

Bispecific antibodies for lymphoma: updates and practical considerations

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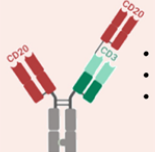
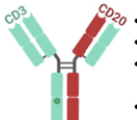

Outline

- Recent updates in bispecifics for FL and DLBCL
- Practical considerations in use of bispecifics

Bispecific antibodies for lymphoma

Indication	Regimen	Phase	N	CR Rate	PFS	Median Follow Up	Approval Status	Reference
DLBCL 1st line	Epcoritamab + R-CHOP	Phase 1b/2	47	85.0%	NR	38.8 mo	Not approved; not included in NCCN	EPCORE-NHL-2. Falchi et al. Blood (2025) 146 (Supplement 1): 1955.
	Glofitamab + Pola-R-CHOP	Phase 2	80	98.0%	86% (2-y)	20.7 mo	Not approved; not included in NCCN	COALITION: Minson et al. J Clin Oncol. 2025 Aug 10;43(23):2595-2605.
	Mosunetuzumab	Phase 2	49	59.2%	68.8% (1-y)	12.5 mo	Not approved; not included in NCCN	MorningSun: Sharman et al. Blood (2025) 146 (Supplement 1): 62.
DLBCL 2nd line	Glofitamab + GemOx	Phase 3	183	58.5%	13.8 mo	20.7 mo	Not approved; included in NCCN	STARGLO: Abramson et al. Lancet. 2024 Nov 16;404(10466):1940-1954.
	Epcoritamab + GemOx	Phase 1b/2	103	61.2%	44% (1-y)	13.2 mo	Not approved; included in NCCN	EPCORE NHL-2: Brody et al. Blood. 2025 Apr 10;145(15):1621-1631.
	Mosunetuzumab + Polatuzumab	Phase 3	138	55.1%	11.5 mo	23.2 mo	Not approved; included in NCCN	SUNMO: Budde et al. J Clin Oncol. 2025 Dec 20;43(36):3799-3811.
	Glofitamab + Polatuzumab	Phase 1b/2	129	59.7%	12.3 mo	25.5 mo	Not approved; included in NCCN	Hutchings et al. J Clin Oncol. 2025 Dec 20;43(36):3788-3798.
DLBCL 3rd line	Glofitamab	Phase 1/2	154	39.0%	37% (1-y)	12.6 mo	Accelerated approval; included in NCCN	Dickinson et al. N Engl J Med. 2022 Dec 15;387(24):2220-2231.
	Epcoritamab	Phase 1/2	157	38.9%	4.4 mo	10.7 mo	Accelerated approval; included in NCCN	EPCORE NHL-1: Thieblemont et al. J Clin Oncol. 2023 Apr 20;41(12):2238-2247.
FL 1st line	Mosunetuzumab	Phase 2	43	81.0%	Not reported	6 mo	Not approved; not included in NCCN	Falchi et al. Blood (2023) 142 (Supplement 1): 604.
FL 2nd line	Epcoritamab + R2	Phase 3	243	83.0%	85.5% (16-mo)	14.8 mo	Approved; included in NCCN	EPCORE FL-1: Lancet. 2026 Jan 10;407(10524):161-173.
FL 3rd line	Epcoritamab	Phase 1/2	128	62.5%	49.4% (18-mo)	5.7 mo	Accelerated approval; included in NCCN	EPCORE NHL-1: Linton et al. Lancet Haematol. 2024 Aug;11(8):e593-e605.
	Mosunetuzumab	Phase 2	90	60.0%	17.9 mo	18.3 mo	Accelerated approval; included in NCCN	Budde et al. Lancet Oncol. 2022 Aug;23(8):1055-1065.
MCL 2nd line	Glofitamab	Phase 1/2	60	78.3%	16.8 mo	19.6 mo	Not approved; included in NCCN	Phillips et al. J Clin Oncol. 2025 Jan 20;43(3):318-328.
	Mosunetuzumab + Polatuzumab	Phase 2	42	79.0%	19 mo	Not reported	Not approved; included in NCCN	MCL-1493: Wang et al. Clinical Lymphoma, Myeloma and Leukemia, 25S858
MZL 1st line	Mosunetuzumab	Phase 2	36	61.0%	Not reported	11.3 mo	Not approved; not included in NCCN	Burke et al. EHA 2025

Bispecific antibodies for hematologic malignancies

Bi-Specific Antibody	Targets	Design	Ig Fragment Formats	Ref.
blinatumomab	CD19 x CD3		<ul style="list-style-type: none"> two murine scFv joined by a glycine-serine linker monovalent CD19 and monovalent CD3 binding cloned from anti-CD19 (clone HD37) and anti-CD3 (clone L2K-07) murine mAbs 	1, 2, 3
mosunetuzumab	CD20 x CD3		<ul style="list-style-type: none"> humanized mouse heterodimeric IgG1-based antibody monovalent CD20 and monovalent CD3e binding modified Fc devoid of FcγR and complement binding 	4
glofitamab	(CD20) ₂ x CD3		<ul style="list-style-type: none"> humanized mouse IgG1-based antibody bivalent CD20 and monovalent CD3e binding modified Fc devoid of FcγR and complement binding 	5
odronextamab	CD20 x CD3		<ul style="list-style-type: none"> fully human IgG4-based heterodimeric antibody monovalent CD20 and monovalent CD3e binding Fc-dependent effector function-minimized antibody with Fc of the anti-CD3e heavy chain modified to reduce Protein A binding common κ light chain from anti-CD3e mAb 	6
epcoritamab	CD20 x CD3		<ul style="list-style-type: none"> humanized mouse IgG1-based heterodimeric antibody monovalent CD20 and monovalent CD3 binding IgG1 Fc modified to minimize Fc-dependent effector functions and to control Fab-arm exchange of mAb half-molecules, resulting in high bispecific product yield 	7

Ig, immunoglobulin; scFv, single-chain variable fragment; mAb, monoclonal antibody; Fc, fragment crystallizable; FcγR, Fc gamma receptor

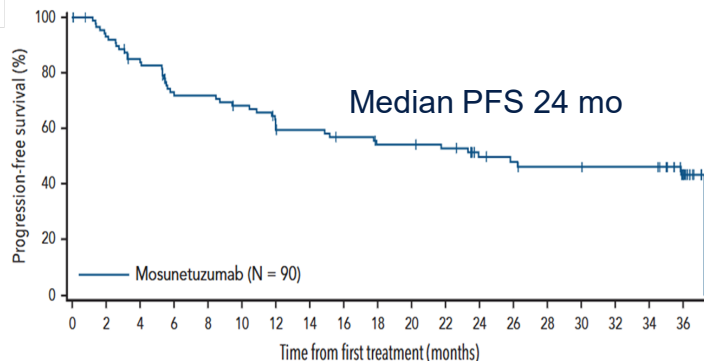
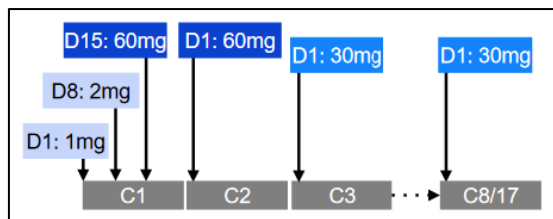
¹Dufner V, et al. Blood Adv (2019) 3:2491; ²Goebeler ME, et al. J Clin Oncol (2016) 34:1104; ³Viardot et al. Blood (2016) 127(11):1410; ⁴Schuster SJ, et al. ASH 2019, Plenary Abstract 6;

⁵Hutchings M, et al. ASH 2020, Abstract 403; ⁶Bannerji R, et al. ASH 2020, Abstract 400; ⁷Hutchings M, et al. ASH 2020, Abstract 406

Follicular lymphoma

FL: Mosunetuzumab IV

- Single-arm study of mosunetuzumab monotherapy in 3rd or subsequent line
 - Median 3 prior lines of therapy, POD24 52.2%



