



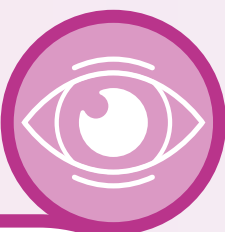
GO BEYOND WHAT YOU
THOUGHT WAS POSSIBLE



THE UNIQUE **WELL FUSION™** OPTICAL SYSTEM, WHICH COMBINES **MINI WELL®** AND **MINI WELL PROXA®**, OFFERS UNINTERRUPTED HIGH-QUALITY VISION, WITHOUT GLASSES.



MINI WELL® IS AN EXTENDED DEPTH OF FOCUS INTRAOCULAR LENS THAT PROVIDES UNINTERRUPTED HIGH-QUALITY VISION AT ALL DISTANCES



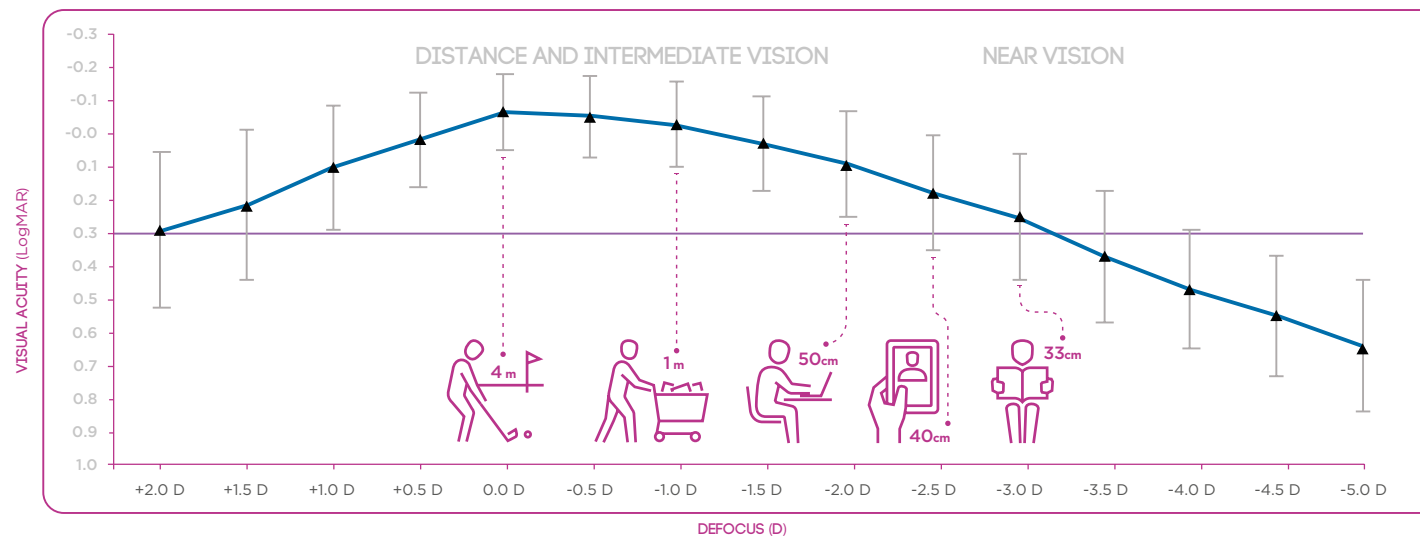
In presbyopia, performing daily tasks such as reading on electronic devices or reading paper pages are tasks made more difficult by having poor visual acuity. Presbyopia affects quality of life as it creates a dependence on spectacles to perform near vision activities.

Multifocal intraocular lenses (IOLs) after cataract surgery have been reported to improve near vision and quality of life.¹ However, these lenses are characterised by several disadvantages related to poor vision between foci and photic phenomena.¹⁻³

MINI WELL® (WAVEFRONT ENGINEERING LEADING LENS) PROVIDES EXCELLENT DISTANCE AND INTERMEDIATE VISUAL ACUITY WITH GOOD FUNCTIONAL NEAR VISION.

