Bispecific Therapies for Mature Lymphoid Malignancies

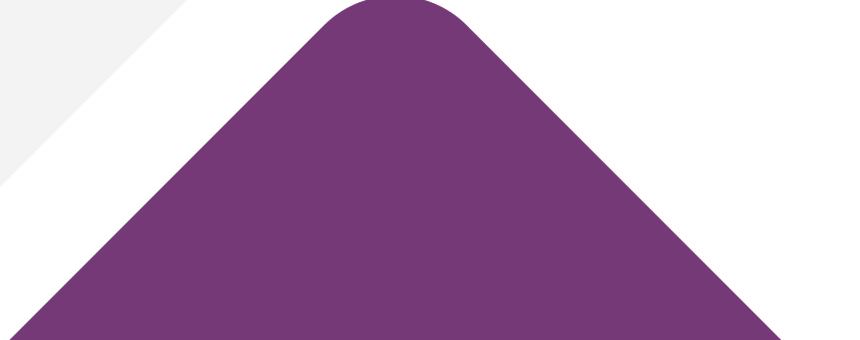
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Disclosures

- * I have no relevant disclosures or conflicts of interest.
- ** My spouse has an ongoing consultancy with Kyra Oncology.

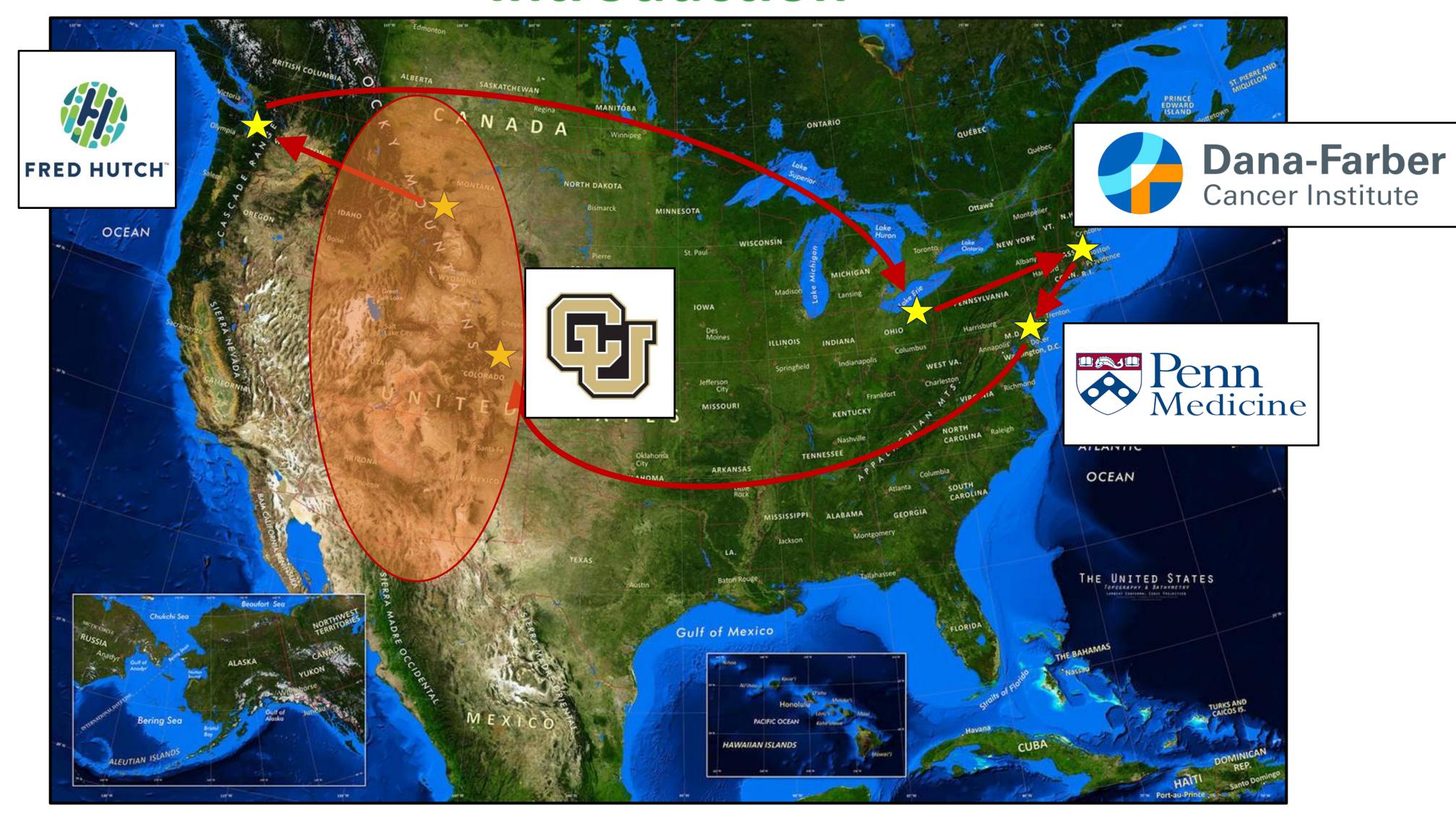


Introduction





Introduction





CU Lymphoma Team

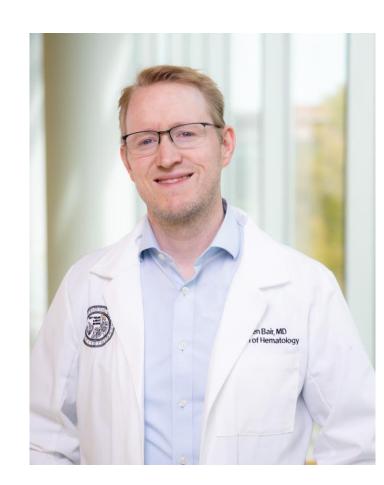




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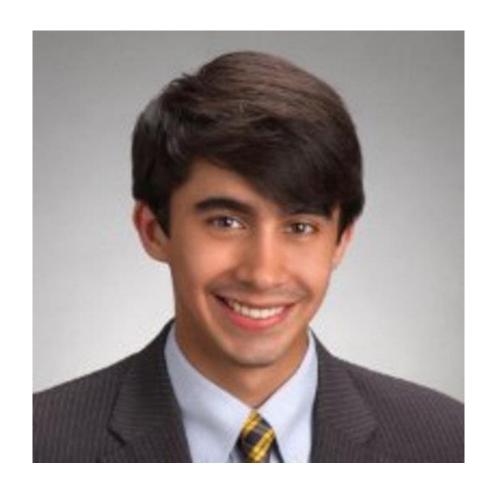


Steven Bair





Jagar Jasem



Ajay Major



Outline

- ** Overview of bispecific antibody (BsAb) structure and function
- ** BsAb therapy in aggressive lymphomas (LBCL)
- ** BsAb therapy in indolent lymphomas (FL)
- ****** Toxicity management
- ** Biomarkers to predict response and resistance
- ** Challenging questions regarding BsAb in lymphoma
- ** Where is the field going?
- ****** Summary

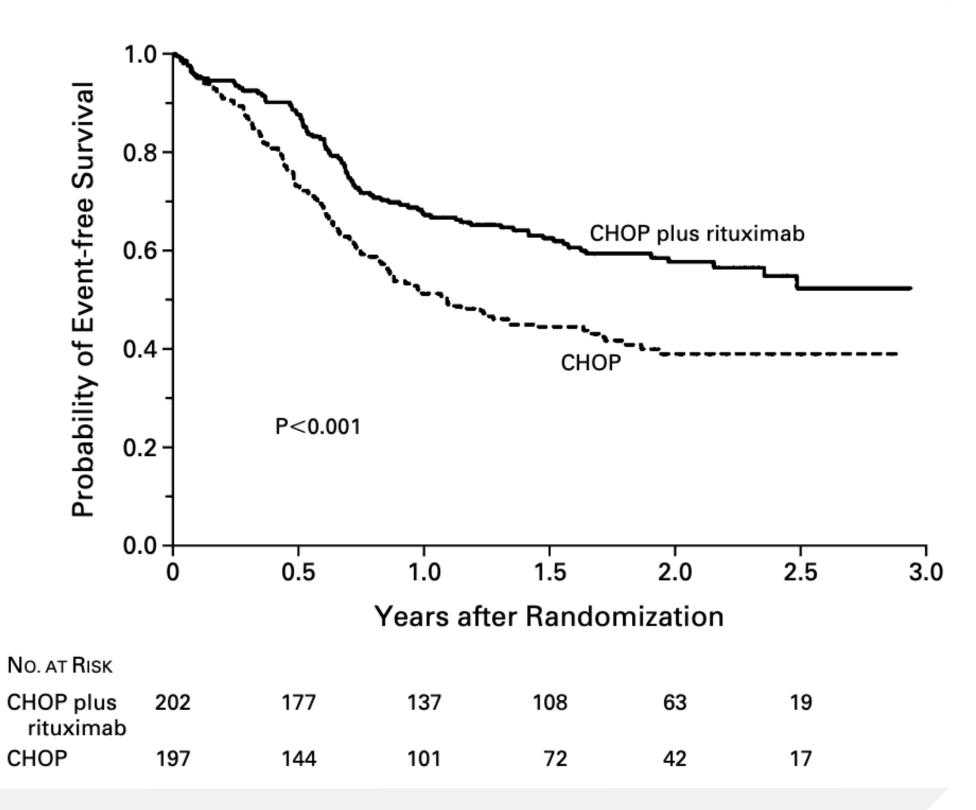


Structure and Function of Bispecific Antibody Therapies



CHOP CHEMOTHERAPY PLUS RITUXIMAB COMPARED WITH CHOP ALONE IN ELDERLY PATIENTS WITH DIFFUSE LARGE-B-CELL LYMPHOMA

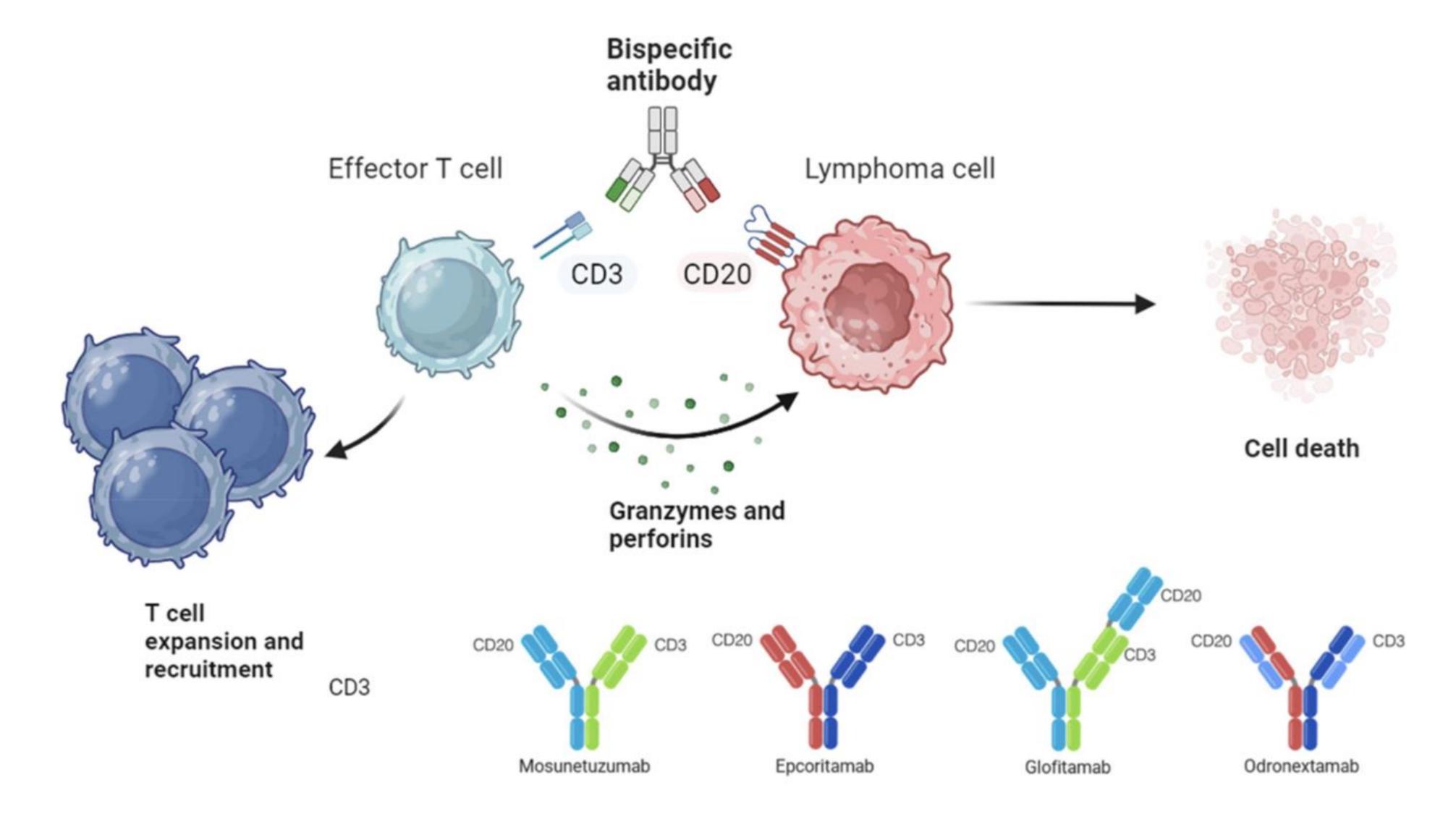
BERTRAND COIFFIER, M.D., ERIC LEPAGE, M.D., PH.D., JOSETTE BRIÈRE, M.D., RAOUL HERBRECHT, M.D., HERVÉ TILLY, M.D., REDA BOUABDALLAH, M.D., PIERRE MOREL, M.D., ERIC VAN DEN NESTE, M.D., GILLES SALLES, M.D., PH.D., PHILIPPE GAULARD, M.D., FELIX REYES, M.D., AND CHRISTIAN GISSELBRECHT, M.D.



