly and gently against the upper edge of the lens at sclera while still pressing sclera with lower lid margin, just below the lower edge of the lens.
8. Lens will pop out of the eye on to the towel spread on the table or may slide out at the lower lid margin. Lens can be taken out on the palm of dominant hand.
9. Clean, rinse, disinfect and store the lens in dry and clean lens case filled with fresh gpfresh.

NOTES

1. The motive to push the sclera (white portion of the eye) just below the edge of the Lens is to break the suction between the lens and the cornea and to detach both the surfaces.
2. Lens may pop out of the eye and may fall on the floor. It is always recommended to practice the above procedure with a towel spread on the table or sitting on the bed.
3. Lens can be taken out on the palm or with the fingers which will require practice.

Do's And Don'ts

For your McAsfeer Mini Scleral Lens

1. Finger nails should always be kept neat and short.
2. Always wash your hands thoroughly with a mild soap before handling the lens.
3. Don't use soap containing cold cream, lanolin or perfumes.
4. Always use a lint free towel or air dry hands.
5. Do not use thermal (heat) lens care system for your lens or rinse your lens with hot water. This will damage the lens..
6. Always use fresh gpfresh solutions for cleaning and storing the Lens.
7. Do not insert empty scleral lens in the eye.
8. Always use ProSaline to fill the lens as tear reservoir for optimum and long lasting performance on the eye.

10. Always fill the lens with Pro Saline up to the brim.
11. Avoid any air bubble trapped in between th lens and the cornea. It may desiccate (dry) the corneal surface.
12. Do not use any solution or saline which has preservatives. For example; soft lens multipurpose solution etc., to fill the Scleral Lens.
13. Always use Lens care systems recommend by your eye care practitioner.
14. Do not mix lens care system unless indicated on solution or advised by your eye care practitioner.
15. Always read and follow the instructions provided on the solution bottle label and inside of the outer Packaging of solution. Different solutions have different lens care procedures and cannot be combined together.

09. Do not use any aerosols, alcohol or petroleum products such as spirit, ether, hand sanitizers, nail polish remover etc, and any disinfectant of similar sort to clean the lens, lens case and suction holder / plunger.
10. Suction holder / plunger should be kept clean and dry. It should be moisturised just before usage.
11. To have a firm grip, eye lid margins and fingers should be dry.
12. Place the lens on the centre of the suction holder before insertion.
13. Hold the suction holder form the top (closer to the lens), while inserting, to easily detach and place the Lens on the eye.
14. Do not hold the lens with three fingers. Place the lens on top of the finger tripod and ensure that the fingers do not touch your eyes.
15. Suction holder should be held from the middle while removing the lens from the eye.

16. While removing - Place the suction holder / plunger close to the edge of the lens on the eye. This helps to break the suction between the lens and sclera.
17. Pull up and hold the upper lid firmly while removing the lens to avoid any injury due to strong blinking reflex.
18. Always clean and disinfect the lens after removing from the eye.
19. Disinfect your the lens everyday by soaking them in fresh gpfresh in a clean lens case.
20. Use of an enzyme or any cleaning solution does not substitute for lens disinfection.
21. Always handle one lens at a time to avoid any possibility of interchange. Place each lens one at a time in the designated compartment of the lens case.

22. Always empty, clean and rinse lens storage case and allow it to air dry when lens is not being stored.
23. When the lens case is used rinse the case, place the clean lens one by one and refill it with fresh lens storage solution.
24. Lens case should be replaced at regular intervals or as recommended.
25. Never boil your lens case as it may alter physical and chemical properties of the lens case material.
26. It is highly recommended to remove the lenses at least an hour before bedtime.
27. Never ever sleep with lens in the eye.
28. Do not use waterproof eye make-up as it may cause dryness.
29. In case lens drops on the floor or table don't drag to lift. Use suction holder or two pieces of paper to lift it up.

Wearing Schedule

Cleanliness and hygiene of the tear reservoir (fluid between the Scleral Lens and the cornea) is the most important aspect to achieve comfortable wearing hours.

Even though the Lens material being highly breathable (Boston XO2) it is advised initially not to exceed the wearing time beyond 2 hours at a stretch to ensure a hygienic reservoir. Despite being one of the most comfortable Lens geometry, it is advised to wear the Scleral Lens as per the guidance provided by your eye care practitioner or refer the instructions given below;

DAY 1	**2 Hours**	**(Three times in a day)**	**Total 6 Hours**
DAY 2	**2 Hours**	**(Four times in a day)**	**Total 8 Hours**
DAY 3	**2 Hours**	**(Five times in a day)**	**Total 10 Hours**
DAY 4	**2 Hours**	**(Five times in a day)**	**Total 10 Hours**
DAY 5	**3 Hours**	**(Five times in a day)**	**Total 15 Hours**

After successful wear for 5 days, and gaining more confidence with wearing the Lens without any lid interaction or air bubble, the wearing time can be increased to 6 hours in a day. After 6-8 months, you can increase it to 10-12 hours.

⚠ Caution : It is strongly recommended not to wear the Lens six (6) hours at a stretch. After six (6) hours remove the lens, clean as per the cleaning procedure and then re insert.

ProSLINE

This is strongly recommended to be used to fill the tear reservoir, while using McAsfeer Mini Scleral lens. Pro Saline is a preservative free 0.9% buffered saline solution with 7.2 pH which is same as natural tears. Pro Saline enhances lens performance on the eye and prevents early fogging between the lens and the cornea.



CAUTION : Pro Saline solution is sterile prior to opening as it contains no preservatives. It will not remain sterile indefinitely after opening and should be used within 4-5 days. Do not touch the nozel tip with any surface to avoid contamination and to maintain sterility. Never to be used as an eye drop.



Cleans

LUBRICATES

DISINFECTS

RINSES

STORES

REMOVES TEAR RESIDUE

Available in 80 ml & 140 ml

gpfresh™

One Step Multi-Action Solution For
Scleral & Rigid Contact Lenses

EXCELLENT PERFORMANCE

pH BALANCED TO NATURAL TEARS

FDA

APPROVED LENS MATERIAL

Boston XO$_2$

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