At visual acuity equal or better than 0.3 logMAR, Mini WELL® offers an extended depth of focus (EDOF) of up to -3.0D. The defocus curve is progressive with no peaks or gaps in intermediate distances.⁴

DEFOCUS CURVE



Clinical Study Report, Focus study, 2018⁴

Unlike multifocal IOLs, Mini WELL® is not associated with reduced visual acuity between foci and does not require prolonged neuroadaptation time.⁵

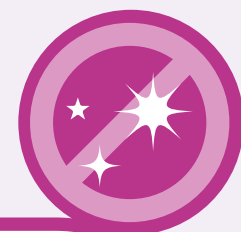
Reading fluency (>80 wpm) without correction

95% at 0.5 LogRAD⁴ (i.e. A5 booklet)

Patients performing near activities without spectacles

74% Reading a newspaper⁴

MINI WELL® IS ASSOCIATED WITH NEGLIGIBLE HALOS AND GLARE



Mini WELL® is associated with a significantly lower risk of halos and glare compared to a multifocal IOL and shows no significant difference compared to the gold standard monofocal IOLs.⁶⁻⁸

MEAN VALUES OF MOST FREQUENT HALO AND GLARE PHENOMENA FOR A VARIETY OF IOLs

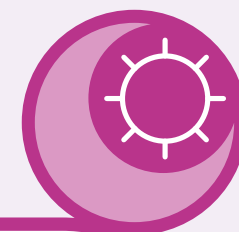


**Figures courtesy of Gerd Auffarth*

The Halo and Glare simulator can be used to model the photic phenomena experienced by patients implanted with different IOLs.

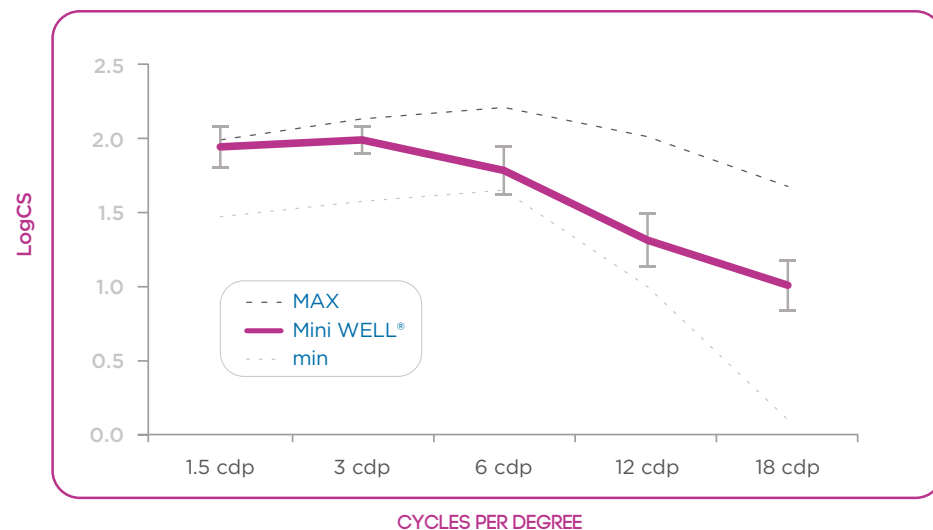
With Mini WELL®, halos had a smaller mean size and lower mean intensity compared to a distance-dominant diffractive multifocal IOL (mean size: 34.8 ± 22.08 vs 53.57 ± 23.67 respectively, $p = 0.439$; mean intensity: 38.50 ± 16.47 vs 54.76 ± 20.53 respectively, $p = 0.0222$).⁶