Rituximab improves efficacy through FcyR-mediated mobilization of cytotoxic and phagocytic host immune cells



Basic BsAb Structure and Function

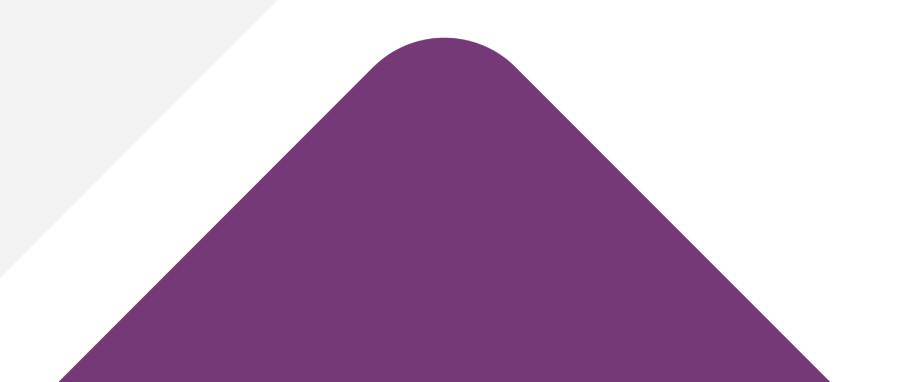




Differences in BsAb structure

Product name	Schematic depiction	Format	Technology	CD20:CD3 ratio	CD3 clone	CD20 clone	Fc silencing mutations*
Mosunetuzumab ¹⁸	CD20 CD3	lgG1	Knobs-into-holes (different Fabs)	1:1	UCHT1v9 (CD3δε)	2H7 (type 1 epitope, identical to rituximab)	N297G (no FcγR binding)
Glofitamab ¹⁵	CD20 CD3	lgG1	Head-to-tail fusion	2:1	SP34-der.(CD3ε)	By-L1 (type 2 epitope, identical to obinutuzumab)	IgG1-P329G-LALA (no FcγR binding)
Epcoritamab ¹⁶	CD20 CD3	lgG1	Controlled Fab-arm exchange	1:1	huCACAO (SP34- der.)(CD3ε)	7D8 (type 1 epitope, shared by ofatumomab)	L234F,L235E,D265A (no FcγR,C1q binding)
Odronexamab ¹⁷	CD20 CD3	lgG4	Heavy chains with different affinity	1:1	REG1250 (CD3δε)	3B9-10 (type 1 epitope, shared by ofatumomab)	Modified IgG4 (no FcγRIII binding)

Bispecific Antibody Therapy for Aggressive B-Cell Lymphoma





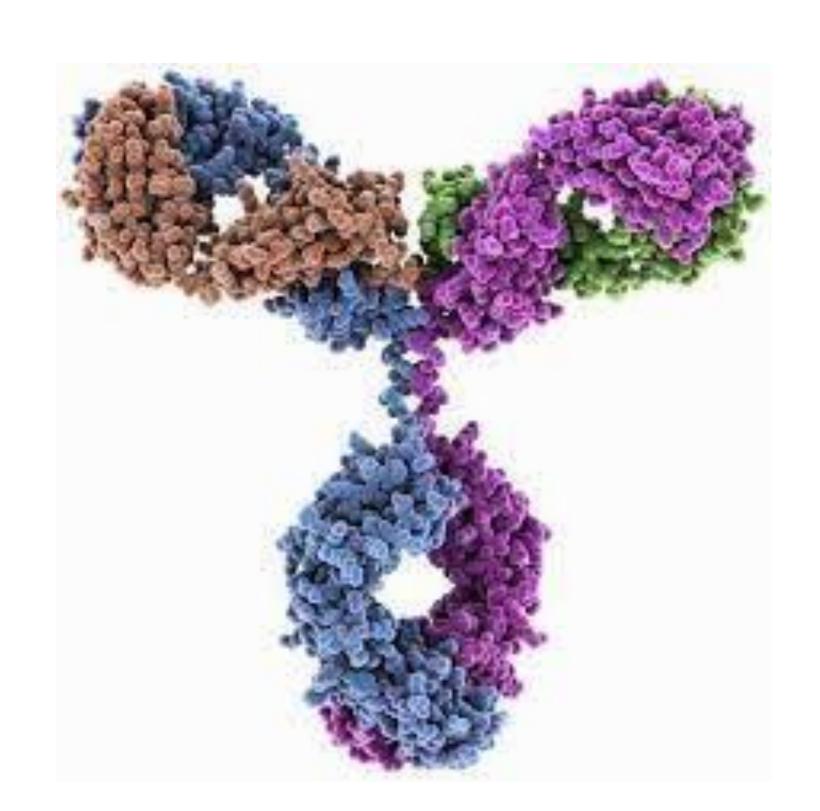
Bispecific antibody therapies for <u>aggressive</u> B-cell lymphomas

Epcoritamab

- Subcutaneous
- Continuous
- •Approved May 19, 2023 (≥3L)

Glofitamab

- Intravenous
- Time-limited
- •Approved June 15, 2023 (≥3L)





Epcoritamab (SC) in R/R aggressive B-cell lymphoma

EPCORE NHL-1 Study Design

Dose escalation

Expansion Cohort

Flat-dose 1 mL SC epcoritamab administered in 28-day cycles

(q1w: Cycles 1-2; q2w: Cycles 3-6; q4w thereafter) until disease progression or unacceptable toxicity

Objectives

Primary

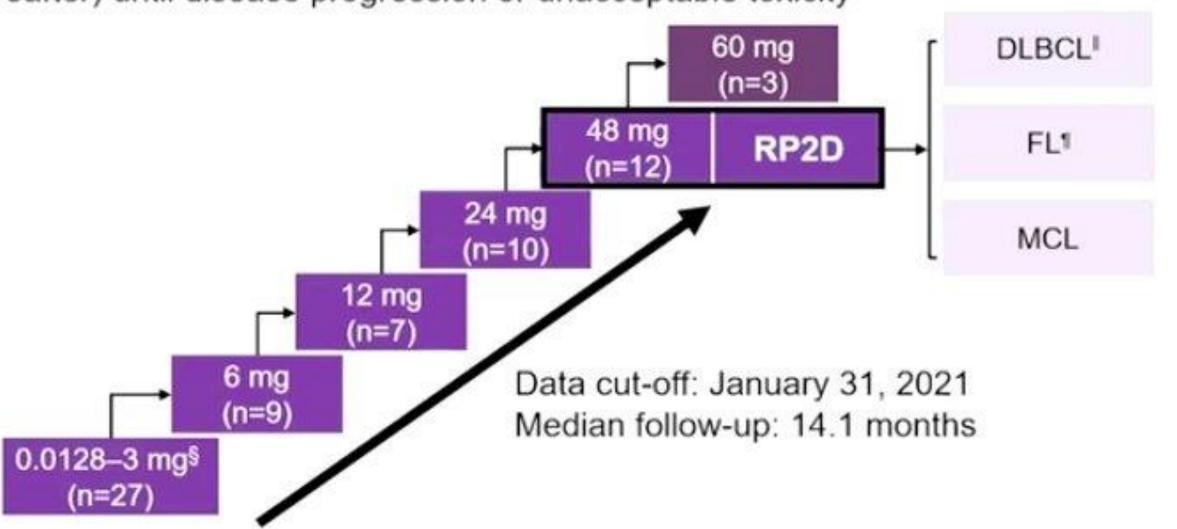
- · MTD
- · RP2D

Secondary

- Safety
- Anti-tumor activity

Inclusion criteriat

- Adults with R/R CD20+ B-NHL
- Prior treatment with anti-CD20 mAbs
- ECOG PS 0-2
- Measurable disease by CT, MRI, or PET/CT scan"; 6, 12, 18, 24, and every 24 weeks thereafter
- Adequate renal, liver, and hematologic function

