Diffuse Large B-Cell Lymphomas and Burkitt Lymphoma

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KEYWORDS

- WHO 2008 classification Diffuse large B-cell lymphoma
- Burkitt Burkitt-like High-grade Pathology Genetics
- Diagnosis

DIFFUSE LARGE B-CELL LYMPHOMAS

Diffuse large B-cell lymphomas (DLBCLs), defined as neoplasms of large transformed B cells (with nuclear diameter more than twice that of a normal lymphocyte), account for 30% to 40% of all adult non-Hodgkin lymphomas. Although an increasing number of subtypes and entities have been recognized by virtue of their distinctive immunophenotypic and/or clinical and pathologic features, the majority of cases fall into the category of DLBCL, not otherwise specified (DLBCL, NOS). DLBCL, NOS is the usual form of DLBCL and represents the diagnosis assigned after exclusion of more specific categories (**Box 1**).

Diffuse Large B-cell Lymphoma, Not Otherwise Specified

DLBCL, NOS usually affects adults with a median age at presentation in the seventh decade, but it also affects children and young adults. The disease may arise in any anatomic location and up to one-third of cases present in extranodal sites. DLBCL, NOS may occur de novo or as a transformation from an underlying small B-cell lymphoma.

Morphology

By order of decreasing frequency, the centroblastic, immunoblastic, and anaplastic variants are the most common morphologic variants (Fig. 1). Occasional tumors are made up of signet ring or spindled cells and may be confused with nonhematologic tumors. Given the poor reproducibility of cytologic classification and unresolved

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Box 1	
	ffuse large B-cell lymphomas and Burkitt lymphoma
Diffuse large B-ce	ll lymphomas (DLBCLs)
Diffuse large B-ce	II lymphoma, not otherwise specified
Morphologic v	variants: centroblastic, immunoblastic, anaplastic
Molecular sub	groups ^a
Immunohistoc	hemical subgroups ^a
Diffuse large B-ce	II lymphoma subtypes
T-cell/histiocyte	e-rich large B-cell lymphoma
Primary DLBCL	of the central nervous system ^a
Primary cutane	eous DLBCL, leg type ^a
Epstein Barr vi	irus-positive DLBCL of the elderely ^a
Diffuse large B-ce	II lymphoma entities
Primary media	stinal (thymic) large B-cell lymphoma
Intravascular la	arge B-cell lymphoma
DLBCL associat lymphoma)	ted with chronic inflammation (previously called pyothorax-associated
Lymphomatoid	d granulomatosis
Anaplastic lym	nphoma kinase–positive large B-cell lymphoma ^b
Plasmablastic l	lymphoma ^b
Large B-cell lyı disease ^a	mphoma arising in human herpesvirus-8–associated multicentric Castleman
Primary effusion	on lymphoma
Burkitt lymphoma	э (BL)
Borderline catego	pries
B-cell lymphor	na, unclassifiable, with features intermediate between DLBCL and BL^{a}
B-cell lymphor Hodgkin lymp	na, unclassifiable, with features intermediate between DLBCL and classical homa ^a
the 2001 Classification b listed as DLBCL v	ntly recognized entities in the 2008 WHO Classification that were not listed in ation. variants in the 2001 Classification. Idlow SH, Campo F, Harris NI, et al. WHO Classification of tumours of haema-

Data from Swerdlow SH, Campo E, Harris NL, et al. WHO Classification of tumours of haema-topoietic and lymphoid tissues. Lyon: IARC Press; 2008.

controversy regarding possible worse prognosis of immunoblastic tumors, there is no consensus on the usefulness of morphologic subtyping.^{1,2}

Bone marrow involvement in DLBCL, seen in about 15% of the cases, may appear either as a large-cell infiltrate or, slightly more commonly, as an infiltrate of predominantly small B cells ("discordant" marrow involvement); prognosis in the latter is not worse than that in cases without marrow involvement, but it may confer a higher risk of late relapses.^{3,4}

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