MINI WELL® PROVIDES EXCELLENT CONTRAST SENSITIVITY EVEN UNDER MIXED LIGHTING CONDITIONS



CONTRAST SENSITIVITY - MINI WELL®

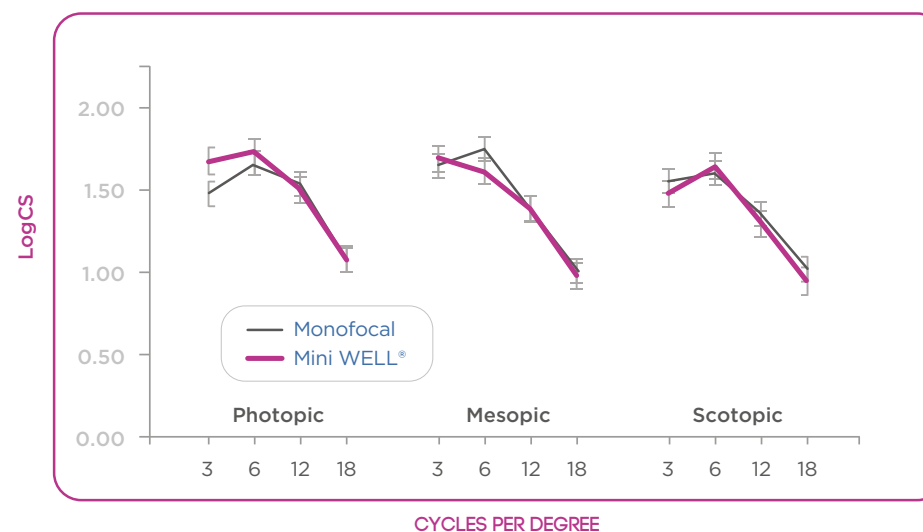
High-quality vision and good contrast sensitivity within normal limits at all spatial frequencies.⁸



Adapted from Savini G, et al. *Eye (Lond)*. 2019⁸

CONTRAST SENSITIVITY UNDER DIFFERENT LIGHT CONDITIONS: MINI WELL® VS MONOFOCAL MINI IOL

Excellent contrast sensitivity in all light conditions.



Adapted from Pedrotti E, et al. *J Refract Surg*. 2020¹⁰

When comparing Mini WELL® vs a monofocal Mini IOL under scotopic, mesopic, and photopic light conditions, no significant differences in contrast sensitivity were found between the two lenses.¹⁰

MINI WELL® PROVIDES HIGH PATIENT SATISFACTION RATES:

93%

Could perform their daily routine activities after surgery⁴



90%

Would recommend this surgery and lens to a relative or a friend⁴



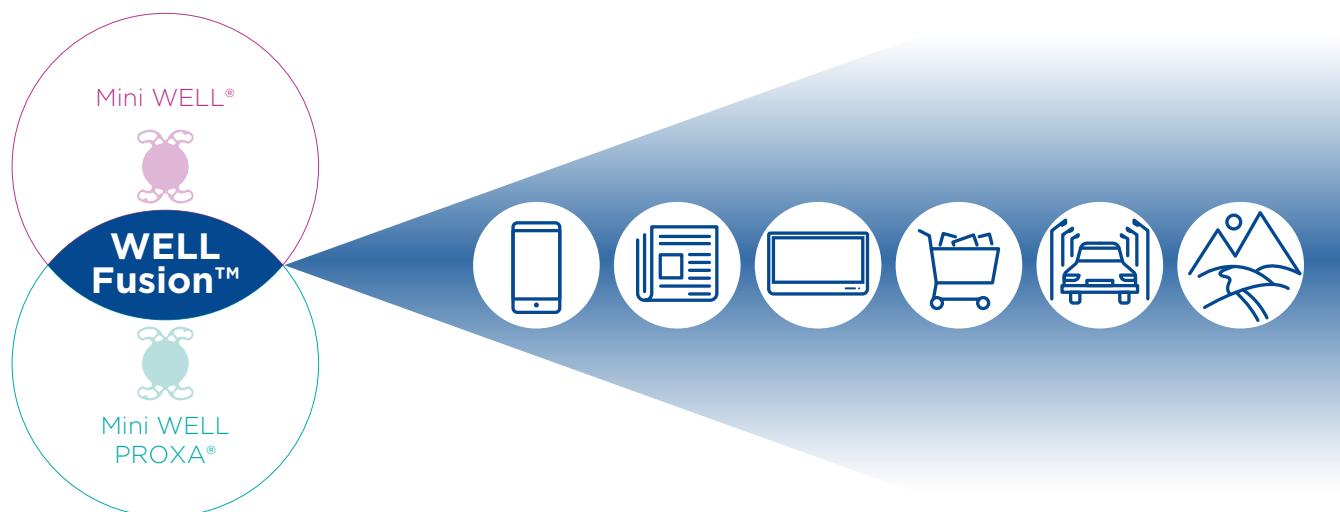
MINI WELL PROXA® IMPLANTED ALONGSIDE MINI WELL® WILL HELP IMPROVE NEAR VISION AND REMOVE THE NEED FOR GLASSES



For patients wishing high quality of vision without glasses, Mini WELL® can be implanted alongside Mini WELL PROXA®.

