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Service (sector) Retina and Vitreous N° CEP

### **Rhegmatogenous Retinal Detachment: Morphological Aspects on Optical Coherence Tomography**

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**PURPOSE** To evaluate the morphological aspects of the detached neurosensory retina in rhegmatogenous retinal detachment.

**METHODS** This was a prospective cohort study of 30 eyes of 30 consecutive patients with rhegmatogenous retinal detachment involving the center of the fovea. Optical coherence tomography (OCT) was scanned through the center of the fovea with 5mm lines along the horizontal and vertical axis. The morphological aspects of the detached neurosensory retina, height of the retinal detachment at the central fovea, best corrected visual acuity, period from onset of central vision decrease and patient's age were statistically analyzed.

**RESULTS** The morphological aspects of the neurosensory retina had 3 distinct patterns: normal retinal structure, intraretinal separation and intraretinal separation with an undulated outer retina. The height of retinal detachment and the abnormal structure of the neurosensory retina were associated directly with worsening of visual acuity.

**CONCLUSIONS** Structural changes in the detached retina were observed. How these changes behave and how they influence the post operative visual acuity is not clear.