

CE
2460

EYECRYLTM Sert

Advanced Monofocal IOL



mono **MORE** technology

biotech
VISION CARE

REDEFINING MONOFOCAL SEGMENT

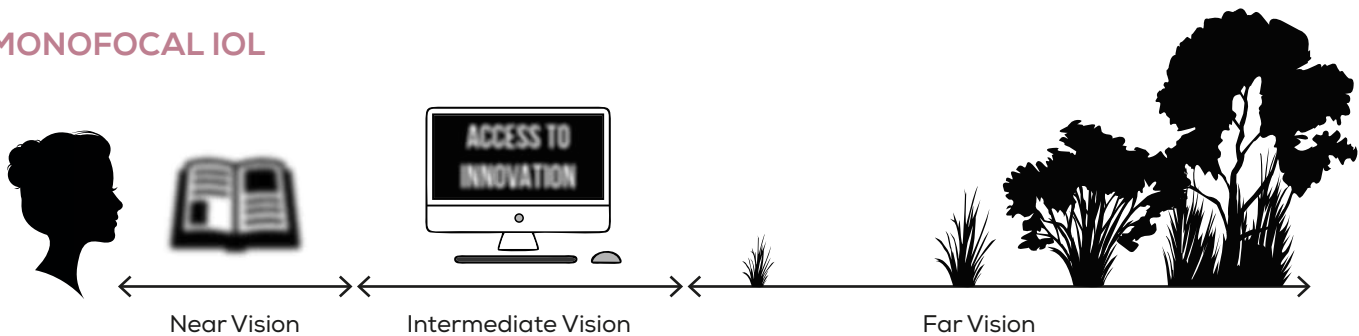
- A new Advanced Monofocal IOL with Aspheric surface
- Continuous vision from distance to intermediate
- Spectacle independence for Intermediate Vision
- An extended range of vision: >1.75 D at spectacle plane with Visual Acuity 0.2 LogMAR or better
- Intermediate vision up to 57 cm
- MICS (2.2 mm) compatible to reduce SIA
- Designed for fast neural adaptation
- Minimal glare and haloes
- ABBE no. 47



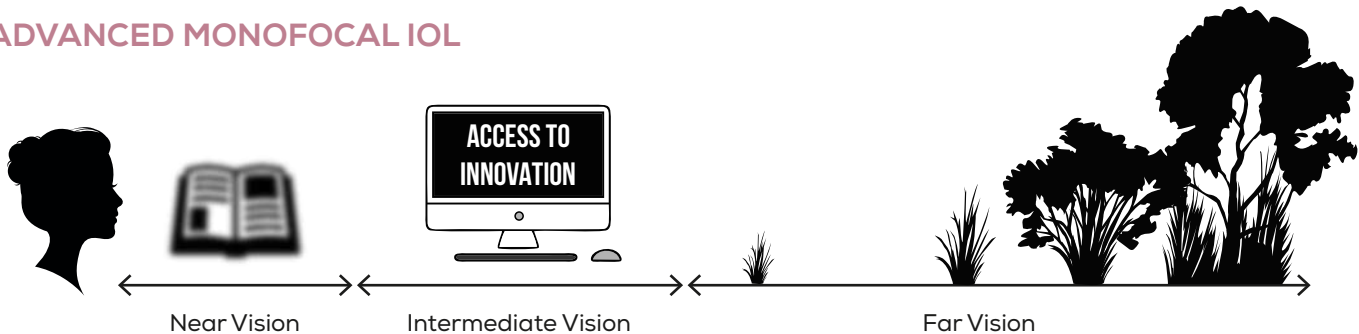
ADDED INTERMEDIATE VISION: UNIQUE ASYMMETRIC POWER DISTRIBUTION

- Designed for extended vision
- Optimized optical Zones to provide extended depth of focus
- Asymmetric power distribution to minimize pupil dependency
- Photic phenomena similar to Monofocal IOLs

