CT LUCIA 601P / 601PY from ZEISS
Clinical Experience
Surgeons' experience with ZEISS CT LUCIA

“One of the greatest advantages of this IOL is that it is preloaded and it pampers surgeons – manipulation is easy, straightforward and eliminates touch with the surface of the eye which is very important for the patient’s safety.”

Prof. Dr. Pavel Rozsival
Charles University
Czech Republic

“The unfolding process is very smooth, that makes implantation safe. Lens centration in the capsular bag is excellent.”

Dr. Juraj Urminský
Tomas Bata Hospital
Czech Republic

“This one-piece IOL is now available in France. It fits perfectly for small cataract incisions. Implantation is very successful through a 2.0 mm wound-assisted implantation. Nowadays everyone agrees with all advantages related to preloading: easy use, complete safety – microbiological and mechanical. This preloaded CT LUCIA is very easy to use and very reliable.”

Dr. Pierre Bouchut
Thiers Ophthalmic Clinic
France

“All patients showed good outcomes with spherical equivalents postop within ±0.5 D. The CT LUCIA was in every case well centered with no decentration or tilt. The injector system has a soft tip which prevents the haptics from incarceration. This is a great advantage.”

Dr. med. Detlev Breyer
Breyer, Kaymak und Klabe Augenchirurgie
Germany

“...”

Dr. med. Detlev Breyer
Breyer, Kaymak und Klabe Augenchirurgie
Germany
Small changes making a big difference

CT LUCIA® from ZEISS features a number of enhancements to improve surgical workflow and support excellent refractive outcomes utilizing a familiar hydrophobic C-loop design. The patented aspheric ZEISS optics are designed to compensate for a range of aberrations arising from different corneal shapes and lens misalignments. Featuring a 360-degree square-edge design for low PCO rates, ZEISS CT LUCIA is made with ultra-high purity hydrophobic acrylic and a proprietary cryo-lathing process. ZEISS CT LUCIA is available with a fully preloaded disposable injection system.

Optimized IOL constants available

http://www.augenklinik.uni-wuerzburg.de/ulib/c1.htm

<table>
<thead>
<tr>
<th>IOL</th>
<th>nominal</th>
<th>Haigis</th>
<th>HofferQ</th>
<th>Holl.1</th>
<th>SRK/T</th>
<th>SRK II</th>
<th>n</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZEISS CT LUCIA 601P/PY</td>
<td>A=118.5</td>
<td>a0=1.49, a1=0.40, a2=0.10</td>
<td>pACD=5.70</td>
<td>sf=1.94</td>
<td>A=119.2</td>
<td>A=119.6</td>
<td>77</td>
</tr>
</tbody>
</table>

Clinical experiences

ZEISS CT LUCIA was launched in 2014 and surgeons from around Europe have experienced first-hand the advantages of the ZEISS hydrophobic C-loop IOL. The interim data showed excellent results and are reviewed in this report.

Clinical centers:
- Dr. Bo Andersén; Capio-Medocular Eye Clinics, Sweden
- Dr. Pierre Bouchut; Thiers Ophthalmic Clinic, France
- Dr. Catherine Boureau; Clinique Geoffroy St Hilaire, France
- Dr. med. Detlev Breyer; Breyer, Kaymak und Klabe Augenchirurgie, Germany
- Dr. Pascal Rozot; Clinique Monticelli, France
- Prof. Dr. Pavel Rozsival; Charles University, Czech Republic
- Dr. Lubomir Továrek; OFTA, Czech Republic
- Dr. Juraj Urminský; Tomas Bata Hospital, Czech Republic
- Prof. Dr. Ekkehard Fabian; AugenCentrum Rosenheim, Germany

2. Bosc JM, Rosca G. Clinical results with the EC-1Y; satisfaction after 1 year. Powerpoint presentation.
Clinical Results

In the first months of implanting the ZEISS CT LUCIA, clinical results from more than 120 IOL implantations in several clinics and countries have been achieved. The following shows the surgeons’ results and opinions based on their experiences.

Results 1 month post-op (Decimal)

Dr. Andersén, Average CDVA (n = 13)

![Graph showing visual acuity (VA) for Dr. Andersén (Capio-Medocular Eye Clinics, Sweden).

Dr. Bouchut, Average CDVA (n = 15)

![Graph showing visual acuity (VA) for Dr. Bouchut (Thiers Ophthalmic Clinic, France).

