

R1  R2  R3  PG0  PG1  Estagiário  Tecnólogo   
PIBIC Last Name - Garcia First Name - Claudio Middle - R.

Service (sector) Uveitis and AIDS N° CEP

### **Macular analysis in Patients infected with the HIV Virus using Optical Coherence Topography**

Claudio R. Garcia, Charles C. De Farias, Mario Mellins Neto, Tercio Guia, Cristina Muccioli

**Purpose:** To establish a macular thickness profile in patients infected with HIV virus. **Material and methods:** A total of 20 eyes from 20 patients infected with the HIV virus were studied. Four categories were established with 5 patients in each group. Group I were patients with Immune Recovery Uveitis (IRU), group II were patients with a CMV extramacular scar, group III were HIV patients without CMV infection and group IV were HIV negative subjects. Six optical coherence tomograms were obtained in a radial spoke pattern centered on the fovea. Retinal thickness was computed automatically from each tomogram at a total of 600 locations throughout the macula. Macular thickness was displayed geographically on a topographic map and reported numerically as averages in each of nine regions **Results:** Group I had an average thickness of 531 microns, group II had 296 microns, group III had 261 and group IV had an average thickness of 261 microns. **Conclusion:** Only patients with IRU presented macular thickness higher than what is considered above the normal values.