MONOFOCAL IOL



ADVANCED MONOFOCAL IOL



OPTIMIZED LIGHT ENERGY

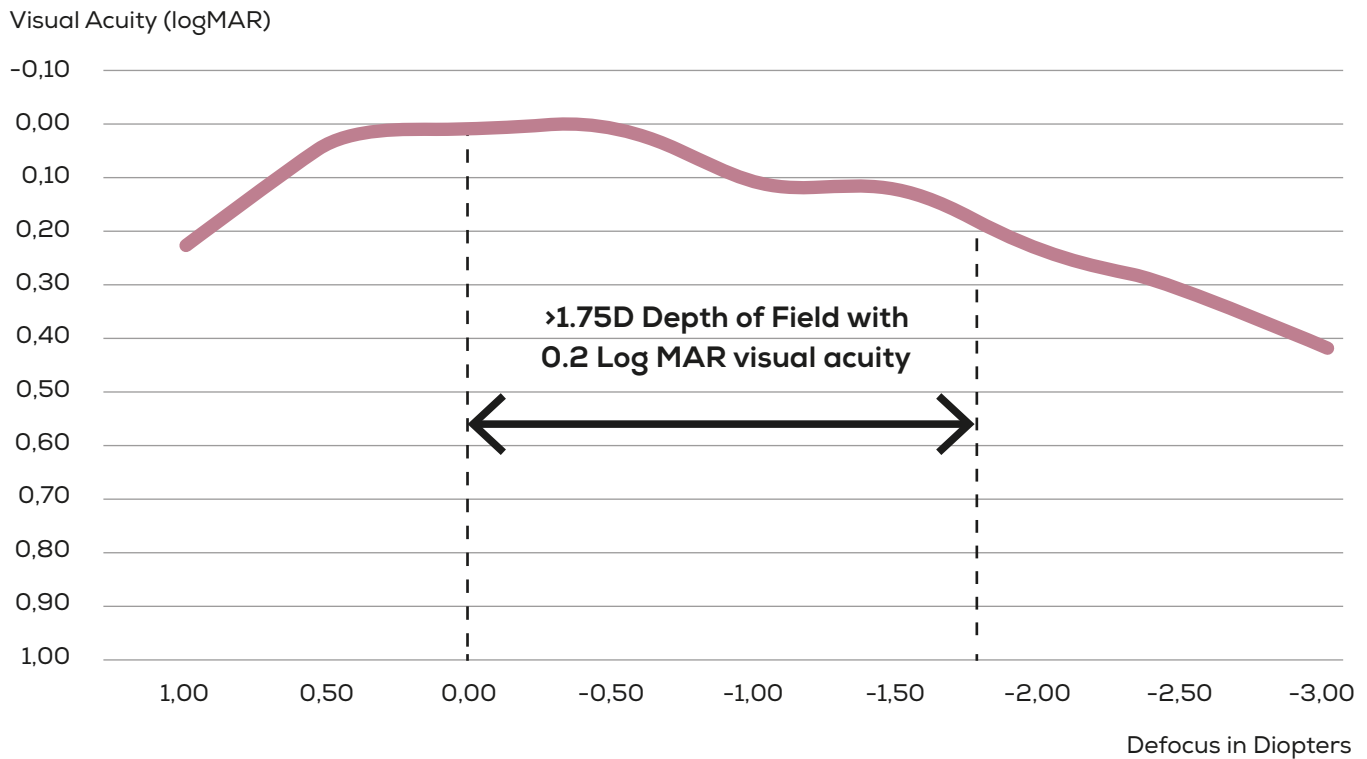
Optimized optical zones provide the extended depth of focus for Intermediate vision and asymmetric power distribution minimizes pupil dependency in all lighting conditions.



