Vitreomacular traction syndrome
Síndrome de tração vítreomacular

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NRS, a 71-year-old woman, born in São Paulo, Brazil, sought our care service complaining of progressive low visual and metamorphopsia in the right eye (RE) for 3 months. She had no history of comorbidities, ophthalmologic surgeries or eye diseases.

Upon examination her best-corrected visual acuity was 20/80 in the RE and 20/20 in the left eye. Funduscopy showed vitreous condensation in the fovea region of the RE. Optical coherence tomography (OCT) showed vitreomacular traction due to partial posterior vitreous detachment that disorganized the fovea structure and formed an aspect of “camel-hump” associated with the presence of high-reflectivity membrane, generating moderate centripetal traction of the retina surface with preservation of external and internal lines of photoreceptors (Figure 1).

A vitrectomy was done with total vitreous detachment staining with triamcinolone for removal of posterior vitreous and macular epiretinal membrane with peeling of the limited internal membrane. An improvement in metamorphopsia was seen in the first week after surgery. Vitrectomy can present complications such as iatrogenic retinal rupture in 1.6% of cases and development of cataract in 69% of phakic patients within the 2 years after surgery.¹ For this reason, some physicians have opted to intravitreal injection of ocriplasmin when...
Vitreomacular traction syndrome is a vitreoretinal interface alteration where presence of myofibroblast associated or not to collagen layers prevents the total detachment between posterior vitreous and the retina.\(^{(2-4)}\)

Ultrastructure of vitreoretinal interface present two basic standards: cellular layer adhered to limited internal membrane, and fibrocellular proliferation separated from the limited internal membrane by collagen layer, which is similar to idiopathic epiretinal membrane. In both groups, the predominant cellular type is miofibroblast that explain the high prevalence of cystoid macular edema and progressive vitreomacular traction.\(^{(3)}\)

Structural changes in retina because of changes observed in OCT have complemented the diagnosis and support the management that is expected or not, to be adopted. Cases with good visual acuity and small distortion of retinal architecture present better prognosis. Posterior vitrectomy has been proposal in the first signals of prognosis worsening. Worsening metamorphopsia and visual acuity associated with funduscopy and tomographic images show distortions in retinal architecture resembling “mountain range” and “camel-hump”, which suggest intervention. Anatomical improvement after surgery is not always followed by improves in visual acuity, so that reflecting probable functional changes and retinal microstructures that cannot be reestablished after surgery. However, after metamorphopsia an improvement is seen; which constitutes one of the main complaints of these patients. The OCT constitutes an indispensable semiologic weapon in the diagnosis and treatment of vitreous traction syndrome. These images help in diagnosis and follow-up of patients.

REFERENCES