

# Study Spotlight: Handling and implantation behavior of ZEISS CT LUCIA 611P/PY



Seeing beyond

ZEISS CT LUCIA 611P/PY has a shorter unfolding time and less spherical aberration (SA) and coma than J&J TECNIS-1

## Source



### Title

Comparing two hydrophobic monofocal IOLs: A focus on handling and implantation behavior



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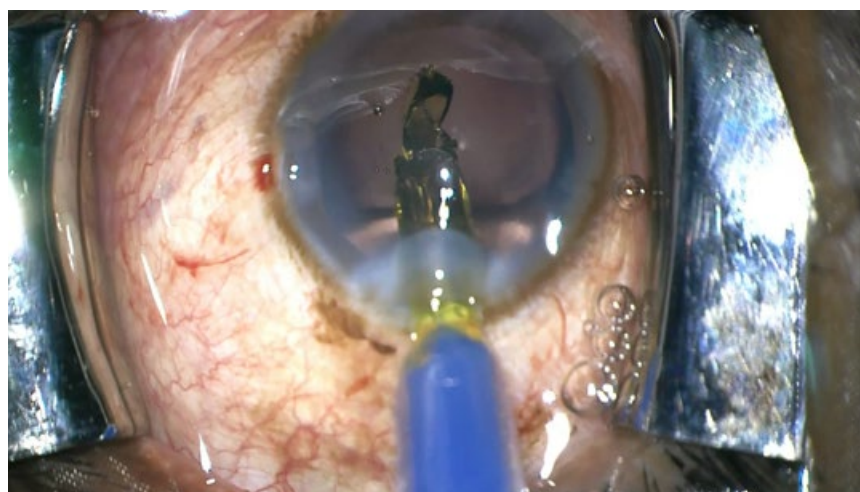
## Methodology

- Institutional review board – approved clinical trial
- First eye of 100 patients (the first 50 eyes received ZEISS CT LUCIA 611P/PY, while the next 50 were implanted with J&J TECNIS-1 ZCB00)
- Patients were recruited to the study groups on the basis of their age and preoperative biometric characteristics

- All operations were performed by the same surgeon using the same technique and phacoemulsification unit
- Unfolding time measurements and any injection administration problems and/or other delivery complications were recorded
- Clinical outcomes were recorded at 1D, 2W, 6W, 6M, 12M



## Results



Implantation of the preloaded ZEISS CT LUCIA 611P/PY

- The preloaded ZEISS CT LUCIA 611P/PY showed shorter unfolding times and fewer IOL delivery problems compared to the IOL manually loaded system
- It also possibly further reduces the risk of complications such as capsular bag damage

- Mean operative **unfolding time was significantly shorter for ZEISS CT LUCIA 611P/PY** ( $12.93 \pm 3.8$  vs.  $35.16 \pm 10.5$  seconds for TECNIS-1)
  - ▶ possibly due to the improved material, now with surface coating, or due to the higher glass transition temperature of ZEISS CT LUCIA 611P/PY ( $13.8^\circ\text{C}$  vs.  $11\text{-}12^\circ\text{C}$ )
- No complications during surgery or after one year and no PCO treatment was required in either group
- For both groups of eyes, the refractive outcomes were excellent and visual function and quality, including mean total higher order aberration (HOA), coma and SOA, were similar.
- Mean **SA and coma** values, which are derived from the IOL, were significantly **lower for ZEISS CT LUCIA 611P/PY**