



# Evaluation of Visual Outcomes and Surgeon Satisfaction with Modified Single-Piece Acrylic Toric Intraocular Lens

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*Dr. Hu: No financial interests*

*Drs. Kao and Scott: Consultant for Johnson and Johnson Surgical Vision, Inc.*

*Co-authors are consultants or employees of Johnson and Johnson Surgical Vision, Inc.*

# Study Design

<b>Purpose</b>	The purpose of this post-market clinical study is to obtain surgeon feedback on the clinical outcomes achieved in eyes implanted with the TECNIS Toric II IOL.
<b>Study Design</b>	Prospective, multicenter, single-arm study, open-label, post-market clinical study, 8 sites (US)
<b>Study Lens</b>	TECNIS Toric II IOL (Model ZCU 150 to 600)
<b>Subjects</b>	32 subjects were treated bilaterally, and 22 subjects were treated unilaterally, total of 86 eyes

# Study Questionnaires

## Surgeon Confidence

Controlling IOL Position



## Surgeon Satisfaction

IOL Rotational Stability  
Uncorrected Distance  
Visual Acuity  
Overall Clinical Outcomes

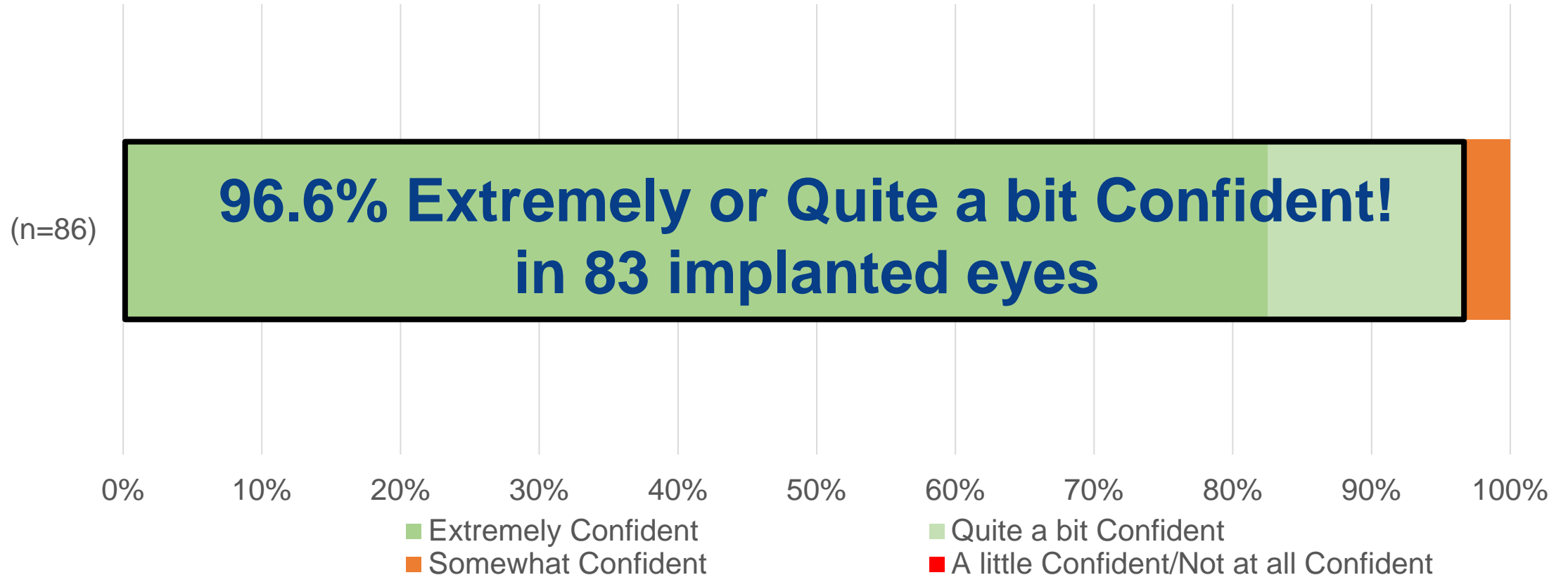


## Surgeon IOL Preference

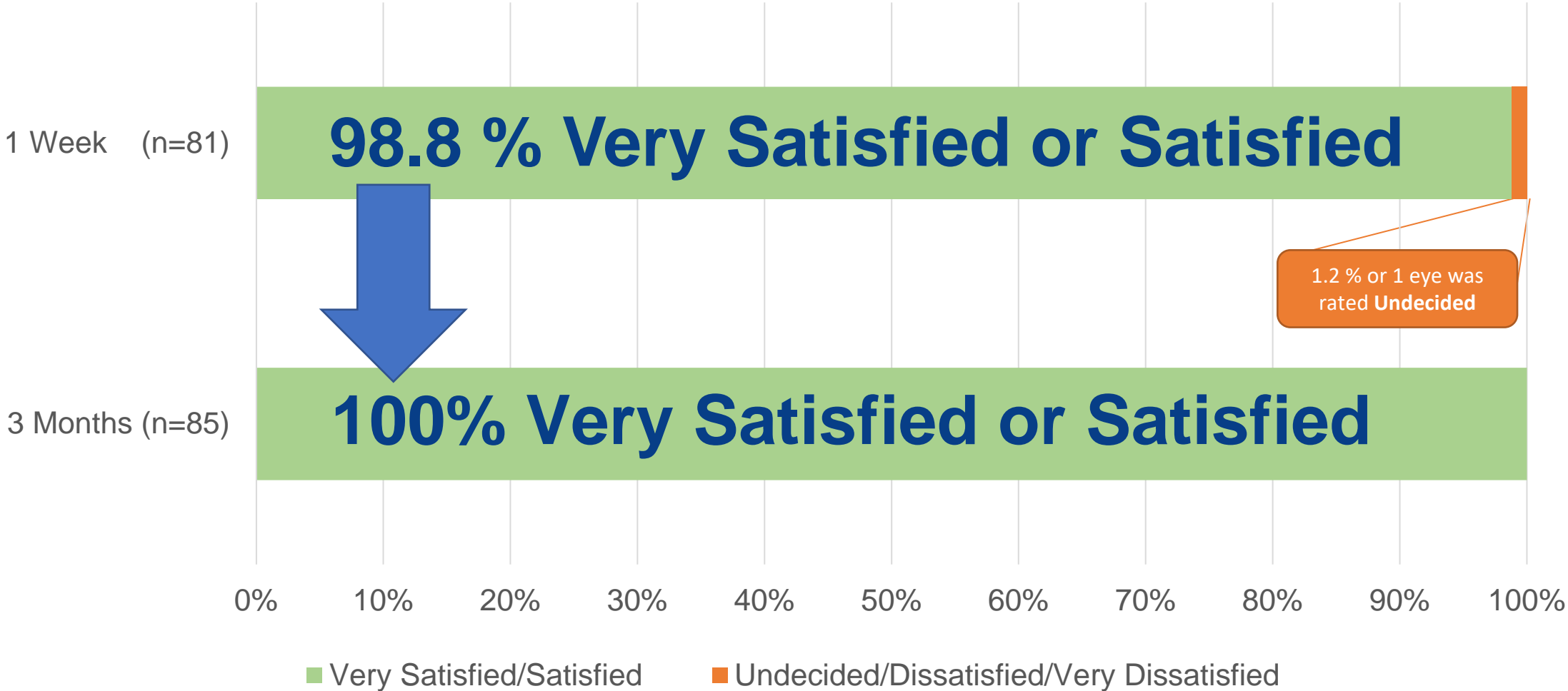
Rotational Stability  
of study IOL v. preferred  
IOL prior to the study