DEFOCUS CURVE*

Extended Depth of focus for Intermediate vision without compromising far vision

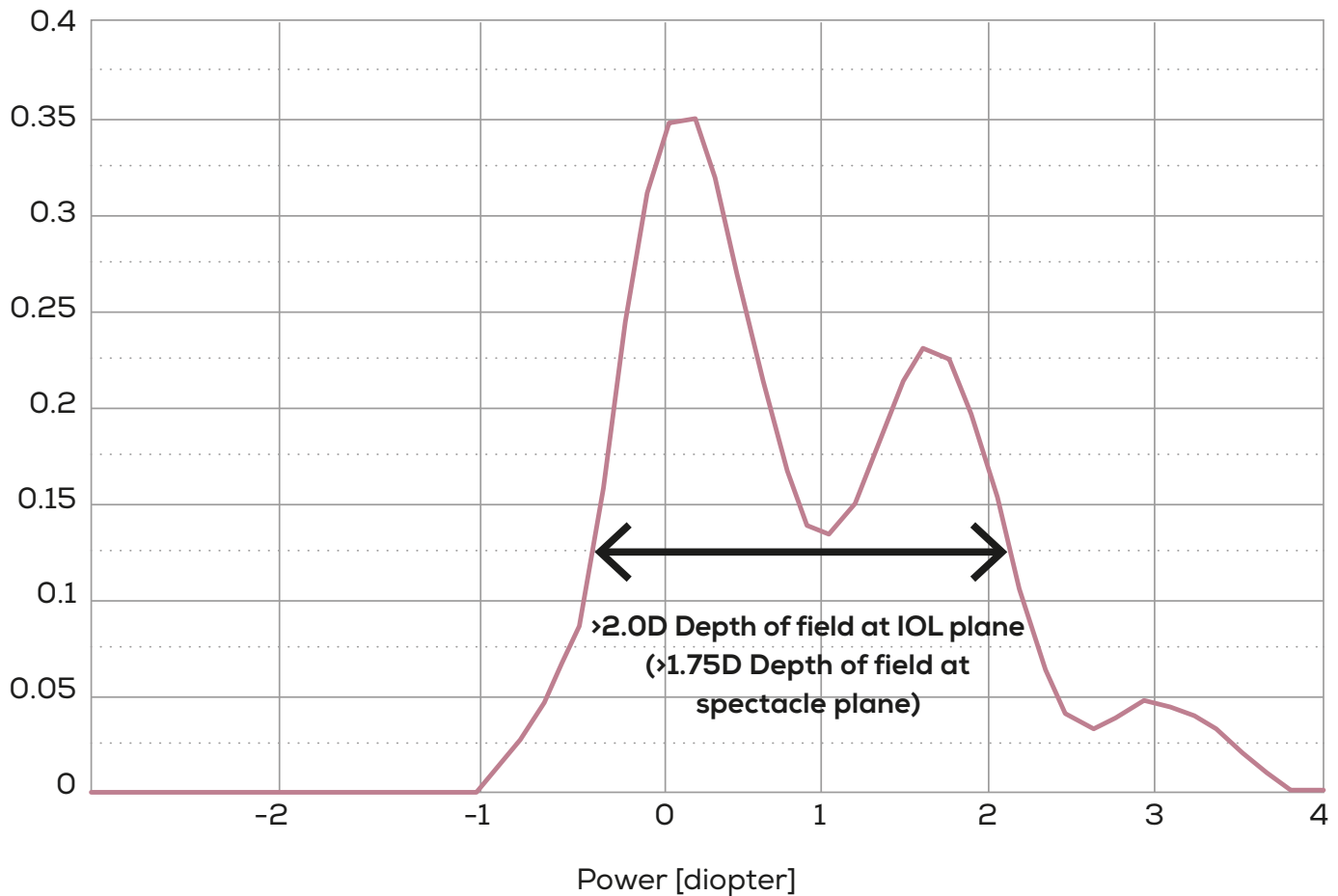
- Continuous vision from Distance to Intermediate
- Great support for daily activities
- 0.2 logMAR visual acuity even at +1.0D denotes tolerance range of IOL



*Data on File.

