Molecular Subtypes of Lymphoma: Diagnostic Approaches and Implications

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Lymphomas, a heterogeneous group of malignancies arising from lymphoid tissue, are classiýed int aneou]
(CLL), and Primary Mediastinal Large B-cell Lymphoma (PMBL). It highlights the diagnostic approaches used to identify these subtypes, including histopathology, immunohistochemistry, cytogenetics, molecular genetics, next-generation sequencing, and þow cytometry. The implications of accurate molecular subtyping on treatment decisions and prognostication are also discussed. By integrating molecular and traditional diagnostic methods, clinicians can better personalize treatment strategies and improve patient outcomes.

Keywords:

Introduction

Mantle cell lymphoma (MCL):

Chronic lymphocytic leukemia (CLL):

Primary mediastinal large b-cell lymphoma (PMBL):

Diagnostic approaches

Histopathology:

Immunohistochemistry (IHC):

Cytogenetics:

Molecular genetics:

Next-generation sequencing (NGS):

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Flow cytometry:

Implications for treatment and prognosis

Treatment tailoring:

Prognostic indicators:

Monitoring and follow-up:

Discussion

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