



Journal Homepage: - [www.journalijar.com](http://www.journalijar.com)

## INTERNATIONAL JOURNAL OF ADVANCED RESEARCH (IJAR)

Article DOI: 10.21474/IJAR01/17442

DOI URL: <http://dx.doi.org/10.21474/IJAR01/17442>



### RESEARCH ARTICLE

#### VIRAL RETINITIS OCCURRING IN IMMUNOCOMPETENT INDIVIDUAL

Manal Tabchi, Zeinabou H. Meimett, Adnane Mouline, Nouredine Boutimzine and Lalla Ouafa Cherkaoui  
Ophtalmology A, Hôpital des Spécialités de Rabat.

#### Manuscript Info

##### Manuscript History

Received: 20 June 2023

Final Accepted: 24 July 2023

Published: August 2023

#### Abstract

Retinal damage due to HSV is severe, with an extensive inflammatory reaction producing yellowish-white exudates and retinal necrosis. We report the case of a 30-year-old patient who presented with a rapidly progressive bilateral visual acuity loss. Treatment with intravenous acyclovir halts the progression of retinitis in most cases. Otherwise, foscarnet and other systemic antiviral agents may be indicated.

Copy Right, IJAR, 2023,. All rights reserved.

#### Introduction:-

HSV infection can affect the anterior segment of the eye, with conjunctivitis, keratitis and iritis, or cause posterior damage, notably retinochoroiditis.

Retinal damage due to HSV is severe, with an extensive inflammatory reaction producing yellowish-white exudates and retinal necrosis (1).

#### Observation:-

We report the case of a 30-year-old patient who presented with a rapidly progressive bilateral visual acuity loss.

Ophthalmological examination revealed visual acuity of 1/10 in both eyes, normal eye tone, cellular Tyndall and cortical cataract. Fundus examination revealed whitish retinal foci associated with haemorrhages and macular oedema, the optic disc and retinal vessels were normal.

A work-up revealed positive HSV serology, and negative HIV, CMV and toxoplasmosis serologies.

An anterior chamber puncture followed by PCR examination revealed the presence of HSV-2 virus in the aqueous humor.

The patient was treated with IV acyclovir and general corticosteroid therapy.

The evolution was marked by an improvement in visual acuity and a regression of the retinal foci of necrosis.

#### Discussion:-

Viral retinitis covers a wide range of clinical presentations, depending on the host's immune status. Acute retinal necrosis also occurs in immunocompetent individuals, due to the high virulence of HSV viruses, which explains the brutal and rapidly progressive nature of the damage, despite an effective defense system (2).

**Corresponding Author:- Manal Tabchi**

Address:- Ophtalmology A, Hôpital des Spécialités de Rabat.

Treatment is based on intravenous acyclovir (15 mg/kg every 8 hours) for 10-14 days, followed by 800 mg orally, five times a day, for 6-12 weeks. Oral valaciclovir and famciclovir gives similar results. Intravitreal ganciclovir or foscarnet are also used in severe cases. Systemic steroids can be administered 24 hours after the start of antiviral treatment, particularly in severe cases. In the absence of treatment, the second eye is affected in 30% of cases, usually within two months (3).

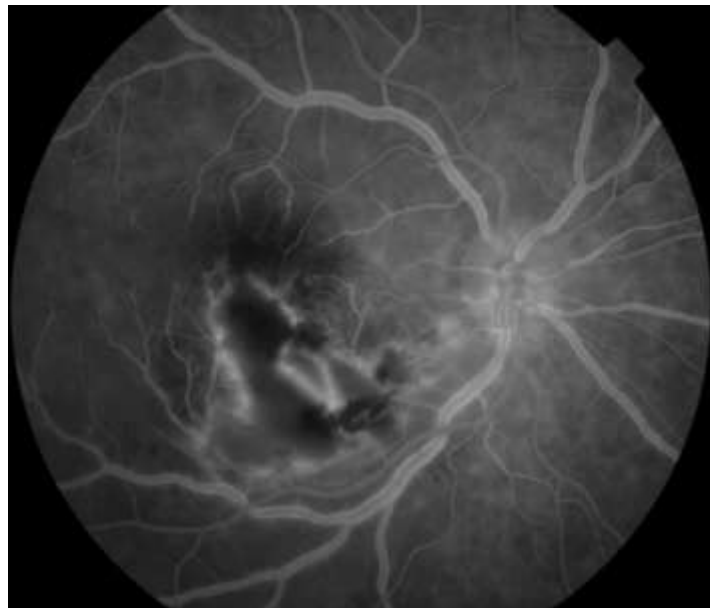
### Conclusion:-

Although more common in immunocompromised people, herpetic retinitis is not uncommon in immunocompetent individuals.

Treatment with intravenous acyclovir halts the progression of retinitis in most cases. Otherwise, foscarnet and other systemic antiviral agents may be indicated (4).



**Fig 1:-** Retinography of the right eye showing a whitish retinal focus with multiple haemorrhages.



**Fig 2:-** Fluorescein angiography of the right eye showing a hypofluorescent lesion with increased diffusion in the late stages.

**Références:-**

- 1 : Zitelli and Davis' Atlas of Pediatric Physical Diagnosis, 20, 689-740
- 2 : Anne-Laure Remond, Phuc Le Hoang et Bahram Bodaghi Uvéite, Chapitre 35, 321-332
- 3 : John F. Salmon MD, FRCS, FRCOphth Kanski's Synopsis of Clinical Ophthalmology, Chapter 12, 209-242
- 4 : Marlene L. Durand Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases, 115, 1531-1540.e2.