

# Hyper Eosinophilia and Dementia

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## Abstract

In this brief paper, we consider how the Herpes Virus could possibly be the culprit when the body responds to a latent infection causing dementia. The over production of white blood cells passing through the Blood-Brain-Barrier leads to death of nerve cells. This is the path toward dementia.

**Keywords:** hsv-1; cytokine; dementia; hyper eosinophilia.

## Introduction

When a patient has a weakened immune system, in those previously infected, the latent HSV-1 travels from the brain, down the trigeminal nerve in the face and a cold sore (encephalitic lesion) appears in the lip. The lifelong chronic response to it is to have T-Cells CD4 and CD8 produced by the Thymus up until age 50 in the infected cells in the nerve cells.

Cytokine is the response to the infection. Eosinophil (white blood cells) are produced. Overproduction of eosinophils leads to apoptosis (death) of the infected cells. This includes nerve cells in the brain despite the Blood Brain Barrier. A certain percentage of White Blood Cells pass the BBB.

Cytotoxic T-Cells attack virus containing cells. T-Cells secrete cytokines to directly attack infected (and cancerous) cells. Because of the hyper eosinophilia (over supply of white blood cells) cancer is controlled. Therefore, patients who have Dementia cannot have cancer.

The good news is there is a cure for the HSV-1 developed by Immunologists from AIDS research.

## Conclusion

Apoptosis of brain cells from hyper eosinophilia leads to Dementia.

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