# Key Updates in Bispecific Antibodies in Non-Hodgkin Lymphoma Management—Unmet Needs and Opportunities for Improved Management in Later-Line Management

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#### **Disclosures**

 Mehdi Hamadani, MD, reports that he is a consultant for Incyte Corporation, MorphoSys, Seagen, Gamida Cell, Novartis, Legend Biotech, Kadmon, ADC Therapeutics, Omeros, AbbVie, Genmab, and Caribou Biosciences; he also is a speaker for Sanofi, AstraZeneca, BeiGene, ADC Therapeutics, and Kite Pharma and provides contract research funding to ADC Therapeutics and Spectrum Pharmaceuticals

All relevant financial relationships have been mitigated.

During this lecture Dr. Hamadani may mention the use of medications for both US Food and Drug Administration (FDA)-approved and non-FDA-approved indications.

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## **Learning Objectives**

- Recognize approaches to use of novel bispecific antibody therapies in the management of non-Hodgkin lymphoma (NHL)
- Analyze the latest outcomes of clinical trials in NHL incorporating bispecific antibody therapy
- Summarize the latest data concerning potential adverse events associated with novel bispecific antibodies in NHL

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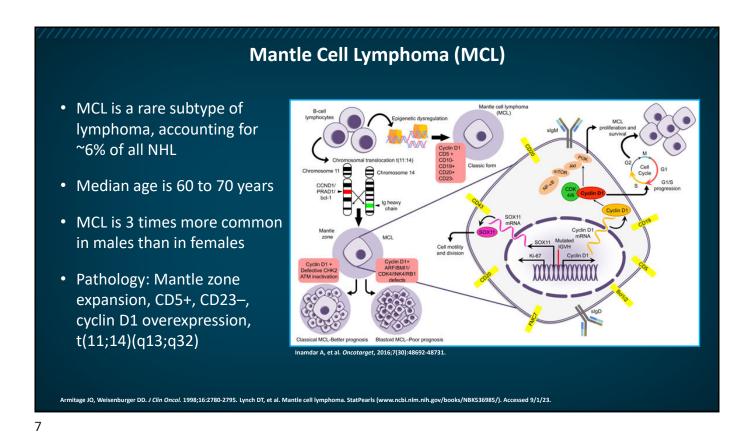
# **Pre-Read Slides**

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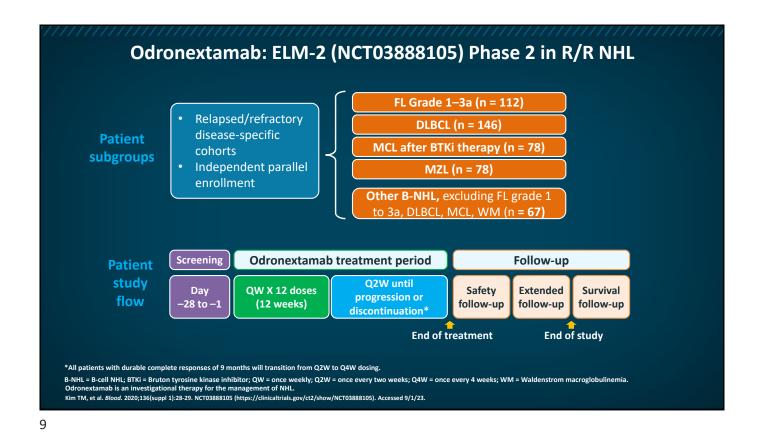
#### **Diffuse Large B-Cell Lymphoma** Cell of origin Most common NHL in US and worldwide GCB Typically occurs in 6th decade of life, more Double-expresser Double-hit common in males (55% males) lymphomas lymphomas Approximately half of patients present with advanced-stage disease Elevated LDH ~40% Any extranodal involvement 40% to 70% Genetic subtypes - Bone marrow involvement 10% to 20% Unclassified (N = 115) GCB (N = 164) ABC (N = 295) - CNS involvement <1% (~3% during entire course of disease) Clinically and biologically heterogeneous based on cell of origin (eg, GCB, ABC, or unclassified) Typically, CD20-positive MCD BN2 Other ABC Other GCB Other unclassified C = activated B-cell like; CD = cluster of differentiation; CNS = central nervous system; GCB = germinal center B; LDH = lactate dehydrogenase. Abramson JS, Shipp MA. Blood. 2005;106:1164-1174. Dunleavy K. Curr Treat Options Oncol. 2015;16:58. Schmitz R, et al. N Engl J Med. 2018;378:1396-1407. ACS. Key statistics for non-Hodgkin lymphoma, 2023 (https://www.cancer.org/cancer/types/non-hodgkin-lymphoma/about/key-statistics.html statistics). Accessed 9/1/23.

### **Follicular Lymphoma** Follicular lymphoma (FL) is the most Bone marrow common indolent lymphoma subtype, V(D)J rearrangement with ~13,000 cases diagnosed each year; FL is slightly more common in males than females • Relative 5-year survival rate = 90.6% Germinal Center However, outcomes are poorer in patients with relapsed/refractory disease within 12 months of diagnosis Recognizing early clinical failure and appropriate management is important in optimizing clinical outcomes Follicular Lymphoma International Prognostic Index (FLIPI) Cerhan IR. Hematol Oncol Clin North Am. 2020;34:631-646. National Cancer Institute (NCI). Cancer stat facts: NHL—follicular lymphoma (https://seer.cancer.gov/statfacts/html/follicular.html). Accessed 9/1/23.