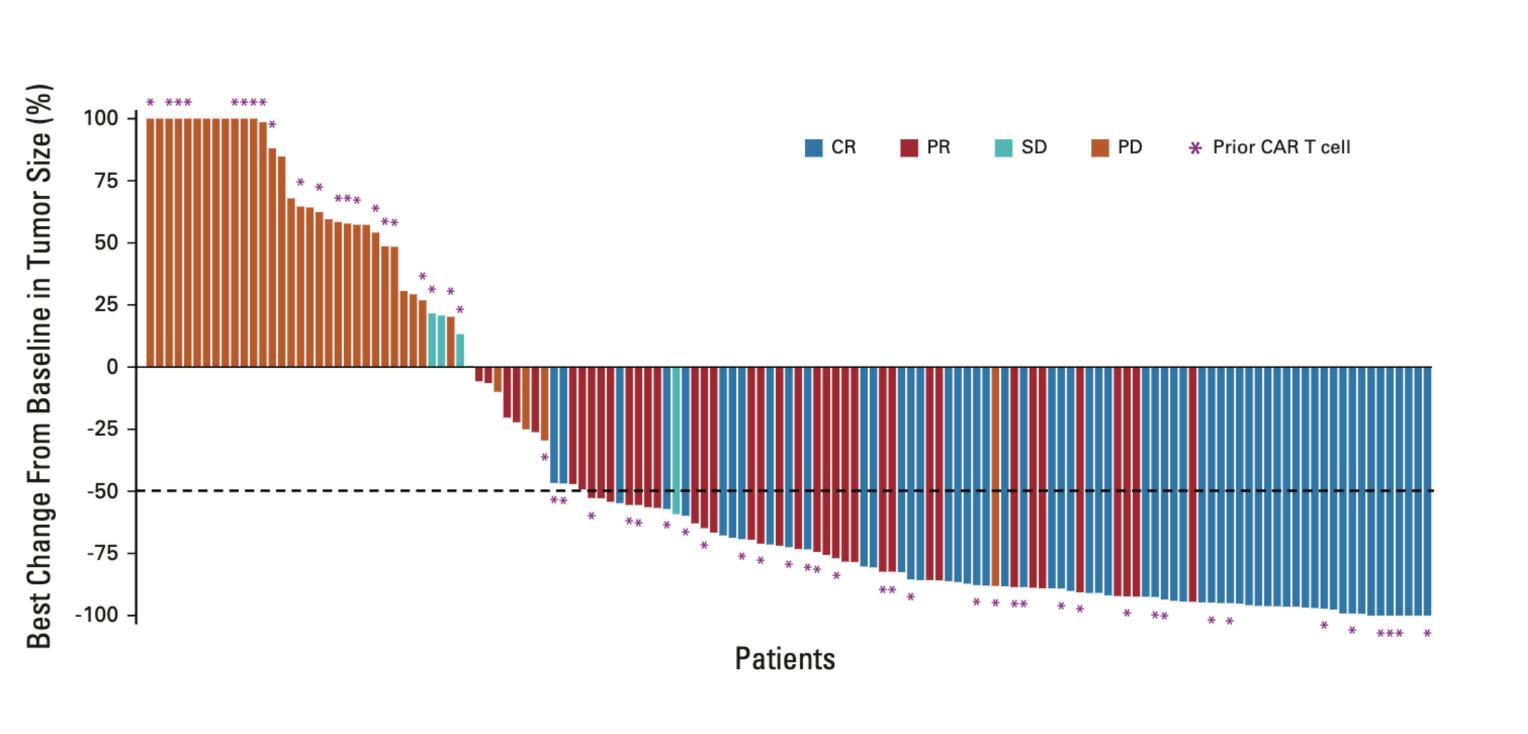


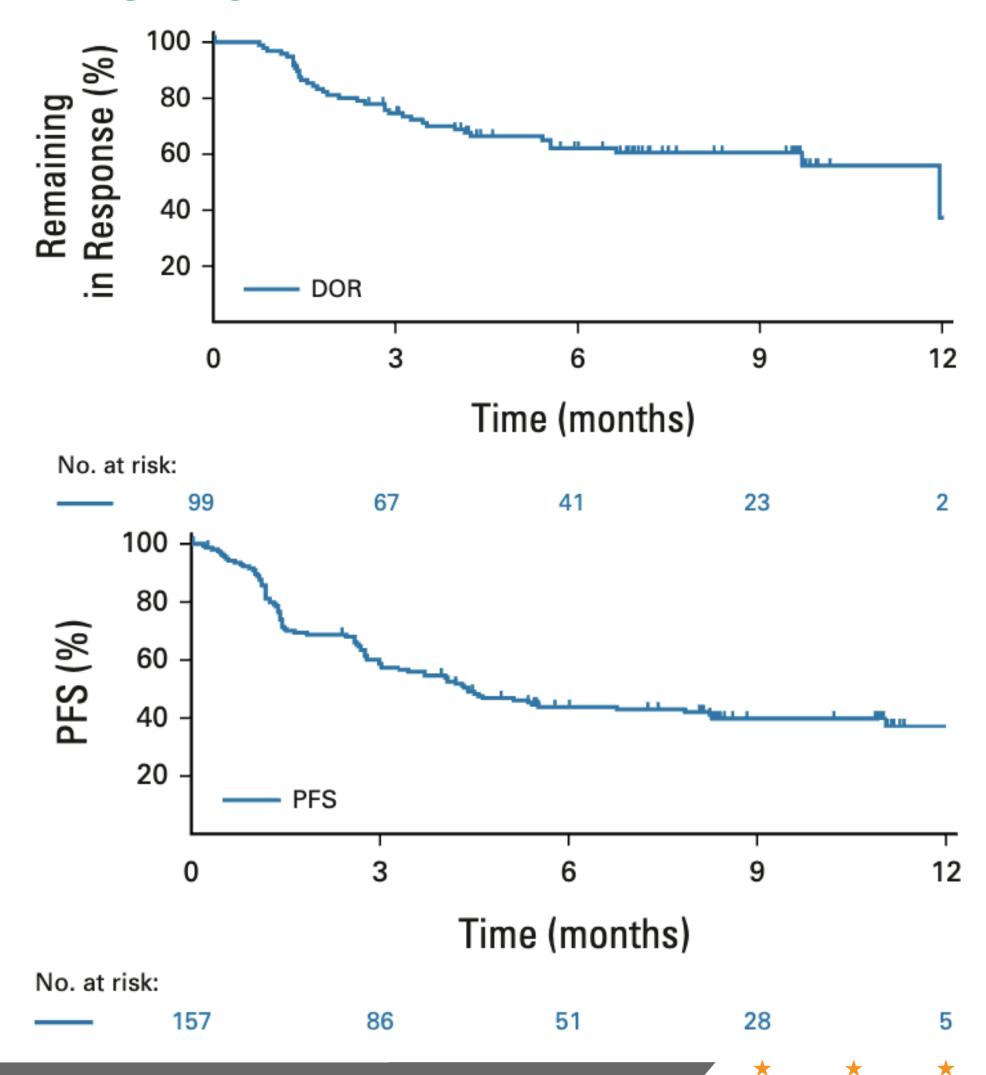
To minimize the occurrence and severity of CRS, a priming dose (160 µg, Cycle 1 Day 1) and an intermediate dose (800 µg, Cycle 1 Day 8) of epcoritamab prior to the full dose (beginning on Cycle 1 Day 15), and premedication with corticosteroids, antihistamines, and antipyretics were used (during Cycle 1; as needed in Cycle 2)

*Modified Bayesian optimal interval design consisting of accelerated and standard titration. Accelerated titration includes single-patient cohorts; up to 2 patients may be added (at the currently investigated dose) to obtain additional PK/PD biomarker data. *Patients previously treated with CAR-T cell therapy were allowed (protocol amended after study start). *ICT or MRI scans: Weeks 6, 12, 18, 24, and every 12 weeks thereafter. PET scans not required in all patients. *Includes the following priming/final dose levels (mg): 0.004/0.0128, 0.0128/0.04, 0.04/0.12, 0.12/0.38, 0.04/0.76, 0.04/0.25/1.5, 0.04/0.5/3. *Includes patients with DLBCL or other aggressive histologies. *Includes FL or other indolent histologies.*



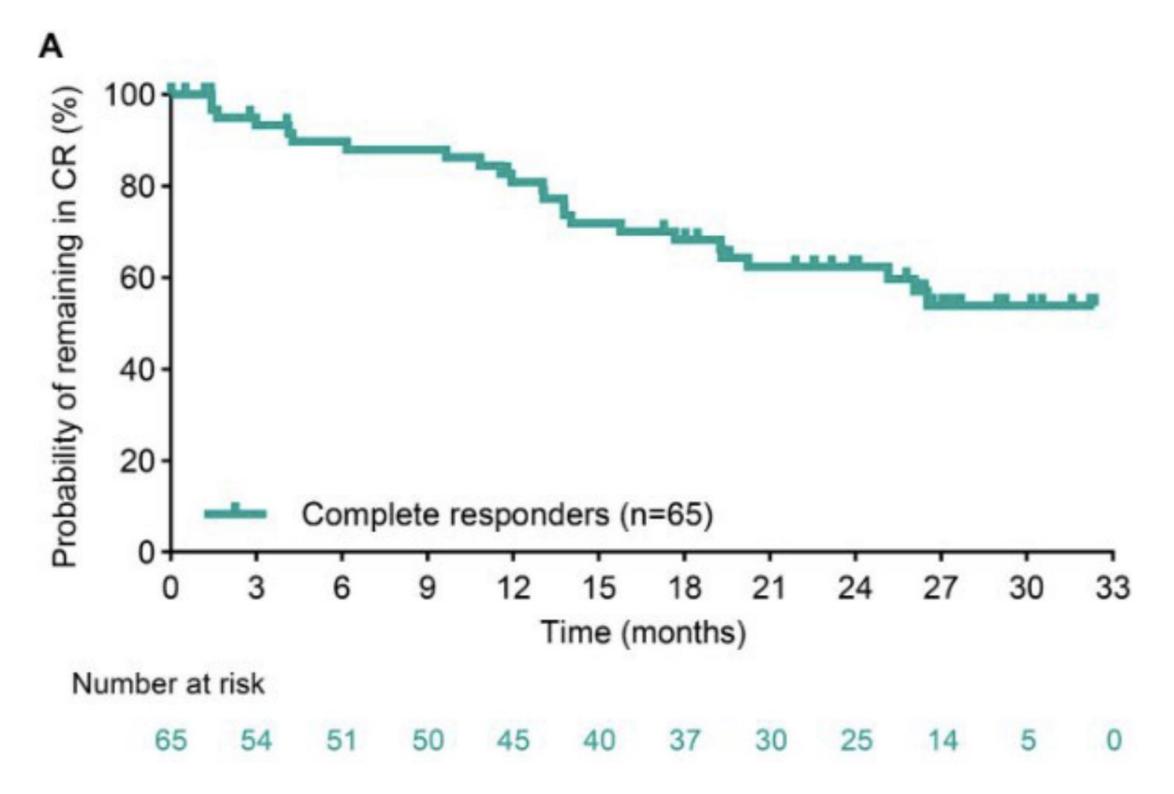
Epcoritamab (SC) in R/R aggressive B-cell lymphoma





STATE ONCOLOGY SOCIETY

Epcoritamab (SC) in R/R aggressive B-cell lymphoma



Timepoint estimate, % (95% CI)	Pts in CR	Progression- free survival	Overall	Pts who have not initiated next line of therapy		
24 mo	62 (48-74)	65 (52-76)	76 (64-85)	82 (69-90)		
30 mo	54 (39-67)	55 (39-68)	71 (58-81)	78 (64-87)		
33 mo	NA	55 (39-68)	71 (58-81)	78 (64-87)		

Data cutoff: October 16, 2023. Kaplan-Meier estimates. NA, not assessed.

36 months (ASH 2024):

ORR: 59%, CR: 41%

Median DoCR: 36.1 months

mPFS: 4.2 mos (37.3 mos in CR)

mOS: 18.5 mos (NR in CR)



Glofitamab (IV) in R/R aggressive B-cell lymphoma

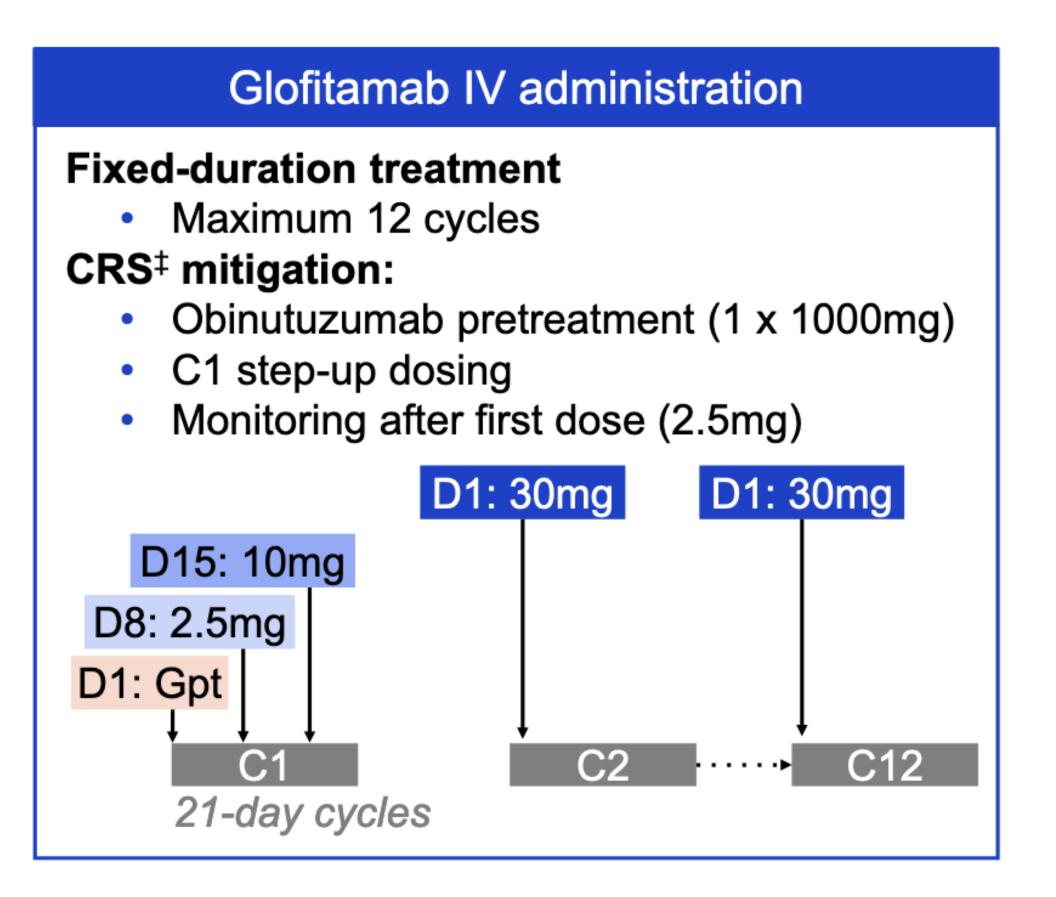
Figure 1. Study overview.

