Product Portfolio
Sulcoflex® Pseudophakic Supplementary IOLs
Sulcoflex Pseudophakic Supplementary IOLs

For when compromise is not an option

As a cataract and refractive surgeon, achieving the best possible visual results for your patients is paramount. But sometimes, even the best patient selection and most accurate work can result in refractive surprises.

Wouldn’t it be great to have a lens that offers you more than one shot? An option that is reversible?

Rayner Sulcoflex Pseudophakic Supplementary IOLs are designed to be implanted in the ciliary sulcus to correct any residual post-operative refractive errors following the implantation of a conventional IOL in the capsular bag.

Sulcoflex Aspheric (653L)
Sulcoflex Aspheric IOLs are indicated for the correction of any residual pseudophakic ametropia. With the Standard range from –5.0 D to +5.0 D and the Premium range extending from –10.0 D to +10.0 D, Sulcoflex Aspheric IOLs offer an effective option for the resolution of post-operative myopic or hypermetropic refractive surprises.

Sulcoflex Multifocal (653F)
Sulcoflex Multifocal IOLs are indicated for the correction of pseudophakic presbyopia, thereby significantly reducing the need for additional near correction by the use of spectacles or contact lenses. Based on Rayner’s refractive aspheric optic technology, near vision is achieved by the addition of +3.5 D at the IOL plane in a far dominant format.

Sulcoflex Toric (653T)
Sulcoflex Toric IOLs are indicated for the correction of any residual pseudophakic corneal astigmatism. The implantation of a Sulcoflex Toric IOL offers a precise and reliable alternative to corneal surgery and is available in a range of sphere/cylinder combinations. The unique undulating haptic design improves rotational stability leading to optimal toric corrections.

Sulcoflex Multifocal Toric (653Z)
Sulcoflex Multifocal Toric IOLs are indicated for the correction of pseudophakic presbyopia in combination with residual corneal astigmatism. The refractive aspheric optic offers a near addition of +3.5 D at the IOL plane in a far dominant format and a toric correction of +1.0 D, +2.0 D and +3.0 D cylinders. The undulating haptic design improves rotational stability for precise optimal corrections.
Sulcoflex Pseudophakic Supplementary IOLs

- Large 14.0mm overall length with undulating haptics for stable fixation in the ciliary sulcus
- Large, 6.5mm round-edged optic to reduce the risk of pupillary block and photic effects
- Aberration-neutral Aspheric Optics
  - Improved contrast sensitivity and functional visual acuity*
- Rayacryl Material for
  - Exceptional uveal biocompatibility
  - Superb optical clarity – no vacuoles or glistenings
- Posterior concave surface to avoid contact with the primary IOL
- Posterior haptic angulation to avoid contact with the iris and avoid iris chafe

* when compared to spherical optics
Innovative Design

Hydrophilic acrylic injectable IOLs with undulating haptics and posterior haptic angulation

Rayner Sulcoflex Pseudophakic Supplementary IOLs are designed to be implanted in the ciliary sulcus to correct any residual post-operative refractive errors following the primary implantation of a conventional IOL in the capsular bag.

* An iridotomy/iridectomy may be necessary.

Indications

- Post-surgical ametropia
- Enhancement of the refractive result after RLE or PRELEX
- Enhancement of near/far vision
- Correction of pseudophakic presbyopia
- Correction of residual pseudophakic astigmatism
- Extreme myopia or hyperopia
- Patients experiencing a dynamic change of refraction
- For the refractive correction of patients without biometry readings

Avoids the potential problems of conventional “piggy-back” IOLs

- Unique posterior concave surface, minimises the possibility of interaction with the primary IOL
- Reduced likelihood of unwanted photopic effects
- Reduced refractive error with hyperopic defocus

The Rayner Single Use Soft-Tipped Injector

- Convenience
- Safety
- Cost effectiveness
- Controlled and safe unfolding of the IOL within the eye

Reduced surgical risk associated with IOL exchange

- Less surgical trauma than primary IOL exchange
- Avoids sometimes difficult removal of fibrosed, fixed primary implant.

