

Comparison of visual performance of 2 diffractive trifocal intraocular lenses: a randomised controlled trial

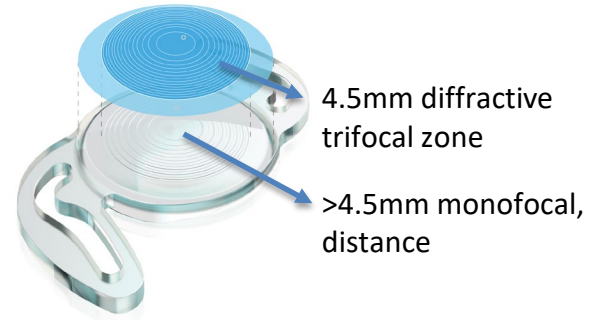
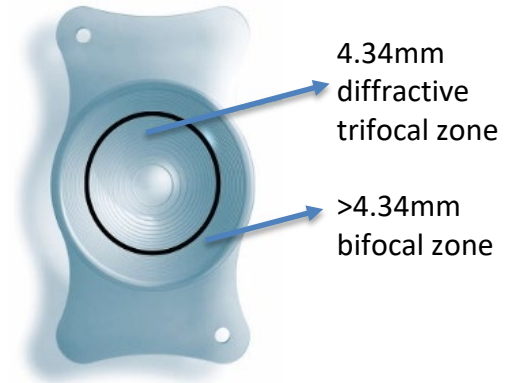
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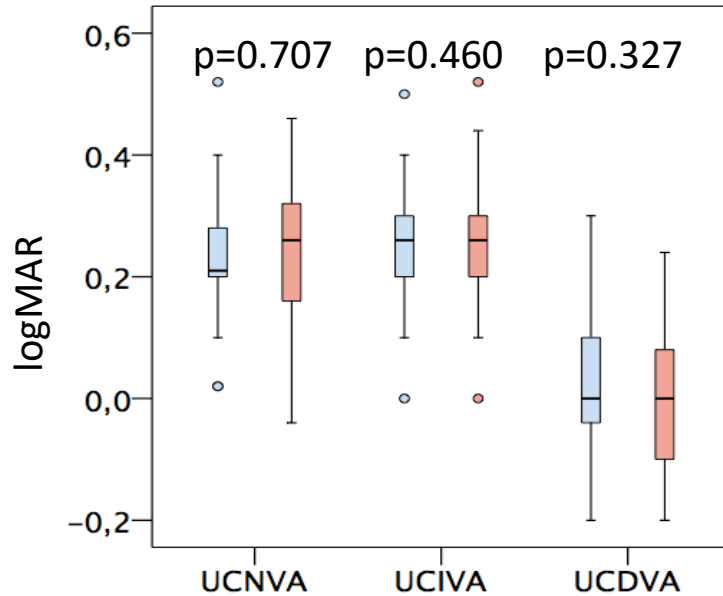
Personal financial interest in products: None

Study design

- randomized, double-masked trial
- 88 eyes of 44 patients
 - randomized assignment of IOL
 - one eye AT LISA tri 839 MP (Zeiss)
 - other eye RayOne Trifocal (Rayner)



