DETECTION OF CYTOMEGALOVIRUS DNA IN AQUEOUS HUMOR OF POSNER-SCHLOSSMAN SYNDROME -- A CASE REPORT

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Purpose: To report the detection of virus DNA by polymerase chain reaction (PCR) in the aqueous humor of a patient with Posner-Schlossman syndrome (PSS).

Method: Interventional case report.

Results: A 41-year-old immunocompetent male presented with typical Posner-Schlossman syndrome and elevated intraocular pressure (IOP) refractory to anti-glaucoma medications. The aqueous humor sample was obtained when the patient underwent trabeculectomy. Cytomegalovirus (CMV) DNA was detected in the aqueous humor sample by PCR. The patient's IOP was well controlled after surgical intervention.

Conclusion: We report the detection of CMV by PCR in the aqueous humor of a patient with Posner-Schlossman syndrome. CMV virus infection might be one possible cause of Posner-Schlossman syndrome.

Key words: Posner-Schlossman, Cytomegalovirus, PCR, aqueous humor

INTRODUCTION

Posner-Schlossman syndrome (PSS), also known as glaucomatocyclitis crisis, is characterized by recurrent attacks of unilateral, acute ocular hypertension associated with mild anterior uveitis. The cause of the raised IOP is presumed to be acute trabeculitis and rarely chronic elevation of IOP may lead to cupping of the optic disc and constriction of visual field. The etiology of PSS is unclear. Virus infections such as herpes simplex virus (HSV), varicella zoster virus (VZV) and cytomegalovirus (CMV) have been proposed in recent studies but the evidences were not solid. Here, we examined a sample of aqueous humor from a PSS patient using polymerase chain reaction (PCR) and CMV DNA.

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