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#### Purpose:

Evaluation of effectiveness on quality of vision of haptics angulations for 2 new Aspherical IOLs with same optics and different haptics, after cataract surgery. The postop IOL positioning into the bag has been evaluated at different time frames to correlate the efficacy and stability of the IOLs prolate profile with respect of the axial length.

#### Methods:

Sixty patients, two groups of 30 were treated, all 60 patients received a three pieces aspheric IOL in one eye (AS60 LIGI) and a single piece aspheric IOL (AM60 LIGI) in the other eye. UCVA, BCVA, contrast-sensitivity (CSV-1000, VectorVision), axial length (IOLMaster, Zeiss); dynamic pupillary assessment in photopic and scotopic conditions (pMetrics LIGI); data were collected at 2 weeks, 1 and 6 month. None of the patients suffered any ocular disease or had pre-op corneal astigmatism greater than 2,5D. The implanted IOL-power values ranged between 16D and 26D.

#### Results:

BCVA were similar in both groups. Contrast sensitivity between the two eyes was similar for all frequencies in 5% of patients, better for low frequencies in AM60-implanted eyes for 38% of patients but better for high frequencies in AS60-implanted eyes in 41% of patients. The measured axial length referred to the IOL positioning was bigger for the AS60 in 70% of cases. All IOLs were right positioned and PCO were not reported.

#### Conclusion:

The optimized asphericity of AS60 IOL and AM60 IOL effectively enhances the quality of vision and the effectiveness of prolate shape can be showed by the independence of quality of vision by from the possible error in measuring or positioning of the IOL into the bag.

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