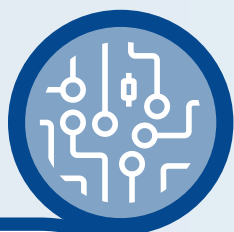
- Mini WELL PROXA® is a new EDOF IOL designed to bridge the gap in near vision (30–35 cm) and reduce spectacle dependence for all patients.
- Developed as an extension of Mini WELL®, this new EDOF IOL, implanted together with Mini WELL®, will secure full presbyopia correction along with uninterrupted high-quality vision at all distances and in all light conditions.

THE TWO LENSES JOINTLY CREATE THE **WELL FUSION™**,
A **UNIQUE OPTICAL SYSTEM** BASED ON A COMPLEMENTARY OPTICS
DESIGN USING THE SAME WAVEFRONT ENGINEERING TECHNOLOGY.^{5,11}



**THE WELL FUSION™ HAS BEEN DESIGNED TO ENSURE A
CONTINUOUS VISION FROM FAR THROUGH NEAR (33 CM).**

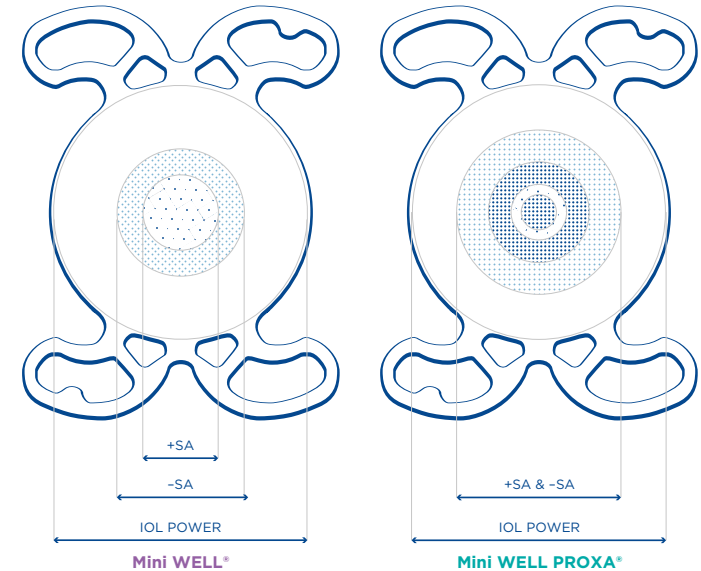
WELL FUSION™ WILL DELIVER SPECTACLE INDEPENDENCE THROUGH ITS PROPRIETARY AND PATENTED TECHNOLOGY



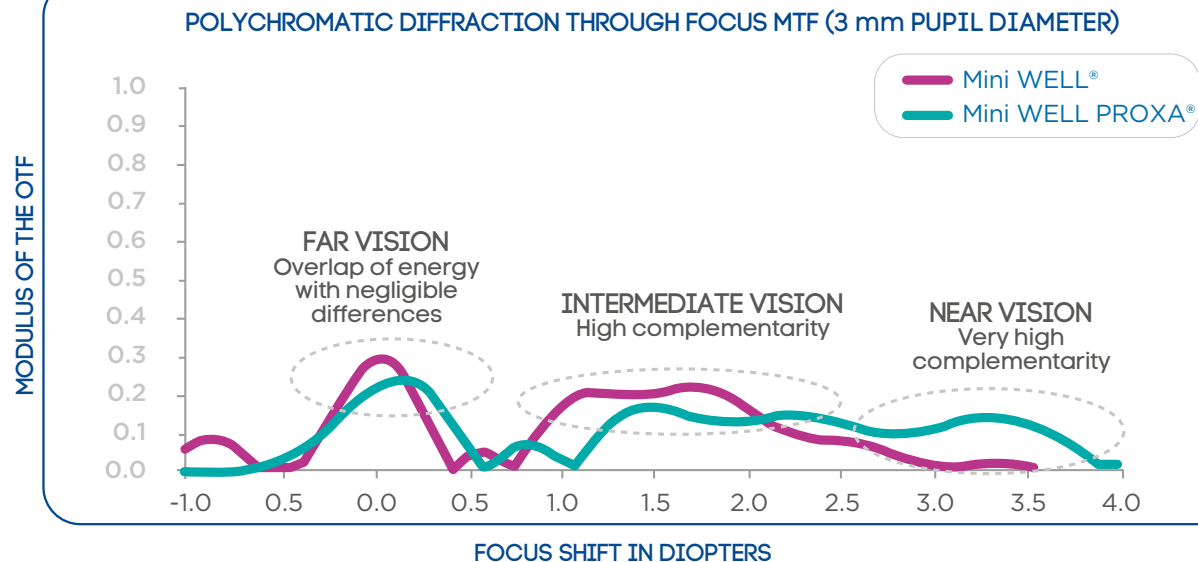
Mini WELL® and Mini WELL PROXA® IOLs share the same EDOF non-diffractive platform which creates one continuous, extended focus without dividing the light beam.^{5,11}

