

# Patterns of Hematolymphoid Tumors in a Saudi Tertiary Care Hospital

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## ABSTRACT

**Background and Objectives:** Hematolymphoid tumors comprise a group of most common malignancies originating from lymphoid or myeloid precursors. The appropriate diagnosis is the key to the successful management of these patients. The aim of the study is to evaluate the distribution patterns of various types and subtypes of hematolymphoid malignancies in the Saudi population.

**Methods:** This retrospective study was designed to determine the relative frequency of hematolymphoid malignancies in patients presented to King Khaled University Hospital, Saudi Arabia, over 5 years from January 2017 to December 2022. The clinical and medical records of the patients were accessed from the electronic database. In our analysis, Stata was utilized. The P = 0.05 threshold for statistical significance was used.

**Results:** This retrospective study was performed on data obtained from 727 patients with hematolymphoid malignancies, with a median age of 47.5 years. Of these, 63.5% (n = 462) patients had lymphoma. The highest frequency was observed for Large B cell lymphoma (n=179) and Classical Hodgkin's lymphoma (n=138). For myeloid malignancies and acute leukemias, ALL was the most common subtype reported in 62 (8%) patients with a median age of 16 years, followed by myeloproliferative neoplasms (7%) and acute myeloid leukemia (7%). Plasma cell dyscrasia represents 9% of hematolymphoid tumors.

**Conclusion:** The patterns of the subtypes of these cancers in the Saudi population are comparable to the global estimates. The incidence of rare forms of hematolymphoid malignancies suggests that the differential diagnosis is the key to increasing the overall survival rates for these cancers in Saudi Arabia and, therefore, must be considered in the management triage of lymphoma and acute leukemia patients.

**Keywords:** Lymphoma, Leukemia, Myeloma, DLBCL, Hodgkin lymphoma

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