Key inclusion criteria

- DLBCL NOS, HGBCL, trFL, or PMBCL
- ECOG PS 0–1
- ≥2 prior therapies, including:
 - Anti-CD20 antibody
 - Anthracycline

Endpoints

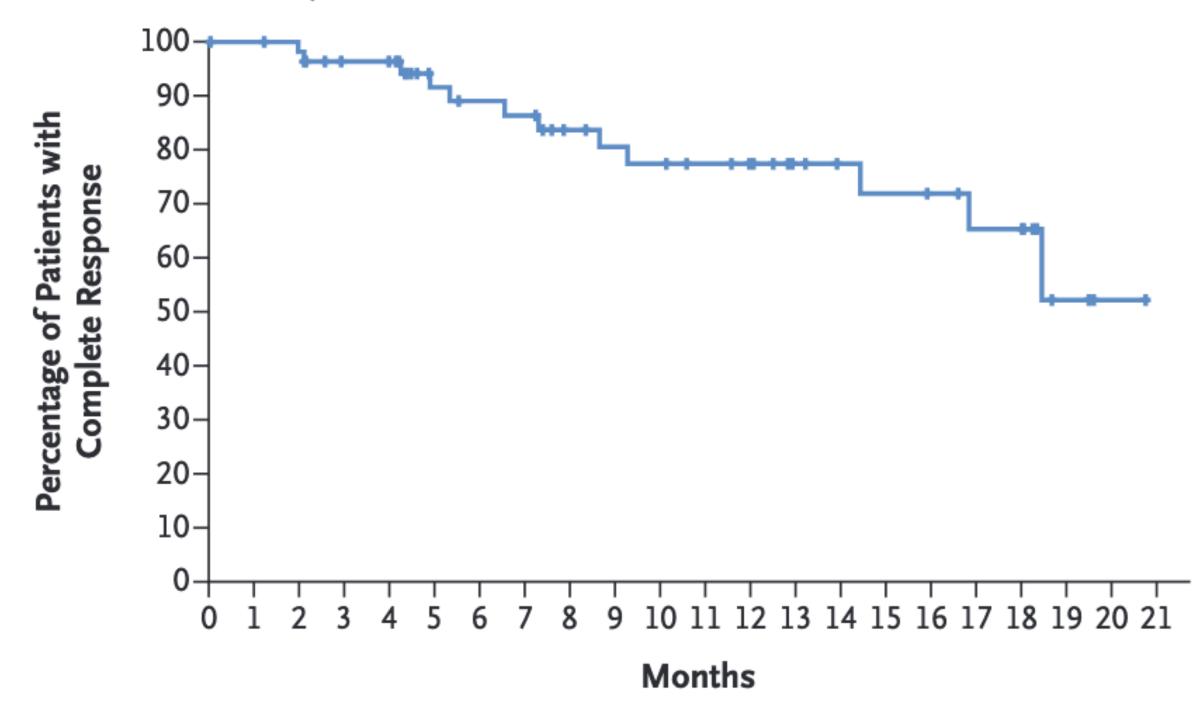
- Primary: CR rate (as BOR) by IRC*
- Key secondary: ORR[†],
 DoR, DoCR[†], PFS, and OS





Glofitamab (IV) in R/R aggressive B-cell lymphoma B Progression-free Survival in the Main Analysis Cohort

A Duration of Complete Response among Patients with a Complete Response in the Main Analysis Cohort



No. at Risk 61 57 55 46 45 36 34 33 28 26 25 23 21 16 14 13 12 10 10 3 1 0

<u>Overall</u>

ORR: 52%

CR: 40%

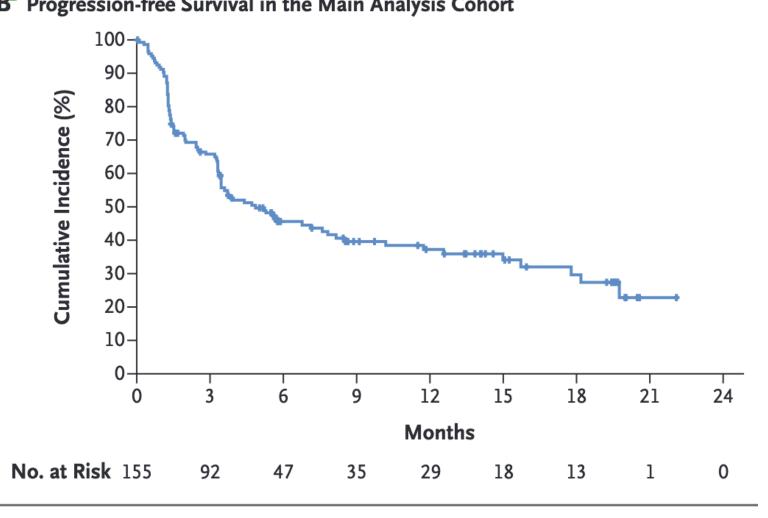
mDoCR: 29.8



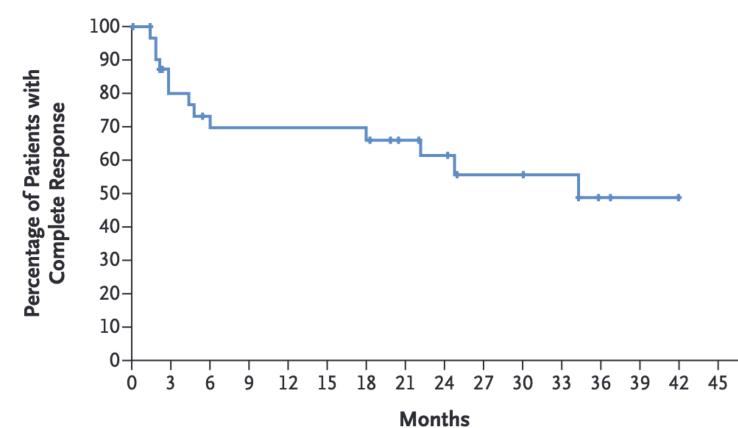
2y PFS: 57%

2y OS: 77%

ASH 2024



C Duration of Complete Response among Patients with a Complete Response in the Supporting Cohort

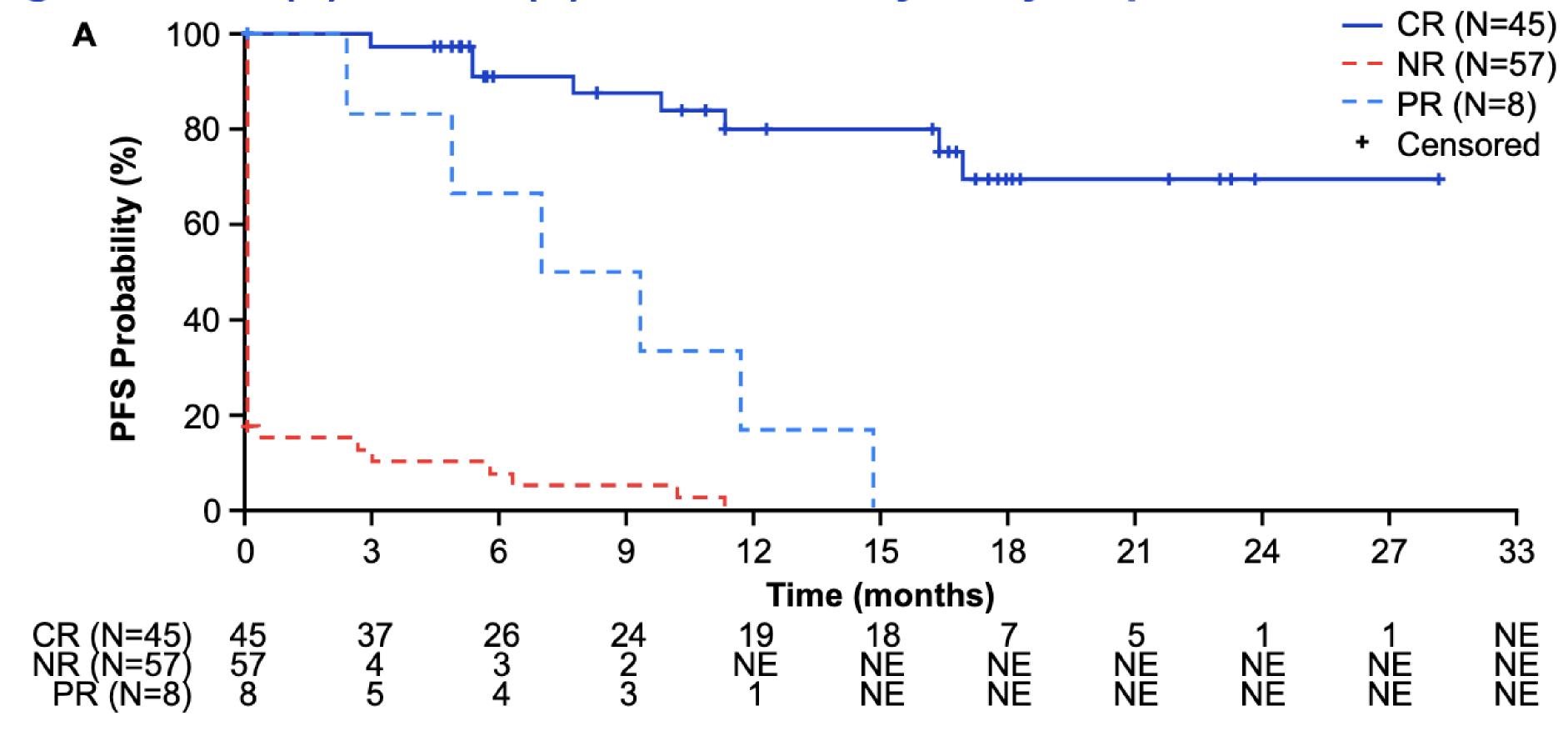


No. at Risk 35 23 19 19 19 19 18 15 13 9 8 8 3 1 0 0



Glofitamab (IV) in R/R aggressive B-cell lymphoma

Figure 5. PFS (A) and OS (B) landmark analysis by response at EOT.





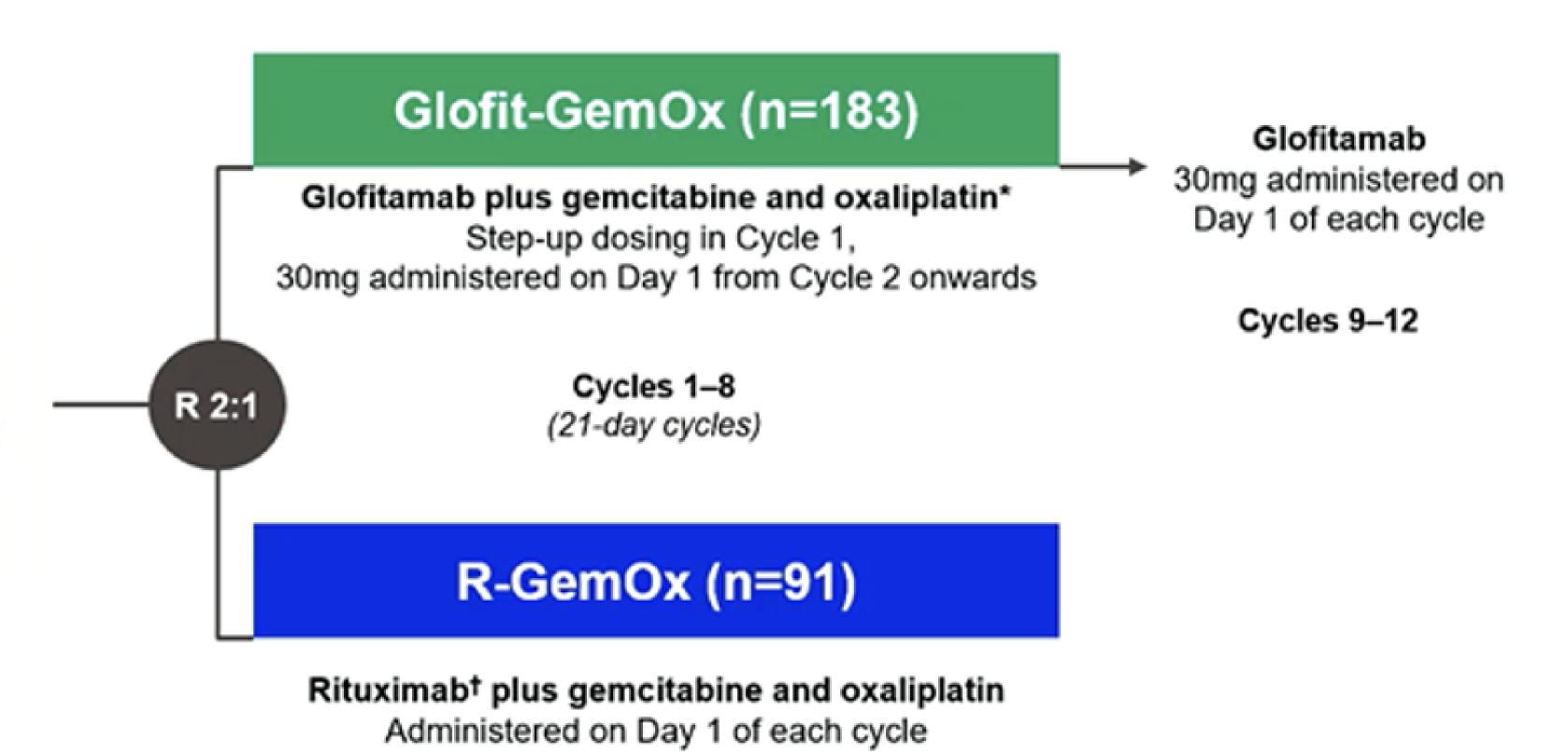
Combination regimens with BsAb in LBCL: STARGLO

