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First Application of New Preloaded Aspheric Hydrophobic IOL

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Purpose

To evaluate the first clinical outcomes among patients implanted with the Preloaded Aspheric Hydrophobic IOL “Optimed” (Russia) during cataract surgery



Methods

This is a prospective study of 52 patients (53 eyes) with mean age of 68 ± 14.6 years followed for 1 month after implantation of new Preloaded Aspheric Hydrophobic IOL “Optimed” (Russia) during phacoemulsification.

Methods. The Measures

The main measures were

1. Orientation of the leading haptic on insertion
2. The degree of intrawound manipulation of the injector
3. Best corrected visual acuity
4. Intraocular pressure
5. Postoperative reaction on IOL

Methods. The Measures (contd.)

6. Postoperative surface quality of IOL
7. Presence of glistening
8. Postoperative IOL position in the capsular bag
9. Patient satisfaction survey
10. Surgeon satisfaction survey

Results

Best corrected visual acuity (BCVA) improved in all 53 eyes (100%).

Best corrected visual acuity 1 month after surgery

<0.1	0.1-0.2	0.3-0.4	0.5-0.6	0.7-0.8	0.9-1.0
-	7.7%	15.4%	7.7%	30.8%	38.4%

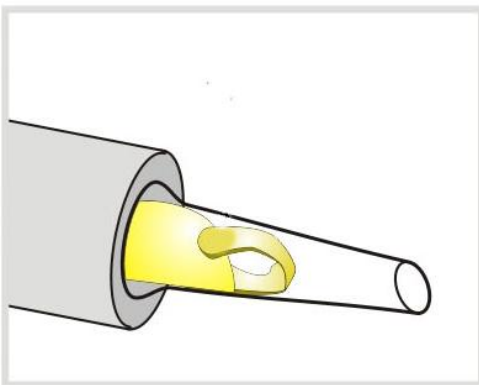
The reasons of decreased BCVA were coexisting age-related macular degeneration, diabetic retinopathy, and glaucoma.

Results (contd.)

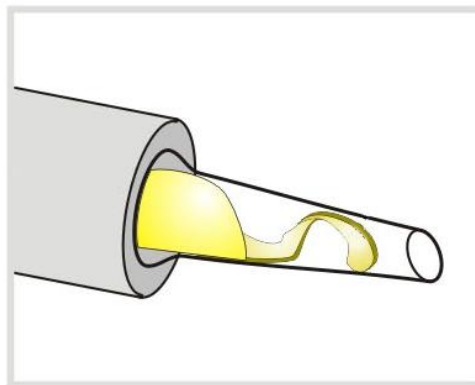
- Transient intraocular hypertension was observed in 16.7% cases.
- Postoperative reactions on IOL, IOL surface damage, presence of glistening, haptic breakage were not observed.

Results (contd.)

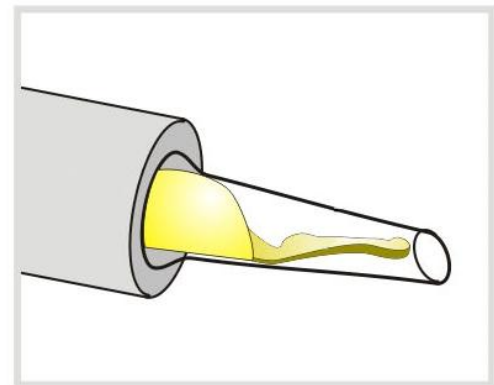
- The IOL position in the capsular bag was stable.
- The leading haptic wasn't tucked (Question mark, Straight) in 32.1% cases, which required additional rotational manipulation of an injector.



Tucked leading haptic



Question mark



Straight

Conclusion

The results suggest that new Preloaded Aspheric Hydrophobic IOL “Optimed” provides good visual outcomes, IOL stability in the capsular bag, convenience and safety of preloaded system.



Thank you for your attention!