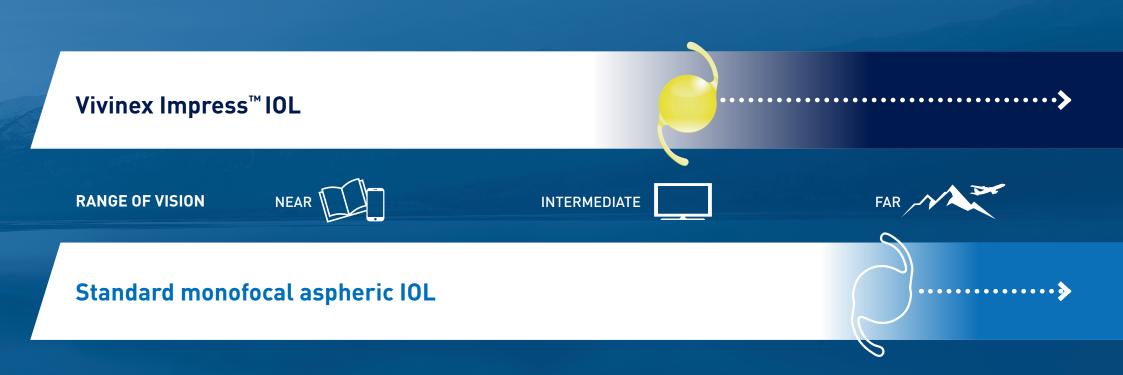
VIVINEX IMPRESS™ BE IMPRESSED

Set a new benchmark for visual outcomes achieved by your monofocal patients

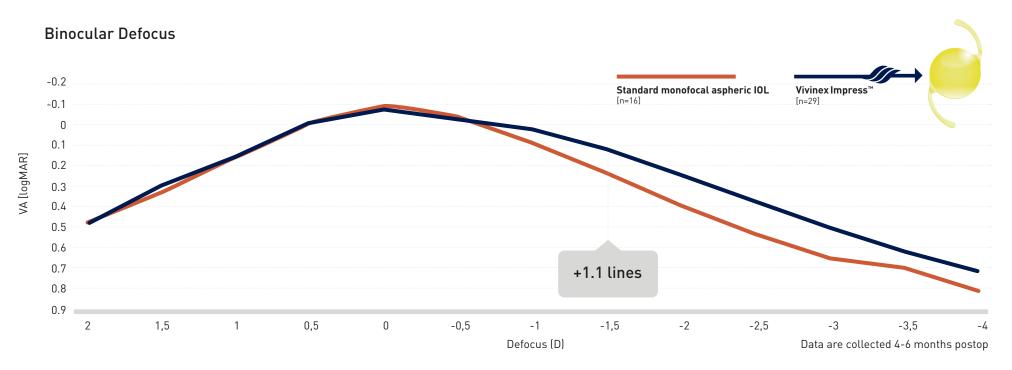


Vivinex Impress[™] enhances the intermediate vision of monofocal patients

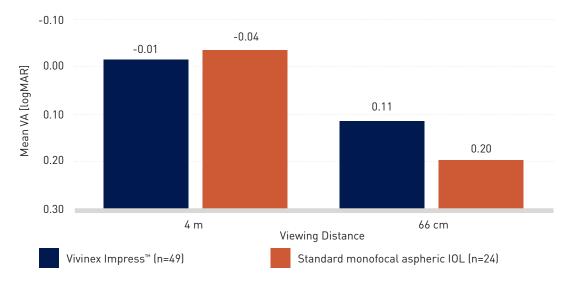


Vivinex Impress[™] provides greater than 1 line of binocular visual acuity improvement at 66 cm

Interim results of a running multicentre study¹

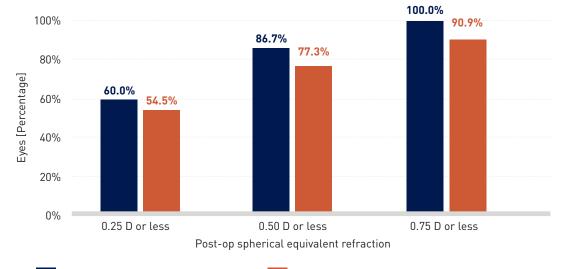


Vivinex Impress[™] provides the same best-corrected mean distance acuity as a standard monofoal aspheric IOL¹ Vivinex Impress[™] improves intermediate visual acuity at 66 cm (-1.5 D defocus) by more than 1 line¹



