Proteomic Analysis of Cerebrospinal Fluid From Patients With Extranodal NK-/T-Cell Lymphoma of Nasal-Type With Ethmoidal Sinus Metastasis.

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Proteomic Analysis Of Cerebrospinal Fluid From Patients With Extranodal NK-/T-Cell Lymphoma Of Nasal-Type With Ethmoidal Sinus Metastasis

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Abstract

Objective: Extranodal Natural Killer /T-Cell Lymphoma (ENKTL) Is An Aggressive And Unusual Subtype Of Non-Hodgkin Lymphoma (NHL) That It Is Related With The Epstein-Barr Virus (EBV). CSF Is Considered As An Ideal Source Of High-Concentration Disease-Related Proteins. We Aimed At Identifying The Proteomic Markers Changes Of CSF In ENKTL Patients And Used Such Changes To Diagnose ENKTL.

Materials And Methods: In This Study, CSF Samples Were Acquired From Hospitalization Patients From The Cancer Center Of West China Hospital, Chengdu, China. Comparative Proteomic Profiling Are Commonly Used To Do Label-Free Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS). And In This Study The Same Method Was Used To Characterize The Variety Of Proteins In ENKTL Patients And None-ENKTL People.

Results: In The Aggregate, 421 Non-Excrescent And Functional Proteins Were Identified Among The Samples. Of These Proteins, 45 Proteins Quantified Match The Involved Criteria. HRG, TIMP-1, SERPINA3, FGA, FGG, TF, FGB, APP, And AGT Were Significantly Up-Regulated.

Discussion: We Discovered That Some Proteins Were Significantly Up-Regulated. Also, These Proteins Themselves Or With Others Proteins May Be Potential Markers To Diagnose ENKTL. The Changes Of Proteomics May Be A Potential Method To Precisely Identify The Pathogenesis Of The ENKTL.

Keywords: CSF; ENKTL; Lymphoma; Proteome; Proteomics Analysis

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