When considering a solution for presbyopia, what is important to you?

- Exceptional light usage
- Ease of use
- Efficacy & patient outcomes
- Versatility to treat a wider range of patients
- An adjustable solution for peace of mind
- Increased accuracy with quarter dioptr steps

With the Rayner Sulcoflex platform, you can expect the following:

**Predictability**
- Proven to provide better centration compared to capsular bag multifocal IOLs
- Predictable refractive outcomes; high visual acuity
- High patient satisfaction
- Low complication rate
- Stable long-term refractive results
- Reduced surgical risk associated with IOL exchange
- Lens surgical trauma compared to primary IOL exchange
- Avoids sometimes difficult removal of fibrosed, fixed primary implant
- Allows for implantation reversibility

“...The world’s first trifocal supplementary IOL may be used in routine cataract procedures (DUET) or in pseudophakic for presbyopic correction. This IOL concept allows the surgeon to adjust the optical system to any unpredictable situation in the future.”

Michael Amon MD, Professor and Head of the Department of Ophthalmology at the Academic Teaching Hospital of St. John, Vienna, Austria

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**Sulcoflex Trifocal: Delivery**

Rayner recommends and provides the Medicel Accuject 1.8-1P (LP604540) for use with the Sulcoflex Trifocal IOL.

**Model Name:** Sulcoflex® Trifocal

**Model Number:** IOL703F

**Power Range:**
-8.5 D near add and +1.75 D intermediate add at the IOL plane

**Aspheric Trifocal IOL**

- **Material:** Single-piece Rayacryl® hydrophilic acrylic
- **UV Protection:** Benzophenone UV absorbing agent
- **UV Light Transmission:** UV 10% cut-off at 380 nm
- **Refractive Index:** 1.46
- **Overall Diameter:** 14.00 mm
- **Optic Diameter:** 6.50 mm
- **Optic Shape:** Anterior convex, posterior concave
- **Asphericity:** Aberration-neutral technology
- **Haptic Angulation:** 10° posterior angulation
- **Haptic style:** Undulating and rounded C-loop haptics
- **Estimated constant for power calculation:** Expected lens position = 5.5 mm

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**Sulcoflex® Trifocal Supplementary IOL**

When expectations and outcomes align

Discover more about the Sulcoflex® Trifocal, visit rayner.com/sulcoflextrifocal
Features and benefits of the Sulcoflex® Trifocal IOL

Improved visual outcomes designed for less pupil dependency
Sulcoflex® Trifocal has fewer rings on the optic surface than many trifocal IOLs for reduced potential visual disturbances and improved light vision.

Large, 6.5mm round-edged optic, designed to:
- Reduce the risk of pupil block
- Reduce risk of optic iris capture
- Minimise edge glare and associated dysphotopsia

Optic Surface Features:
- 16 diffractive rings/steps
- 4.5mm diffractive trifocal zone
- ≤4.0mm monofocal distance zone
- Smooth anterior surface to minimise irisMTUR

Sulcoflex Trifocal has been designed to offer the following patient benefits:
- Reduced visual disturbances
- Developed to be less dependent on pupil size or lighting conditions
- Improves distance vision in mesopic conditions

Optimised diffractive design
Sulcoflex® Trifocal uses the Rayner patented diffractive step Trifocal technology which has been designed in partnership with a leading European technology institute. This new design of diffractive technology is the most advanced optic in our history and possibly the most advanced in the industry.

The diffractive surface is a construct of two profiles to form our patented design:

- Larger, 14.0mm overall length with undulating haptics
- Designed for stable fixation in the ciliary sulcus
- Unique undulating diffractive optic design with IOL material
- Excellent centration stability compared to capsular bag fixated multifocal IOLs
- Reduced risk of uveal contact and abrasion
- Reduced pigment Dispersion Syndrome
- Smooth undulating haptics to minimise the risk of anterior tissue reaction in the sulcus
- Rayacryl Material for:
  - Good uveal biocompatibility
  - Superb optical clarity – no vacuoles or glistenings

Large 6.5mm round-edged optic

Sulcoflex® Trifocal

Sulcoflex Trifocal is designed with:

- +1.75 D intermediate add
- +3.50 D near add

Our patented diffractive step Trifocal technology reduces light loss to only 11%.
- 89% of light transmitted to the retina with a pupil of 3 mm
- Half the light allocated for distance
- Remaining light divided between near and intermediate vision
- Light Energy Split at 3.0mm pupil
  - 52% Distance
  - 22% Intermediate
  - 26% Near

Comfortable transition from near to distant activities
Sulcoflex® Trifocal improves intermediate visual acuity enabling patients to feel more comfortable transitioning from near to distant activities.

- Sulcoflex® Trifocal is designed with:
  - +3.50 D near add
  - +1.75 D intermediate add
  - +37.5 cm reading plane
  - 75.0 cm reading plane

Designed to avoid 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

*Contraindicated for implantation into eyes with multifocal capsular bag IOLs.

Rayner Sulcoflex® Trifocal: An elegant solution for the correction of presbyopia

The Situation
As a cataract and refractive surgeon, achieving the best possible visual results for your patients is paramount. However, challenging patients may expect more, and demand a chance of being spectacle free.

The Solution
The Sulcoflex® Trifocal supplementary IOL is an adjustable option which allows you to treat an even wider range of patients for presbyopia, to meet both their visual and lifestyle needs.

A proven patented optic design for comfortable transition from near to distant visual ranges

Rayner manufactured the world’s first IOL in 1949, and has remained at the forefront of innovation for nearly 70 years, focused on providing you and your patients with the best IOLs - always driven by science to improve patient outcomes and safety.

Rayner is the only manufacturer of IOLs in the UK, with its state of the art manufacturing plant and Global Headquarters on the South Coast of England. Superseding Rayner’s family of IOL systems is a full spectrum of OVDs, the RayPRO™ patient outcomes app, as well as a range of tear film and pharmaceutical eye care products.

We’ve been innovating IOLs longer than anyone else.