Monocular distance-corrected visual acuity at 1 month¹

- No difference in best-corrected mean distance visual acuity at 4 m between Vivinex Impress[™] and a standard monofocal aspheric IOL¹
- Approximately 1 line improvement in distance-corrected visual acuity at 66 cm in the Vivinex Impress[™] group¹



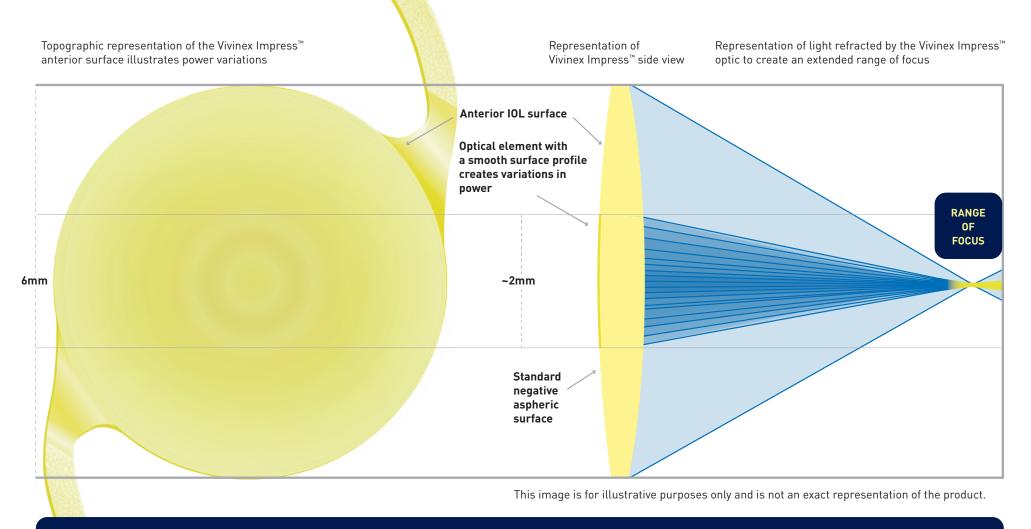
Absolute value deviation from target postop spherical equivalent at 1 month¹



Standard monofocal aspheric IOL (n=24)

- Refractive predictability was excellent in both Vivinex Impress[™] and the standard monofocal aspheric groups¹
 - within 0.25 D of target: 60 % vs 55 %
 - \bullet within 0.50 D of target: 87 % vs 77 %
 - \bullet within 0.75 D of target: 100 % vs 91 %

So how does Vivinex Impress[™] work?



The central optical element creates variations in power that provide an extended range of focus and improved intermediate vision. Vivinex Impress[™] looks the same as a standard monofocal IOL.²

Benefits of the Vivinex[™] platform

Glistening-free Glistening-free hydrophobic acrylic IOL material^{3,4}

Improved Image Quality Incorporates the Vivinex[™] proprietary aspheric optic design which partially compensates for corneal spherical aberration and is more tolerant to sources of coma than standard aspheric designs⁵

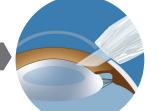
Reduction of PCO

Active oxygen processing treatment, a smooth surface and square optic edge to reduce PCO^{3,6,7,8,9,10,11,12}

Smooth IOL unfolding and capsular bag stability Textured rough haptic surface designed to reduce potential for adhesion to the optic surface during delivery, and provides better grip inside the capsular bag

Delivered in the preloaded multiSert[™] injector

Push and screw modes and the ability to control insertion depth Vivinex[™] multiSert[™] is a 4-in-1 delivery system that allows you to achieve outstanding delivery consistency with your choice of injection and insertion style¹³



Delivery into capsular bag insert shield: Default position

Delivery through incision wound tunnel insert shield: Advanced position



Preloaded injectors are:

