

عنوان مقاله:

Evaluation of TAX ,HBZ and BCL-XL Gene Expression in Adult T cell Leukemia/Lymphoma (ATL) and Healthy Carriers

محل انتشار:

اولین سمپوزیوم بین المللی سرطان نسترن (سال: 1394)

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خلاصه مقاله:

HTLV-I is a worldwide distribution retrovirus with 10-20 million infected individuals. Northeast of Iran especially Mashhad is one of the endemic areas. In spite of the healthy carriers are the majority of HTLV-I-infected individuals but small proportion of infected population developed two progressive diseases: ATL and HAM/TSP. ATLL is an Adult T Cell leukaemia/lymphoma caused by the aggressive T-cell proliferation that infected by HTLV-1 and is associated with a very poor prognosis. BCL-XL belongs to BCL2 family which inhibits apoptosis in cell so over expression of this gene may promote the uncontrolled cell proliferation. TAX and HBZ are two major oncoprotein which they are the main cause of malignancy which may interrupt in apoptosis, therefore in this study co expression of TAX, HBZ and BCL-XL were evaluated. In this study, 37 HTLV-I infected individuals including 17 asymptomatic 20 ATL subjects were investigated. mRNA were extracted and convert to cDNA from Peripheral blood mononuclear cells (PBMCs) then expression of TAX, HBZ and BCL-XL investigated by TaqMan qPCR. The analysis of data showed a significant difference in mean of TAX and HBZ expression among study groups (ATL and carriers $P = (0.003)$ and $P = (0.000)$ respectively, In spite of BCL-XL elevated gene expression it seems no difference between studies groups ($P = 0.323$). The present study demonstrated that TAX and HBZ were higher in ATL group in comparison with healthy carriers. With the regard to BCL-XL gene expression results it suggested this anti apoptotic pathway might not be

involved in malignancy;Therefore, TAX and HBZ can be used as prognostic and monitoring marker for the efficiencyof
.therapeutic regime and prognosis of HTLV-I associated malignancy

کلمات کلیدی:

ATLL, HTLV-I, TAX, HBZ, BCL-XL

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