Crossed vs. conventional pseudophakic mono-vision: Patient satisfaction, visual function and spectacle independence comparison

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Introduction & Background: Crossed pseudophakic mono-vision appears to work as well as conventional pseudophakic mono-vision in terms of patient satisfaction, visual function and spectacle independence as long as anisometropia at mild 1.0 to 1.25 D level and potential contraindications were avoided. Crossed pseudophakic mono-vision has not been studied much in literature. This study’s manuscript was accepted by JCRS in the winter of 2014 and it is in press now. It was believed to be the first study in literature by that time but a similar study in South Korea was just published at Br J Ophthalmol in March 2015.

Purpose: The study was conducted to compare crossed vs. conventional pseudophakic mono-vision.

Methods: 7,311 cataract surgery records from 6/1999 to 12/2013 were reviewed. 40 crossed monovision were identified and 30 of them were enrolled. Thirty control conventional monovision cases were matched with very detailed items.

Results: No significant difference was identified for eye-hand, eye-foot coordination, sport related depth perception between the two groups. No significant difference was identified for 6 of 8 spectacle independence measures but nighttime driving and intermediate distance were more favorable in the crossed monovision group. Patient satisfaction was also better in crossed group (p=0.028).

Conclusion: Crossed IOL monovision appears to work as well as conventional IOL monovision with mild anisometropia at 1.0 to 1.25 D level.

Biography
Fuxiang Zhang, MD, PHD is board certified in Ophthalmology. He is one of the most famous Ophthalmologists in USA. He is practicing in Medical field for 34 Years. He completed his graduation in the year 1982 and was awarded with degree by the Medical Institute. He had been awarded by local authorities in the state MI, USA. Currently, he is working in Henry Ford Health System hospital. He has special expertise in 4 areas: Eye Diseases, Glaucoma, Lens Implants (Intraocular Lens Implantation) and Macular Degeneration.

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