



Genetic Variations of V3 and C3 Regions in Gp120 Protein of HIV-1 Env Gene

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HIV-associated neurocognitive disorder (HAND) is an important cause of morbidity of HIV patients. The development of neurological disease among individuals having an HIV infection is variable. The env sequences of HIV-1 are important for cell entry and neurotropism. The env sequences vary among individuals having HIV infection. Hence the development of neurotoxicity differs among individuals with HIV infection. So far, none of the studies reported the mechanism of neurotoxicity in astrocytes. Hence we comprehended the genetic profile of the gp120 protein of HIV-1 env gene which influences the pathogenesis of neurocognitive diseases.

Method

We led the search utilizing multiple databases, specifically, EMBASE, PubMed (Medline), and Google Scholar.

Description

Pathogenesis of HAND is influenced by HIV-1 env sequences. The gp120 glycoprotein serves as a determinant to cross the blood-brain barrier and maintain neurocognitive impairments. The persistence of env sequences within the CNS leads to neurovirulent features and neurotoxicity. The evolution of the env gene is a continuing process that contributes to neurocognitive disease severity.

Conclusion

Genetic profiling of V3 and C3 regions of gp120 motifs in a larger number of HAND patients with various ethnic groups will provide data for the correlation of V3 and C3 regions with IHDS and cognition parameters. This will help to define the risk factor which can contribute to neurocognitive disease.

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