



Charles University
1st Faculty of Medicine



**General
Hospital**

The evolving landscape in R/R DLBCL

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1st Dept Med, Charles University, General Hospital

March 26th 2026, Torino

CLSG  **KLS**

Czech Lymphoma Study Group
Kooperativní Lymfomová Skupina

Unmet challenges in high risk hematological malignancies

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Disclosures

Disclosure of affiliations

Roche (Advisory board, research support, honoraria)

Takeda (Advisory board, honoraria)

Gilead (Advisory board, honoraria)

Abbvie (Advisory board, honoraria)

Caribou (Advisory board, honoraria)

GenMab (Advisory board, honoraria)

BMS (Advisory board, honoraria)

Janssen (Advisory board, honoraria)

Morphosys (Advisory board)

SOBI (Advisory board, honoraria)

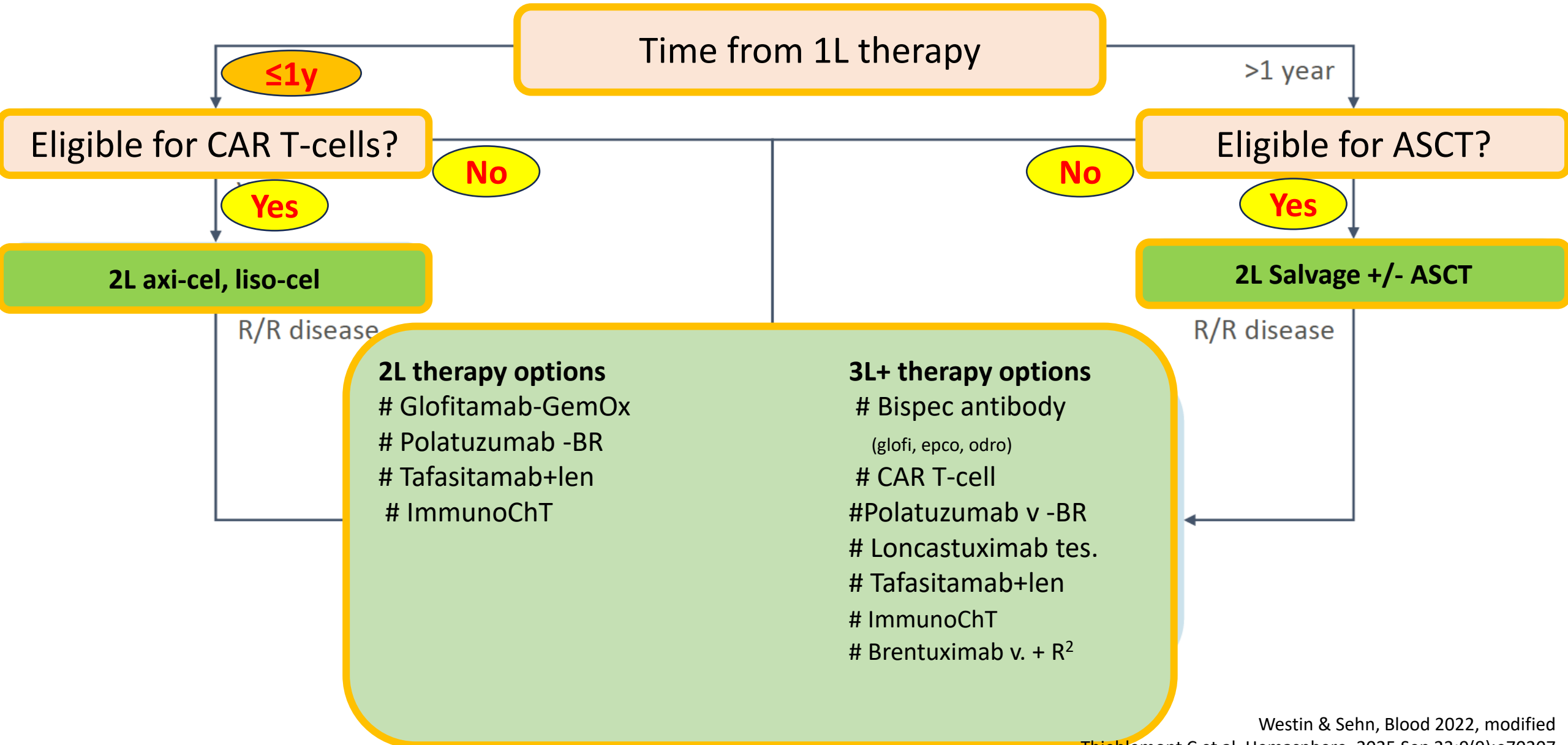
Autolus (Advisory board, honoraria)

Novartis (Advisory board)

Outline

- Current sequencing
- CAR T-cell
- ADC
- Bispecific antibodies
- Combinations
- Other options and challenges

