

TECNIS® Toric II 1-Piece IOL: Locking in Visual Performance

The new TECNIS® Toric II (ZCU) 1-Piece IOL from Johnson & Johnson Vision presents a novel approach for refractive surgery patients with astigmatism. The TECNIS Toric II lens features a new toric design which offers more surface texture and friction via a squared and frosted haptic design. Made from the same TECNIS® material platform, the TECNIS Toric II lens retains the same optical features and increases the amount of friction between the lens haptic surface and capsular bag, locking the IOL into its proper position within the eye. With this new advancement, patients can now experience both high-quality vision and IOL rotational stability.

Surgeons who are familiar with the TECNIS Toric IOL (ZCT) will be comfortable with implanting the new TECNIS Toric II. The surgical approach of the TECNIS Toric II IOL is similar to the ZCT: the lens is implanted the same way via the injector and unfolds in the same controlled manner.

Though toric IOLs report significantly better quality of life outcomes in patients than monofocal IOLs, there is still a challenge in accurately axis alignment with toric IOLs and postoperative rotation of the lens due to



TECNIS Toric II frosted and squared haptics

the high degree of precision required to correctly align the lens. Rotational misalignment of the toric lens, also potentially caused by hydration or irrigation of the chamber, may reduce its intended effect of improving astigmatism. What the new TECNIS Toric II lens excels at is improved rotational stability, resulting in better outcomes for patients by decreasing residual astigmatism. This improvement is achieved with the new haptic design, leaving the edge of the lens unpolished in order to create a higher friction plate effect. Dr.

John A. Vukich of Milwaukee, Wisconsin, says, "Using the commercially available TECNIS Toric II now, I continue to see very little rotation. The lens simply stays exactly where I leave it at the end of the case."

The rotational stability of the TECNIS Toric II was examined in a prospective, randomized, contralateral study of eight surgeons across three countries. Patients underwent refractive surgery with the TECNIS Toric II 1-Piece IOL and mean absolute change in IOL orientation was cal-

culated at 1 day, 1 week, 1 month, and 6 months postoperatively. At 1 week after surgery, all 86 patients (100%) experienced less than or equal to 5 degrees of IOL rotation; at 1 month after surgery, 85 out of 86 patients (99%) experienced less than or equal to 5 degrees of IOL rotation. Additionally, all patients with the TECNIS Toric II IOL experienced less than 1 degree of absolute mean rotation at 1 week and 1 month after surgery.

The TECNIS Toric II IOL will bring both surgeons and patients greater comfort with the new squared and frosted haptic design, locking in visual performance with rotational stability and lessening the burden of astigmatism. "With the launch of TECNIS Toric II IOL, our goal is to provide surgeons with a higher degree of confidence in treating astigmatism so that more cataract patients can enjoy clear, high quality vision," says Xiao-Yu Song, Global Head of Research & Development, Johnson & Johnson Vision.

TECNIS Toric II 1-Piece IOL frosted haptics Study Results and Performance

Post-op visit	TECNIS TORIC II 1-Piece IOL ¹⁺	
	1 week	1 month
N	91	86
Mean	0.71±0.69	0.87±0.92
Rotation ≤ 5°	100%	99% (85/86)
Rotation ≤ 10°	100%	100%

1. D0F20190TH4015 JJSV Proof of Concept Study
+ The rotational stability of TECNIS® Toric II IOLs was studied in a prospective, randomized, 9-visit (with 6-month follow-up), contralateral-eye study with 8 surgeons in 3 countries, outside the United States (U.S)

Supported by a grant from
Johnson & Johnson Vision