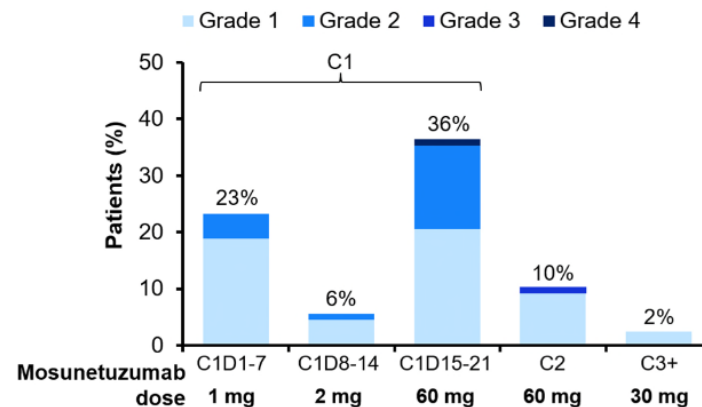
Patients remaining at risk 90 81 72 60 59 55 47 46 43 40 40 38 30 27 25 25 24 24 13

INV-assessed efficacy end points	Mosunetuzumab (N = 90)
ORR* % (95% CI)	77.8 (67.8-85.9)
CR* % (95% CI)	60.0 (49.1-70.2)
Time to first response, mo, median (range)	1.4 (1-11)
Time to first CR, mo, median (range)	3.0 (1-19)
DOR, mo, median (95% CI) (n = 70) 30-mo remission rate, % (95% CI)	35.9 (20.7-NE) 56.6 (44.2-68.9)
DOCR, mo, median (95% CI) (n = 54) 30-mo remission rate, % (95% CI)	NR (33.0-NE) 72.4 (59.2-85.6)
PFS, mo, median (95% CI) 36-mo PFS rate, % (95% CI)	24.0 (12.0-NE) 43.2 (31.3-55.2)
OS, mo, median (95% CI) 36-mo OS rate, % (95% CI)	NR (NE-NE) 82.4 (73.8-91.0)
TTNT, mo, median (95% CI) 36-mo TTNT rate, % (95% CI)	37.3 (18.0-NE) 51.8 (40.8-62.8)

FL: Mosunetuzumab IV

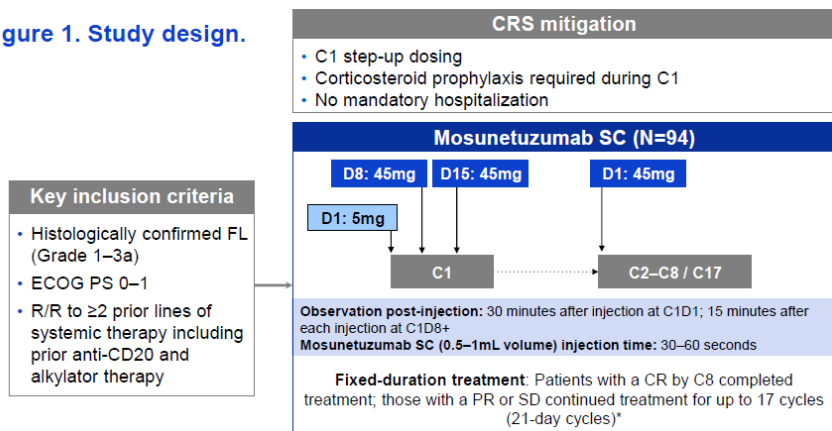
- Single-arm study of mosunetuzumab monotherapy in 3rd or subsequent line
 - Median 3 prior lines of therapy, POD24 52.2%
- ORR 78%, CRR 60%

	Grade 1-2	Grade 3	Grade 4
Cytokine release syndrome	38 (42%)	1 (1%)	1 (1%)
Fatigue	33 (37%)	0	0
Headache	27 (30%)	1 (1%)	0
Neutropenia or decreased neutrophil count	2 (2%)	12 (13%)	12 (13%)
Pyrexia	25 (28%)	1 (1%)	0
Hypophosphataemia	9 (10%)	15 (17%)	0
Pruritus	19 (21%)	0	0
Hypokalaemia	15 (17%)	2 (2%)	0
Cough	16 (18%)	0	0
Constipation	16 (18%)	0	0
Diarrhoea	15 (17%)	0	0
Nausea	15 (17%)	0	0
Rash	13 (14%)	1 (1%)	0
Dry skin	14 (16%)	0	0
Anaemia	5 (6%)	7 (8%)	0
Chills	11 (12%)	1 (1%)	0
Hypomagnesaemia	11 (12%)	0	0
Increased alanine aminotransferase	6 (7%)	4 (4%)	1 (1%)
Insomnia	11 (12%)	0	0
Arthralgia	10 (11%)	0	0
Peripheral oedema	10 (11%)	0	0
Abdominal pain	8 (9%)	1 (1%)	0
Back pain	8 (9%)	1 (1%)	0
Dizziness	9 (10%)	0	0
Urinary tract infection	8 (9%)	1 (1%)	0
Skin exfoliation	9 (10%)	0	0
Thrombocytopenia or decreased platelet count	5 (6%)	0	4 (4%)



FL: Mosunetuzumab SC

Figure 1. Study design.

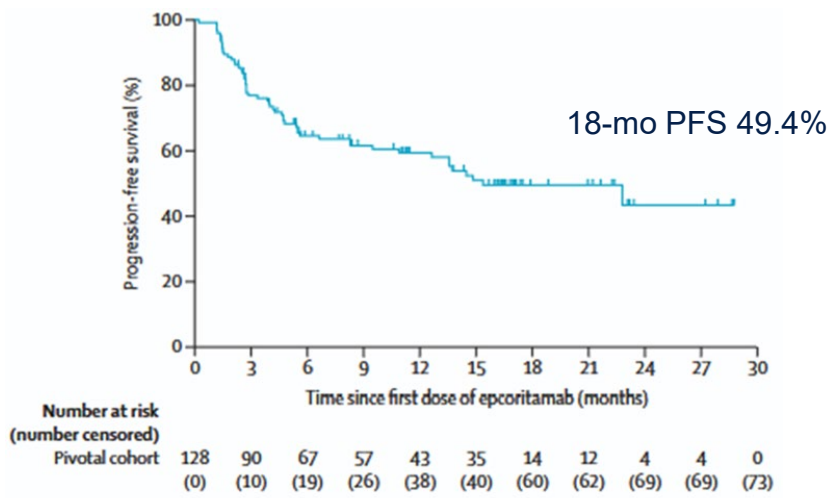
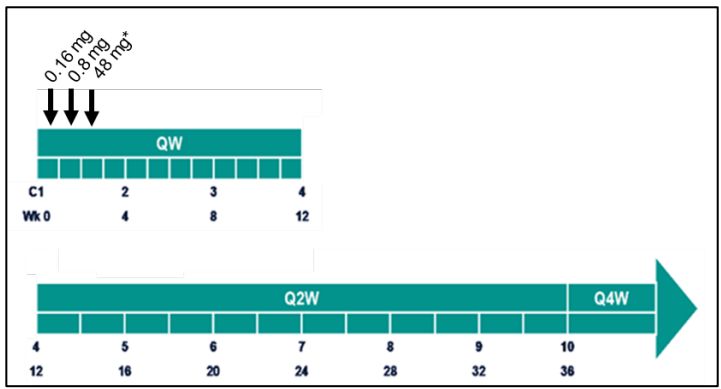


	Overall population (N=94)	Patients with CR (n=59)	POD24 (n=40)	Bulky disease (>7cm) (n=22)
ORR, n (%)	70 (74.5)	59 (100)	28 (70.0)	15 (68.2)
CR, n (%)	59 (62.8)	59 (100)	23 (57.5)	12 (54.5)
Median DOR, months (95% CI)	25.1 (21.0–39.2)	33.6 (22.6–NE)	34.6 (21.0–NE)	NR (21.8–NE)
Median DOCR, months (95% CI)	33.6 (21.8–NE)	33.6 (21.8–NE)	34.6 (21.0–NE)	NR (21.8–NE)
Median PFS, months (95% CI)	18.5 (11.3–28.3)	35.9 (25.3–NE)	15.7 (5.8–NE)	28.3 (5.7–NE)
30-month PFS, % (95% CI)	37.3 (26.8–47.8)	55.5 (41.7–69.3)	41.1 (25.3–56.9)	42.1* (18.3–65.9)

n (%) unless stated	Mosunetuzumab SC (N=94)
AE	93 (98.9)
Grade 3/4 AE	46 (48.9)
Serious AE	37 (39.4)
Grade 5 (fatal) AE	5 (5.3)*
AE leading to Mosun SC discontinuation	7 (7.4)
Any grade CRS by ASTCT	28 (29.8)
Grade 1	19 (20.2)
Grade 2	7 (7.4)
Grade 3	2 (2.1)
Any grade infections	52 (55.3)
Grade 1	13 (13.8)
Grade 2	21 (22.3)
Grade 3/4	15 (16.0)
Grade 5	3 (3.2)