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**Epcoritamab: EPCORE NHL-1 LBCL Expansion Cohort** Dose escalation Dose-expansion data cutoff: January 31, 2022; median follow-up: 10.7 months Key inclusion criteria **Epcoritamab SC** LBCL cohort Step-up dosing **B-cell NHL** N = 157
DLBCL, HGBCL,
PMBCL, and **Treatment** RP2D 48 mg R/R CD20<sup>+</sup> mature B-cell No DLTs until PD or QW cycle 1-3, unacceptable Q2W cycle 4–9, Q4W cycle 10+ MTD not reached toxicity RP2D identified FL grade 3b therapy, including ≥1 anti-CD20 Manageable safety profile To ensure patient safety and better characterize CRS, inpatient monitoring was required at first full Encouraging disease by CT/MRI Primary endpoint: Objective response rate (ORR) by independent review committee (IRC) antitumor activity Key secondary endpoints: Duration of response (DOR), TTR, PFS, OS, CRR, and safety/tolerability LBCL (N = 157) LBCL (N = 157) CRS events, n (%)\* 78 (49.7) 64 (20-83) Median age (range), years Grade 1 to 2 74 (47.1) Median prior lines of therapy (range) 3 (2-11) Grade 3 4 (2.5) Refractory to last systemic therapy, n (%) 130 (83) Median time to resolution from first full dose, days 2 Prior ASCT, n (%) 31 (20) Treated with tocilizumab, n (%) 22 (14.0) Prior CAR T-cell therapy, n (%) 61 (39) Treated with corticosteroids, n (%) 16 (10.2) Progressed within 6 months of CAR T-cell 46/61 (75) Leading to treatment discontinuation, n (%) therapy 1 (0.6) Graded by criteria in Lee DW, et al. Biol Blood Marrow Transplant. 2019;25:625-638. ted tomography; CRS = cytokine release syndrome; DLT = dose-limiting toxicity; FDG = fluorodeoxyglucose; LBCL = large B-cell lymphoma; MRI = magnetic resonance imaging; MTD = maximum tolerated dose; Q4W = every 4 weeks; PET = positron emission tomography; TTR = time-to-treatment relapse Thieblemont C, et al. J Clin Oncol. 2022;41:2238-2247.



Pivotal Phase 2 Expansion Trial of Glofitamab in R/R DLBCL and ≥2 Prior Therapies **Glofitamab administration** Key inclusion criteria DLBCL NOS, HGBCL, transformed **Fixed-duration treatment** 21-day cycles D15: - Maximum of 12 cycles 10 mg ≥2 prior therapies, including anti-CD20 antibody and D1: 30 mg 30 mg 2.5 mg - Obinutuzumab pretreatment (1000 mg) D1: Gpt C1 step-up dosing Monitoring after first dose (2.5 mg) Primary endpoint: CR (best response) rate by IRC\* Secondary endpoints: ORR, DoR, DoCR, PFS, and OS \*By PET-CT (Lugano criteria). Glofitamab is FDA-approved for R/R DLBCL. C = cycle; D = day; DoCR = duration of complete response; Gpt = obinutuzumab pretreatment; HGBCL = high-grade BCL; NOS = not otherwise specified; PMBCL = primary mediastinal large BCL. Dickinson M, et al. N Engl J Med. 2022;387:2220-2231.

## Glofitamab in R/R DLBCL: Baseline Characteristics

n (%)	N = 154*		
Median age, ye	66.0 (21–90)		
Male	100 (64.9)		
ECOG PS†	0 1	69 (44.8) 84 (54.5)	
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	I	10 (6.5)	
Ann Arbor	II	25 (16.2)	
stage	III	31 (20.1)	
	IV	85 (55.2)	
	DLBCL	110 (71.4)	
NHL subtype	trFL	27 (17.5)	
	HGBCL	11 (7.1)	
	PMBCL	6 (3.9) <sup>´</sup>	
Bulky	>6 cm	64 (41.6)	
disease	>10 cm	18 (11.7)	

n (%)	N = 154*		
Prior lines, median n (range)	3 (2–7)		
≥3 prior lines	92 (59.7)		
Prior anti-CD20 antibody (Ab)	154 (100.0)		
Prior anthracycline	149 (96.8)		
Prior CAR T-cell therapy	51 (33.1)		
Prior ASCT	28 (18.2)		
Refractory to any prior therapy	139 (90.3)		
Refractory to last prior therapy	132 (85.7)		
Primary refractory	90 (58.4)		
Refractory to prior CAR T-cell therapy	46 (29.9)		
Refractory to any prior anti-CD20	128 (83.1)		

## Heavily pretreated, highly refractory population

\*Safety-evaluable population (all treated patients); †ECOG PS 2, n = 1 (0.6%).
Glofitamab is FDA-approved for R/R DLBCL.
HGBCL = high-grade B-cell lymphoma; PMBCL = primary mediastinal large B-cell lymphoma; trFL = transformed follicular lymphoma.

Dickinson M, et al. J Clin Oncol. 2022;40(16 suppl); Abstract 7500. Dickinson M, et al. N Engl J Med. 2022;387:2220-2231.

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## Summary of Bispecific Antibody Studies in R/R MCL

				CRS/ICANS
Bispecific	Number	ORR%	CR %	(Grade 3/4)
Glofitamab <sup>1</sup>	37	83.8	73	16%/0%
Mosunetuzumab <sup>2</sup>	13	31	23	Not reported
Odronextamab <sup>3</sup>	12	50	33	Not reported
Epcoritamab <sup>4</sup>	5	60	20	Not reported

Philips TJ, et al. Blood. 2022;140(suppl 1):178-180. Budde LE, et al. J Clin Oncol. 2022;40(5):481-491; 1055-1065. Bannerji R, et al. Lancet Haem. 2022;9:e327-e339. Hutchings M, et al. Lancet. 2021;398:1157-1169.