

- **Femtosecond-Assisted Extraction of Cataract in Patients with Congenital Aniridia**

**Monday, April 16, 2018**

**01:02 PM - 01:07 PM**

- *Walter E. Washington Convention Center*
- *- Level 1, 143A*
- ASCRS Cataract

**Purpose**

Assessment of opportunities and limitations of the femtolaser assistance for cataract extraction at the stage of capsulorhexis formation in patients with CA.

**Methods**

The analysis included 8 patients (8 eyes) with CA and complicated cataract. Mean age was  $31,5 \pm 8$  years (range, 12 to 35 years). In two patients, overstretched of the lower zonule and a lens dislocation up to meridian of 12 hours were observed. Formation of capsulorhexis with a planned size of 4.8 mm was performed using a LenSx femtosecond laser. As an intraocular correction of aphakia, the Acrysof Natural IOL (Alcon, USA) and MIOL (Reper-NN, Russia) were used.

**Results**

In 7 eyes out of 8, the formation of continued circular capsulorhexis was noted. In one case, there was an incomplete anterior capsulotomy with bridges at the patient with paracentral opacification of the cornea with aniridic keratopathy. In no one case, during the next manual stage of cataract extraction, there was no formation of capsulorhexis ruptures. The average deviation from the planned size of the anterior capsulotomy was  $0.25 \pm 0.2$  mm. In the postoperative period, in all cases, the correct relationship between the margin of the anterior capsule and the edge of the IOL is indicated, which provides a stable position of the IOL in the capsular bag.

**Conclusion**

Femtolasers assistance of cataract extraction in patients with CA makes the stage of capsulorhexis formation more predictable, but has limitations in the eyes with pronounced aniridic keratopathy and subluxation of the lens.

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