

HANITA
IBERICA

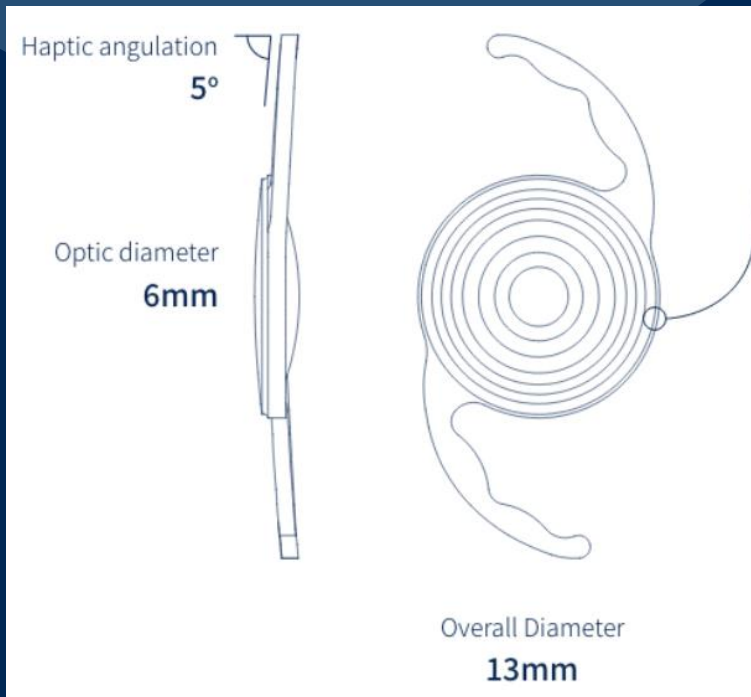
INTENSITY

ARI 2023



Intensity

Redefinición de La Visión



Diseño Óptico: Asférico Multifocal Difractivo DLU

Dioptrías

10.0 a +30.0 (0.5D)

Material: Acrílico Hidrofílico con Filtro Violeta Claro

Índice de Refracción: 1.46

A-Constant: 118.4

Intensity

Redefinición de La Visión



Nueva generación de LIO con Máxima Utilización de la Intensidad de Luz para una visión clara en todo el rango de visión funcional.

$$\int \vec{\nabla} \times (A) = \phi$$

DLU
Tecnología de Utilización Dinámica de la Luz basada en algoritmo interactivo junto con la función de mérito de Hanita