# Surgeon Confidence in controlling IOL position in Implanted Eyes



# Surgeon Satisfaction of Rotational Stability in Implanted Eyes



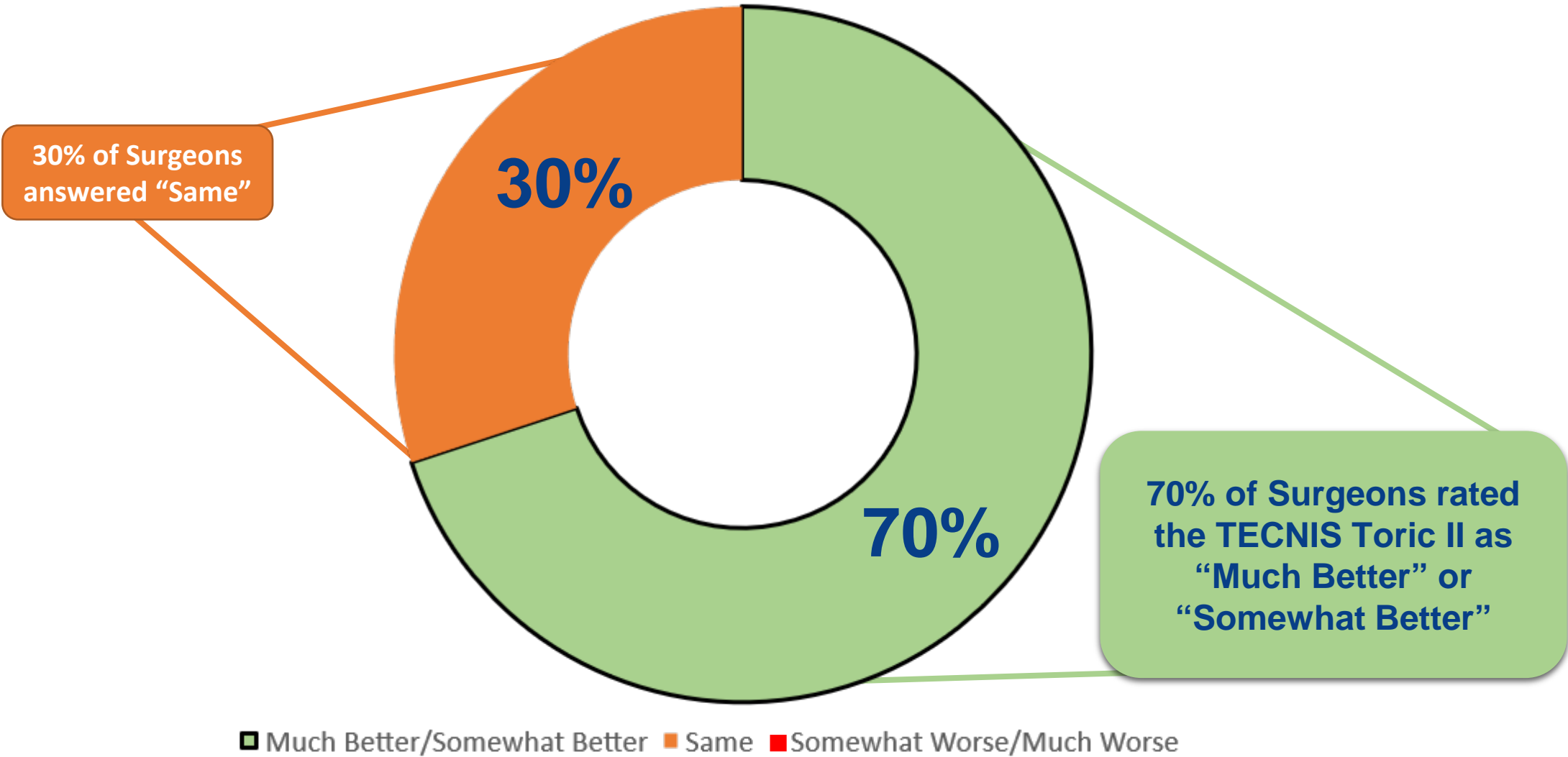
# Surgeon Satisfaction of Uncorrected Distance Visual Acuity in Implanted Eyes



