



EVOLUTION OF PURTSCHER'S RETINOPATHY -CASE REPORT

Renata Pontes ¹, Isabela Mota ¹, Juliana Gomes¹, Maria Luísa Dantas¹, Ana Cecília Torres¹, Tiago Cavalcanti ¹

> E-mail: renatapontesd@gmail.com ¹Altino Ventura Foundation 47° BRAVS Meeting/ Retina 2023 April 28th to May 1st

PURPOSE

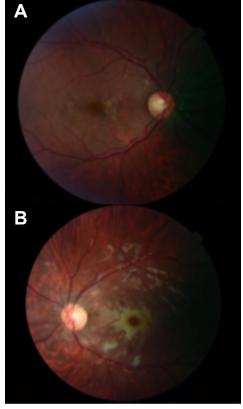
• To report the evolution of a case of Purtscher's retinopathy.

CASE REPORT

- Female patient, 16-year-old
- Low visual acuity (VA) in both eyes (AO) after trauma from being run over:
 AO: VA of counting fingers in the face
- Anterior biomicroscopy without alterations.
- Retinal mapping:

- Right eye (OD) - optic disc with normal color, physiological papillary excavation, cotton-wool spots around the optic disc and perimacular region; macula with decreased foveal brightness, peripheral retina with rarefaction of the retinal pigmented epithelium and staining normal, apart from some microhemorrhages (MH) at the end of the temporal arcade, applied retina.

- Left eye (OS) - normal color optic disc, physiological papillary excavation, whitish macular area and a reflection similar to "cherry red", also with decreased foveal brightness and perifoveal MH.

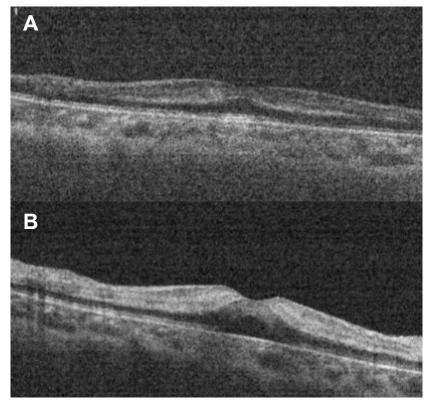


Retinography of OD (A) and OE (B)



CASE REPORT

> The optical coeherence tomography (OCT) of the macula



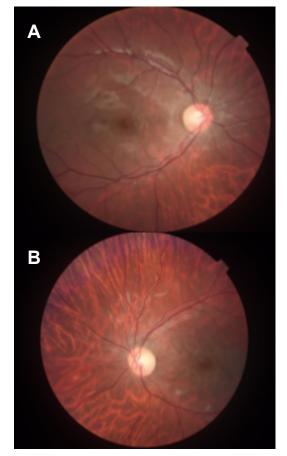
• Optical coherence tomography (OCT) of the macula initially showed increased retinal thickness with subretinal fluid in AO; later intraretinal fluid with hyperreflectivity of the inner layers of the retina was detected in the OS.



OCT of the macula of the OD (A) and OE (B).

CASE REPORT

- Thus, the diagnostic hypothesis of Purtscher's retinopathy was raised, and the patient was followed up, without intervention measures.
- About 1 month after the trauma, the patient showed improvement, with corrected VA OD 20/40 and OS 20/400. OD fundoscopy showed clean vitreous, macula without hemorrhage, with pigment mobilization. Also in the OS, he presented a slight change in macular brightness, also without hemorrhages and improvement in the area of whitish spots in the posterior pole



Fundação Altino Ventura

Retinography of OD (A) and OE (B).

Purtscher's retinopathy is a rare entity and should be suspected when there is a decrease in visual acuity after trauma. The most accepted pathogenesis is related to phenomena of pre-capillary occlusion associated with microemboli, leukoaggregation and complement activation¹⁻³.

REFERENCE

- Hamoudi H, Nielsen M, Sorensen T. Optical Coherence Tomography Angiography of Purtscher Retinopathy after Severe Traffic Accident in 16-Year-Old Boy. Case reports Ophthalm Med. 2018;1:1-4.
- 2. Miguel A. Purtscher and Purtscher-Like Retinopathis: What Do We Know?. Ins Ophthal. 2017;1:3-13.
- 3. Shah D, Dewan L, Tabrez S. Resolution of Purtscher's retinopathy validated with imaging over a period of three months.2021;1(4):709-11.