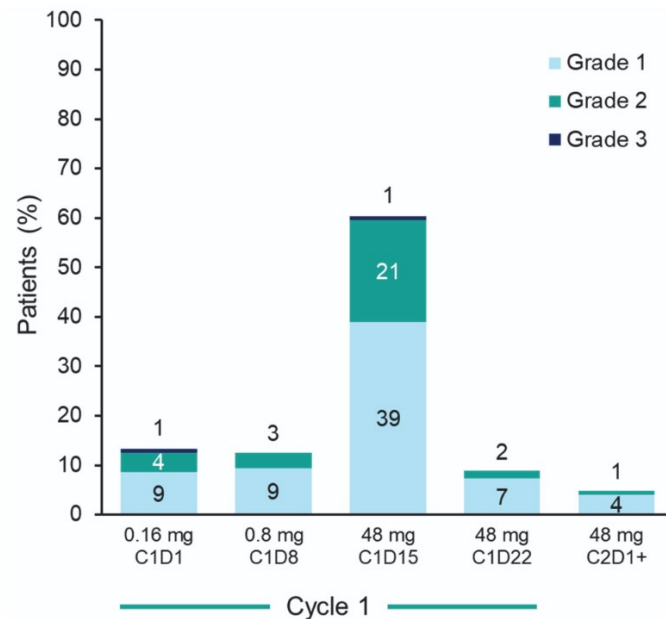
FL: Epcoritamab

- Single-arm study of epcoritamab monotherapy in 3rd or subsequent line
 - Median 3 prior lines of therapy, POD24 42%
- ORR 82%, CRR 62.5%

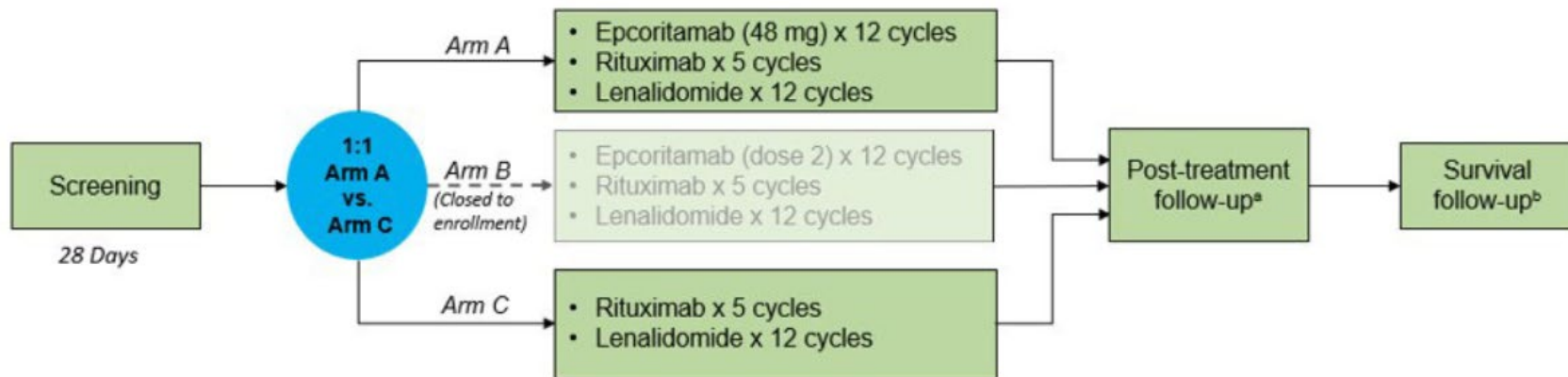


FL: Epcoritamab

	Grade 1-2	Grade 3	Grade 4	Grade 5
Pivotal cohort (n=128)				
Cytokine release syndrome	83 (65%)	2 (2%)	0	0
Injection-site reaction*	73 (57%)	0	0	0
COVID-19*	27 (21%)	18 (14%)	0	6 (5%)
Fatigue	36 (28%)	3 (2%)	0	0
Neutropenia*	4 (3%)	16 (13%)	16 (13%)	0
Diarrhoea	32 (25%)	2 (2%)	0	0
Pyrexia	29 (23%)	3 (2%)	0	0
Headache	25 (20%)	0	0	0
Cough	22 (17%)	0	0	0
Nausea	22 (17%)	0	0	0
Constipation	20 (16%)	0	0	0
Anaemia*	11 (9%)	8 (6%)	0	0
Arthralgia	17 (13%)	1 (1%)	0	0
Peripheral oedema	18 (14%)	0	0	0
Dyspnoea†	17 (13%)	0	0	0
Upper respiratory tract infection	17 (13%)	0	0	0
Insomnia	16 (13%)	0	0	0
Lymphopenia*	2 (2%)	5 (4%)	9 (7%)	0
Thrombocytopenia*	9 (7%)	2 (2%)	5 (4%)	0
Back pain	14 (11%)	1 (1%)	0	0
Dizziness	14 (11%)	0	0	0
Urinary tract infection	8 (6%)	5 (4%)	0	0



FL: Epcoritamab + R2



After initial step-up dosing during cycle 1, epcoritamab will be administered weekly in cycles 2-3, then Q4W in cycles 4-12.

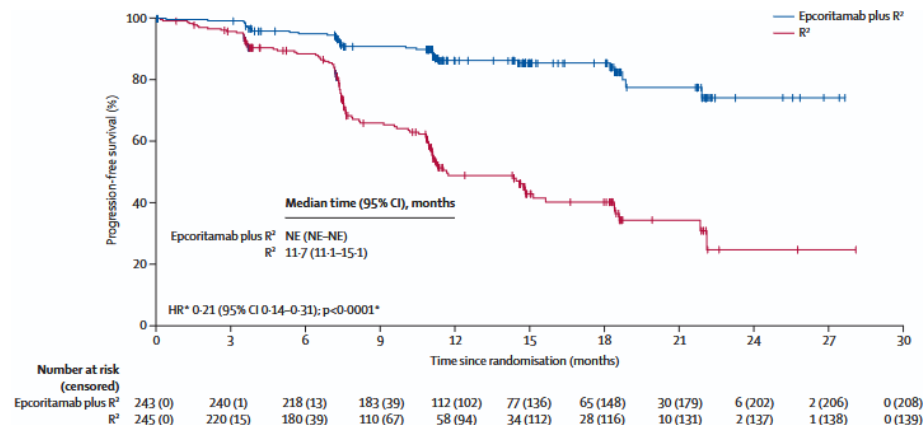
FL: Epcoritamab + R2

- Median 1 prior line of therapy
- 54% stage IV, 38-44% POD24

	Epcoritamab plus R ² (n=243)		R ² (n=238)	
	Any grade	Grade ≥3	Any grade	Grade ≥3
Any adverse event	242 (>99%)	219 (90%)	235 (99%)	161 (68%)
Adverse event related to study drug	236 (97%)	203 (84%)	213 (90%)	129 (54%)
Serious adverse event	135 (56%)	--	69 (29%)	--
Adverse event leading to treatment discontinuation	46 (19%)	--	29 (12%)	--
Epcoritamab	21 (9%)	--	--	--
Rituximab	7 (3%)	--	12 (5%)	--
Lenalidomide	45 (19%)	--	29 (12%)	--
Adverse event of special interest ≥20%				
Infections*	188 (77%)	81 (33%)	125 (53%)	37 (16%)
Neutropenia	180 (74%)	167 (69%)	123 (52%)	100 (42%)
Cytokine release syndrome	85 (35%)	0	1 (<1%)	0
Anaemia	68 (28%)	19 (8%)	41 (17%)	11 (5%)
Thrombocytopenia	67 (28%)	23 (9%)	44 (18%)	15 (6%)
Pyrexia	58 (24%)	1 (<1%)	33 (14%)	3 (1%)
Rash	58 (24%)	19 (8%)	53 (22%)	9 (4%)
COVID-19	54 (22%)	7 (3%)	32 (13%)	4 (2%)

Data are n (%). The safety population consisted of all participants who received at least one dose of the study drug.
*Events were in the MedDRA system organ class "Infections and Infestations".