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

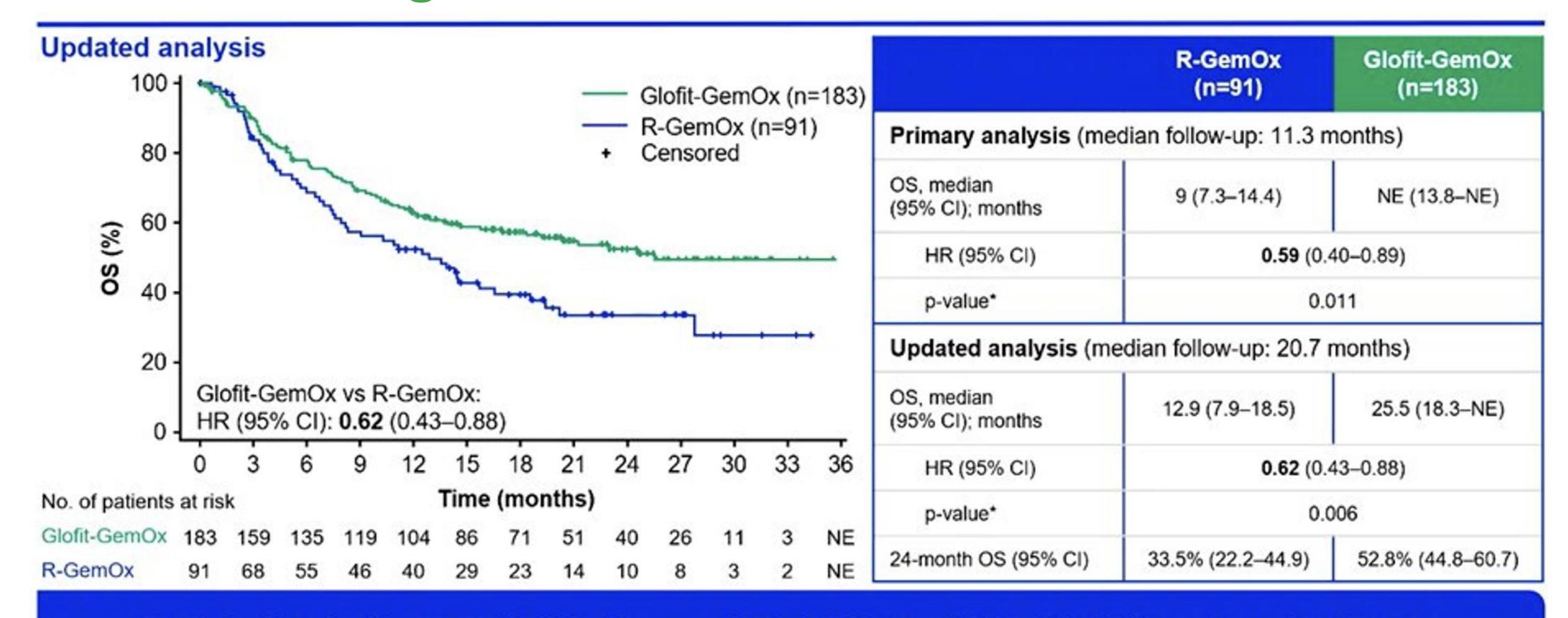
Stratification factors

- Relapsed vs refractory disease‡
- 1 vs ≥2 prior lines of therapy





Combination regimens with BsAb in LBCL: STARGLO



Statistically significant and clinically meaningful OS benefit for Glofit-GemOx vs R-GemOx



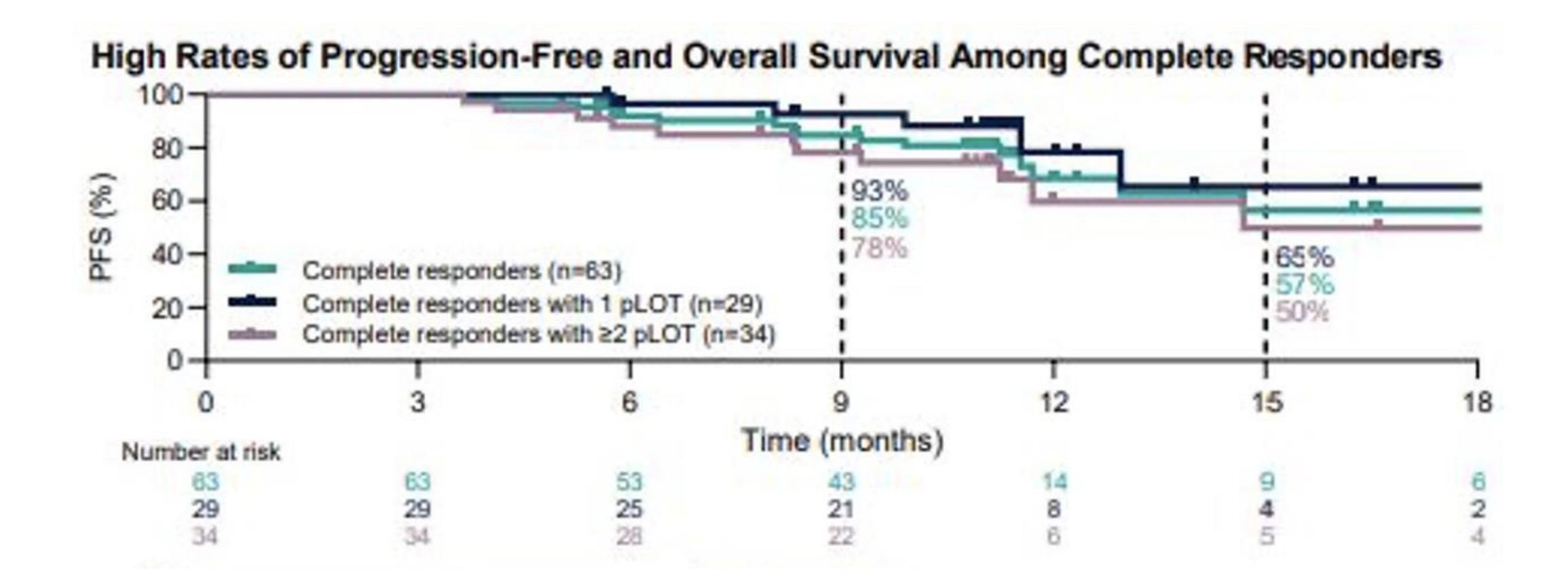
Combination regimens with BsAb in LBCL: STARGLO

n (%), unless otherwise stated	R-GemOx (n=88)	Glofit-GemOx (n=180)		
Number of cycles,* median (range)	4 (1–8)	11 (1–13)		
Any grade AEs	84 (95.5)	180 (100)		
Rituximab/glofitamab related	58 (65.9)	149 (82.8)		
Serious AEs	15 (17.0)	98 (54.4)		
Rituximab/glofitamab related	7 (8.0)	62 (34.4)		
Grade 3-5 AEs	36 (40.9)	140 (77.8)		
Rituximab/glofitamab related	20 (22.7)	85 (47.2)		
Grade 5 (fatal) AEs	4 (4.5)	15 (8.3)		
Rituximab/glofitamab related	1 (1.1)	5 (2.8)		
AE leading to any treatment discontinuation	11 (12.5)	48 (26.7)		

The safety profile of Glofit-GemOx is consistent with the known risk of the individual study drugs

