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 dioptre 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 surgery before primary IOL exchange
- Avoids difficult removal of fibrosed, fixed primary implant

**Applicability**

- Allows for implantation reversibility

"The world's first trifocal supplementary IOL may be used in routine cataract-procedures (DUET) or in pseudophakes 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 Medical Accuject 1.8-1P (LP604540) for use with the Sulcoflex Trifocal IOL.

**Material:** Single-piece Rayacryl® hydrophilic acrylic

**Power Range:**
- +3.5 D near add and +1.75 D intermediate add at the IOL plane
- -3.0 D to +3.0 D (increments 0.5 D)
- -1.0 D to +1.0 D (increments 0.25 D)

**Material:** Single-piece Rayacryl® hydrophilic acrylic

**Water Content:** 26% in equilibrium

**UV Protection:** Benzophenone UV absorbing agent

**UV Light Transmission:** UV 10% cut-off is 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 = 4.5 mm

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

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 visual light transmission.

- Large, 6.50 mm round-edged optic, designed to:
  - Reduce the risk of pupillary block and pupil distortion
  - Reduce risk of optic-iris capture
  - Minimise edge glare and associated dysphotopsias

- Optical Surface Features:
  - 16 diffractive rings/steps
  - 4.5 mm diffractive trifocal zone
  - +1.5 mm monofocal distance zone
  - Smooth anterior surface to minimise eye hairs

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 profile that 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:

- Designed for stabilised flatness in the corneal surface
- Unique undulating diffractive design with IOL inclination
- Excellent centration stability compared to capsular bag fixed multifocal IOLs
- Reduced risk of unwanted contact and abrasion
- Reduced pigment dispersion syndrome
- Smooth undulating edges to minimise the risk of intraocular reactions in the sulcus

Rayner Material for:
- Good uveal biocompatibility
- Superior optical clarity – no vacuoles or glistenings

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
- Remains light divided between near and intermediate vision
- Light Energy Split at 3.0 mm 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

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

- 75.0 cm reading plane

Comfortable distance vision

Sulcoflex Trifocal has fewer rings on the optic surface than many trifocal IOLs for reduced potential visual disturbances and improved night vision.

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.

Rayner is 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.

We’ve been innovating IOLs longer than anyone else.