

# THREE WORDS: SIMPLICITY, QUALITY, PERFORMANCE

SAV-IOL's Lucidis IOL combines the fantastic far vision and few photopic phenomena of a monofocal lens, with the added bonus of a high-quality extended depth-of-focus.

In some respects, monofocal IOLs are hard to beat. Other than the obvious – a single focal plane – the drawbacks are few, and compared with the current crop of diffractive multifocal IOLs, they provide unparalleled distance vision with a very low rate of visual disturbances. Neuroadaptation is rapid, and patients are almost immediately comfortable with their postoperative vision.

The Swiss IOL company, SAV-IOL, set out to make a lens with all of the advantages of a monofocal IOL, but with the benefit of continuous vision. To that end, they adapted their

"Instant Focus" extended depth-of-focus (EDOF) technology to a classic monofocal design to make Lucidis – a hydrophilic single-piece foldable IOL. The optic comprises a 6 mmdiameter refractive part providing distance and a 1 mmdiameter aspheric element in the center of the optic to extend the depth of focus from near towards distant vision (Figure la,b). The aspheric element uses a pseudo nondiffracting beam (PNDB); the benefit of this approach being the maintenance of a constant resolution and light intensity on the retina (Figure 1c).



Since its launch at the ESCRS in Dr Marco Alberti, Italy October 2017 in Lisbon, Lucidis is gaining worldwide interest among the ophthalmic surgeons' community.

Here's what the surgeons who use it think:

### Dr Johan Blanckaert, Belgium

"We can see that a growing number of patients are willing to have multifocal IOLs - but many are reluctant to choose this type of lens because of the optical side effects (halos and glares) that traditional diffractive multifocal lenses are known for. These patients need an IOL that's capable of multifocality, with the least possible visual disturbances. Lucidis with its 'Instant Focus' EDOF technology perfectly fills this gap."

"I was expecting a moderate reading capability and I warned my patients that they might need a low diopter reading glass for small print. However, to our surprise, the reading capability was very good, even for small print,"

"Compared to monofocal lenses, premium IOLs come with an added cost. For patients, the cost is financial, for surgeons, the cost is added time. Lucidis can be an appropriate solution for surgeons put off by the extra time Dr Frédéric Sutto, Belgium needed to explain those technologies. You can present the Lucidis lens as a standard monofocal IOL with the possibility to have a better visual acuity for the near and intermediate vision."

"As squared shape platforms in a round bag are more prone to decentration in cases of anterior capsule retraction, I feel more *Prof Dr Hanefi Cakir, Turkey* confident with the strength of the platform of Lucidis, because of the profile of its closed-loop haptics."

design – its stability in the capsular bag is great, and I get perfect centration. I was skeptical in the beginning regarding the smaller 10.8 mm diameter model.

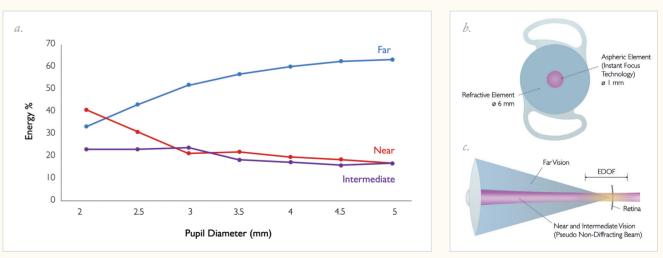


Figure I. a. The Lucidis IOL – available in two sizes (10.8 mm and 12.4 mm) with a power range of +5.0 D to 30.0 D, in steps of 0.5 D; b. The refractive and aspheric optical elements with the innovative closed-loop haptic design to give an optimal centration; c. The pseudo non-diffracting beam approach providing a constant resolution and light intensity on the retina.

"The Lucidis lens has a very stable

but the haptic design is strong, and the 10.8 mm version is a very good compromise. Furthermore, the 12.4 mm version perfectly fills up the largest capsular bags!"

"Lucidis is positioned between monofocal and multifocal IOLs, and I think there's a growing population of patients requiring cataract surgery who will benefit from such a lens. To me, one of the main benefits of Lucidis is the regularity of results: typically 9/10, P2."

"I realized that implantation and manipulation of Lucidis are extremely easy - right from the very first time I used it. When patients came for postop examination, I always saw smiling faces, as they were able to see very well for both near and far, without any halo or glare."

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