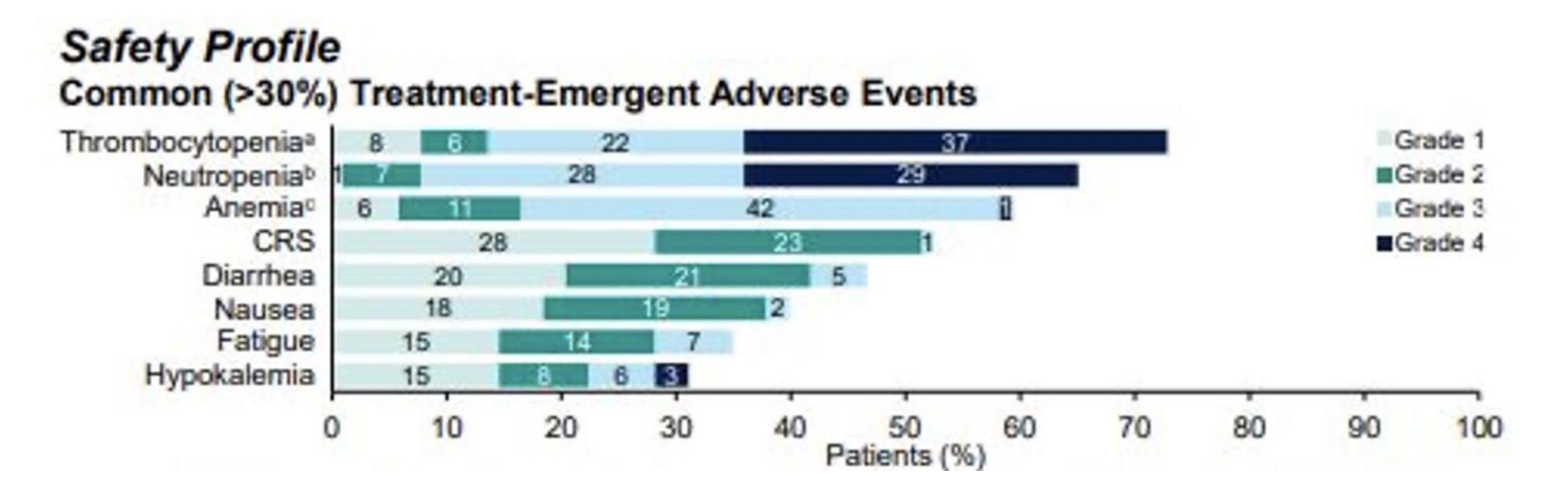


Combination regimens with BsAb in LBCL: EPCORE-NHL 2

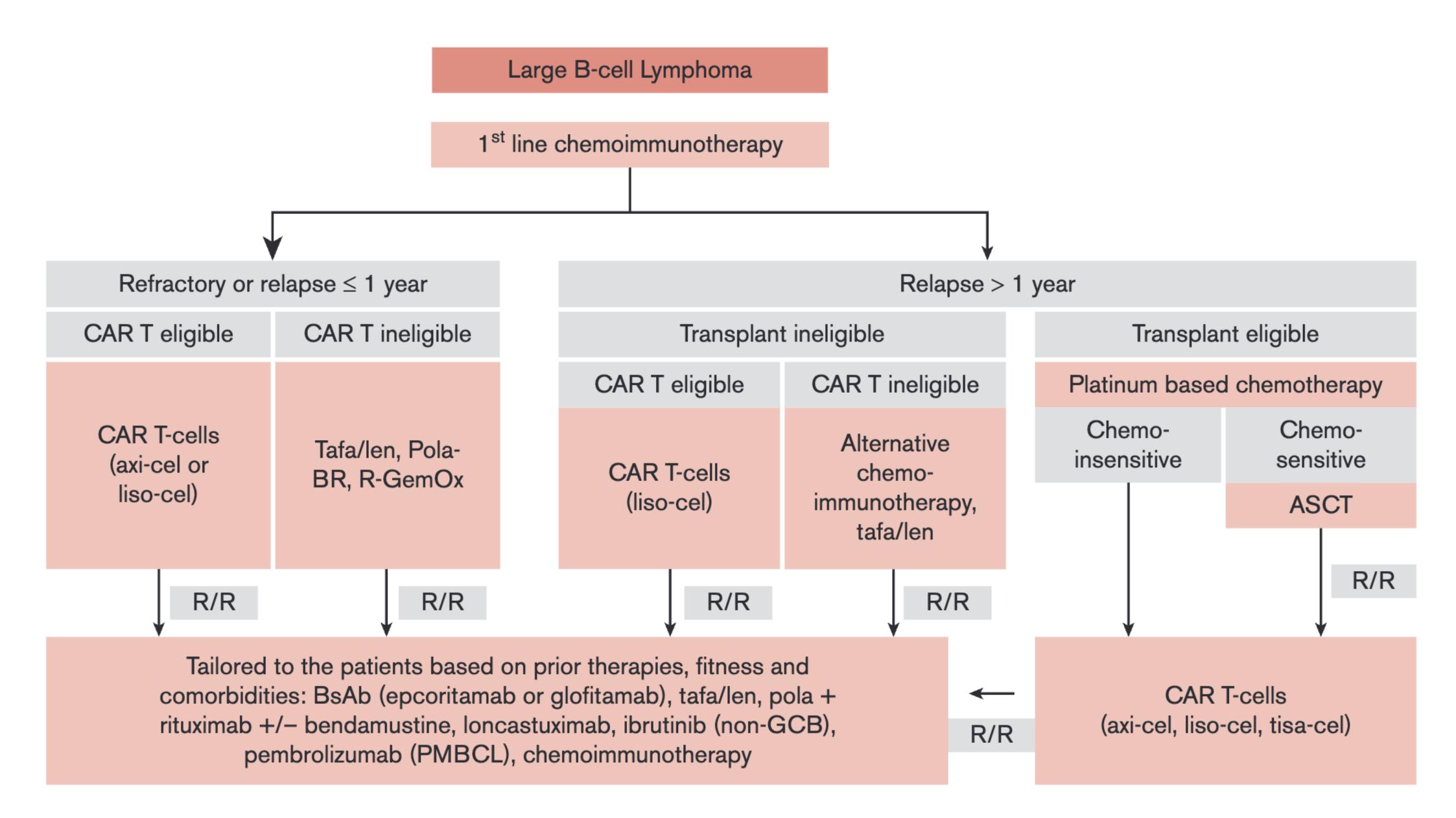




Combination regimens with BsAb in LBCL: EPCORE-NHL 2









Bispecific Antibody Therapy for Indolent B-Cell Lymphoma



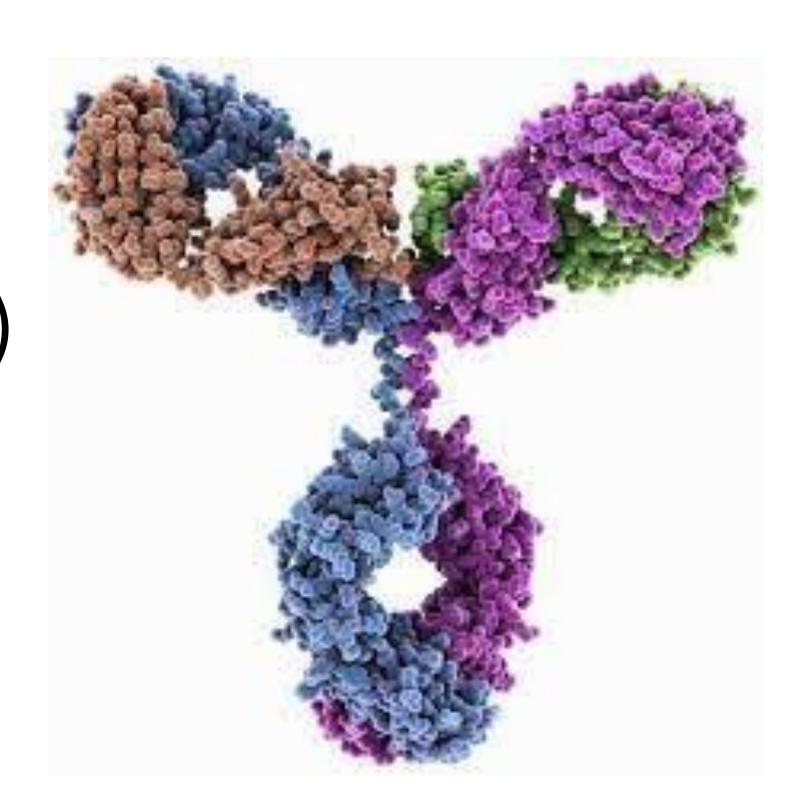
Bispecific antibody therapies for indolent B-cell lymphomas

Mosunetuzumab

- Intravenous
- •Time-limited (8 or 17 cycles)
- •Approved December 22, 2022 (≥3L)

Epcoritamab

- Subcutaneous
- Continuous
- •Approved June 26, 2024 (≥3L)





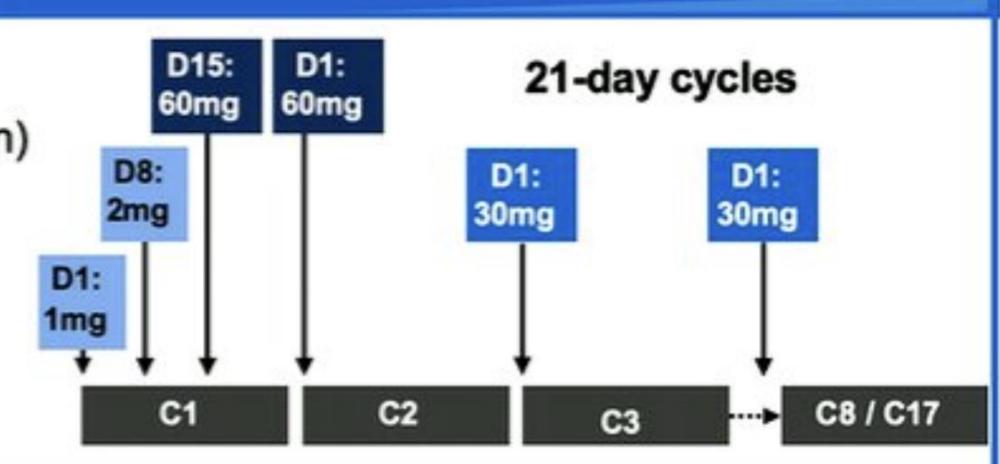
Mosunetuzumab (IV) in R/R follicular lymphoma

Key inclusion criteria

- FL (Grade 1-3a)
- ECOG PS 0–1
- ≥2 prior regimens, including
 - ≥1 anti-CD20 Ab
 - ≥1 alkylating agent

Mosunetuzumab administration

- Q3W intravenous administration
- C1 step-up dosing (CRS mitigation)
- Fixed-duration treatment
 - 8 cycles if CR after C8
 - 17 cycles if PR/SD after C8
- No mandatory hospitalization

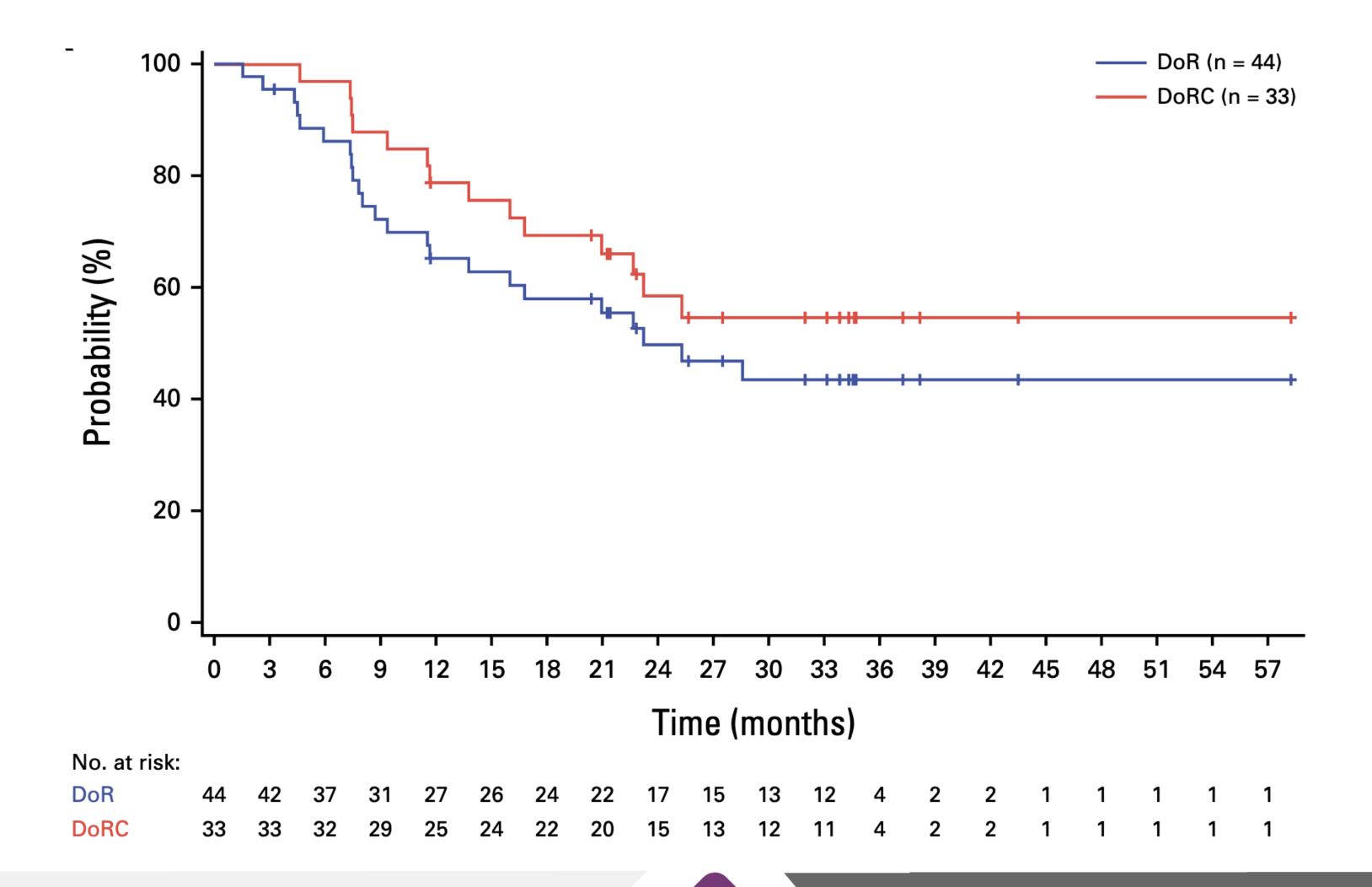


Endpoints

- Primary: CR (best response) rate by IRF* assessed vs 14% historical control CR rate¹
- Secondary: ORR, DoR, PFS, safety and tolerability

