

5th World Hematologists Congress

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August 18-19, 2016 London, UK

Kaposi's sarcoma-associated herpesvirus (KSHV/HHV-8) among patients with lymphoproliferative diseases and chronic blood disorders.

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OBJECTIVE:

Human herpesvirus 8 (HHV-8) is the causative agent of Kaposi's sarcoma(KS), but it has also been associated with different hematologic malignancies, including, plasmablastic lymphoma, multicentric Castelman's disease (MCD), primary effusion lymphoma(PEL) and various atypical lymphoproliferative disorders.

Patients with underlying lymphoproliferative diseases and chronic blood disorders who become infected with this virus are at risk for human malignancies. This small study attempts to confirm this relation between the Human herpesvirus 8 infection as one of the predisposing factor of acute malignancy in patients with lymphoproliferative disorders.

METHODS:

The laboratory records of 73 patients' PBMC samples, which were tested for detection of HHV-8 open- reading frame (ORF) 26 DNA by nested PCR amplification during the period from September 2014 to September 2015, were reviewed retrospectively at the Firouzgar Hospital ,Tehran,Iran.

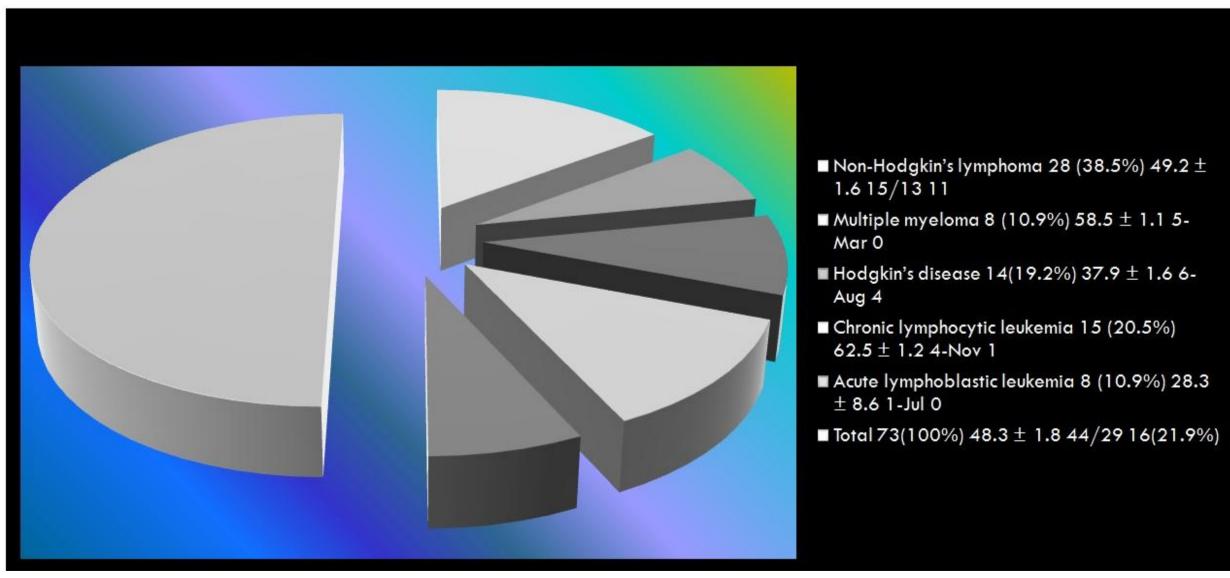


Chart I. Human herpesvirus 8 Infection Among Patients With Lymphoprolifetative Disorders

Keywords:

Human herpesvirus 8, lymphoproliferative diseases, PBMC.

RESULTS:

HHV-8 was detected in PBMCs from 16 (21.9%) of the 73 patients with lymphoproliferative and chronic blood disorders using nested PCR. Elevent out of the 16 positive patients had Non-Hodgkin's lymphoma as One out of the 16 positive patients suffered from Chronic lymphocytic leukemia and the others suffered from Hodgkin's lymphoma.

CONCLUSION:

We conclude that HHV-8 can be considered as one of the predisposing actors of malignancy in patients with lympho proliferative and chronic blood disorders. Furthermore, it does not rule out the possibility that other immunological triggers and environmental risk factors may account for their etiopathogenesis.

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