	Epcor-R2 (N=243)	R2 (N=245)
Median follow up	14.8 mo	14.6 mo
ORR	95%	79%
CRR	83%	50%
12-mo DoCR	91.20%	56%
16-mo PFS	85.50%	40.20%
16-mo OS	95.80%	88.80%



Summary of approved bispecifics in FL

3rd line

	Mosunetuzumab (Sehn et al. 2024)	Epcoritamab (Linton et al. 2024)
Treatment	C1: weekly C2-17: q3 weeks	C1-C3: weekly C4-C9: q2 weeks C10+: q4 weeks
Treatment duration	CR: 8 cycles PR/SD: 17 cycles	Indefinite
Route of admin	IV or SQ	SQ
Patients	90	128
Median prior lines	3	3
POD24	52%	42%
ORR	78%	82%
CRR	60%	63%
PFS	24 mo (median)	49.4% (18 mo)
CRS (Gr 1-2)	42%	2%
CRS (Gr 3-4)	65%	2%

2nd line

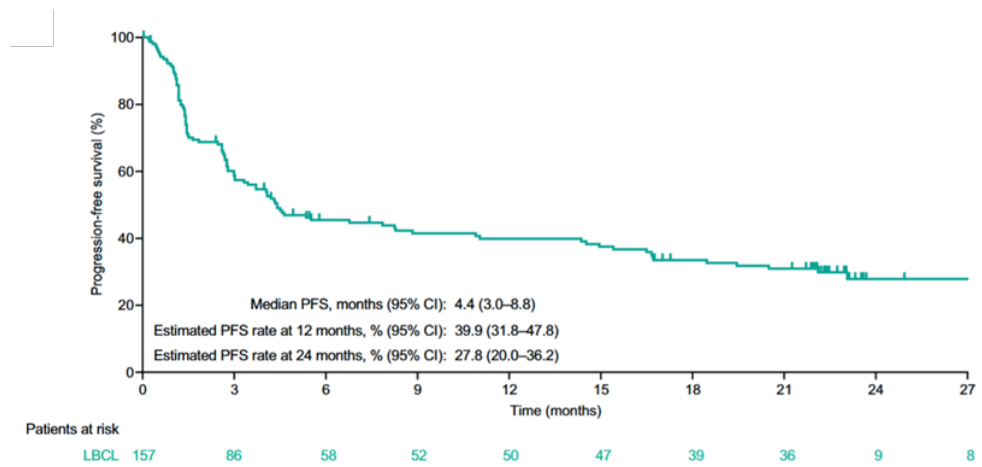
	Epcor + R2 (Falchi et al. 2026)
Treatment	C1-3: weekly C4-12: q4 weeks
Treatment duration	12 cycles
Route of admin	SQ
Patients	243
Median prior lines	1
POD24	44%
ORR	95%
CRR	83%
PFS	Median NR
CRS (Gr 1-2)	35%
CRS (Gr 3-4)	0%

Large B-cell lymphoma

DLBCL: Epcoritamab

- Single-arm phase 2 study of epcoritamab monotherapy in 3rd+ line of therapy
- 61% stage IV, 39.5% ≥ 4 prior lines of therapy, 39% prior CAR T

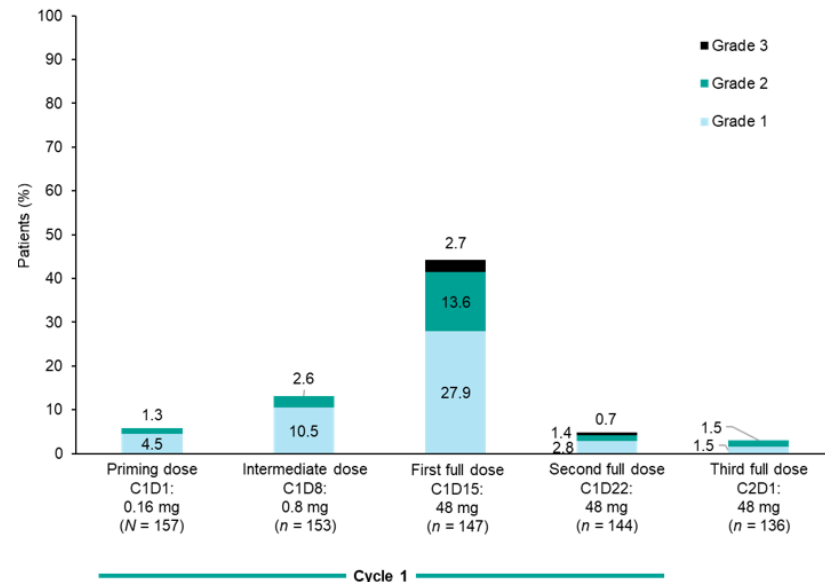
Endpoint	LBCL (N = 157)
Best overall response	
Overall response, No. (%) [95% CI] ^a	99 (63.1) [55.0–70.6]
CR	63 (40.1) [32.4–48.2]
PR	36 (22.9) [16.6–30.3]
SD, No. (%)	5 (3.2)
PD, No. (%)	37 (23.6)
Nonevaluable, ^b No. (%)	16 (10.2)
PFS, ^c months, median (range) [95% CI]	4.4 (0.0+ to 29.0+) [3.0–8.8]
OS, ^c months, median (range) [95% CI]	18.5 (0.3 to 32.7+) [11.7–27.7]



DLBCL: Epcoritamab

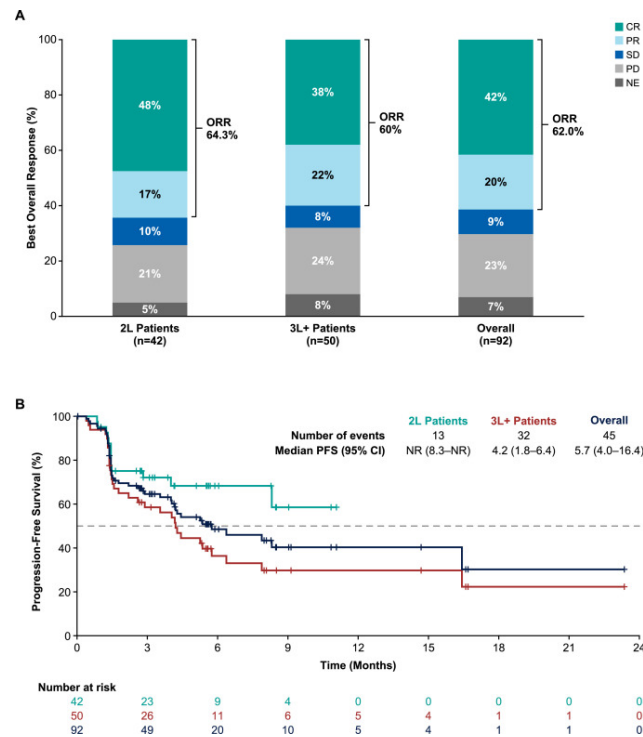
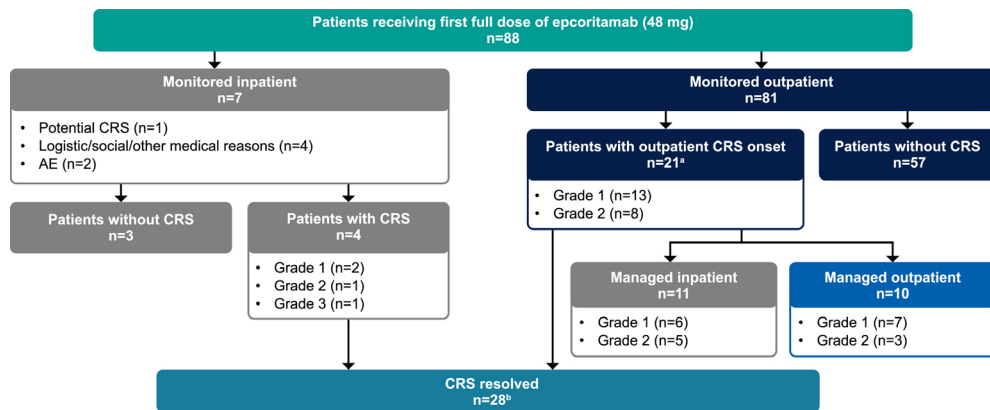
- Single-arm phase 2 study of epcoritamab monotherapy in 3rd+ line of therapy
- 61% stage IV, 39.5% ≥4 prior lines of therapy, 39% prior CAR T