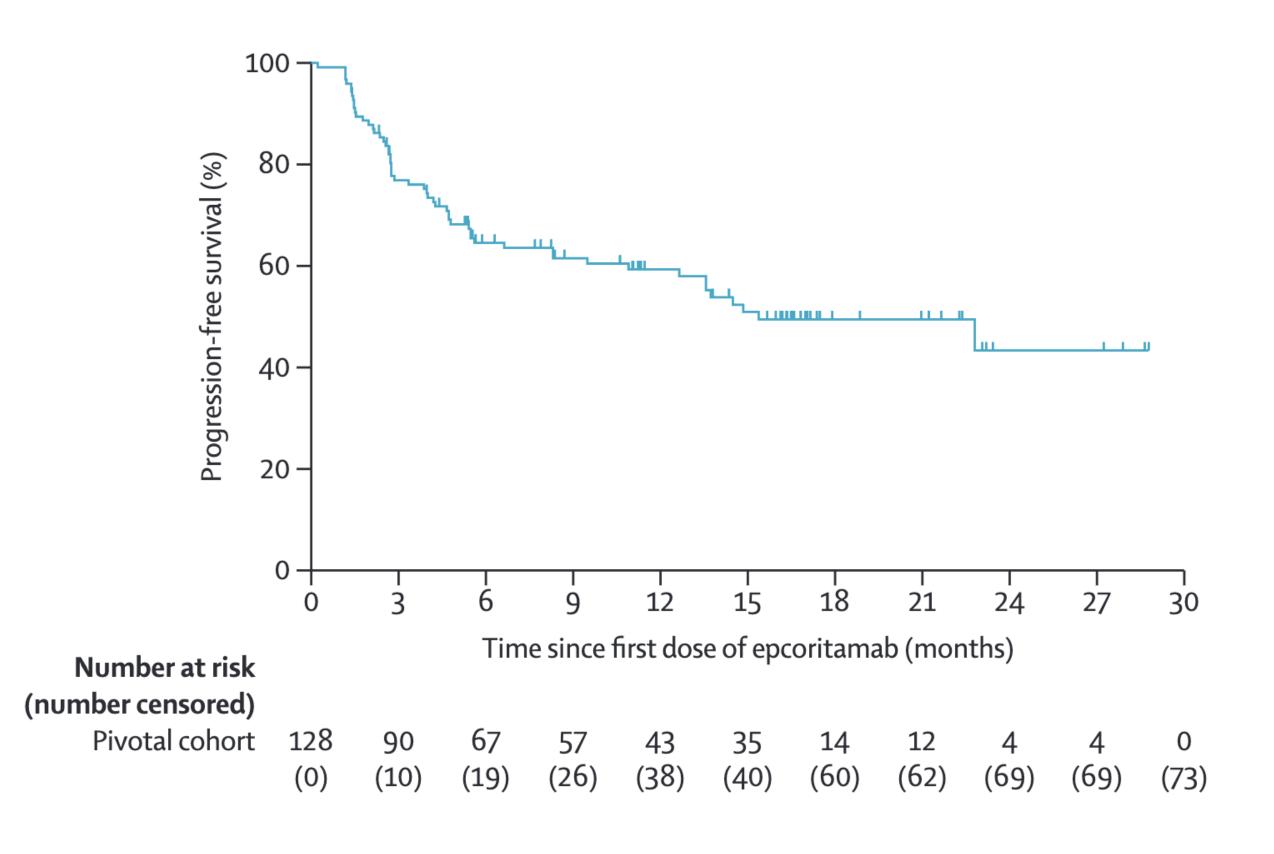


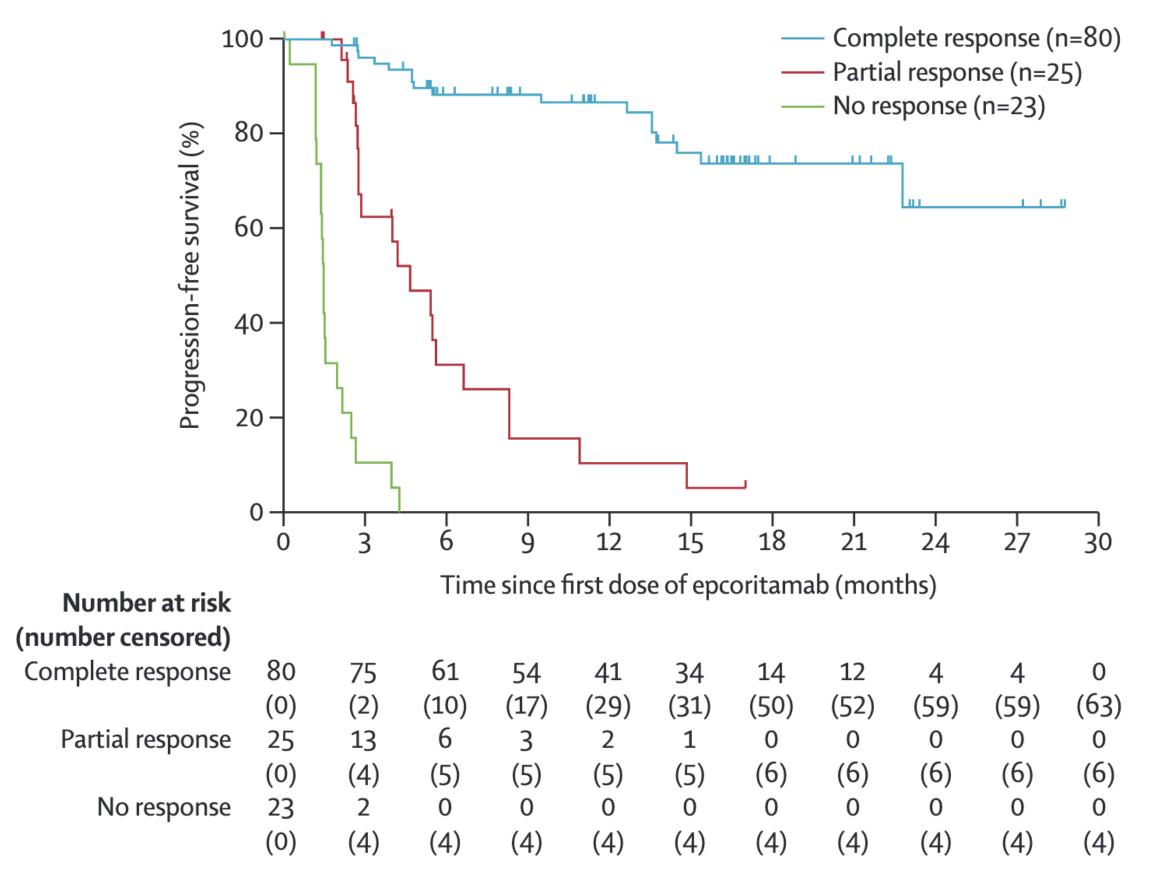
Mosunetuzumab (IV) in R/R follicular lymphoma



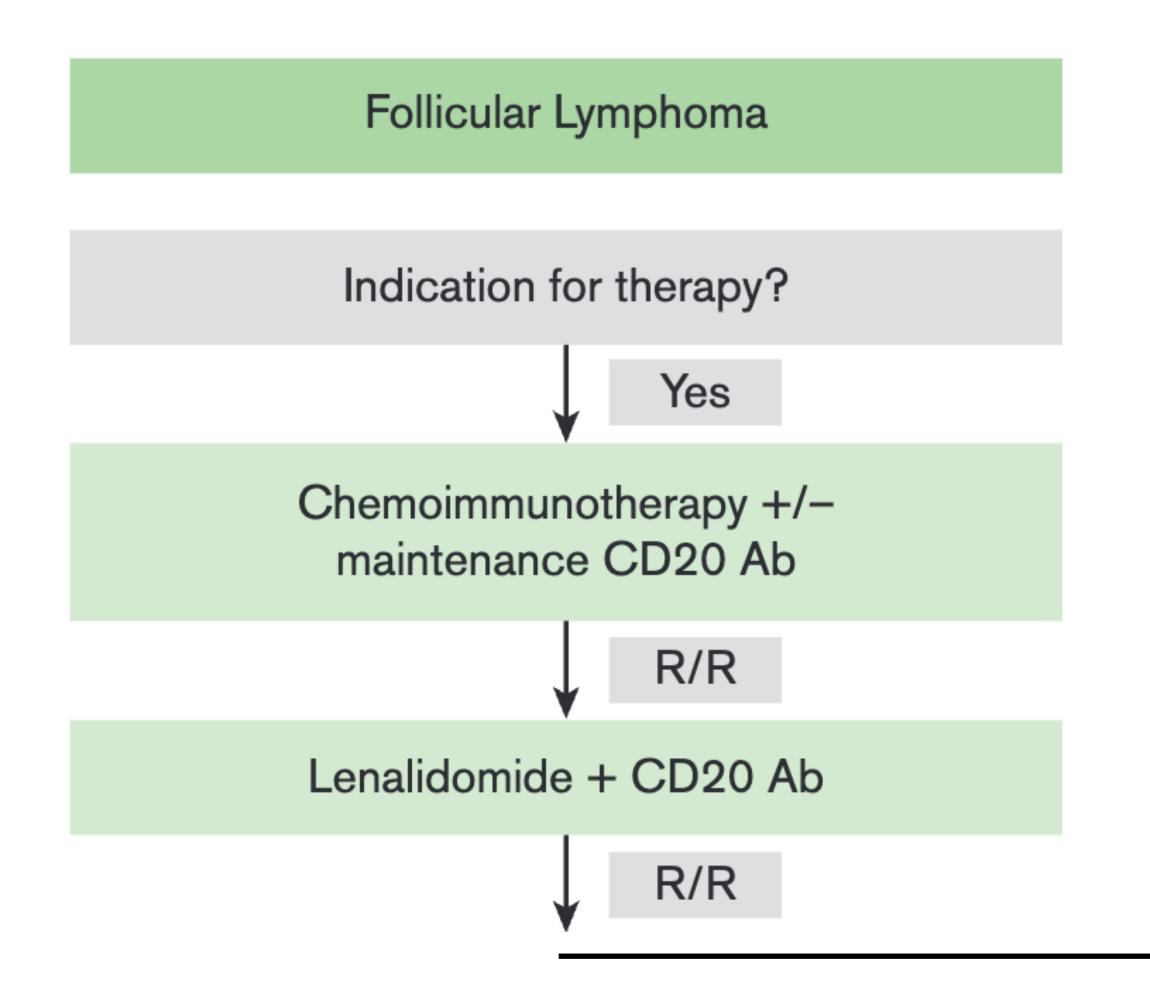


Epcoritamab (SC) in R/R follicular lymphoma









BsAb (mosunetuzumab, epcoritamab)

or

CAR T-cells (axi-cel, tisa-cel, liso-cel)

or

Zanubrutinib + obinutuzumab

or

Tazemetostat if EZH2^{mut} or frail

R/R

Based on prior treatments: BsAb, CAR T-cells, zanubrutinib/obinutuzumab, tazemetostat

*At any juncture: Consider XRT for localized symptomatic disease



Bispecific Antibody Therapy Toxicity Management



Common Toxicities of BsAb Therapies

- ****** Cytokine release syndrome (CRS)
- ** Immune-effector cell mediated neurotoxicity syndrome (ICANS)
- ** Prolonged cytopenias
- ****** Tumor flare reaction
- ** Infectious complications



Administration of various BsAb

	Mosunetuzumab	Epcoritamab	Glofitamab
Administration	IV, time-limited	SC, indefinite	IV, time-limited
Dosing schedule	C1: days 1, 8, 15[SEP]	C1-3: days 1, 8, 15, 22	C1: obin, day 1; glofit, days 8 and 15
	C2+: day 1, every 21 d,	C4-9: days 1 and 15	
	for up to 8 cycles in CR		C2-12: d1, every 21d
	or up to 17 cycles for PR	C10+: day 1, every 28 d	
	or SD	until PD	
Risk mitigation	Step-up dosing	Step-up dosing	Obinutuzumab
strategy			Step-up dosing
Hospitalization	Optional	C1D15 for 24h	C1D8 for 24h



Cytokine Release Syndrome (CRS) in BsAb Therapy

Mosunetuzumab					Epcoritamab				Glofitamab					
CRS Grade	G1 G2	G3	G4	G5	G1	G2	G3	G4	G5	G1	G2	G3	G4	G5
CRS Incidence	26% 17%	6 1%	1%	0%	34%	15%	3%	0%	0%	47%	12%	3%	1%	0%
Time to onset:	C1D1 C1D8 C1D15 C2D1 C3D1+	23.3% 5.6% 36.4% 10.3% 2.4%	(2 6 (2 6 (3	5h) 20h) 27h) 88h) na)	C1D C1D C1D C2D)8 15 22	5.8% 11.8% 42.3% 4.9% 3%	(2)	4h) 4h) 0h) 4h)	C1E C1D C1D C2E C3D)8 15)1	42.8% 25.2% 26% 0.9%	6 (6	3.5h -52)
Median 3d (1-29d) duration of CRS			2d (1-27d)				2.5d (1-34d)							

Management of Cytokine Release Syndrome

Grade and definition	Management
Grade 1: Fever* of ≥100.4°F with/without constitutional symptoms requiring symptomatic treatment, no hypotension or hypoxia	 Home: A/P 650-1000 mg orally, can repeat, if recurrent fever, ≥6-8 h later if clinically stable Recommend aggressive oral hydration Continue to check temperature every 1-2 h and other vitals if able. Patients should recontact the clinic urgently or present to ED if BP goes <10 mm Hg below baseline AND <90 mm Hg systolic, new orthostatic symptoms, weakness, confusion, dizziness, or new hypoxia (<90%). Home vs outpatient/ED evaluation: If refractory or recurrent fever (<6-8 h) consider dexamethasone 10 mg once. Home management may be appropriate if vital signs remain stable and no other concerning symptoms. Otherwise, patients should be evaluated in a health care facility. Consider earlier administration of steroids and immediate in-person evaluation for patients with multiple disease risk factors or comorbidities (see text) Consider daily dexamethasone with persistent symptoms Additional management: Consider anticytokine therapy (eg, tocilizumab) in cases of protracted fever (eg, >48 h despite corticosteroids) Early tocilizumab after trial of dexamethasone should be considered for patients with multiple medical risk factors (eg, comorbidities)



Management of Cytokine Release Syndrome

Grade 2:

Fever of ≥100.4°F with either hypotension not requiring pressors and/or hypoxia managed with low-flow nasal canula or blow-by.

- All patients should be urgently evaluated in person. Recommend inpatient management for most cases of grade 2 CRS unless qualified outpatient day hospital/infusion center and no hypoxia.
- If after hours without access to appropriate outpatient treatment area or if clinical scenario dictates, recommend ED evaluation
- A/P 650-1000 mg as needed, up to 3-4 times daily
- Dexamethasone 10 mg every 12 h
- Administer IV fluids/supplemental oxygen as appropriate
- Administer tocilizumab† if symptoms persist despite IV fluids and dexamethasone (~4-6 h after dosing) or if clinically unstable. Consider alternative agent (eg, anakinra or siltuximab) if persistent symptoms despite maximal dosing.