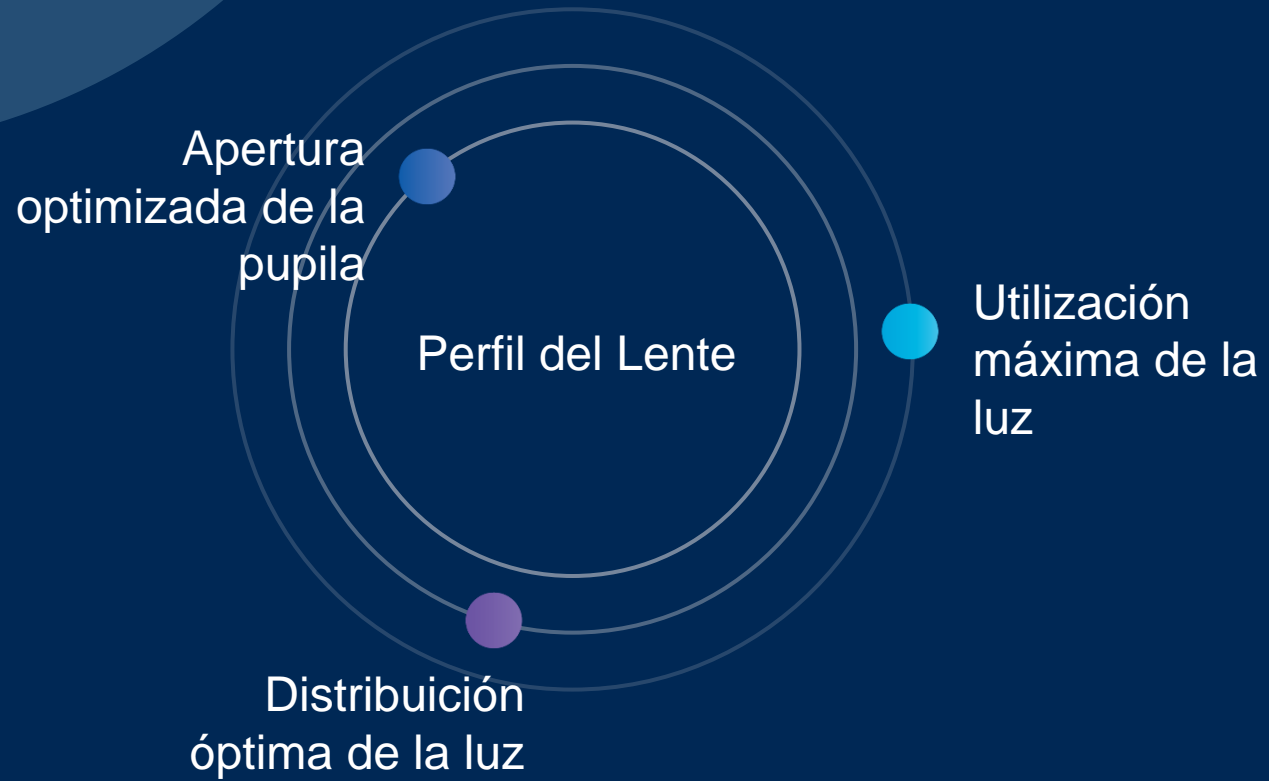


Distribución suave y simétrica de 5 focos en 12 escalones de diferentes alturas

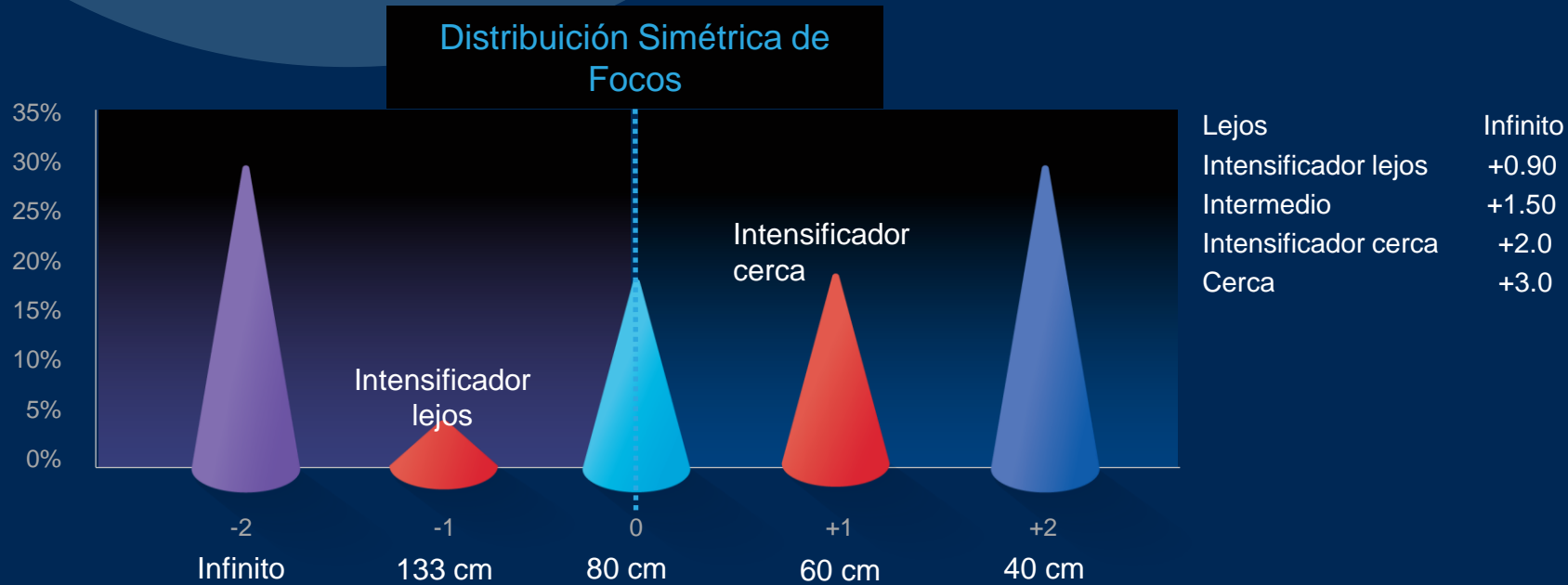


Apertura Optimizada de la Pupila

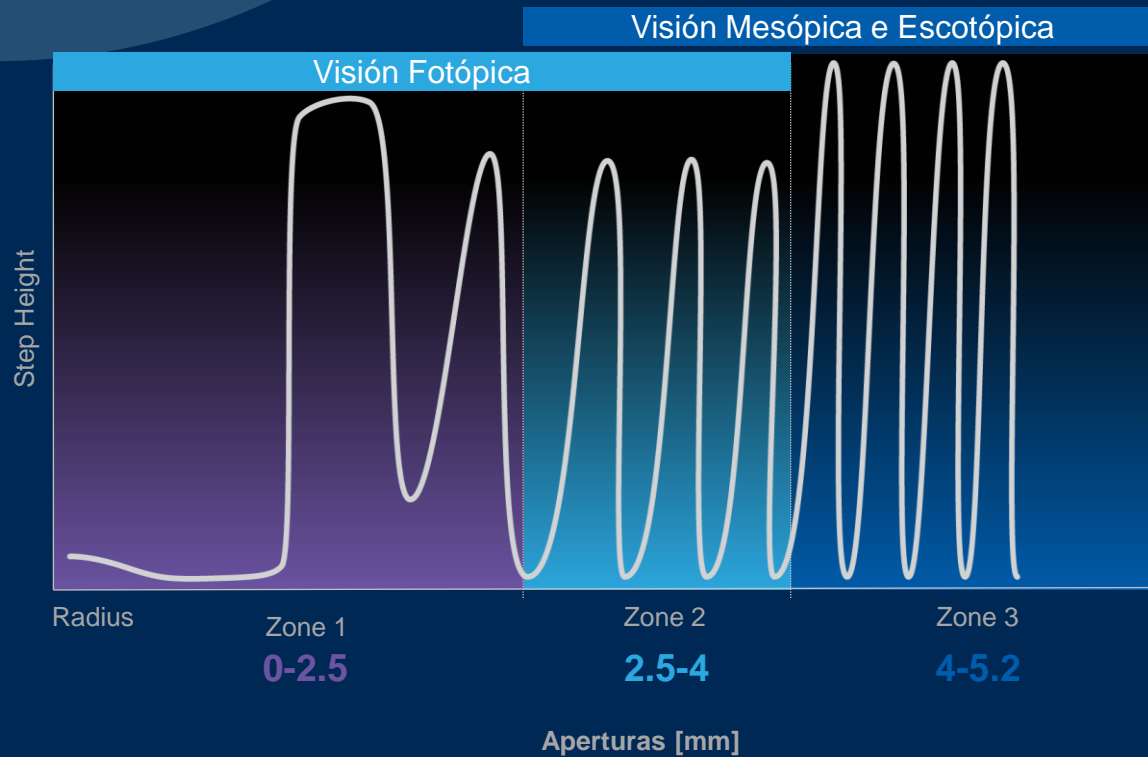
Perfil del Lente



Distribución Óptima de la Luz