Adverse events*	Any grade (N = 157) No. (%)	Grade ≥3 (N = 157) No. (%)
CRS	80 (51.0)	5 (3.2)
Injection-site reaction	31 (19.7)	0
Neutropenia	29 (18.5)	18 (11.5)
Fatigue	22 (14.0)	1 (0.6)
Pyrexia	16 (10.2)	1 (0.6)
Injection-site erythema	15 (9.6)	0
Nausea	11 (7.0)	1 (0.6)
Anemia	10 (6.4)	4 (2.5)
Decreased neutrophil count	10 (6.4)	8 (5.1)
ICANST†	10 (6.4)	1 (0.6)
Diarrhea	9 (5.7)	0
Headache	8 (5.1)	0



DLBCL: Epcoritamab outpatient

- Single-arm study of epcoritamab monotherapy in 2nd or subsequent line with outpatient monitoring



DLBCL: Epcoritamab outpatient

The following steps should be taken to ensure appropriate evaluation and management:

- Measure vital signs, including temperature, blood pressure, pulse, and oxygen saturation by pulse oximetry.
- Check immediately: complete blood count (CBC) with differential and biochemistry including potassium, phosphate, calcium, uric acid, lactate dehydrogenase and creatinine

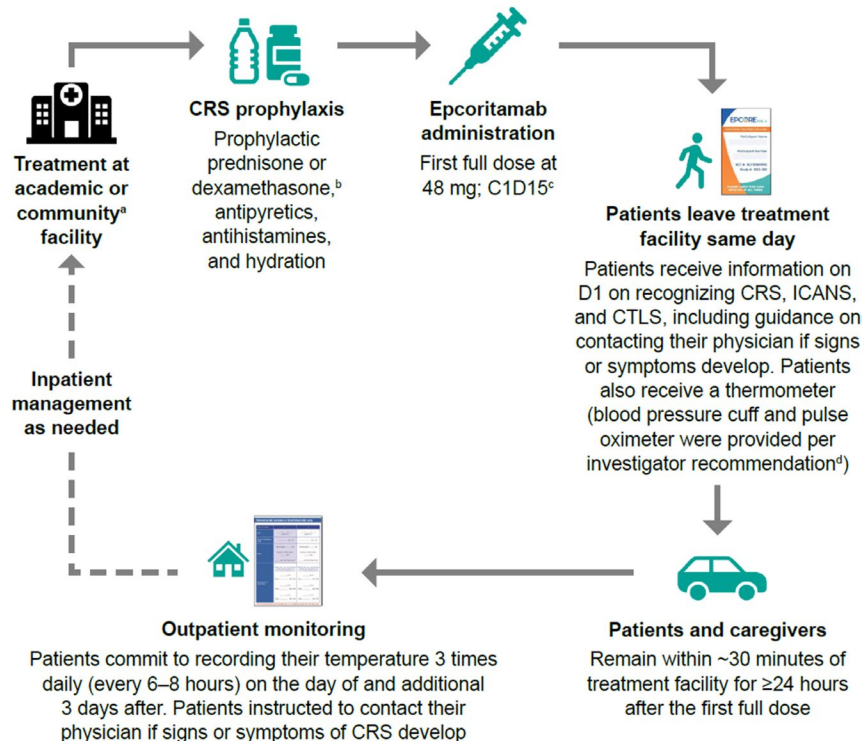
- Check immediately C-reactive Protein (CRP) and ferritin
- A simultaneous workup (i.e., blood cultures, chest x-ray) should be completed to rule out symptoms that are due to infection.
- The following signs and symptoms may quickly increase in severity and should be managed urgently:
 - For CRS: early signs and symptoms of CRS include fever $\geq 38.0^{\circ}\text{C}$ (100.4°F), hypotension, and hypoxia. Manage initially with parenteral fluids and oxygen

supplementation. Initial management may include, but should not be limited to, anti-pyretics, IV fluids, oxygen supplementation, anti-cytokine therapy, and/or corticosteroid therapy.

- For ICANS: Early multiple signs and symptoms include disorientation, trouble naming objects, following commands, inability/difficulty writing, and attention deficit, seizure, motor weakness and intracranial

pressure elevation/ or cerebral edema. When exhibiting any of these symptoms, a neurological assessment including an ICE score evaluation is recommended. Initial management may include, but should not be limited to, corticosteroid therapy.

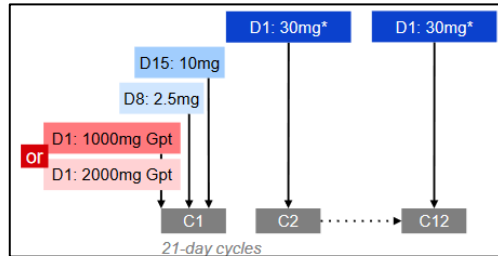
- It is important to immediately call the study doctor (or covering physician) at:



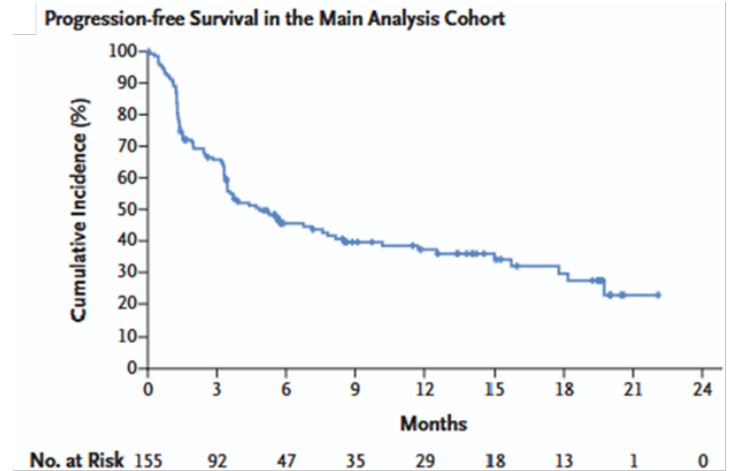
CYCLE LOG		CYCLE 1	
Cycle 1 Day 1		Date: ___/___/___	
Administered and Recorded by Study Staff			
Time of Corticosteroid Dose	_____ AM / PM		
Corticosteroid Route	<input type="checkbox"/> IV <input type="checkbox"/> Oral		
Corticosteroid Type & Dose	<input type="checkbox"/> Dexamethasone (strongly recommended) Strength: _____ mg <input type="checkbox"/> Prednisone Total Daily Dose: _____ mg <input type="checkbox"/> Other: _____		
Temperature	_____ °C / _____ °F _____ °C / _____ °F _____ °C / _____ °F Time: _____ AM / PM Time: _____ AM / PM Time: _____ AM / PM If at any point your temperature is at or above 100.4°F / 38°C, record the info here and call your study doctor immediately.		
Blood Pressure	Systolic: _____ Diastolic: _____ Systolic: _____ Diastolic: _____ Systolic: _____ Diastolic: _____ Time: _____ AM / PM Time: _____ AM / PM Time: _____ AM / PM		
Pulse Oximeter Reading	SpO2 (%): _____ SpO2 (%): _____ SpO2 (%): _____ Time: _____ AM / PM Time: _____ AM / PM Time: _____ AM / PM		
Fluid Intake	Total Fluids (preferably water) drank within 24 hours before treatment visit: _____ liters / fluid ounces / mL		
Cycle 1 Day 2			
Date: ___/___/___			
Time of Corticosteroid Dose	_____ AM / PM		
Corticosteroid Route	<input type="checkbox"/> IV <input type="checkbox"/> Oral		
Corticosteroid Type & Dose	<input type="checkbox"/> Dexamethasone (strongly recommended) Strength: _____ mg <input type="checkbox"/> Prednisone Total Daily Dose: _____ mg <input type="checkbox"/> Other: _____		
Temperature	_____ °C / _____ °F _____ °C / _____ °F _____ °C / _____ °F Time: _____ AM / PM Time: _____ AM / PM Time: _____ AM / PM If at any point your temperature is at or above 100.4°F / 38°C, record the info here and call your study doctor immediately.		
Blood Pressure	Systolic: _____ Diastolic: _____ Systolic: _____ Diastolic: _____ Systolic: _____ Diastolic: _____ Time: _____ AM / PM Time: _____ AM / PM Time: _____ AM / PM		
Pulse Oximeter Reading	SpO2 (%): _____ SpO2 (%): _____ SpO2 (%): _____ Time: _____ AM / PM Time: _____ AM / PM Time: _____ AM / PM		
Fluid Intake	Total Fluids (preferably water) drank within 24 hours after treatment visit: _____ liters / fluid ounces / mL		

