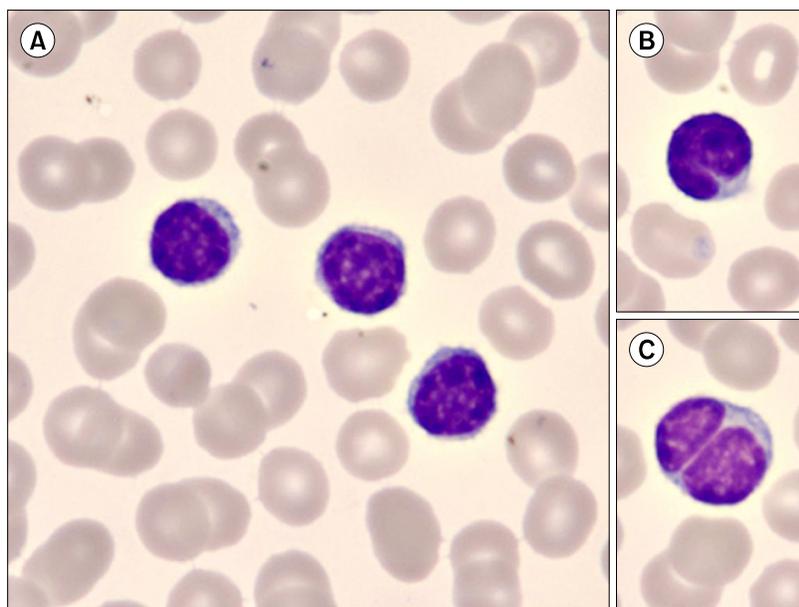


Follicular lymphoma in leukemic phase with unusual morphology at diagnosis

Joowon Park

Department of Laboratory Medicine, Dankook University Hospital, Cheonan, Korea

Correspondence to Joowon Park, M.D., Department of Laboratory Medicine, Dankook University Hospital, 201, Manghyang-ro, Dongnam-gu, Cheonan 31116, Korea, E-mail: joowon@dankook.ac.kr



A 60-year-old man was admitted for evaluation of leukocytosis found on a regular checkup. Physical examination revealed palpable neck lymph nodes. Peripheral blood (PB) findings were as follows: hemoglobin level, 16.6 g/dL; platelet count, $245 \times 10^9/L$; and leukocyte count, $41.6 \times 10^9/L$ (11% neutrophils, 86% lymphocytes, and 3% monocytes). Most lymphocytes were small to medium-sized with scant but visible cytoplasm, and non-lobulated nuclei (A). A few cells with indented or cleft nuclei were observed (B, C). The bone marrow (BM) was hypercellular with diffuse infiltration of small to medium-sized lymphoid cells. On immunophenotyping, 42% and 56% of all nucleated PB and BM cells, respectively, showed $CD5^+$, $CD10^+$, $CD19^+$, $CD20^+$, $CD23^{weak+}$, and $FMC7^+$, with lambda light chain restriction. Chronic lymphocytic leukemia (CLL) was ruled out considering the phenotypic features. Cytogenetic analysis of the BM aspirate revealed $t(14;18)(q32;q21)$. Computed tomography revealed multiple lymphadenopathy. Cervical lymph node biopsy findings indicated a diagnosis of grade 1-2 follicular lymphoma. Circulating cells of follicular lymphoma in leukemic phase usually show a predominance of the characteristic “cleaved” feature, but may resemble the features of other lymphoproliferative disorders including CLL on rare occasions. Immunophenotypic analysis is useful for a proper differential diagnosis in such cases.