

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

### **Ocular aberrations and aging in normal eyes**

Universidade Federal de São Paulo, UNIFESP Zampar, HV ; Costa, C ;  
Melo, LAS Jr ; Campos, **OBJECTIVE:** To construct new size charts for  
aberrations measurements in normal patients as a function of age.

**SUBJECTS:** A prospective, cross sectional study in patients without eye  
diseases. **METHODS:** A full ophthalmologic examination was performed  
including the Hartman Shack aberrometry. For each measurement separate  
regression models were fitted to estimate the mean and standard deviation at  
each patient age classes .

**RESULTS:** A total of 330 patients had their ocular aberrations measured .  
New charts are presented for aberrations measured The obtained charts are  
compared with previously published charts . Match values ,secondary  
astigmatism, vertical and horizontal coma spherical aberration and high level  
RMS showed increased values with ages.

**CONCLUSIONS:** Size charts for ocular aberrations should consider patient  
age.