MODULATION TRANSFER FUNCTION*

- Optimized energy distribution from Distance to Intermediate
- More than 0.3 MTF (50 lp/mm) @ 3.00 mm aperture
- Good contrast in all light conditions

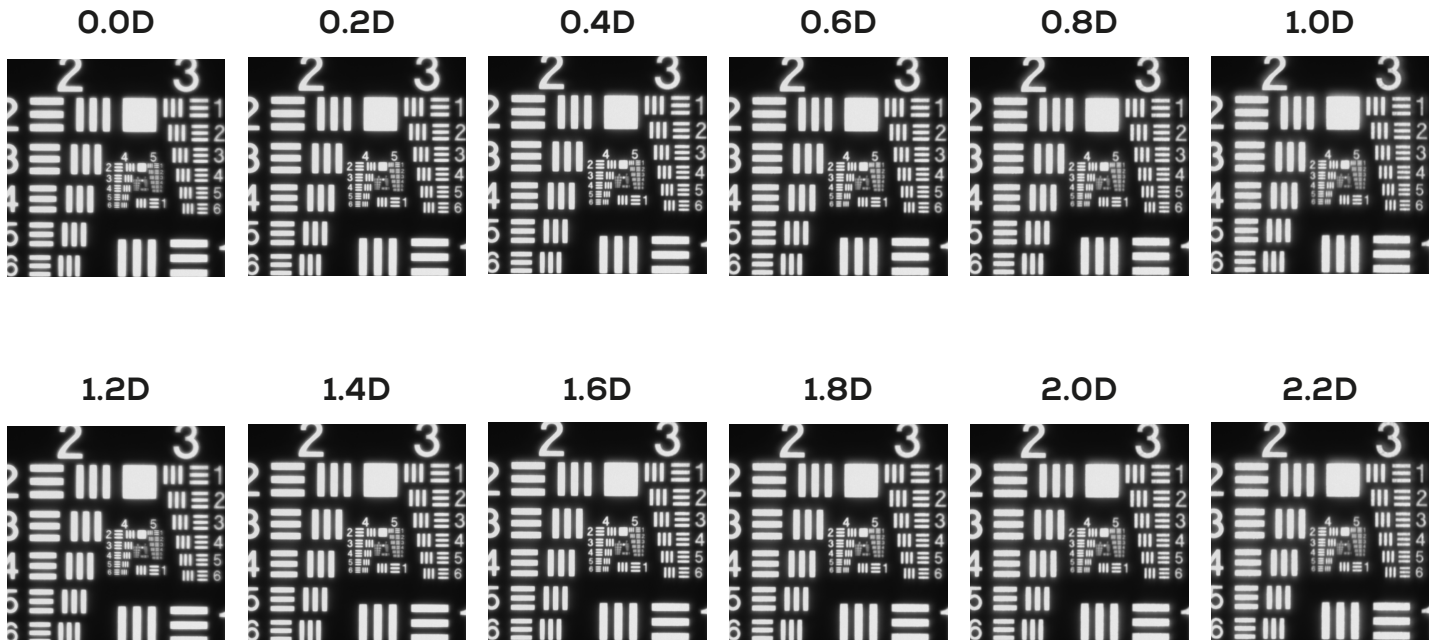


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OPTICAL RESULTS*

USAF IMAGES AT 3.0 MM APERTURE

Optimized light distribution to maintain better resolution and good contrast sensitivity



*Data on File.

PRE-LOADED DELIVERY SYSTEM

SINGLE HAND IMPLANTATION WITH CONTROL OF
SCREW TYPE INJECTOR:

BEST OF BOTH WORLDS



SIMPLE IOL IMPLANTATION USING FOLLOWING STEPS

STEP 01



Push the blue injector plunger forward until the front push plate is flush against the injector housing.

STEP 02



Inject adequate amount of any Biotech certified OVD having low to moderate viscosity, as shown here. The OVD should flow up to leading haptic of the IOL. Inject OVD from tip of the cartridge nozzle. Do not completely fill the chamber as this can move the IOL during insertion.

STEP 03



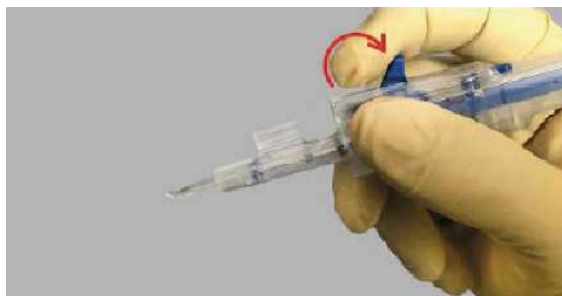
Close the cartridge flaps. Ensure that the flaps are locked with a "Click" sound.

