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627.AGGRESSIVE LYMPHOMAS: CLINICAL AND EPIDEMIOLOGICAL

High IL-10 Expression Is Associated with Poor Prognosis in Primary Gastrointestinal LymphomaLingli Wang¹, Lan Ma¹, Jinjie Gao¹, Wei Wan¹, Ping Yang¹, Mingxia Zhu¹, Fei Dong¹, Hongmei Jing, MD²¹Peking University Third Hospital, Beijing, China²Department of Hematology and Lymphoma Research Center, Peking University Third Hospital, Beijing, China

Background: Primary gastrointestinal lymphoma (PGIL) is defined as the primary malignant lymphoma of the gastrointestinal tract. The long-term prognosis and life quality of PGIL patients are influenced due to gastrointestinal complications. Cytokines have a close immunological relationship with lymphocytes, however, the relationship with serum cytokines and PGIL prognosis is still unknown.

Method: We conducted a retrospective analysis of 165 PGIL patients referred to Department of Hematology of Peking University Third Hospital over a 10-year period between 2012-2022, and serum cytokine detection was performed on 85 patients' peripheral blood. Serum cytokine (IL-2, IL-4, IL-6, IL-9, IL-10, TNF- α) were quantified using flow cytometer. Median follow-up time was 29 months, and 1-year progression-free survival (PFS) of total PGIL patients was 84.1%, and 3-year PFS was 67.9%. The 1-year overall survival (OS) was 90.9%, and 3-year OS was 89.2%.

Results: The median age of PGIL patients was 57-year-old, and 58.8% of them were male. The two most common pathological types were diffuse large B-Cell lymphoma (40.0%) and mucosa-associated lymphoid tissue (30.6%). Our results also showed that IL-4 level was higher in surviving PGIL patients, while IL-10 level was higher in deceased PGIL patients. There was no statistically significant difference in other serum cytokines (IL-2, IL-6, IL-9, TNF- α) between surviving and deceased PGIL patients. Survival analysis showed that the OS of patients in the low IL-10 level group was lower than that in the high IL-10 group ($P=0.03$).

Conclusion: High IL-10 expression is associated with poor prognosis in primary gastrointestinal lymphoma

Disclosures No relevant conflicts of interest to declare.

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