Dr. Rozot, Average CDVA (n = 22)

![Graph showing visual acuity (VA) for Dr. Rozot (Clinique Monicelli, France).

Dr. Prof. Dr. Rozsíval, Average CDVA (n = 43)

![Graph showing visual acuity (VA) for Prof. Dr. Rozsíval (Charles University, Czech Republic).

Conclusion

The results one month postoperatively consistently showed a CDVA of 0.7 or better (n = 93). Between 36.4% and 60% of the patients showed a CDVA of 1.0 or better.

Refractive predictability

Refraction measurements of Dr. Catherine Boureau from Clinique Geoffroy, France, revealed a high predictability of the postoperative refractive outcomes: SE ±0.25 D was reached by 53% of the eyes (n = 15), SE ±0.5 D was reached by 93% of the eyes (n = 15), SE ±0.75 D was reached by 100% of the eyes (n = 15).

Excellent outcomes

Dr. med. Detlev Breyer from Breyer, Kaymak und Klabe Augenchirurgie, Germany reported good outcomes of 20/20 resp 6/6 VA (n = 20), using docking technique through 2.2 mm incision. The spherical equivalents post-op were within ±0.5 D for 100% of the eyes. The CT LUCIA was in every case well centered with no decentration or tilt.
Results 4 months post-op
Prof. Dr. Pavel Rozsival, Charles University, Czech Republic, evaluated the properties and clinical outcomes after implantation of the new hydrophobic intraocular lens CT LUCIA in 38 patients: 43 eyes, mean age 70.6 ± 7.5 years, 27 women, 11 men.

Results of the main parameters in follow-up

<table>
<thead>
<tr>
<th></th>
<th>Pre-op</th>
<th>Post-op</th>
<th>p=</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCVA (Decimal)</td>
<td>0.3 ± 0.18</td>
<td>0.7 ± 0.15</td>
<td>&lt;.001*</td>
</tr>
<tr>
<td>CDVA (Decimal)</td>
<td>0.58 ± 0.21</td>
<td>0.94 ± 0.08</td>
<td>&lt;.001*</td>
</tr>
<tr>
<td>PCO**</td>
<td>–</td>
<td>0.199 ± 0.05</td>
<td>–</td>
</tr>
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* n=43    ** EPCO score

Moreover he concludes that ZEISS CT LUCIA preloaded allows a smooth, sterile, uncomplicated implantation in all patients.

Conclusion
These clinical experiences of different surgeons in Europe highlight the advantages of the new hydrophobic ZEISS CT LUCIA IOL:

- High degree of biocompatibility, easy handling, excellent optical quality and high patient satisfaction makes it a favorite lens
- Its smooth unfolding and non-sticking surface make implantation quick and easy and improves the workflow
- High refractive predictability results in excellent visual outcomes
### Technical Specifications

**ZEISS CT LUCIA 601P / 601PY**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Optic Design</strong></td>
<td>Monofocal, aspheric (aberration correcting)</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>Hydrophobic acrylic with heparin coated surface optionally with blue light filter</td>
</tr>
<tr>
<td><strong>Optic Diameter</strong></td>
<td>6.0 mm</td>
</tr>
<tr>
<td><strong>Total Diameter</strong></td>
<td>13.0 mm</td>
</tr>
<tr>
<td><strong>Haptic Angulation</strong></td>
<td>5°</td>
</tr>
<tr>
<td><strong>Lens Design</strong></td>
<td>Single-piece</td>
</tr>
<tr>
<td><strong>Incision Size</strong></td>
<td>2.2 mm</td>
</tr>
<tr>
<td><strong>Company Labeled A-Constant</strong></td>
<td>118.5</td>
</tr>
<tr>
<td><strong>Diopter Range</strong></td>
<td>From +4.0 to +30.0 D, 0.5 D increments</td>
</tr>
<tr>
<td><strong>ACD</strong></td>
<td>5.1</td>
</tr>
<tr>
<td><strong>Implantation in</strong></td>
<td>Bag</td>
</tr>
</tbody>
</table>
| **Injector / Cartridge Set**     | ACCUJECT™ 2.0 Injector Set for diopter range +4.0 to +24.0 D  
                                  | ACCUJECT 2.2 Injector Set for diopter range +24.5 to +30.0 D |

* Please refer to www.meditec.zeiss.com web pages and for optimized IOL A-constants the ULIB data base http://www.augenklinik.uni-wuerzburg.de/ulib/c1.htm