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Ocular manifestations of AIDS (accuired immune-deficiency

syndrome)

Ranitava Banerjee

Centurion University of Technology and Management, Odisha

1. Introduction to AIDS/HIV

The disease Acquired immune deficiency syndrome (AIDS) is the manifestation of Human

immunodeficiency virus (HIV), an RNA virus. The virus has two subtypes of which HIV-1 is

responsible for human infection. HIV (Human Immuno-deficiency Virus) infection is seen in a

variety of ways associated with the ocular structures, with the influx of CD4+ T lymphocyte in the

bloodstream the disease becomes more severe and its association with the ocular structures

increases. In earlier stages Kaposi sarcoma, herpes zoster ophthalmicus (HZO), candidiasis, and

lymphoma are commonly seen whereas tuberculosis, toxoplasmosis, etc occur later with more

advancement of the disease. In patients with huge reduction of CD4 cell count, cytomegalovirus

retinitis and mycobacterium-avium complex disease is also seen as the manifestation of HIV in

individuals.

2. History and prevalence of HIV infection

In 1981, for the first time the clinical manifestations to human immunodeficiency virus-I (HIV-I)

infection werelinked with common eye involvements including cotton wool spots, cytomegalovirus,

periphlebitis, and Kaposi sarcoma. Individuals who showed positive response to Highly active

anti-retroviral therapy (HAART) showed improvement in their immune status.

From 2007 till 2016 the demographic data shows that, out of all the individuals affected with

HIV/AIDS worldwide, ninety-five percent of the infection and death occurred in developing

nations. HIV transmission occurs by sexual contact, by exposure to infected blood or fluids; of the

common route the needle-sharing is the most common way for HIV to transmit, or it can transmit

through an infected mother to the foetus during gestational stage.

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