# Study Spotlight: ZEISS CT LUCIA 611P/PY multicenter U.S. clinical trial



Seeing beyond

FDA approval study shows excellent predictability, stability, and visual performance of ZEISS CT LUCIA 611P

### Source



#### Title

Outcomes of a multicenter U.S. clinical trial of a new monofocal single-piece hydrophobic acrylic IOL



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## Methodology

- Prospective, multicenter, single-arm clinical trial, FDA approval study
- Surgeries were performed at 15 surgical sites across the United States
- Postoperative examination was conducted up to 1-year after surgery
- Used key metrics: e.g., UDVA, CDVA, manifest refraction, PCO, slitlamp examination, Goldmann tonometry, IOL tilt and decentration, IOL glistening and anterior chamber depth (ACD)

## **Sample Size**

339 eyes of 339 patients were implanted of which 310 reached the 12-month visit



## Results

The clinical trial demonstrates "...excellent refractive predictability, stability, and visual performance".

#### **Visual Acuity Outcomes**

The mean CDVA of patients who attended all postoperative visits was -0.02 ± 0.09 logMAR at 12 months, while 33.9% of patients achieved CDVA 20/16 or better.

#### **Prediction Error and Stability**

**85.8%** of eyes achieved a manifest refraction spherical equivalent (MRSE) within ±0.5 D. The CT LUCIA 611P exhibited **excellent refractive stability** in the first post-operative year with insignificant changes in the MRSE.

#### **IOL Material Quality**

**No finding of glistenings** at any visit during the 12 month follow up. The overall rate of Nd:YAG capsulotomy for every implanted subject was 3.25% (11/339)\*.

# Refractive stability over time – changes in MRSE at W1, M1, M6 and M12

Consistent cohort | n = 308 eyes

