Ocular histoplasmosis-like syndrome: a report from a nonendemic area

Síndrome de histoplasmosose ocular simile: relato de uma área não endêmica

INTRODUCTION

Woods et al.\(^1\) were the first to describe an ocular syndrome consisting of a disciform macular detachment associated with peripheral chorioretinal scars in healthy young adults. Peripapillary scarring was another characteristic added later to the classic triad of the disease\(^2\). Infection with histoplasmosis and the geographic distribution of presumed ocular histoplasmosis syndrome is a suggestive evidence of *Histoplasma capsulatum* as the etiological agent. The endemic areas include valleys of the Ohio and Mississippi rivers in the United States. In this endemic area about 80 million people are at risk for ocular involvement.

The clinical features of the presumed ocular histoplasmosis syndrome (POHS) include histo spots which are punched-out chorioretinal scars, peripapillary chorioretinal atrophy, and choroidal neovascularization. Curvilinear streaks of chorioretinal scars have also been described\(^3\). POHS affects young healthy adults between the second and fifth decades of life with no gender predilection\(^4\). The prevalence rate of disciform scarring in an endemic area is estimated to be 1.2 per 1000 persons\(^5\). Reports of similar...
clinical features of ocular histoplasmosis from nonendemic parts of the world have been published. This study presents a series of patients with clinical features that are similar to POHS and to discuss possible other etiological causes of this clinical symptomatology.

**METHODS**

This is an institutional prospective study. The protocol of this study was approved by the Medical Ethics Committee of the Federal University of São Paulo (Paulista School of Medicine). In a prospective evaluation 16 eyes from 8 immunocompetent patients who were examined between January 2001 and September 2005. There were six women and two men with average age of 28 years (20 to 44 years old). All patients had clinical features that resembled the POHS. All patients had negative antibody serum test for histoplasmosis and negative medical and laboratory work-up for toxoplasmosis, syphilis and tuberculosis. All patients underwent a complete ocular examination including fluorescein angiography and one patient was also submitted to indocyanine green angiography. Patients were treated when they presented with active choroidal neovascularization. We used diode laser photoocoagulation or oral prednisone (1 mg/kg/day) or intraocular injection of steroids (triamcinolone acetonide 4 mg.)

**RESULTS**

Five of 8 patients presented with the classical triad of clinical features that include peripapillary scarring, histo spots, and choroidal neovascularization (Figures 1 and 2). One patient had an enlargement of an atrophic chorioretinal scar (Figure 3). One patient had multiple RPE detachments (Figure 4). One had a neovascularized RPE detachment and one had only histo spots.

**DISCUSSION**

Sixteen eyes from eight patients presented similar findings to those observed in ocular histoplasmosis syndrome. These patients had no signs of systemic or laboratory histoplasmosis. We believe that the findings in these patients were not due to histoplasmosis but another etiology should be associated with this clinical presentation. One of these possible agents could include atypical mycobacteria. Some authors postulated that atypical mycobacteria or Mycobacterium
avium intracellularre could produce a subclinical systemic infection that would cause a choroiditis leaving choroidal scars\(^{(19-21)}\).

In conclusion, clinical findings of ocular histoplasmosis were described in non-histoplasmosis patients. Further studies will be required to confirm the other ethiological agents and determine the cause of the clinical features found in this series of patients.

**RESUMO**

**Objetivo:** Descrevemos os achados clínicos oftalmológicos de 16 olhos de 8 pacientes imunocompetentes que apresentavam características fundoscópicas da síndrome de histoplasmos ocular. **Métodos:** Os pacientes foram submetidos aos exames oculares de rotina e ainda à fluoresceinografia e à indocianinografia, além de exames laboratoriais para histo-

plasme, toxoplasmose, sífilis, síndrome de insuficiência imunológica adquirida, tuberculose. **Resultados:** Os exames fundoscópicos, fluoresceinográficos e indocianinográficos demonstraram múltiplas coroíditides em saca-bocão, atrofia peripapilar e neovascularização de coróide. Os exames laboratoriais foram considerados normais. **Conclusão:** Uma outra etiologia que não a histoplasmos pode ser considerada para os achados encontrados. Uma micobactéria atípica ou o *Mycobacterium avium* que causam lesões semelhantes às descritas nos exames oculares podem ser consideradas.

**Descritores:** Histoplasmosse; Histoplasma/isolamento & purificação; Infecções oculares fungicas; Coróide; Angiofluoresceinografia; Fundo de olho; Neovascularização coroidal; Estudos observacionais

**REFERENCES**


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