Power Availability

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Model Number</th>
<th>Power Range</th>
<th>Increments</th>
<th>Addition</th>
<th>Optic Diameter</th>
<th>Overall Length</th>
<th>Haptic Angulation</th>
<th>Optic Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulcoflex Aspheric</td>
<td>653L</td>
<td>-5.0 to -0.5 D +0.5 to +5.0 D</td>
<td>0.5 D</td>
<td>0.5 D</td>
<td>6.50mm</td>
<td>14.00mm</td>
<td>10°</td>
<td>Anterior convex, posterior concave</td>
</tr>
<tr>
<td>Made to Order</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulcoflex Multifocal</td>
<td>653F</td>
<td>-10.0 to -5.5 D +5.5 to +10.0 D</td>
<td>0.5 D</td>
<td>0.5 D</td>
<td>6.50mm</td>
<td>14.00mm</td>
<td>10°</td>
<td>Anterior convex, posterior concave</td>
</tr>
<tr>
<td>Made to Order</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulcoflex Toric</td>
<td>653T</td>
<td>-3.0 to +3.0 D +3.5 to +7.0 D</td>
<td>0.5 D</td>
<td>0.5 D</td>
<td>6.50mm</td>
<td>14.00mm</td>
<td>10°</td>
<td>Anterior convex, posterior concave</td>
</tr>
<tr>
<td>Made to Order</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Adequate iris-IOL and IOL-IOL distance. ** Unusual or irregular anatomy of the ciliary sulcus may cause a post-operative rotational displacement of the IOL.

Large 6.5mm round-edged optic

- Optimal visual outcomes
- Reduced risk of optic-iris capture
- Minimal edge glare and associated dysphotopsia

Large 14.0mm Overall Length with Undulating Haptics

- Unique undulating round edge haptic design with 10° angulation
- Excellent centration and rotational stability
- Reduced risk of uveal contact and abrasion
- Reduced Pigment Dispersion Syndrome
- Smooth undulating haptics to minimise the risk of adverse tissue reaction in the sulcus.

Large 6.5mm round-edged optic

- Optimal visual outcomes
- Reduced risk of optic-iris capture
- Minimal edge glare and associated dysphotopsia

Large 14.0mm Overall Length with Undulating Haptics

- Unique undulating round edge haptic design with 10° angulation
- Excellent centration and rotational stability
- Reduced risk of uveal contact and abrasion
- Reduced Pigment Dispersion Syndrome
- Smooth undulating haptics to minimise the risk of adverse tissue reaction in the sulcus.

Reduced surgical risk associated with IOL exchange

- Less surgical trauma than primary IOL exchange
- Avoids sometimes difficult removal of fibrosed, fixed primary implant.

Avoids the potential problems of conventional “piggy-back” IOLs

- Unique posterior concave surface, minimises the possibility of interaction with the primary IOL
- Reduced likelihood of unwanted photopic effects
- Reduced refractive error with hyperopic defocus

The Rayner Single Use Soft-Tipped Injector

- Convenience
- Safety
- Cost effectiveness
- Controlled and safe unfolding of the IOL within the eye.

Reduced surgical risk associated with IOL exchange

- Less surgical trauma than primary IOL exchange
- Avoids sometimes difficult removal of fibrosed, fixed primary implant.

Avoids the potential problems of conventional “piggy-back” IOLs

- Unique posterior concave surface, minimises the possibility of interaction with the primary IOL
- Reduced likelihood of unwanted photopic effects
- Reduced refractive error with hyperopic defocus.

The Rayner Single Use Soft-Tipped Injector

- Convenience
- Safety
- Cost effectiveness
- Controlled and safe unfolding of the IOL within the eye.

Reduced surgical risk associated with IOL exchange

- Less surgical trauma than primary IOL exchange
- Avoids sometimes difficult removal of fibrosed, fixed primary implant.