Management of Cytokine Release Syndrome

Grade 3:

Fever of ≥100.4°F with either hypotension (BP <90/60 or <10 mmHg below, not responsive to fluids and/or hypoxia requiring high-flow nasal canula, face mask, or venturi mask)

- Emergent inpatient admission (floor or ICU) for hemodynamic monitoring, IV fluids, oxygen therapy, and vasopressors
- A/P 1000 mg IV as needed up to 3-4 times daily when safe
- Dexamethasone (eg, 10 mg IV Q 6 h), until resolution to grade ≤1, followed by dexamethasone taper
- Evaluate for sepsis and consider empiric antibiotics
- Administer tocilizumab† and consider alternative agent (eg, anakinra or siltuximab) if persistent grade 3 CRS despite maximal dosing
- If refractory hypotension/hypoxia, admit to ICU

Grade 4:

Fever of ≥100.4°F with any of the following:

Life-threatening consequences, urgent intervention required; requiring multiple pressors and/or positive pressure respiratory support or mechanical intubation.

- Inpatient admission to ICU for hemodynamic monitoring, IV fluids, oxygen therapy, and vasopressors
- A/P 1000 mg IV as needed up to 3-4 times daily when safe
- Dexamethasone (eg, 20 mg IV every 6 h), until resolution to grade ≤1, followed by dexamethasone taper
- Administer tocilizumab and if repeated doses of tocilizumab have been used, consider alternative agent (eg, anakinra or siltuximab) if persistent grade 4 CRS despite maximal dosing of first agent



Immune Effector Cell Associated Neurotoxicity Syndrome (ICANS) in BsAb Therapy

	Mosunetuzumab			Epcoritamab				Glofitamab				
ICANS Grade	G1-2	G3	G4	G5	G1	G2	G3	G4	G5	G1-2	G3-4	G5
ICANS Incidence	3%	0%	0%	0%	4.5%	1.3%	3%	0%	0.6%	5%	3%	0%



ASTCT Neurotoxicity – ICE Score Consensus Grading for Adults

ICE

Orientation: orientation to year, month, city, hospital: 4 points

Naming: ability to name 3 objects (eg, point to clock, pen, button): 3 points

Following commands: ability to follow simple commands (eg, "Show me 2 fingers" or "Close your eyes and stick out your tongue"): 1 point Writing: ability to write a standard sentence (eg, "Our national bird is the bald eagle"): 1 point

Attention: ability to count backwards from 100 by 10: 1 point

Scoring: 10, no impairment;

7-9, grade 1 ICANS;

3-6, grade 2 ICANS;

0-2, grade 3 ICANS;

0 due to patient unarousable and unable to perform ICE assessment, grade 4 ICANS.



Management of ICANS

ICANS grading

Grade 1: ICE 7-9 or depressed level of consciousness but awakens spontaneously

Grade 2: ICE 3-6 or depressed level of consciousness but awakens to voice

Grade 3: ICE 0-2 or depressed level of consciousness but awakens to tactile stimulus or any clinical seizure that resolves rapidly or focal/local edema on neuroimaging

Grade 4: ICE is 0 or patient is unarousable or requires vigorous or repetitive tactile stimuli, or life-threatening prolonged seizure (>5 min) or repetitive seizures without return to baseline or deep focal motor weakness or diffuse cerebral edema on neuroimaging

Management

- Pending clinical scenario and social situation, can consider observation or close monitoring in outpatient setting. Can consider dexamethasone 10 mg × 1
- Admit patient to hospital for monitoring
- Dexamethasone 10 mg IV every 12 h, followed by taper once grade
 ≥1
- Monitor in ICU setting
- Neurology consult
- Dexamethasone 10 mg IV every 6 h, followed by taper once grade ≥1
- Use antiepileptics for seizure management as needed
- Consider adding anakinra 100 mg every 12 h if symptoms persist beyond 24 h, continue until resolution
- Monitor in ICU setting
- Neurology consult
- Dexamethasone 10 mg IV every 6 h, followed by taper once grade ≥1
- Use antiepileptics for seizure management as needed
- Consider adding anakinra 100 mg every 12 h if symptoms persist beyond 24 h, continue until resolution



Tumor Flare Reaction

- ** Characterized by short-term volumetric increase in tumor burden, erythema, pain, and fever
- ** Typically occurs after first dose of BsAb
- ****** Incidence 4-7%
- ** May cause organ compression or compromise
- * Have risk mitigation plan in place when tumor flare could result in urgent scenario
 - Steroids / analgesics
 - Radiation
 - Surgical consultation



Cytopenias and Infections

- ** Cytopenias are common following BsAb in B-cell NHL
 - Neutropenia: 20-40% (Avoid GCSF during SUD and active CRS)
 - Anemia: 15-45%
 - Thrombocytopenia: 10-25%
- ** Infectious risk is significant in clinical trial patients, probably higher in real world cohorts (robust data lacking here)

Table 1. Summary of included clinical trials by malignant target and bispecific product

Malignant target	BsAb	No. of trials	Lymphoma subtype (no. of trials)	No. of patients	All-grade infection, % (95% CI)	Median length of follow-up, mo (IQR)
CD20	Epcoritamab	7	Aggressive (5), indolent (1), and B-cell NHL NOS (1)	470	39 (29-47)	11.4 (6.1-17.1)
	Glofitamab	7	Aggressive (6) and B-cell NHL NOS (1)	618	42 (30-53)	10.6 (6-15)
	Mosunetuzumab	6	Aggressive (3), indolent (2), and B-cell NHL NOS (1)	599	43 (47-50)	12.5 (8-28.5)
	Odronextamab	3	Aggressive (1), indolent (1), and B-cell NHL NOS (1)	414	59 (48-69)	21 (NR)

NR, not reported; NHL, non-Hodgkin lymphoma; NOS, not otherwise specified.



Infectious Prevention Strategies

Strategy	Specification	Action Taken
Vaccination	VZV Pneumococcal spp. Influenza COVID-19	If possible, should vaccinate prior to initiating BsAb therapy
Viral testing (prior to therapy initiation)	HBV HCV HIV EBV CMV	Entecavir (or other hepatitis prophylaxis) if indicated Pre-emptive treatment of CMV reactivation
Pretreatment level assessment	IgG	IVIG if IgG <400 mg/dL
Prophylaxis	Antiviral PJP Antibacterial Antifungal	Strongly recommended Strongly recommended Institutional guidelines Institutional guidelines



Future Directions and Challenges in Bispecific Therapy

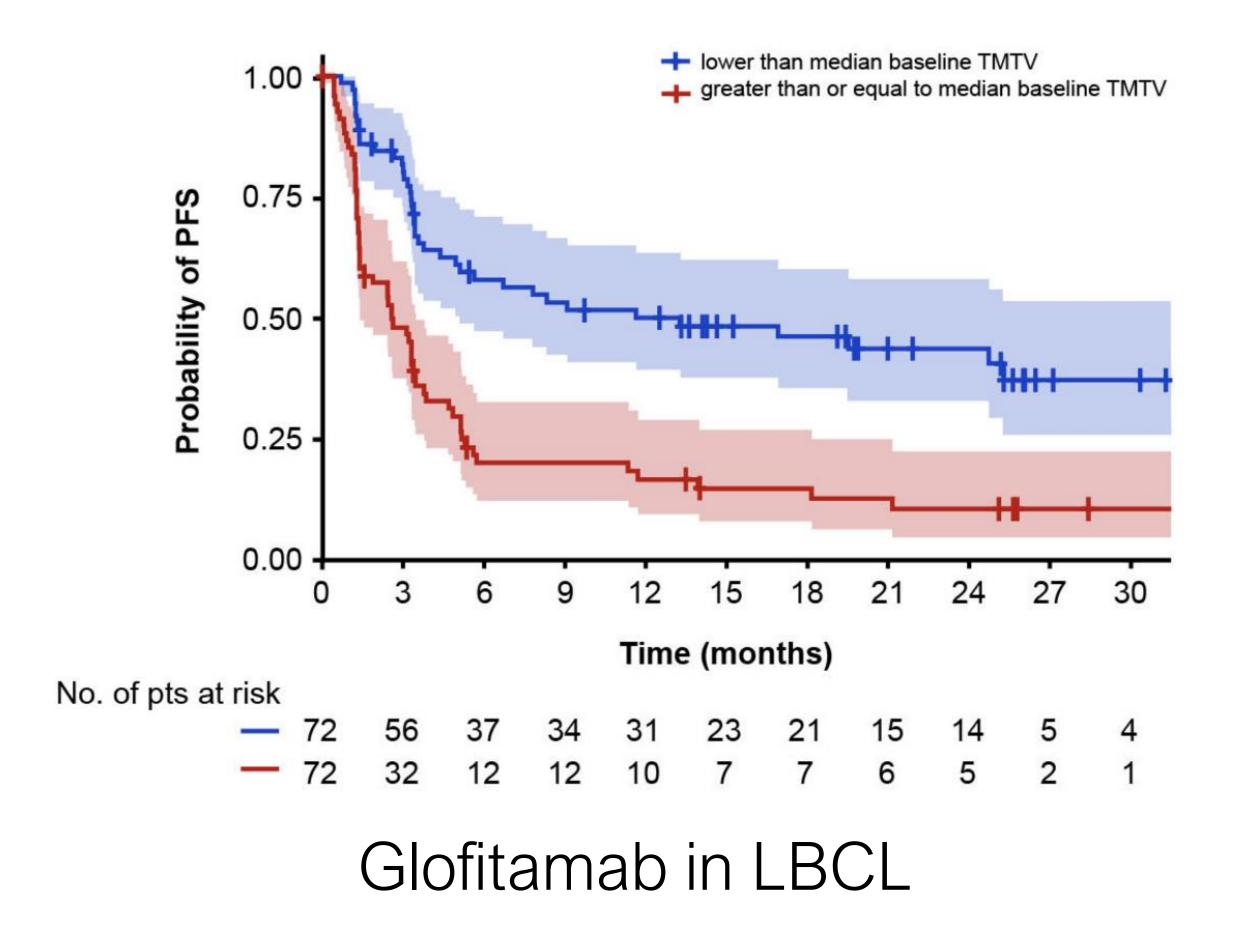


Forthcoming Studies

- ** ASH 2024 (selected)
 - Abstract 987: Glofi-R-ICE in transplant or CAR T-eligible R/R LBCL
 - Abstract 988: Glofi + pola in R/R LBCL
 - Abstract 3100: BsAb outcomes in real world UK cohort
 - Abstract 111: BsAb outcomes in real world US cohort
 - Abstract 582: Glofi+ R-CHOP/pola-R-CHP in high risk DLBCL
 - Abstract 1627: FD Epco+BR in 1st line FL
 - Abstract 867: FD Epco mono in 1L, anthracycline-ineligible LBCL
 - Abstract 3110: FD Epco + lenalidomide in R/R LBCL
 - Abstract 581: FD Epco + R-CHOP in 1st line LBCL



MRD as a prognostic marker in BsAb therapy



MRD negative (n=61) — Not MRD negative (n=30) Progression-free survival (%) 80 40 -20 21 27 Time since first dose of epcoritamab (months) Number at risk (number censored) 48 56 MRD negative 61 43 33 29 13 11 (7) (10)(36) (38)(2) (19)(20)(45)(45)(48)Not MRD negative (5) (5) (4)

Epcoritamab in FL



CAR T-cell therapy OR Bispecific Antibody Therapy??

CAR T-cells	Bispecific Antibodies		
Excellent efficacy	Excellent efficacy		
Manufacturing process (3-4 weeks)	Available off-the-shelf		
Usually inpatient, followed by period of time proximal to administering center for monitoring	Usually outpatient, initially with weekly visits that ultimately space out depending on product		
"One and done"	Months (fixed duration) or continuous treatment		
Requires lymphodepleting chemotherapy +/- bridging	No lymphodepleting chemotherapy or bridging		
Higher risk of, and less predictable, CRS and NT	Less risk of, and more predictable, CRS and NT		
Infections and cytopenias are common; likely higher rates and more prolonged	Infections and cytopenias are common; potentially lower rates but more follow up needed		
Durable responses with years of follow up	Longer follow up needed for response durability		



Summary Points

- ** BsAb therapy has shown remarkable efficacy in a subset of patients with NHL, in particular among those who achieve CR
- ** Longer follow-up is needed and we cannot yet make assumptions about curative potential of these therapies
- ** There are 3 FDA approved BsAb therapies for indolent and aggressive NHL
- ** Toxicity can be significant
 - CRS, common but low grade
 - ICANS is rare
 - Infections and prolonged cytopenias common and preventive strategies should be clearly defined
- ** BsAb actively being explored in combination regimens in 1st line and R/R



Thank you!



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