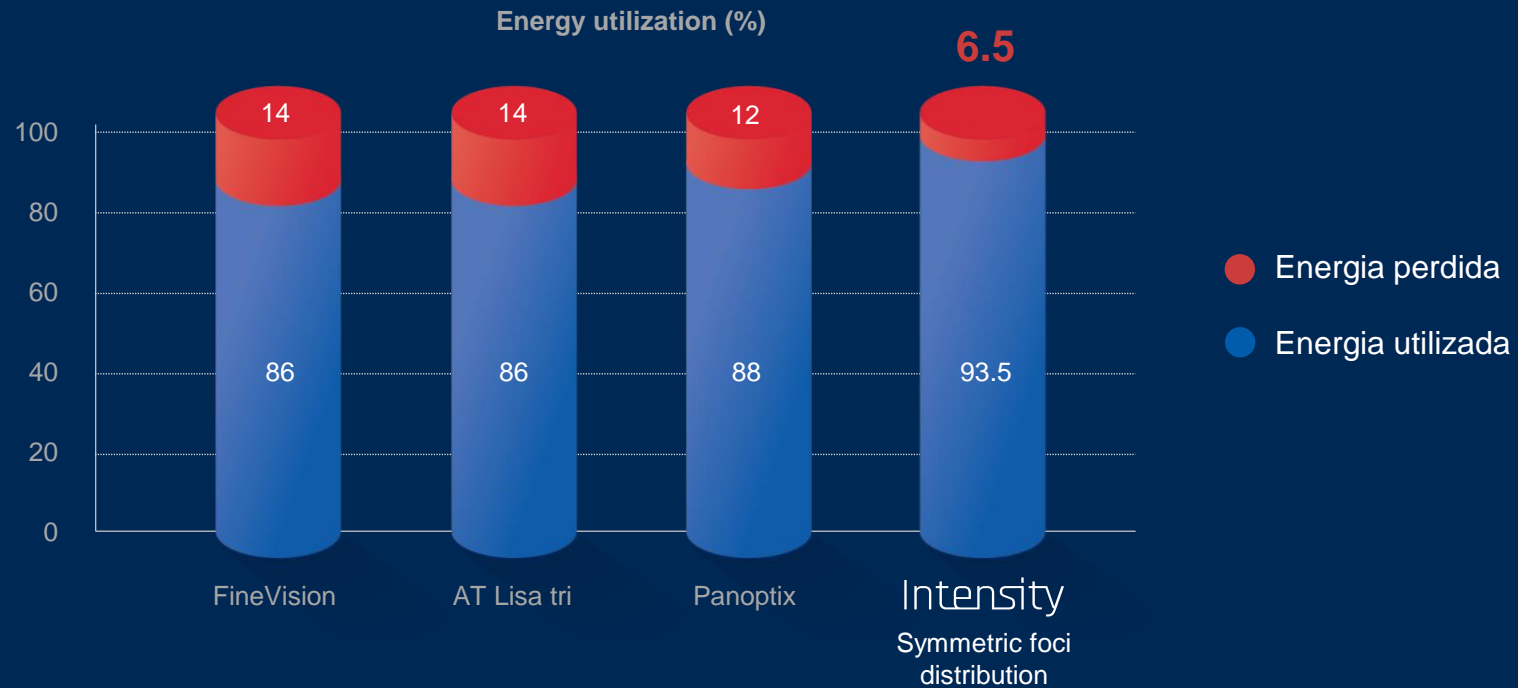
Abertura pupilar optimizada



- ✓ Todas las zonas son optimizadas por DLU
- ✓ Múltiples áreas permiten un mayor rendimiento para diferentes aperturas de pupila

Utilización Máxima de la Luz

40% de disminución de luz Perdida > disminución de alteraciones visuales



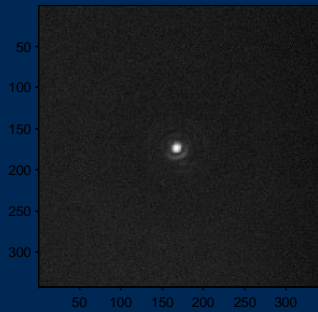
US AIR Force Target – 3mm pupila



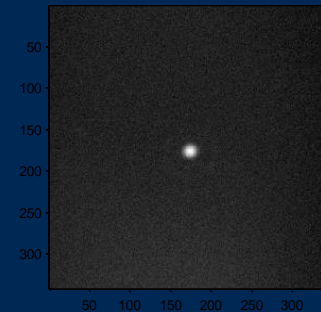
D	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25
Intensity														
Panoptix														
Finevisor														
At Lisa Tri														