The extended depth of focus is created by inducing targeted amounts of spherical aberration in concentric optical zones in the central part of the optics. This generates an extended continuous focal point.^{5,11}

Mini WELL PROXA® has a number of zones higher than Mini WELL®, allowing the range of vision to extend up to 3.0 D (33 cm).¹¹



WELL Fusion™ MTF complementarity

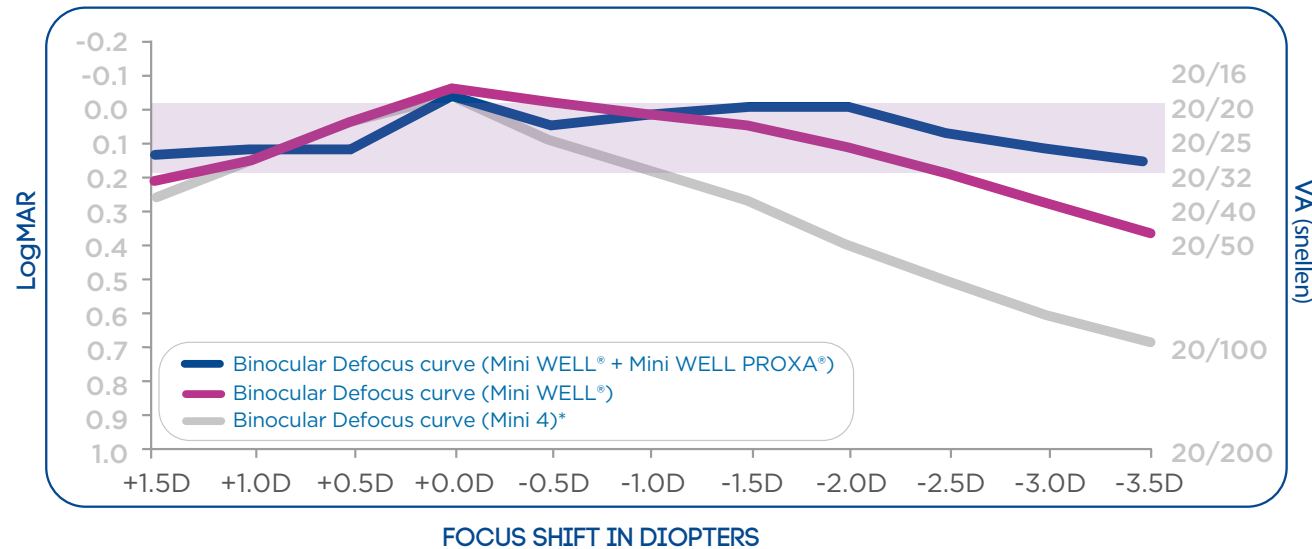


The optical system is characterised by highly complementary optic profiles at near and intermediate vision which will ensure a continuous vision at all distances.¹¹

WELL FUSION™ WILL PROVIDE UNINTERRUPTED HIGH-QUALITY VISION AT ALL DISTANCES AND IN ALL LIGHT CONDITIONS



Defocus curve of the WELL Fusion™ optical system



Courtesy of E. Pedrotti

Extended depth of focus of 5.0D in the high-vision zone[†] with excellent near visual performances at 33 cm.¹²

- Greater continuous visual performance of 2.5D in the high-vision zone compared to the monofocal IOL.
- Enlarged depth of focus of 1.0D in the high-vision zone compared to the Mini WELL® IOL.