Easier to prepare, increasing safety by:^{14,15,16,17,18,19}

• Reducing risk of contamination and infection

SCREW

PUSH

• Reducing risk of IOL damage

More efficient in the OR:^{16,18}

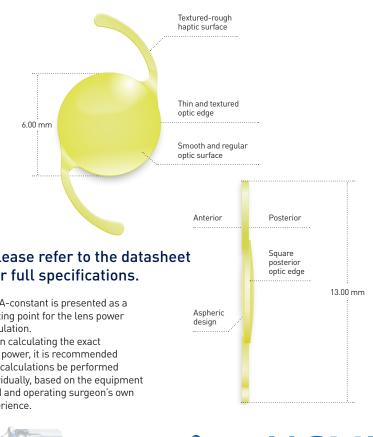
- Minimising time spent preparing the IOL delivery system
- Creating fewer instruments to reprocess

More predictable:¹⁸

• Increasing predictability and consistency of IOL delivery

Specifications

	Vivinex Impress™
Model name	XY1-EM
Optic design	Biconvex with square, thin and textured optic edge Anterior: Aspheric design
Optic & haptic materials	Hydrophobic acrylic Vivinex™ with UV- and blue light filter
Haptic design	Textured-rough haptic surface
Diameter (optic/OAL)	6.00 mm / 13.00 mm
IOL Power (Spherical equivalent)	+6.00 D to +30.00 D in increments of 0.50 D
Nominal A-constant*	118.8
Injector	multiSert™ preloaded
Front injector tip outer diameter	1.70 mm
Recommended incision size	2.20 mm



Delivered by the **multiSert**[™] preloaded injector

SURGICAL OPTICS

CE₀₁₂₃ 2023-08-15_HSOE_XY1-EM_BR_EN

References: 1. HOYA data on file. CTM-23-P0105, HOYA Medical Singapore, Pte. Ltd, 2023 **2.** HOYA data on file RnD-20-367, HOYA Medical Singapore, Pte. Ltd, 2023 **3.** Tandogan, T. et al. (2021): In-vitro glistening formation in six different foldable hydrophobic intraocular lenses. In BMC Ophthaltmol 21, 126. **4.** Auffarth et al. (2023) Randomized multicenter trial to assess posterior capsule opacification and glistenings in two hydrophobic acrylic intraocular lenses. Sci Rep 13, 2822. **5.** Pérez-Merino, P.; Marcos, S. (2018): Effect of In. Homerican journal of cataract and refractive surgery 44 (7), p. 889-986. **6.** Leydolt, C. et al. (2020): Posterior capsule opacification with two hydrophobic acrylic intraocular lenses: 3-year results of a randomized two hydrophobic acrylic intraocular lenses: Comparative study. In: Journal of cataract and refractive surgery 45 (9), p. 1330–1334. **8.** Werner, L. et al. (2019): Evaluation of uveal and capsule boic/fication. In: Journal of cataract and refractive surgery 45 (10), p. 1490–1497. **9.** Matsushima, H. et al. (2006): Active oxygen processing for acrylic intraocular lenses sto prevent posterior capsule opacification. In: Journal of cataract and refractive surgery 45 (10), p. 1490–1497. **9.** Matsushima, H. et al. (2019): An In Vitro Human Lens Capsula pacification. In: Journal of cataract and refractive surgery 45 (10), p. 1037–1040. **10.** Farukhi, A. et al. (2015): Evaluation of uveal and capsule boicompatibility of a single-pice chydrophobic acrylic intravocular lenses to prevent posterior capsule opacification. In: Journal of cataract and refractive surgery 41 (10), p. 01490–1497. **9.** Matsushima, H. et al. (2019): An In Vitro Human Lens Capsular Bag Model Adopting a Graded Culture Regime to Assess Putative Impact of IOLs on PCO Formation. In: Investigative ophthalmology & visual science 60 (1), p. 113–122. **12.** Nanavaty, M. et al. (2013): Management strategies to reduce crisc of postpoartative and refractive surgery 41 (10), 10.1007/540135–0133-021-5. **15.** Bodnar

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