Purpose:
To evaluate 6 months clinical outcomes and patient satisfaction with new diffractive Trifocal intraocular lens.

Setting:
Nethradhama Super Speciality Eye Hospital, Banaglore.

Methods:
This prospective interventional study included 30 patients (60 eyes) with a mean age of 63.57 years who underwent phacoemulsification with bilateral implantation of a trifocal diffractive IOL (Optiflex Trio- BIOTECH Europe Meditech Inc. Ltd. INDIA). Patients were tested for corrected/ uncorrected distant, intermediate & near visual acuity(VA), reading performance (Salzburg Reading Desk), defocus curve & contrast sensitivity (CSV 1000) at 1 week, 1 and 6 months post-operatively. Patient satisfaction was graded using validated and verified questionnaire VFQ-25 (National Eye Institute).

Results:
At 6 months, binocular mean uncorrected distant, near & intermediate VA were -0.05 ± 0.09, 0.03 ± 0.09 & 0.04 ± 0.09 logMAR respectively. VA remained 0.2 logMAR or better throughout defocus range of 3.5D. There was no statistically significant change in mean reading speed from 1to 6 months followup at all distances(p= 0.280). Contrast sensitivity improved over time in all patients. Minimal dysphotopsia was noted initially in some patients which resolved at last follow up. No patient was prescribed glasses or contact lenses for fine tuning of distance or near vision. No eye underwent YAG capsulotomy for PCO uptil the end of 6 months.

Conclusions:
At 6 months, the new diffractive trifocal IOL provided excellent unaided vision at all distances, good contrast sensitivity, minimal dysphotopsia and patient satisfaction.

Financial Disclosure:
None