STEP 04



Push the blue injector plunger forward until the rear push plate is flush against the injector housing or until the drive wheel of the injector moves.

STEP 05



Hold the delivery system with a "Pen Grip", as shown here and keep your index finger on Drive Wheel.

STEP 06



Hold the system with the cartridge tip in a bevel down position. Now using your index finger, pull and rotate the drive wheel back slowly in order to push the lens forward until it is delivered.

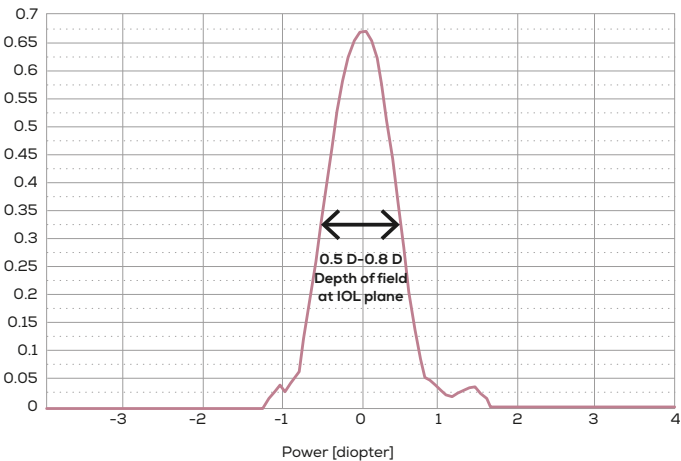
MONOFOCAL IOL VS EYECRYL™ Sert IOL

Advanced Monofocal IOL

MTF COMPARISON*

Monofocal IOL provides 0.5 D to 0.8 D depth of field and EYECRYL™ Sert IOL provides more than 2.0 D depth of field (>1.75D depth of field at spectacle plane) which is helpful for Intermediate distance range of daily visual activities.

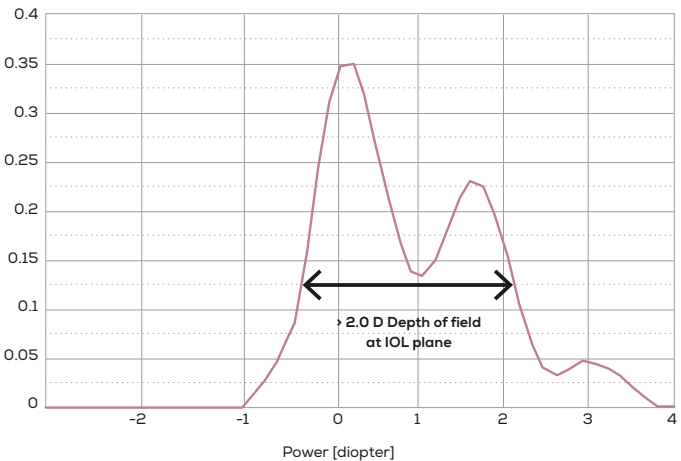
MONOFOCAL IOL



Modulation Transfer Function @3.0 mm aperture

EYECRYL™ Sert IOL

Advanced Monofocal IOL



Modulation Transfer Function @3.0 mm aperture

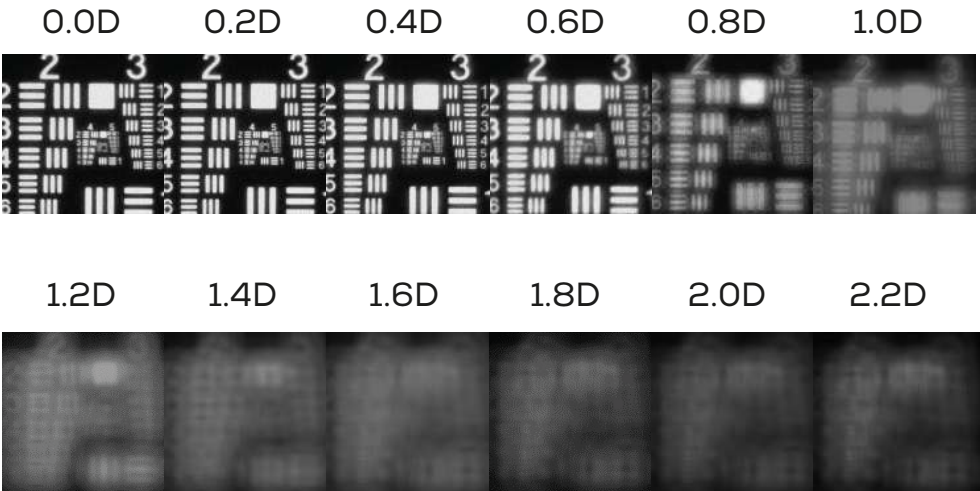
*Data on File.