Halos y Glare

Intensity



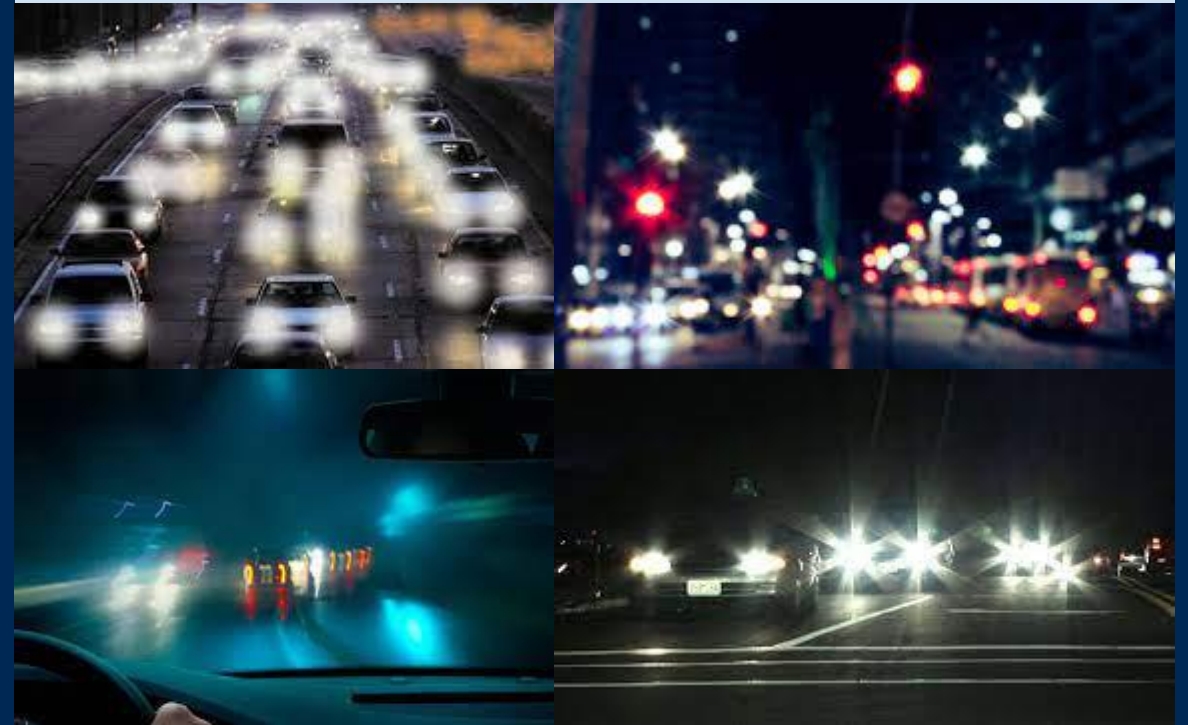
 FULLRANGE



Panoptix



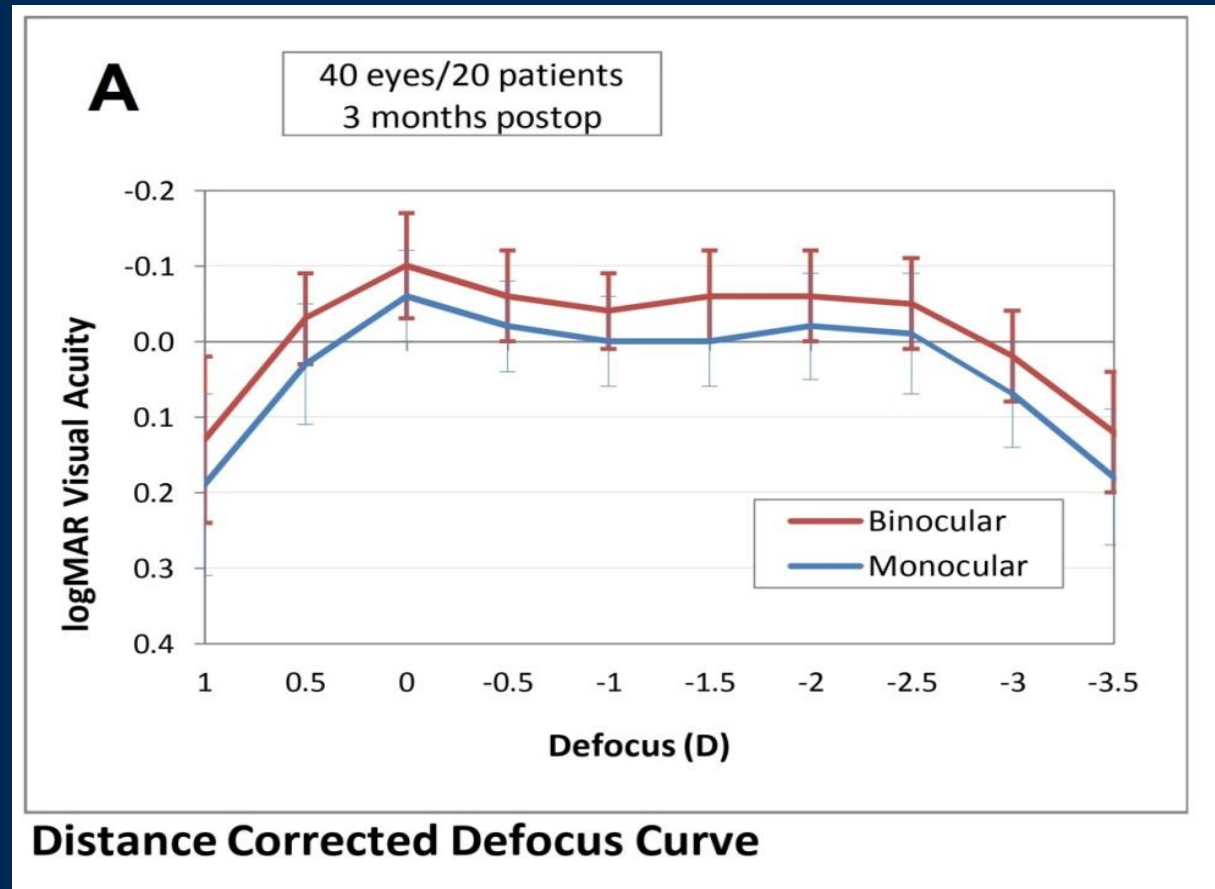
¿Por qué es importante clínicamente?



Curva Desenfoque



Ehud Assia, MD, Prof.



Resultados Dr. Assia

Visual Performance of a Novel Optical Design of a New Multifocal Intraocular Lens

Eytan Nov, MD; Alexander Rubowitz, MD; Nimrod Dar, MD; Tal Sharon, MD; Ehud I. Assia, MD

ABSTRACT

PURPOSE: To evaluate the optical performance and quality of vision of a novel optical design of a new trifocal intraocular lens (IOL) using a proprietary modified algorithm.

METHODS: In this prospective, non-randomized, single-armed, single-center, open-label study, a total of 20 patients (40 eyes) who were candidates for multifocal lens implantation were recruited for implantation with the multifocal Intensity SL IOL (Hanita Lenses). Evaluation performed at 1 and 7 to 10 days and 1 and 3 months after implantation included corrected and uncorrected distance visual acuities at far, intermediate (80 cm), and near (40 cm). Monocular and binocular visual acuities, defocus curves, and contrast sensitivity were measured and questionnaires for grading subjective visual quality, satisfaction, and visual function were provided.

RESULTS: Three months postoperatively, monocular uncorrected visual acuity for distance, intermediate, and near

averaged 0.03 ± 0.11 , 0.09 ± 0.09 , and -0.22 ± 0.09 logMAR, respectively (Snellen 20/21.4, 20/24.6, and 20/12). Corrected monocular visual acuity for distance, intermediate, and near averaged -0.07 ± 0.06 , 0.03 ± 0.09 , and -0.25 ± 0.07 logMAR (20/17, 20/21.4, and 20/11.2), respectively. Binocular corrected visual acuity for distance, intermediate, and near was -0.1 ± 0.06 , -0.02 ± 0.09 , and -0.28 ± 0.04 logMAR (20/15.8, 20/19, and 20/10.5), respectively. Contrast sensitivity was similar to the normal population in photopic and mesopic conditions. Defocus curves showed that this IOL provided visual acuity of 20/28.9 or better between a defocus of +1.00 and -3.50 diopters. The Visual Function Index-14 questionnaire showed that patients reported high satisfaction. Patients specifically noted good quality of vision at near and intermediate distances.

