

R1 R2 R3 PG0 PG1 Estagiário Tecnólogo
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Service (sector) Cataract N° CEP

**VISUAL PERFORMANCE OF ACRYSOF RESTOR
PSEUDOACCOMMODATIVE IOL: A PROSPECTIVE COMPARATIVE
TRIAL.**

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Purpose: Evaluate the visual performance of the AcrySof ReSTOR® intra-ocular lens and compare it to the monofocal SA60AT IOL. Methods: Forty patients (80 eyes) from the Federal University of São Paulo were enrolled in two groups. Twenty-five patients were assigned to the ReSTOR group and 15 patients in the Monofocal group. Inclusion criteria were corneal astigmatism <1.0 diopter, potential acuity meter > 0.2 log MAR units and no associated ocular diseases. Parameters analyzed included distance uncorrected and best-corrected visual acuity; near uncorrected and distance corrected visual acuity; intermediate visual acuity; contrast sensitivity (Pelli-Robson chart); stereopsis (Titmus test); reading speed; wavefront measurement (LADARWave Aberrometer). Main Outcome Measure: distance and near uncorrected and best distance corrected visual acuity, contrast sensitivity and reading speed. Results: Distance uncorrected and best-corrected visual acuity in the ReSTOR group were not statistically different from the Monofocal group ($p=0.66$). Near uncorrected and distance corrected visual acuity were statistically better in the ReSTOR group ($0.16 \pm 0.13 / 0.62 \pm 0.09$, ($p<0.001$) and $0.14 \pm 0.12 / 0.62 \pm 0.07$, ($p<0.001$), respectively). The ReSTOR group demonstrated less spherical aberrations compared to Monofocal group ($p<0.001$). Monocular photopic contrast sensitivity was statistically lower in the ReSTOR group, ($p<0.001$). Stereopsis and reading speed were not statistically different between the groups. Conclusion: AcrySof ReSTOR IOL provides a satisfactory full range of vision, presents less spherical aberration when compared to the Monofocal IOL, but with lower contrast sensitivity.