# Surgeon Satisfaction of Overall Clinical Outcomes in Implanted Eyes



# Rotational Stability of the study lens compared to the Surgeons' preferred monofocal toric IOL prior to study



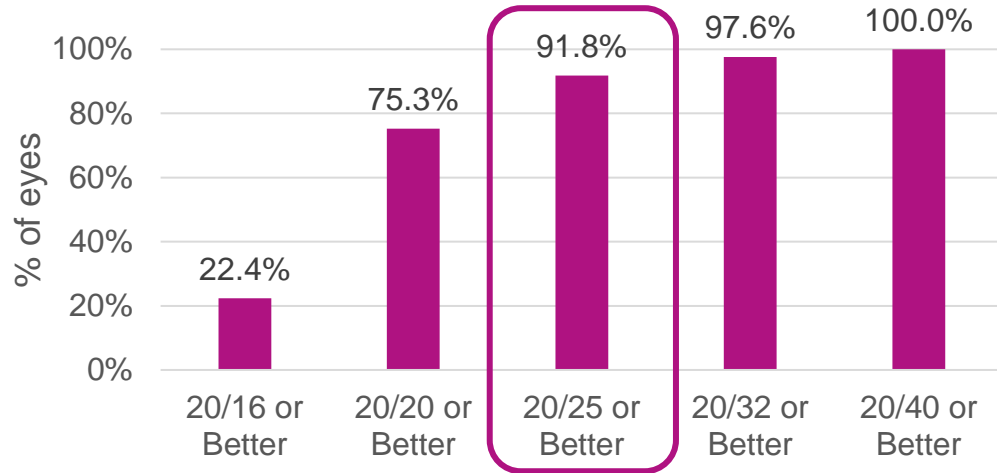
■ Much Better/Somewhat Better ■ Same ■ Somewhat Worse/Much Worse

(n = 10)



# Visual Acuity & Refraction

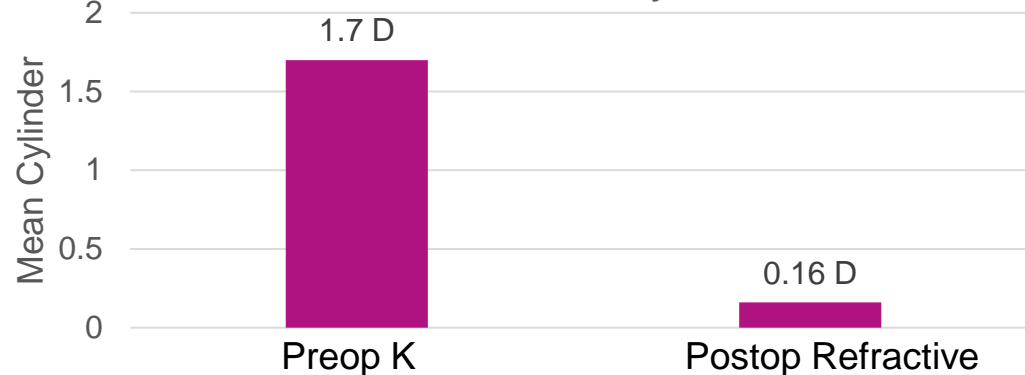
## Uncorrected Distance Vision



**91.8% of implanted eyes achieved 20/25 or better**

- Mean UCDVA at 3 Months
  - $0.01 \pm 0.09$  logMAR
  - 20/20 Snellen Acuity
- Mean manifest refractive spherical equivalent is  $-0.23 \text{ D} \pm 0.41 \text{ D}$
- Mean difference between planned vs. manifest spherical equivalent refraction is  $0.10 \text{ D} \pm 0.44 \text{ D}$

## Reduction in Cylinder



# Conclusions

- Eyes implanted with the TECNIS Toric II IOL demonstrate high levels of:
  - Surgeon confidence in controlling the lens position.
  - Surgeon satisfaction with rotational stability, uncorrected visual acuity and overall clinical outcomes.
- Eyes implanted with the TECNIS Toric II IOL with the ***squared and frosted haptics design*** demonstrate low residual refractive astigmatism and excellent uncorrected vision.