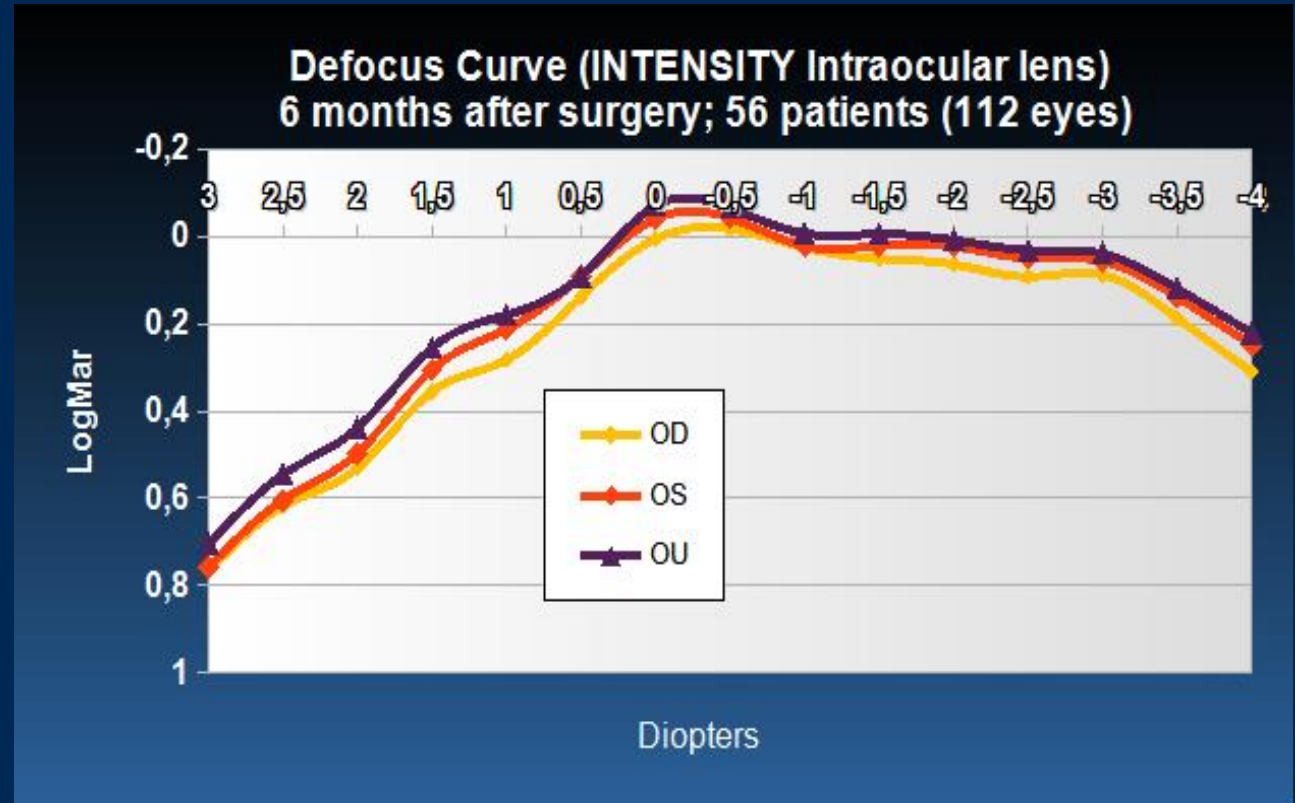
CONCLUSIONS: The Intensity SL IOL can provide good quality distance, intermediate, and particularly strong near vision after cataract surgery and independence from spectacles with good patient satisfaction.