[†]The high-vision zone: area of visual performance between 20/20 and 20/32 (Snellen)

*Mini WELL® and Mini 4 defocus curves are available from Pedrotti E, et al. J Refract Surg. 2020¹⁰

Bilateral implantation of Mini WELL® in the dominant eye and Mini WELL PROXA® in the non-dominant eye (defocus curve, 3 months. Mean values $\pm$ SE).¹²

THE WELL FUSION™ UNIQUE OPTICAL SYSTEM HAS BEEN DESIGNED TO PROVIDE PATIENTS WITH:

- Spectacle independence and high-quality vision at all distances
- Negligible photic phenomena
- Improved near vision vs a standard EDOF IOL
- Good contrast sensitivity

MINI WELL® AND MINI WELL PROXA® SHARE THE SAME TECHNICAL CHARACTERISTICS

Lens model	Mini WELL® - Mini WELL PROXA®
Positioning	Capsular bag
Optics diameter	6.0 mm
Total diameter	10.75 mm
Vaulting	5°
Optics design	Biconvex progressive - EDOF aspherical
Square edge	Double on 360°
Material	Copolymer
Dioptric powers	0D to +30D (0D to +10D incr. 1D; +10D to +30D incr. 0.5D)
Estimated Anterior Chamber Depth (ACD)	5.32 mm
Suggested A-Constant	118.6 (Ultrasound biometry)
Injection system	Preloaded IOLs
Recommended incision size	1.8 mm (wound-assisted); 2.0 mm (into-the-wound); 2.2 mm (into-the-bag)

OPTICAL BIOMETRY DEVICES	SUGGESTED CONSTANTS						
	HAIGIS	HOFFER Q	HOLLADAY I	SRK/T	BARRETT	OLSEN	KANE
	a0 = -2.796 a1 = 0.306 a2 = 0.286	pACD = 5.45	SF = 1.67	A = 118.82	LF = 1.75 DF = -1	C Constant = 0.39 ACD = 4.62	A = 118.72

SIFI - MASTERS IN EXTENDED DEPTH OF FOCUS WAVEFRONT ENGINEERING ACROSS DISTANCES

Abbreviations:

DF: Design Factor, **EDOF:** extended depth of focus, **IOL:** intraocular lens, **LF:** Lens Factor, **MTF:** modulation transfer function, **SA:** spherical aberration, **SF:** Surgeon Factor, **VA:** visual acuity, **WELL:** Wavefront Engineering Leading Lens.

References:

1. Dominiguez-Vincent et al. In vitro optical quality comparison between the Mini WELL Ready progressive multifocal and the TECNIS Symfonia. Graefes Arch Clin Exp Ophthalmol. 2016;254(7):1387-97. 2. de Vries NE, Nuijts RM. Multifocal intraocular lenses in cataract surgery: literature review of benefits and side effects. J Cataract Refract Surg. 2013;39(2):268-78. 3. Wang SY, et al. Patient-centered and visual quality outcomes of premium cataract surgery: a systematic review. Eur J Ophthalmol. 2017;27(4):387-401. 4. Clinical Study Report, Focus study, 12th of January 2018. SIFI. The results of the Focus study have been published in Auffarth GU, et al. European, Multicenter, Prospective, Non-comparative Clinical Evaluation of an Extended Depth of Focus Intraocular Lens. J Refract Surg. 2020;36(7):426-434. 5. Bellucci R, Curatolo MC. A new extended depth of focus intraocular lens based on spherical aberration. J Refract Surg. 2017;33(6):389-94. 6. Savini G, et al. Visual performance of a new extended depth-of-focus intraocular lens compared to a distance-dominant diffractive multifocal intraocular lens. J Refract Surg. 2018;34(4):228-35. 7. Bellucci R, et al. Clinical and aberrometric evaluation of a new extended depth-of-focus intraocular lens based on spherical aberration. J Cataract Refract Surg. 2019;45(7):919-26. 8. Savini G, et al. Functional assessment of a new extended depth-of-focus intraocular lens. Eye (Lond). 2019 Mar;33(3):404-10. 9. Auffarth GU, et al. Visual Performance and Perceived Photopic Phenomena with a New Extended Depth of Focus IOL. ASCRS ASOA symposium & congress. USA. 2017. 10. Pedrotti E, et al. Extended Depth of Focus Versus Monofocal IOLs: Objective and Subjective Visual Outcomes. J Refract Surg. 2020;36(4):214-222. 11. SIFI internal data. 12. Pedrotti E. First clinical experience with the optical system WELL Fusion™ (Mini WELL® + Mini WELL PROXA®), webinar "A new dimension in the correction of presbyopia", 12th of December 2020.



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