Study Spotlight: ZEISS CT LUCIA 611P/PY – Long-term clinical outcomes



Scanning Electron Microscope Analysis (SEM) and Long-term Clinical Results with the ZEISS CT LUCIA 611P/PY

Seeing beyond

Source



Title

Long-term clinical results and scanning electron microscopic analysis of the aspheric, hydrophobic, acrylic intraocular lens CT LUCIA 611P(Y)



Authors

Dr. Andreas F. Borkenstein Dr. Eva Maria Borkenstein



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Methodology

CT LUCIA 611P/PY

- Patients over 50 years of age mean age 75.6 \pm 12.3 years
- Postoperative assessment of visual acuity, slit lamp examination with the focus on glistening and evaluation of posterior capsule opacification 1-Day, 1-Week, 4-Weeks, 3-Months and 1-Year after surgery
- SEM-analysis of optic-haptic junction and 360° square edge

Sample Size



96 eyes of 54 patients

Results

The results of this long-term observational study demonstrate the safety and efficacy of the IOL ± 0.50 D for 91.7% and mean 0.02 LogMAR (range 0.14 to - 0.10)

- BCDVA increased from mean 0.48 LogMAR preoperatively to mean 0.02 LogMAR (range 0.14 to – 0.10) 1 year after surgery.
- The spherical equivalent was within ±0.50 D for 91.7% of the subjects and the target refraction of ±1.00 D was achieved for all study subjects. No changes in refraction were observed between 1 and 12 months.

- 90.5% (38 of 42) of the subjects, who underwent bilateral surgery with implantation of the IOL, never required glasses for distance again.
- The wider, thicker optic-haptic transition of the IOL resulted in significantly increased stiffness.
- This enabled improved centering of the IOL and enhanced rotational stability, refractive predictability and PCO prevention.
- 3 cases of PCO requiring Nd:YAG were reported.
 No significant PCO necessitating an intervention (laser capsulotomy) 1 year after surgery was detected in the remaining eyes.
- For the ZEISS CT LUCIA 611P/PY, no glistening was reported up to 1 year after surgery.