DLBCL: Glofitamab

- Single-arm phase 1/2 study of glofitamab in 3rd+ line of therapy
- 55% stage IV, 60% ≥ 3 prior lines of therapy, 33% prior CAR T



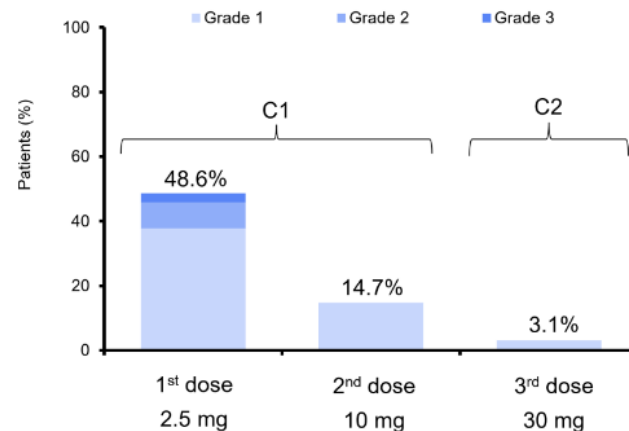
	Glofitamab (N=155)
Median follow up	12.6 mo
ORR	52%
CRR	39%
12-mo DoCR	78%
12-mo PFS	37%
12-mo OS	50%



DLBCL: Glofitamab

No. (%) of Patients with ≥1 Adverse Event	All Grades N=154	Grade 3 N=154	Grade 4 N=154
Cytokine release syndrome (ASTCT grade)	97 (63.0)	4 (2.6)	2 (1.3)
Cytokine release syndrome (Lee grade)	101 (65.6)	2 (1.3)	2 (1.3)
Neutropenia*	58 (37.7)	26 (16.9)	15 (9.7)
Anemia	47 (30.5)	10 (6.5)	0
Thrombocytopenia†	38 (24.7)	9 (5.8)	3 (1.9)
Pyrexia	28 (18.2)	0	0
Hypophosphatemia	27 (17.5)	8 (5.2)	1 (0.6)
Hypomagnesemia	21 (13.6)	0	0
Constipation	21 (13.6)	0	0
Hypocalcemia	19 (12.3)	0	0
Diarrhea	18 (11.7)	0	0
Fatigue	18 (11.7)	1 (0.6)	0
Hypokalemia	17 (11.0)	2 (1.3)	0
Tumor flare	17 (11.0)	4 (2.6)	0
Back pain	16 (10.4)	2 (1.3)	0

Adverse events of special interest	
Cytokine release syndrome, grade ≥2 per ASTCT	24 (16)
Cytokine release syndrome, grade ≥2 per Lee et al. ²⁸	28 (18)
Infection, any grade	59 (38)
Neurologic event, grade ≥2	23 (15)
Event grade consistent with ICANS, any grade‡	12 (8)
Tumor flare, grade ≥2	11 (7)
AST, ALT, or total bilirubin elevation, grade ≥2	11 (7)
Febrile neutropenia, grade ≥3	4 (3)
Tumor lysis syndrome, grade ≥3	2 (1)



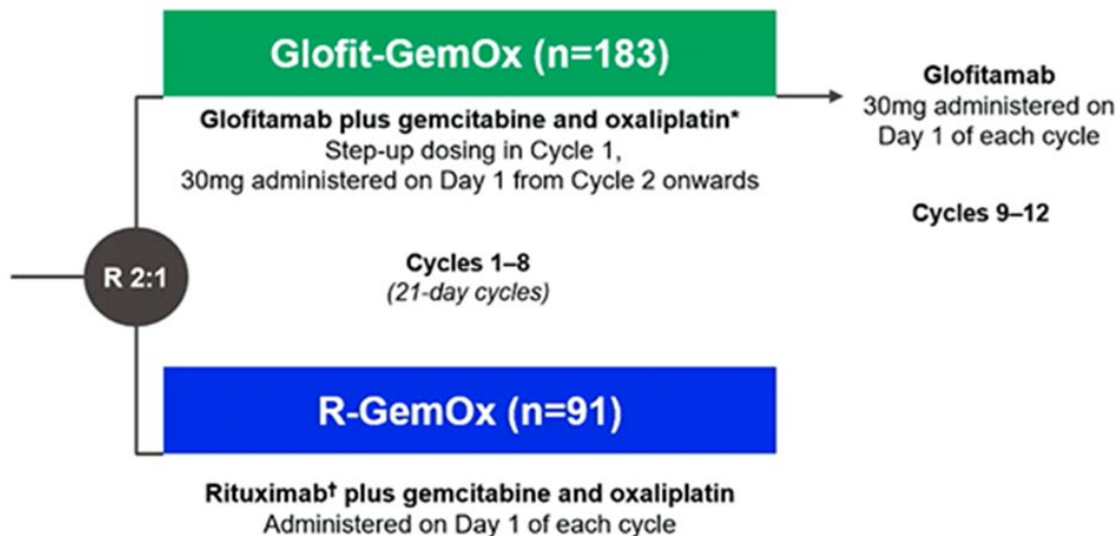
DLBCL: Glofitamab + GemOx

Patients R/R DLBCL (N=274)

- R/R DLBCL NOS after ≥ 1 prior systemic therapy
- Patients with one prior line must be transplant ineligible
- ECOG PS 0–2

Stratification factors

- Relapsed vs refractory disease[†]
- 1 vs ≥ 2 prior lines of therapy

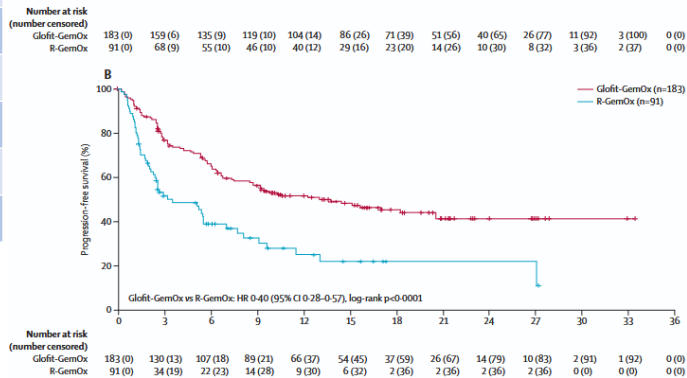
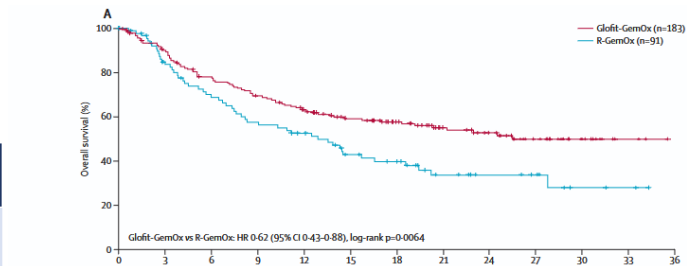


*Gemcitabine 1000mg/m² and oxaliplatin 100mg/m². In C1, Gpt administered on D1, GemOx on D2, followed by glofit 2.5mg on D8 and glofit 10mg on D15; in C2–8, glofit 30mg and GemOx are administered on D1. [†]Rituximab 375mg/m². [†]Relapsed disease: recurrence following a response that lasted ≥ 6 months after completion of the last line of therapy; refractory disease: disease that did not respond to, or that progressed < 6 months after, completion of the last line of therapy. ASCT, autologous stem cell transplant; C, cycle; D, day; ECOG PS, Eastern Cooperative Oncology Group performance status; Gpt, obinutuzumab pre-treatment; NOS, not otherwise specified; R 2:1, patients randomized in a 2:1 ratio.