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Curva Desenfoque



German Bianchi, MD



Resultados Dr. Bianchi

Original Article

A prospective study of a new presbyopia pseudophakic intraocular lens: Safety, efficacy and satisfaction

German R Bianchi

Purpose: To evaluate the safety, visual performance, and patient satisfaction of a new presbyopic pseudophakic intraocular lens (IOL). **Methods:** A prospective non-randomized case-series study was performed in Buenos Aires, Argentina. Patients included in the study underwent a programmed Femtosecond laser assisted cataract surgery (FLACS), performed between October and December 2020, with a 6-month follow-up period. The Intensity (Hanita Lenses) IOL was bilaterally implanted. Spherical equivalent (SE) refraction, uncorrected distance and near visual acuity (UDVA/UNVA), defocus curve, endothelial cell density (ECD), central corneal thickness (CCT), and a satisfaction questionnaire were evaluated. **Results:** A total of 56 patients (112 eyes), aged 65 ± 6.12 years were included. The mean \pm SD of preoperative SE was 1.85 ± 2.24 D (range; -4.50 to 4.75), which had decreased 6 months after surgery to -0.08 ± 0.32 D (range; -0.75 to 0.63). No eyes experienced a loss of lines of vision, and 94% obtained SE values between ± 0.50 D. Defocus curve for different additions was 0.03 LogMAR (logarithm of the minimum angle of resolution) for -3.0 D, -0.005 LogMAR for -1.5 D, and -0.07 LogMAR for 0 D. The ECD, CCT remained stable (P : 0.09 and 0.58, respectively) and all patients achieved their preoperative expectations, with a 6-month follow-up period. **Conclusion:** Patients who underwent a safe bilateral implantation with Intensity IOL achieved a high degree of spectacle independence and satisfaction, 6 months after surgery.

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Website:

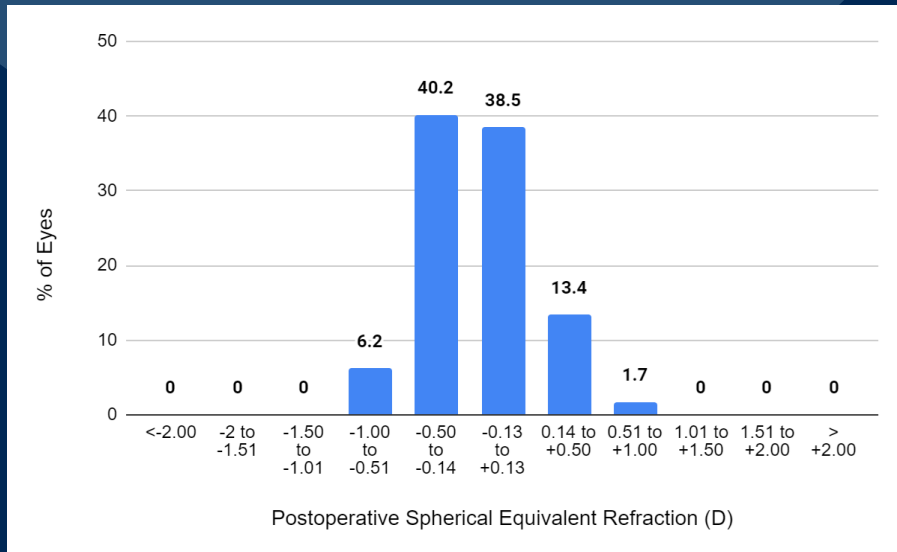
www.ijo.in

DOI:

10.4103/ijo.IJO_2795_21

Quick Response Code:

Resultados Dr. Bianchi



Seguridad:

Sin complicaciones pos-operatorias

Eficacia:

Objetivos alcanzados e pacientes satisfechos

RESULTADOS (6 MESES)

Questionário de Satisfação (56 patients)

1. *Você obteve independência de óculos e lentes de contato?*

94.6% (53), sim.

1.8% (1), precisa de óculos as vezes par ler

1.8% (1), precisa de óculos as vezes para dirigir / ver TV

1.8% (1), precisa de óculos as vezes para telas digitas



Gracias

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