Avoids the potential problems of conventional “piggy-back” IOLs

- Unique posterior concave surface, minimises the possibility of interaction with the primary IOL
- Reduced likelihood of unwanted photopic effects
- Reduced refractive error with hyperopic defocus.

The Rayner Single Use Soft-Tipped Injector

- Convenience
- Safety
- Cost effectiveness
- Controlled and safe unfolding of the IOL within the eye.

Reduced surgical risk associated with IOL exchange

- Less surgical trauma than primary IOL exchange
- Avoids sometimes difficult removal of fibrosed, fixed primary implant.

Avoids the potential problems of conventional “piggy-back” IOLs

- Unique posterior concave surface, minimises the possibility of interaction with the primary IOL
- Reduced likelihood of unwanted photopic effects
- Reduced refractive error with hyperopic defocus.

The Rayner Single Use Soft-Tipped Injector

- Convenience
- Safety
- Cost effectiveness
- Controlled and safe unfolding of the IOL within the eye.

Reduced surgical risk associated with IOL exchange

- Less surgical trauma than primary IOL exchange
- Avoids sometimes difficult removal of fibrosed, fixed primary implant.

Avoids the potential problems of conventional “piggy-back” IOLs

- Unique posterior concave surface, minimises the possibility of interaction with the primary IOL
- Reduced likelihood of unwanted photopic effects
- Reduced refractive error with hyperopic defocus.

The Rayner Single Use Soft-Tipped Injector

- Convenience
- Safety
- Cost effectiveness
- Controlled and safe unfolding of the IOL within the eye.

Reduced surgical risk associated with IOL exchange

- Less surgical trauma than primary IOL exchange
- Avoids sometimes difficult removal of fibrosed, fixed primary implant.

Avoids the potential problems of conventional “piggy-back” IOLs

- Unique posterior concave surface, minimises the possibility of interaction with the primary IOL
- Reduced likelihood of unwanted photopic effects
- Reduced refractive error with hyperopic defocus.

The Rayner Single Use Soft-Tipped Injector

- Convenience
- Safety
- Cost effectiveness
- Controlled and safe unfolding of the IOL within the eye.

Reduced surgical risk associated with IOL exchange

- Less surgical trauma than primary IOL exchange
- Avoids sometimes difficult removal of fibrosed, fixed primary implant.

Avoids the potential problems of conventional “piggy-back” IOLs

- Unique posterior concave surface, minimises the possibility of interaction with the primary IOL
- Reduced likelihood of unwanted photopic effects
- Reduced refractive error with hyperopic defocus.

The Rayner Single Use Soft-Tipped Injector

- Convenience
- Safety
- Cost effectiveness
- Controlled and safe unfolding of the IOL within the eye.

Reduced surgical risk associated with IOL exchange

- Less surgical trauma than primary IOL exchange
- Avoids sometimes difficult removal of fibrosed, fixed primary implant.

Avoids the potential problems of conventional “piggy-back” IOLs

- Unique posterior concave surface, minimises the possibility of interaction with the primary IOL
- Reduced likelihood of unwanted photopic effects
- Reduced refractive error with hyperopic defocus.

The Rayner Single Use Soft-Tipped Injector

- Convenience
- Safety
- Cost effectiveness
- Controlled and safe unfolding of the IOL within the eye.

Reduced surgical risk associated with IOL exchange

- Less surgical trauma than primary IOL exchange
- Avoids sometimes difficult removal of fibrosed, fixed primary implant.

Avoids the potential problems of conventional “piggy-back” IOLs

- Unique posterior concave surface, minimises the possibility of interaction with the primary IOL
- Reduced likelihood of unwanted photopic effects
- Reduced refractive error with hyperopic defocus.

The Rayner Single Use Soft-Tipped Injector

- Convenience
- Safety
- Cost effectiveness
- Controlled and safe unfolding of the IOL within the eye.