MONOFOCAL IOL VS. EYECRYL™ Sert IOL

Advanced Monofocal IOL

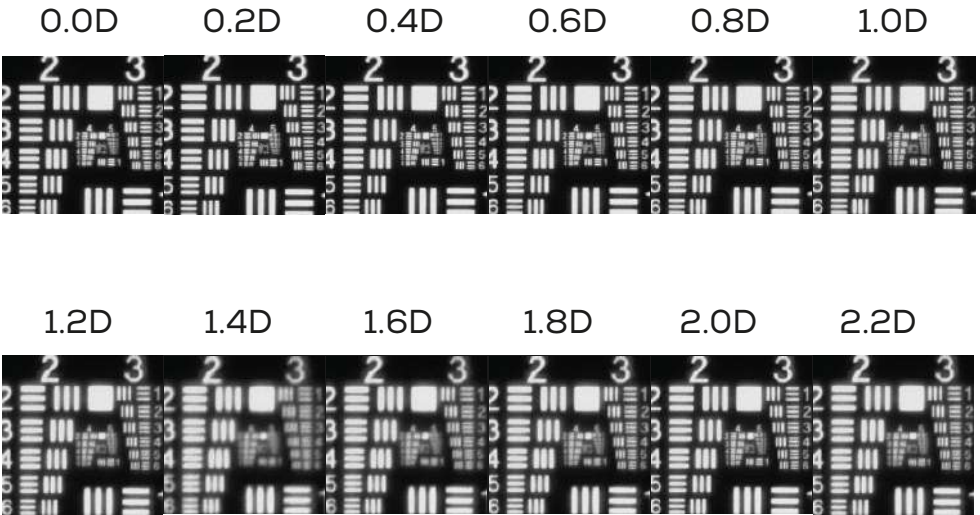
USAF IMAGES COMPARISON*

MONOFOCAL IOL



EYECRYL™ Sert IOL

Advanced Monofocal IOL

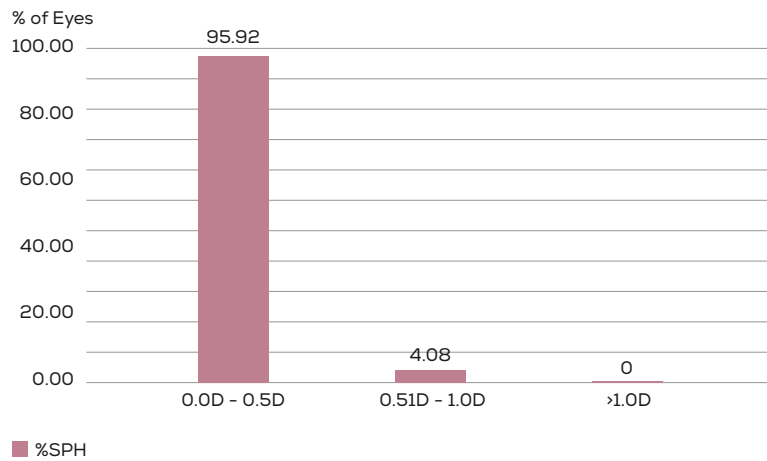


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POST OPERATIVE OUTCOMES* (n=49)

