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8

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Significance of polymerase chain reaction (PCR) analysis of vitreous humorinanimmuno compromised patient with necrotizing retinochoroiditis

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A 36-year-old woman with newly diagnosed nephrotic syndrome presented with a 10-day history of progressive vision loss. On ophthalmological exam, visual acuity was 20/800 in both eyes. The left eye showed grade 4 disc edema and both retina had vitreous and intraretinal hemorrhages. HIV serology was positive, CD4 count of 17/ul and viral load of 375000 copies/ml, newly diagnosed. CT head was normal. Cerebrospinal fluid analysis is unremarkable. Serum and CSF immunoglobulins against *Toxoplasma* spp., PCR for herpes simplex virus 1 and 2, varicella-zoster (VZV) and *Cytomegalovirus* (CMV) were negative. Empirical ganciclovir, trimethoprim-sulfamethoxazole and prednisolone were started. Vitreal fluid extracted by paracentesis was positive for toxoplasma antigen and negative for CMV and VZV in both eyes. The diagnosis of toxoplasma retinochoroiditis was confirmed. The patient continued a 6-week course of antibiotics with clinical improvement at 4 weeks. In immunocompromised patients is difficult to establish a diagnosis of ocular toxoplasmosis based upon the lesions' appearance, since atypical lesions are common and obtaining reliable results for immunodiagnostic assays is more difficult. The best clue to diagnosis is recognition of the clinical presentation and the detection of the agent in ocular samples by molecular biology. Confirmation of diagnosis is higher for PCR of vitreous samples compared to aqueous humor; this due to the fact that, anatomically the vitreous humor is closest to the necrotic lesions, leading to a better sampling of the parasitic DNA. In summary, a positive PCR study for *T. gondii* became a dependable alternative to diagnose retinochoroiditis in an immunocompromised patient.

## **Biography**

Gabriela Sanchez Petitto has completed her MD from the Universidad Central de Venezuela, School of Medicine. She is currently a Postgraduate student of Internal Medicine at the University of Texas Health Science Center at Houston. She has worked in several projects with hematological malignancies and in the upcoming future with antibiotic resistance projects.

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