Reduced surgical risk associated with IOL exchange

- Less surgical trauma than primary IOL exchange
- Avoids sometimes difficult removal of fibrosed, fixed primary implant.

Avoids the potential problems of conventional “piggy-back” IOLs

- Unique posterior concave surface, minimises the possibility of interaction with the primary IOL
- Reduced likelihood of unwanted photopic effects
- Reduced refractive error with hyperopic defocus.

The Rayner Single Use Soft-Tipped Injector

- Convenience
- Safety
- Cost effectiveness
- Controlled and safe unfolding of the IOL within the eye.

Reduced surgical risk associated with IOL exchange

- Less surgical trauma than primary IOL exchange
- Avoids sometimes difficult removal of fibrosed, fixed primary implant.

Avoids the potential problems of conventional “piggy-back” IOLs

- Unique posterior concave surface, minimises the possibility of interaction with the primary IOL
- Reduced likelihood of unwanted photopic effects
- Reduced refractive error with hyperopic defocus.

The Rayner Single Use Soft-Tipped Injector

- Convenience
- Safety
- Cost effectiveness
- Controlled and safe unfolding of the IOL within the eye.

Reduced surgical risk associated with IOL exchange

- Less surgical trauma than primary IOL exchange
- Avoids sometimes difficult removal of fibrosed, fixed primary implant.

Avoids the potential problems of conventional “piggy-back” IOLs

- Unique posterior concave surface, minimises the possibility of interaction with the primary IOL
- Reduced likelihood of unwanted photopic effects
- Reduced refractive error with hyperopic defocus.

The Rayner Single Use Soft-Tipped Injector

- Convenience
- Safety
- Cost effectiveness
- Controlled and safe unfolding of the IOL within the eye.

Reduced surgical risk associated with IOL exchange

- Less surgical trauma than primary IOL exchange
- Avoids sometimes difficult removal of fibrosed, fixed primary implant.

Avoids the potential problems of conventional “piggy-back” IOLs

- Unique posterior concave surface, minimises the possibility of interaction with the primary IOL
- Reduced likelihood of unwanted photopic effects
- Reduced refractive error with hyperopic defocus.

The Rayner Single Use Soft-Tipped Injector

- Convenience
- Safety
- Cost effectiveness
- Controlled and safe unfolding of the IOL within the eye.

Reduced surgical risk associated with IOL exchange

- Less surgical trauma than primary IOL exchange
- Avoids sometimes difficult removal of fibrosed, fixed primary implant.

Avoids the potential problems of conventional “piggy-back” IOLs

- Unique posterior concave surface, minimises the possibility of interaction with the primary IOL
- Reduced likelihood of unwanted photopic effects
- Reduced refractive error with hyperopic defocus.

The Rayner Single Use Soft-Tipped Injector

- Convenience
- Safety
- Cost effectiveness
- Controlled and safe unfolding of the IOL within the eye.

Reduced surgical risk associated with IOL exchange

- Less surgical trauma than primary IOL exchange
- Avoids sometimes difficult removal of fibrosed, fixed primary implant.

Avoids the potential problems of conventional “piggy-back” IOLs

- Unique posterior concave surface, minimises the possibility of interaction with the primary IOL
- Reduced likelihood of unwanted photopic effects
- Reduced refractive error with hyperopic defocus.

The Rayner Single Use Soft-Tipped Injector

- Convenience
- Safety
- Cost effectiveness
- Controlled and safe unfolding of the IOL within the eye.
Ordering

Sulcoflex Aspheric (653L)  
Sulcoflex Multifocal (653F)

Sulcoflex Toric (653T)  
Sulcoflex Multifocal Toric (653Z)

References


Note: Sulcoflex® IOLs are not available for sale in the US. Professor Michael Amon (Vienna, Austria) is the inventor of Sulcoflex Pseudophakic Supplementary IOLs. Sulcoflex® patent pending. 10/13 Copyright Rayner Intraocular Lenses Limited. Unauthorised reproduction prohibited. EC201362.