DLBCL: Glofitamab + GemOx

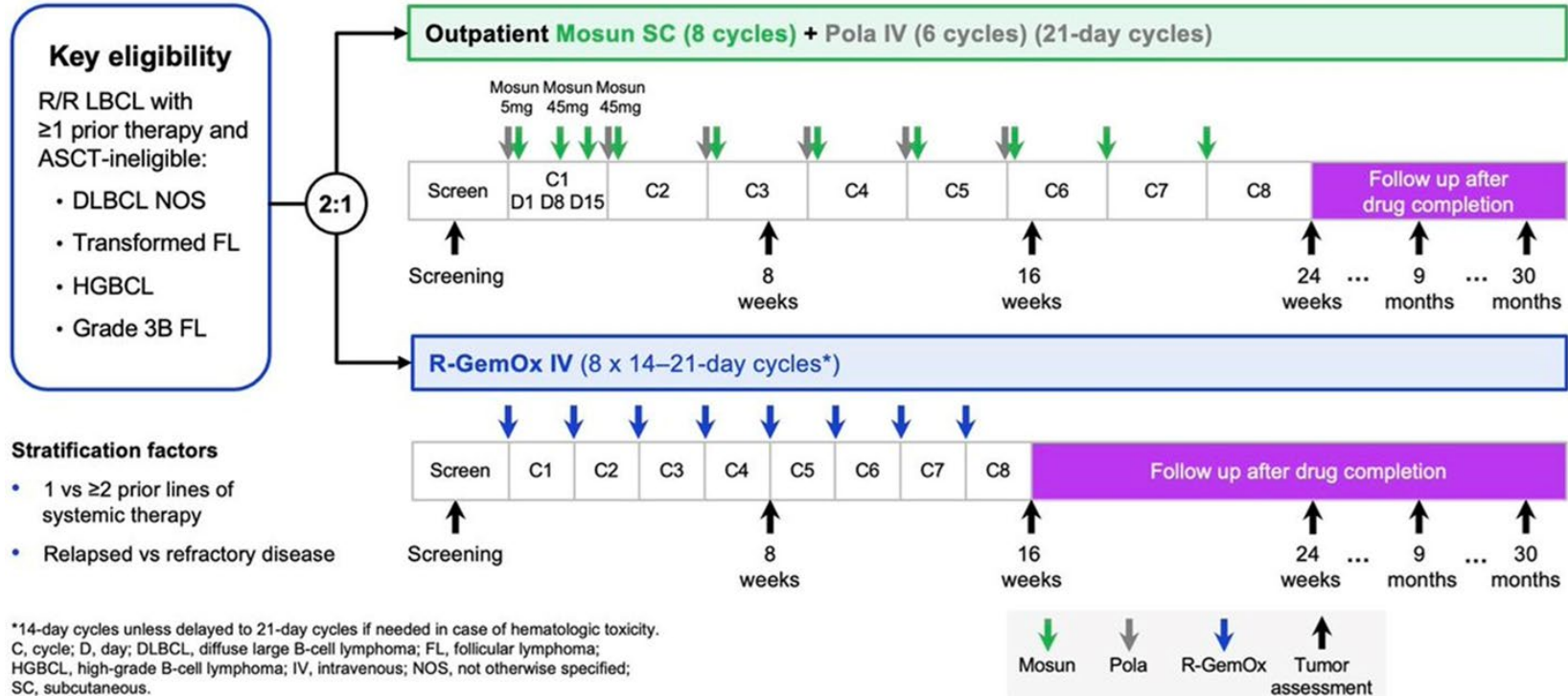
- Median 1 prior line of therapy
- 67-77% stage IV, 19-21% IPI 4-5, 7-9% prior CAR T

	Glofit-GemOx (N=183)	R-GemOx (N=91)
Median follow up	11.3 mo	11.3 mo
ORR	68%	41%
CRR	59%	25%
Median DoCR	NR	24.2 mo
Median PFS	14.4 mo	2.7 mo
Median OS	25.5 mo	12.9 mo



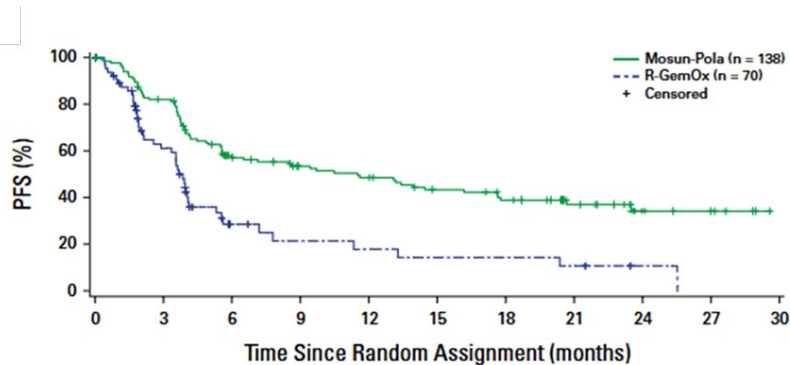
	R-GemOx (n=88)	Glofit-GemOx (n=180)
Any adverse event	84 (96%)	180 (100%)
Most common adverse event (≥30% patients in either group)		
Thrombocytopenia*	42 (48%)	87 (48%)
CRS†	NA	76 (44%)†
Neutropenia‡	27 (31%)	76 (42%)
Anaemia	19 (22%)	73 (41%)
Nausea	35 (40%)	71 (39%)
Peripheral neuropathy§	23 (26%)	64 (36%)
Diarhoea	24 (27%)	62 (34%)
Aspartate transferase increased	17 (19%)	59 (33%)
Alanine transaminase increased	19 (22%)	57 (32%)
Any glofitamab-related or rituximab-related adverse event	58 (66%)	149 (83%)
Any grade ≥3 adverse event	36 (41%)	140 (78%)
Any glofitamab-related or rituximab-related grade ≥3 adverse event	20 (23%)	85 (47%)
Any serious adverse event	15 (17%)	98 (54%)
Any glofitamab-related or rituximab-related serious adverse event	7 (8%)	62 (34%)
Any adverse event of special interest	69 (78%)	176 (98%)
CRS†	NA	76 (44%)†
Grade 1	NA	54 (31%)†
Grade 2	NA	18 (11%)†
Grade 3	NA	4 (2%)†
Neurological adverse event (grade ≥2)	11 (13%)	55 (31%)
Serious infections	11 (13%)	46 (26%)
Febrile neutropenia	1 (1%)	6 (3%)
Tumour flare (grade ≥2)	1 (1%)	1 (1%)
Any grade 5 adverse event	4 (5%)	15 (8%)
COVID-19-associated grade 5 adverse event	0	7 (4%)¶
COVID-19	0	4 (2%)
Respiratory tract infection	0	1 (1%)
Neutropenic sepsis	0	1 (1%)
Acute respiratory distress syndrome	0	1 (1%)
Other grade 5 adverse event		
Pneumonia	3 (3%)	1 (1%)
Multiple organ dysfunction syndrome	1 (1%)	1 (1%)
Pneumonitis	0	2 (1%)
Cerebral haemorrhage	0	1 (1%)
Cardiac arrest	0	1 (1%)
Septic shock	0	2 (1%)
Any glofitamab-related or rituximab-related grade 5 adverse event	1 (1%)	5 (3%)

