

Visual ability in patients with bilateral implanted RayOne[®] Trifocal RAO603F

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Purpose: The objective of this study is to determine postoperative visual ability and satisfaction of patient and surgeon in eyes with bilateral implanted RayOne® Trifocal RA0603F IOL.

Setting/Venue: Hospital of St. John of God, Vienna, Austria

Methods: Subjects desiring spectacle independence underwent bilateral refractive lens exchange using the RayOne® Trifocal RA0603F IOL (Rayner, U.K.) with six-month follow-up. Spectacle-corrected and uncorrected visual acuity at far, intermediate, and near distances were assessed. Patient satisfaction and visual symptoms were reported on a scale (0-10).

RayOne® Trifocal RAO603F



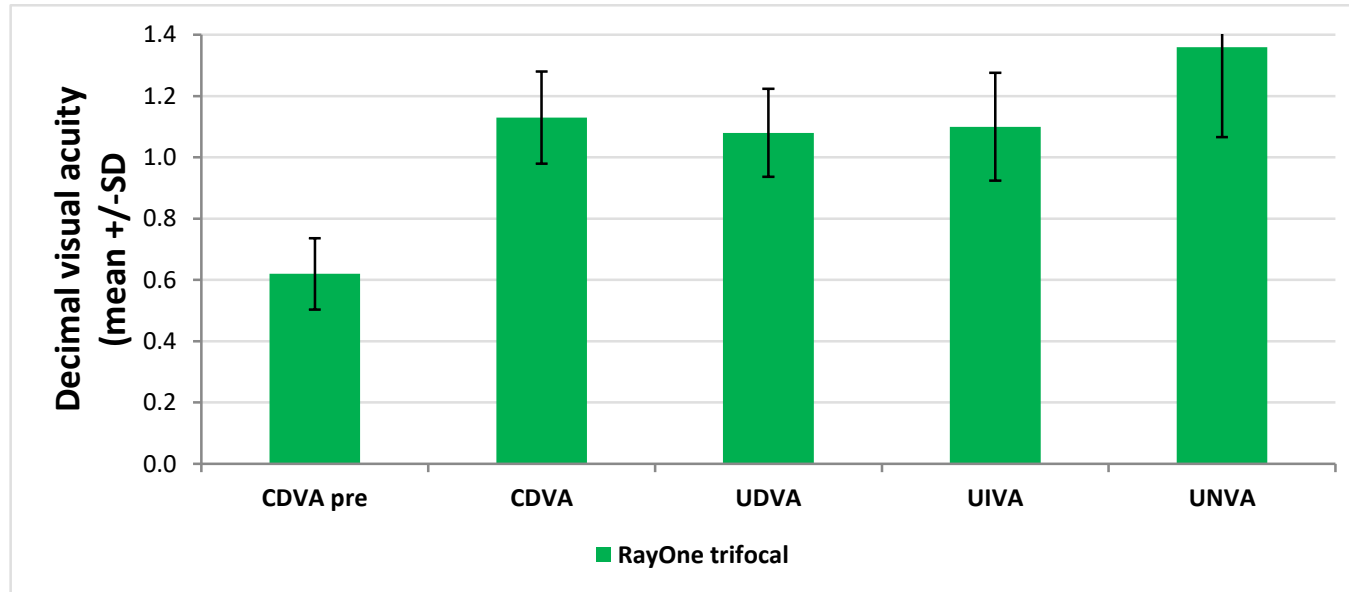
Model Name:	RayOne® Trifocal
Model Number:	RAO603F
Power Range:	0.0 D to +30.0 D (increments 0.5 D) Trifocal, diffractive, +3.5 D near add and +1.75 D intermediate add at the IOL plane

Material:	Single piece hydrophilic acrylic
Water Content:	26% in equilibrium
Overall Length:	12.50 mm
Optic Diameter:	6.00 mm
Optic Shape:	Biconvex (positive powers)
Asphericity:	Aberration-neutral technology
Optic Edge Design:	square edge
Haptic Angulation:	0°, uniplanar
Haptic Style:	Closed loop

