

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

**Aberrations and Age Zampar, Helaine, Costa , Charles, Campos
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Purpose: To describe monochromatic optical aberrations of eyes as a function of age **Methods:** A total of 330 subjects (age ranged from 5 to 67 y.o.) with a spherical equivalent within ± 3.50 D from emmetropia, refractive cylinders ranged from 0 to 1.75 D were examined. Corrected visual acuity of 20/30 or better Normal ophthalmic examination Anterior Segment Analysis System; Bausch & Lomb surgical, Claremont) **Exclusion:** Patients with ophthalmic diseases Patients with previous ophthalmic surgery Irregular topography Systemic pathology that could affect subject's refraction **Protocol:** Pupil was dilated with cycloplegic Monochromatic optical aberrations were measured with a Hartmann-Shack wavefront sensor .analysis based on fractional polynomials were used for statistical analysis Results: Spherical aberrations and high order aberrations increase with age and lens show be responsible for this. **Conclusion:** Spherical aberration and high order aberration increase with age.