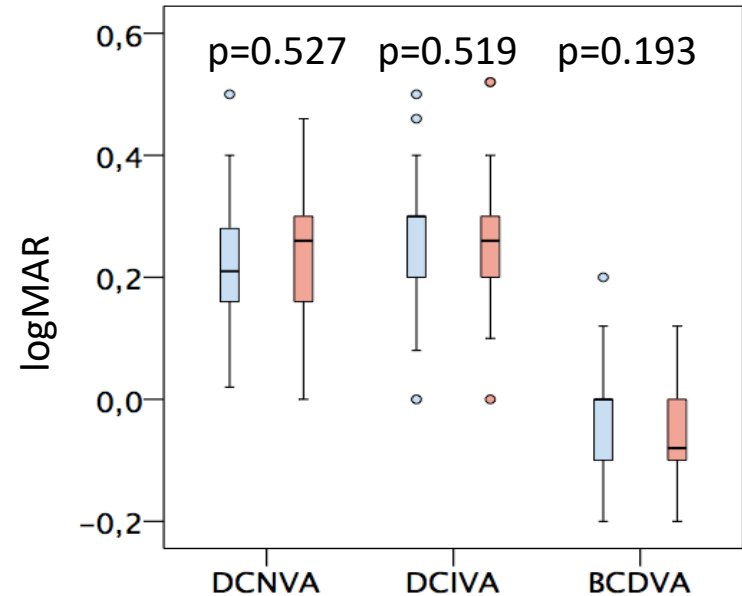
Uncorrected VA



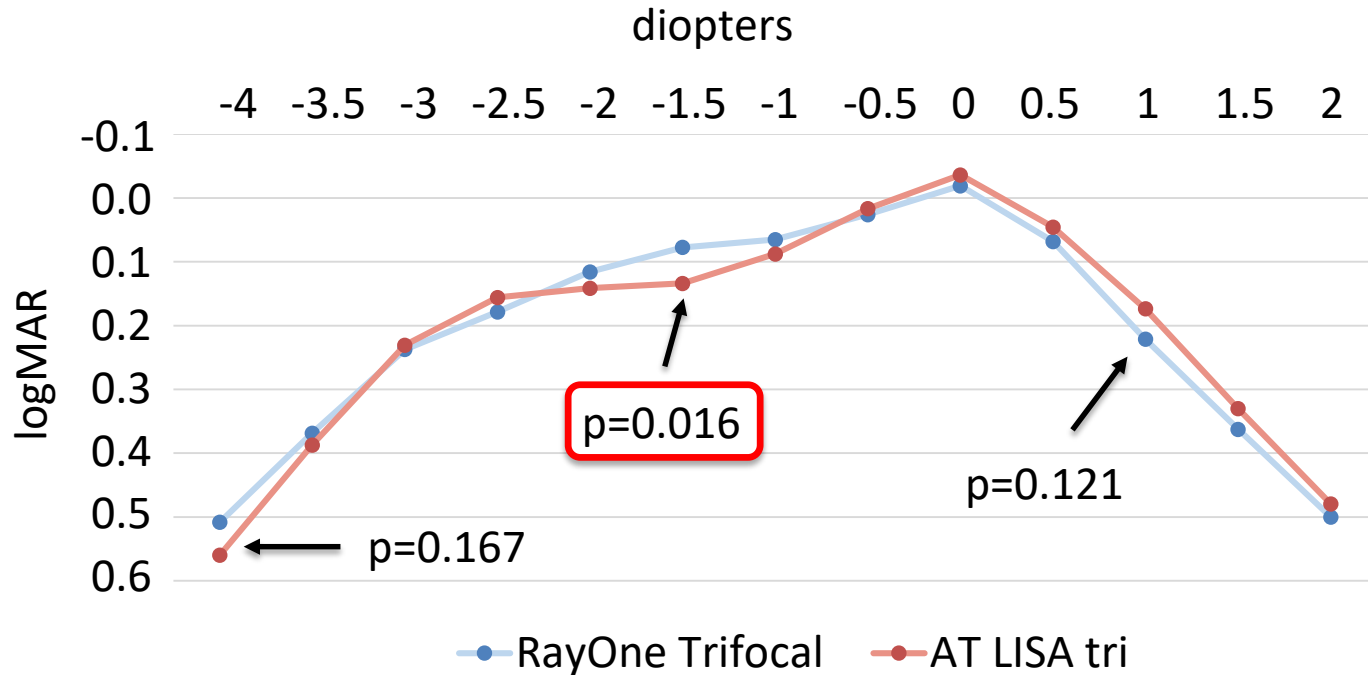
n = 40

Ray One Trifocal
AT LISA tri

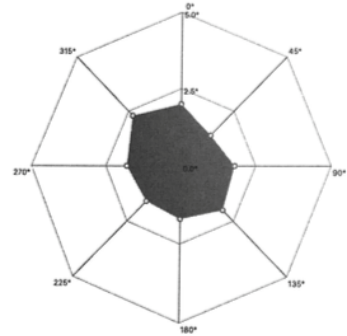
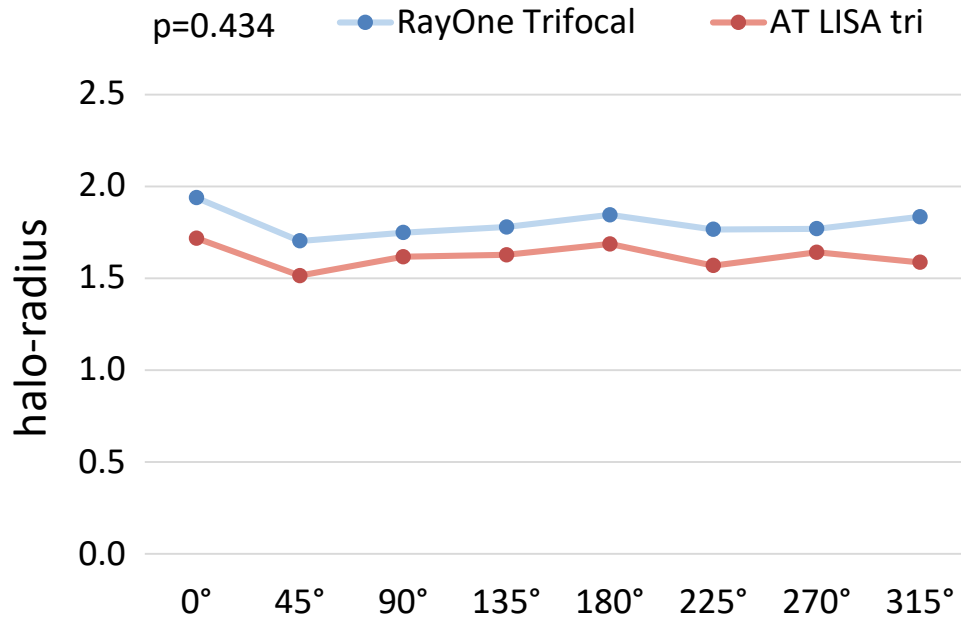
Distance corrected VA



Defocus curve

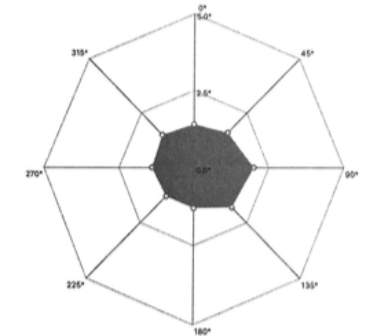


Aston Halometer



Angle(°)	Radii(DOV°)
0.00	2.00
45.00	1.40
90.00	1.80
135.00	2.00
180.00	1.70
225.00	1.60
270.00	1.80
315.00	2.30

TRI018 OS
RayOne Trifocal



Angle(°)	Radii(DOV°)
0.00	1.40
45.00	1.60
90.00	2.00
135.00	1.80
180.00	1.30
225.00	1.30
270.00	1.40
315.00	1.50

TRI018 OD
AT LISA tri

Conclusions

RayOne Trifocal showed...

- slightly better (n.s.) UCNVA and DCNVA
- significantly better VA in intermediate zone in defocus curve
- no significance concerning halos

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