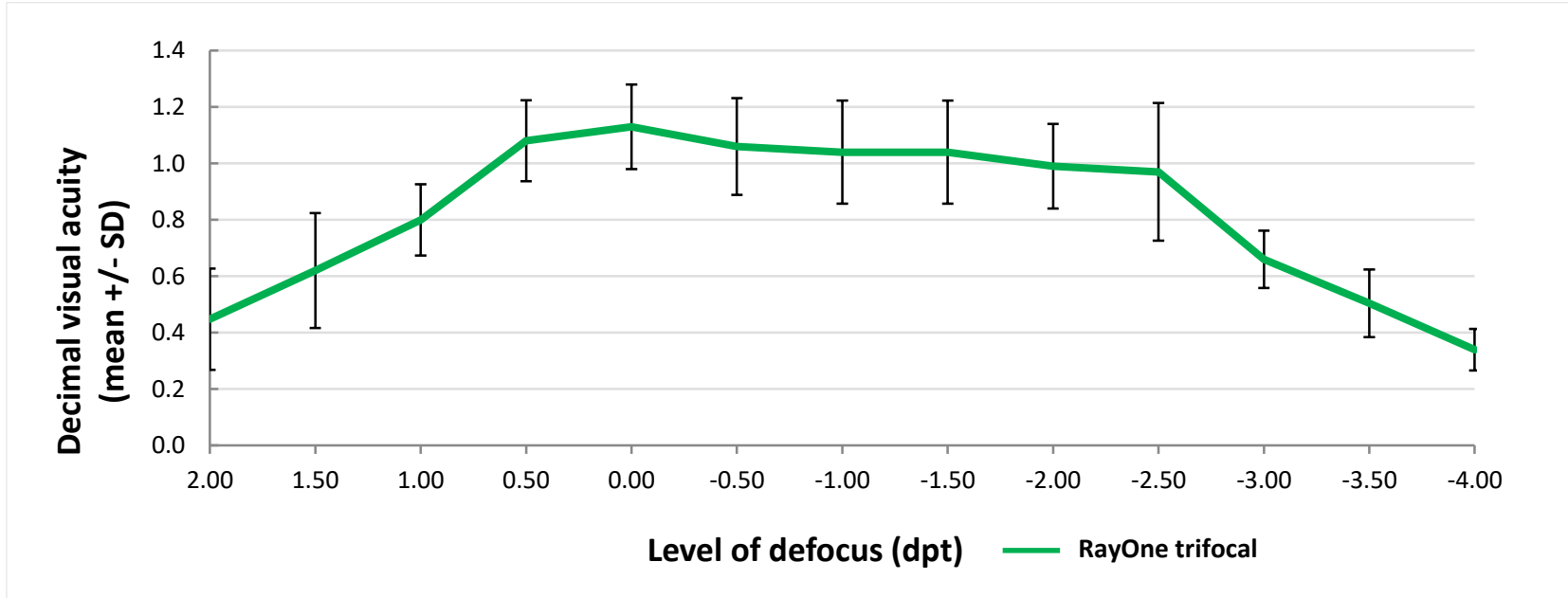
Results

- Fourteen eyes of 7 patients with mean age 68.1 ± 6.0 years were included.
- One month postoperative, the average UCDVA was -0.04 ± 0.07 logMAR, UCIVA was -0.05 ± 0.08 logMAR, and UCNVA was -0.14 ± 0.10 logMAR.
- Six out of 7 patients achieved full spectacle independence across all distances.
- Visual symptoms were mild (<3) for halo, glare, and starburst. Average overall patient satisfaction was 9/10.
- No adverse events were reported.

Results: Visual Acuity



Results: Binocular Defocus Curve



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Conclusion:

Implantation of the RayOne® Trifocal RAO603F IOL safely and effectively provides spectacle independence across a broad range of distances.