DLBCL: Mosunetuzumab + Polatuzumab



DLBCL: Mosunetuzumab + Polatuzumab

- Median 2 prior lines of therapy
- 75-80% stage III/IV, 49-51% IPI 3-5, 2.2% (MP) vs 7.1% prior CAR T, 4.3% (MP) vs 14% prior ASCT
- ORR 70% vs 40%, CRR 51% vs 24%
- mPFS 11.5 mo vs 3.8 mo
- mOS 18.7 mo vs 13.6 mo



Number at risk (censored)											
	0	3	6	9	12	15	18	21	24	27	30
Mosun-Pola	138 (0)	108 (6)	65 (17)	54 (24)	49 (24)	40 (28)	34 (30)	20 (43)	8 (54)	5 (57)	NE
R-GemOx	70 (0)	33 (14)	9 (22)	6 (23)	5 (23)	4 (23)	4 (23)	3 (23)	1 (25)	NE	NE

Adverse Event	Mosun-Pola (n = 135), No. (%)		R-GemOx (n = 64), No. (%)	
	Any Grade	Grade ≥3	Any Grade	Grade ≥3
Any adverse event	131 (97)	86 (64)	61 (95)	41 (64)
Most common adverse event (≥20%)				
Injection site reaction	71 (53)	0	0	0
Neutropenia*	62 (46)	45 (33)	35 (55)	20 (31)
Anemia*	41 (30)	8 (5.9)	27 (42)	12 (19)
Cytokine response syndrome	35 (26)	1 (0.7)	0	0
Peripheral neuropathy ^b	33 (24)	0	27 (42)	0
Fatigue	21 (16)	2 (1.5)	13 (20)	1 (1.6)
Nausea	17 (13)	0	17 (27)	1 (1.6)
Diarrhea	14 (10)	0	15 (23)	1 (1.6)
Thrombocytopenia*	12 (8.9)	3 (2.2)	42 (66)	23 (36)
Infusion-related reaction	10 (7.4)	2 (1.5)	13 (20)	1 (1.6)
Adverse event of special interest for mosunetuzumab				
Cytokine release syndrome ^c	35 (26)		0	
Grade 1	29 (21)		0	
Grade 2	5 (3.7)		0	
Grade 3	1 (0.7)		0	
Hemophagocytic lymphohistiocytosis	0		0	
Infections	69 (51)		20 (31)	
Serious infections	22 (16)		9 (14)	
Grade ≥3 infections	21 (16)		9 (14)	
Febrile neutropenia	3 (2.2)		2 (3.1)	
Pneumonitis/interstitial lung disease	7 (5.2)		0	
Tumor flare	9 (6.7)		0	
Tumor lysis syndrome	1 (0.7)		0	

Summary of approved bispecifics in DLBCL

3rd line

	Epcoritamab (Thieblemont et al. 2024)	Glofitamab (Dickinson et al. 2022)
Treatment	C1-3: weekly C4-9: q2 weeks C10+: q4 weeks	C1: weekly C2-12: q3 weeks
Treatment duration	Indefinite	12 cycles
Route of admin	SQ	IV
Patients	157	155
Prior lines of therapy	40% >=4	60% >=3
ORR	63%	52%
CRR	40%	39%
PFS	4.4 mo (median)	4.9 mo (median)
CRS (Gr 1)	48%	47%
CRS (Gr 2-4)	3%	16%
ICANS (any grade)	6.4%	8%

2nd line

	EpcO + GemOx (Brody et al. Blood 2025)	Glofit + GemOx (Abramson et al. Lancet 2024)	Mosun + Pola (Budde et al. 2025)
Treatment	C1-3: weekly C4-9: q2 weeks C10+: q4 weeks GemOx: q2 weeks x8	C1: weekly C2-12: q3 weeks GemOx: q3 weeks x8	C1: weekly C2-8: q3 weeks Pola: q3 weeks C1-6
Eligibility	1 prior LOT Transplant ineligible or relapsed after transplant	1 prior LOT (transplant ineligible) 2 prior LOT (transplant eligible)	1 prior LOT Transplant ineligible
Treatment duration	Indefinite	12 cycles	8 cycles
Route of admin	SQ + IV	IV	SQ + IV
Patients	103	183	138
Prior lines of therapy	2	1	2
ORR	85%	68%	70%
CRR	61%	59%	51%
PFS	11.2 mo (median)	14.4 mo (median)	11.5 mo (median)
CRS (Gr 1-2)	51.4%	42%	24.7%
CRS (Gr 3-4)	1%	2%	0.7%
ICANS (Gr 1-2)	1.9%	2%	0%
ICANS (Gr 3-4)	1%	1%	0%

Practical considerations

Dosing schedules

Cycle 1 Step-Up Dosing Schedule (to minimize CRS)

Subsequent Dosing

Mosunetuzumab IV (FL) (flat dose)	Day 1 1 mg Dex 20 mg (C1-2)	Day 8 2 mg Dex 20 mg	Day 15 60 mg Dex 20 mg		Day 1 (21-day cycle) C2: 60 mg--> C3+: 30 mg CR: stop after C8. PR/SD: stop after C17
Mosunetuzumab SQ (FL, DLBCL) (flat dose)	Day 1 5 mg Dex 20 mg (C1)	Day 8 45 mg Dex 20 mg	Day 15 45 mg Dex 20 mg		Day 1 (21-day cycle) C2: 45 mg CR: stop after C8. PR/SD: stop after C17
Epcoritamab SQ (FL) (flat dose)	Day 1 0.16 mg Dex 15 mg x4 days	Day 8 0.8 mg Dex 15 mg x4 days	Day 15 3 mg Dex 15 mg x4 days	Day 22 48 mg Dex 15 mg x4 days	C2-3: Day 1, 8, 15, 22; C4-9: Day 1, 15; C10+: Day 1 Monotherapy: indefinite. With R2: 12 cycles
Epcoritamab SQ (DLBCL) (flat dose)	Day 1 0.16 mg Dex 15 mg x4 days	Day 8 (+/- inpt) 0.8 mg Dex 15 mg x4 days	Day 15 48 mg Dex 15 mg x4 days	Day 22 48 mg Dex 15 mg x4 days	C2-3: Day 1, 8, 15, 22; C4-9: Day 1, 15; C10+: Day 1 Indefinite
Glofitamab IV (flat dose)	Day 1 Obinutuzumab 1000 mg Dex 20 mg (C1-3)	Day 8 (inpt) 2.5 mg Dex 20 mg	Day 15 10 mg Dex 20 mg		Day 1 (21-day cycle) 30 mg Stop after C12

Eligibility and management

CRS risk

- ❑ At-home dexamethasone for epcoritamab
- ❑ Topical steroids for epcoritamab or mosunetuzumab sc
- ❑ 24-hour inpatient monitoring for first step-up dose glofitamab
- ❑ Consider inpatient monitoring for first full dose epcoritamab for high-risk patients with DLBCL
- ❑ Full-time caregiver for step-up doses
- ❑ Home vital sign monitoring
- ❑ Dexamethasone at home PRN per on-call instructions

Infection risk

- ❑ HBV screening prior to treatment
- ❑ HSV/VZV prophylaxis
- ❑ PJP prophylaxis
- ❑ GCSF for grade ≥ 3 neutropenia (avoid with step-up doses)
- ❑ IVIG as needed for hypogammaglobulinemia with recurrent infections

Dose management

- ❑ Withhold dose and give GCSF for ANC < 0.5
- ❑ Withhold dose if concerned for active infection
- ❑ Step-up doses may need to be repeated for prolonged dose delays (> 2 weeks)

- SWOG S2114
 - Randomized trial of mosunetuzumab, polatuzumab vedotin, both, or observation (control) as early consolidation in patients after CAR T-cell therapy for DLBCL
- Glofitamab + pirtobrutinib in relapsed/refractory mantle cell lymphoma
 - Single-arm phase 2 trial of glofitamab and pirtobrutinib for patients with relapsed/refractory MCL
 - Limited-duration MRD-guided study

Questions?