SPHERICAL RESIDUAL

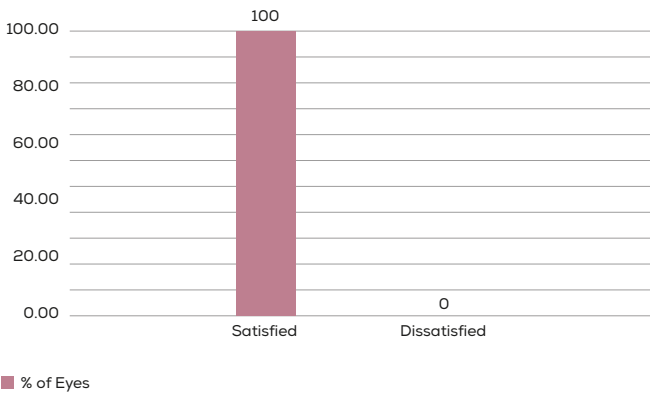
Post-operative spherical result shows that 95.92% of eyes were having less than 0.5D spherical residual.



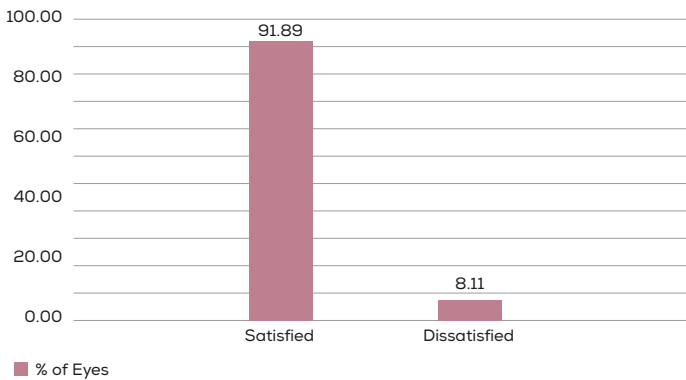
SPECTACLE INDEPENDENCE FOR DIFFERENT DISTANCES*

As per post-operative data, satisfaction for spectacle independence was found 100% for far vision & 91.89% for intermediate vision.

FAR VISION



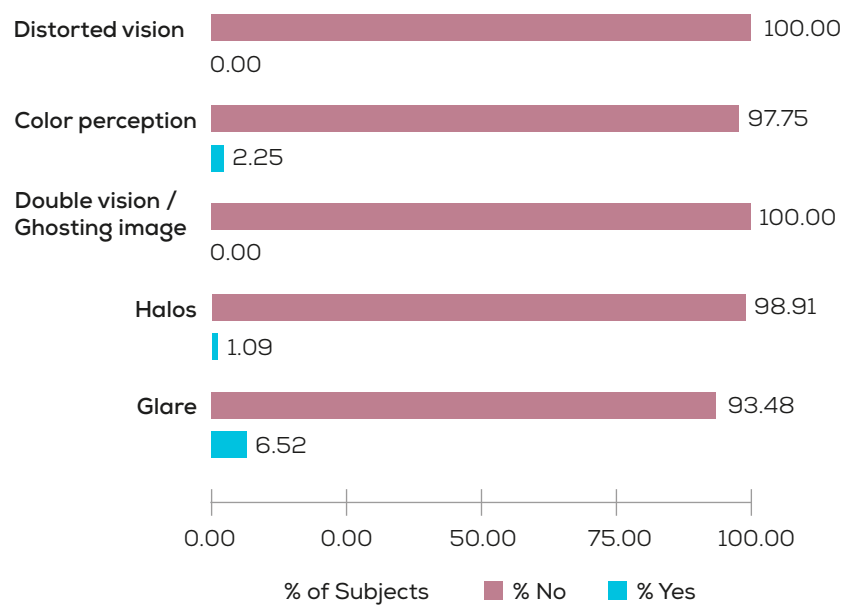
INTERMEDIATE VISION



*Data on File.

