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PIBIC Last Name - Souza First Name - Carlos Middle - Eduardo

Service (sector) CataractN° CEP

Visual Performance of the Acrysof Restor Multifocal ® IOL

C.E. Souza, E.S. Soriano, L.L. Freitas, R. Belfort Jr., C. Muccioli Vision Institute, Federal University of São Paulo

Purpose: To evaluate the visual performance of patients implanted with Acrysof Restor® Multifocal IOLs..

Methods: Twenty five patients presenting with bilateral cataract were included in this protocol. Inclusion criteria were: Cataract in both eyes, corneal astigmatism <1 D, Potencial acuity meter > 20/32 in the Snellen Chart, no associated ocular and systemic disease and IOL power between 18 and 25 D calculated by immersion biometry. All patients were submitted to ocular exam prior to surgery and 1, 7, 30 and 120 days postoperatively. Distance uncorrected and best corrected visual acuity (UCDVA, BCDVA), near uncorrected and best corrected visual acuity (UCNVA, BCNVA), intermediate visual acuity (INVA) at 50 and 70 cm, contrast sensitivity (Pelli-Robinson chart), stereopsis (Titmus test), reading speed (MNREAD - portuguese chart), wavefront measurement (LADARwave Aberrometer) and quality of life questionnaire were evaluated and analyzed.

Results: Monocular UCDVA was 20/25 or better in 90% of the eyes, and binocular UCDVA was 20/25 or better in 96% of the patients. Monocular UCNVA was 20/25 or better in 88% of he eyes, where as in 96% of the patients binocularly. INVA was 20/60 or better in 90% of the patients at 50 cm and in 80% at 70 cm. Medium binocular contrast sensitivity was 1,69 log units. Sixty per cent of the patients reached stereopsis of 40 seconds of arc. Coma and spherical aberrations mediums were 0.14 and 0.10 respectively. Eighty per cent of the patients presented a medium reading speed of six seconds at 20/50 letter size. All patients were satisfied with the implant. Thirty per cent of the patients complained of mild halos or glare at night that did not interfere with the activities. No patients required spectacles correction. Conclusion: Acrysof Restor® multifocal IOL provides a satisfactory distance, intermediate and near visual acuity, and lessen dependence of spectacles without compromising the quality of vision.