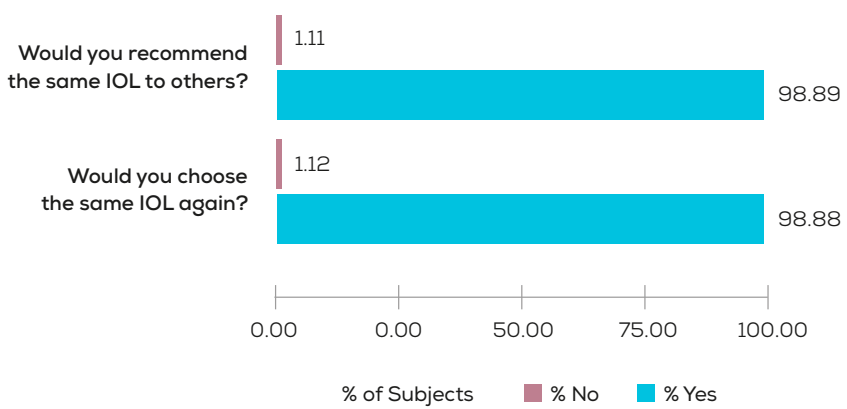
PHOTIC PHENOMENON & VISUAL DISTURBANCE*

Not a single case was reported with distorted vision & ghosting image effect. 97.75% patients did not experience change in color perception, 98.91% patients did not experience halos & 93.48% patients did not experience glare.



PATIENT SATISFACTION*

Patient satisfaction was found to be very high. 98.9% patients would choose the same IOL again and recommend it to others.

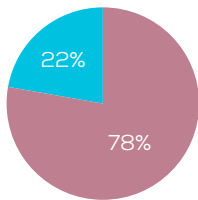


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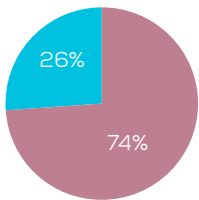
QUALITY OF VISION*

100% patients were satisfied for their far prominent day to day activities e.g. driving at day & night, watching television etc. For activities required intermediate vision e.g. seeing car dashboard while driving, cooking, using computers & shaving / applying makeup, the satisfaction level was 100%, 100%, 96% and 87% respectively.

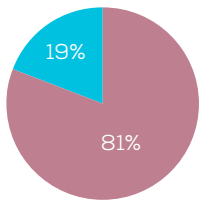
DRIVING AT DAY



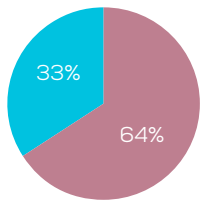
DRIVING AT NIGHT



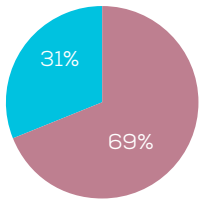
WATCHING TELEVISION



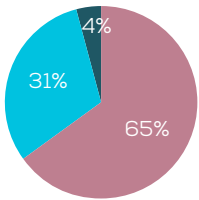
COOKING



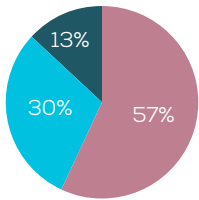
SEEING CAR DASHBOARD



USING COMPUTER



SHAVING/MAKE UP



Very Good Good Average Poor

TECHNICAL SPECIFICATIONS



MODEL	PLHFD6			Advanced Monofocal IOL
MATERIAL	Hydrophobic Acrylic Containing Natural Yellow Chromophore			
OPTIC TYPE	Single Piece, 360° Square Edge with Aspheric Optic			
OPTIC DIAMETER	6.00 mm			
OVERALL DIAMETER	13.00 mm			
ANGULATION	0°			
ACD	5.28			
REFRACTIVE INDEX	1.524			
DIOPTER RANGE	+7.0 D to +30.0 D (with 0.5 D step) 0.0 D to +6.5 D and +30.5 D to +40.0 D will be available on customization on case to case basis			
RECOMMENDED ULTRASOUND A-CONSTANT	SRK-T : 118.35			
RECOMMENDED OPTICAL A-CONSTANTS	SRK-T 118.75	Barrett LF: 1.75	Holl 1 Const SF: 1.58	
	HOFFER - Q ACD: 5.36	HAIGIS - a0:1.144, a1:0.400, a2:0.100		
IMPLANTATION SITE	Capsular Bag			
DELIVERY SYSTEM	Pre-loaded delivery system			
STERILIZATION	EO			



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