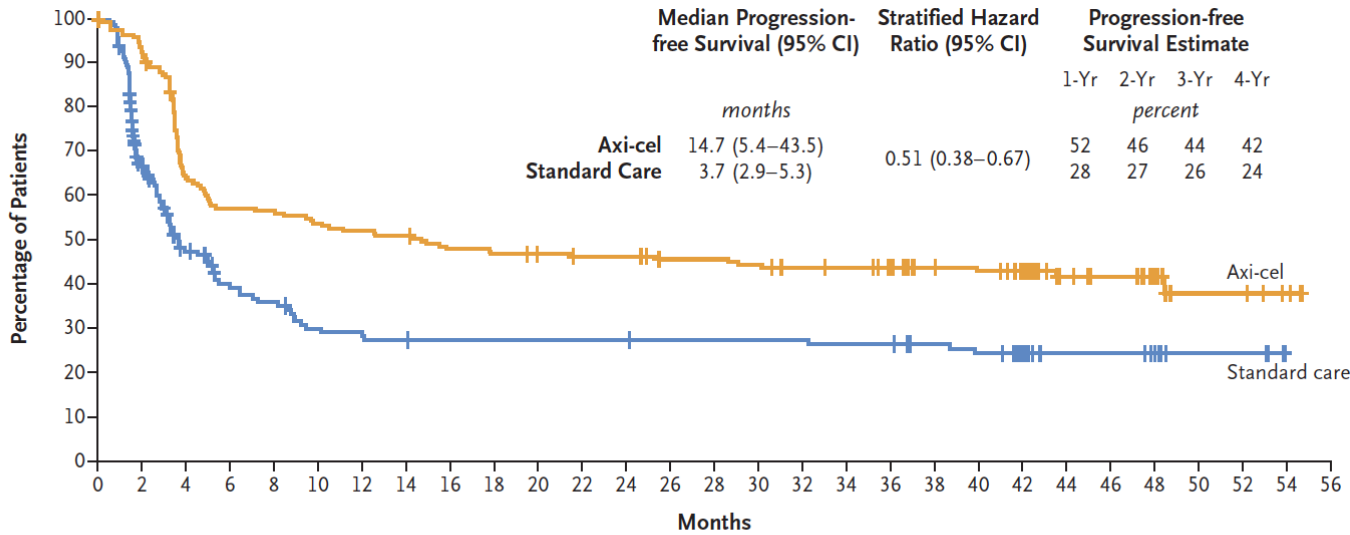
How to proceed? Sequence



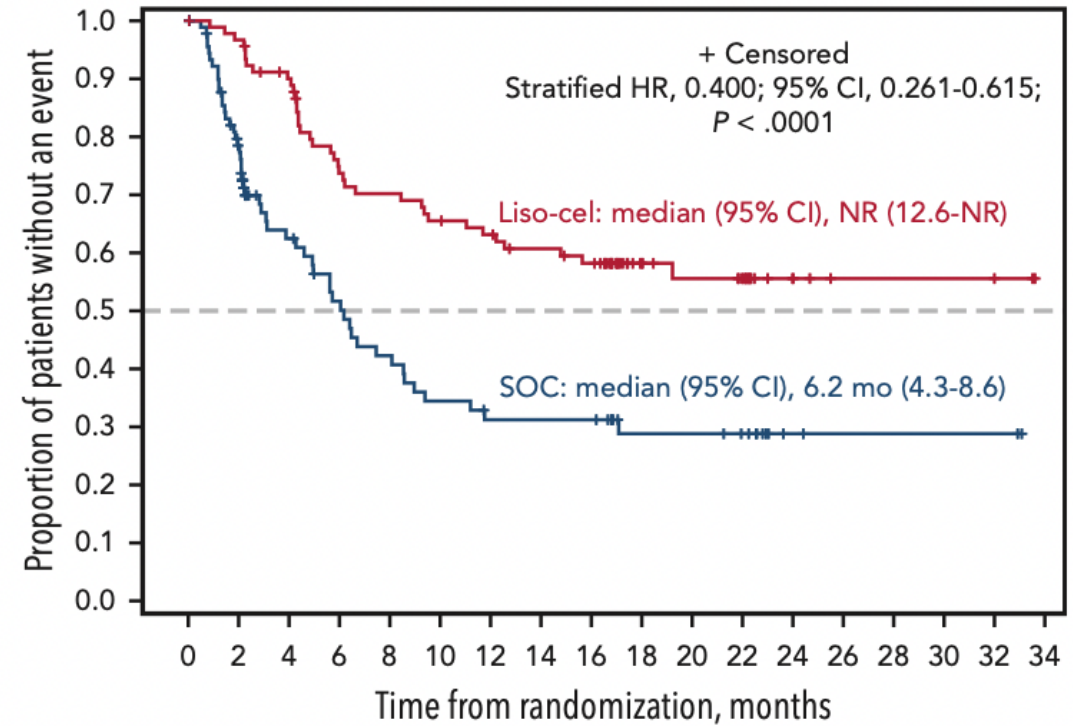
Outline

- Current sequencing
- **CAR T-cell**
- ADC
- Bispecific antibodies
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- Other options and challenges

PFS: Axi-cel (Zuma-7) a Liso-cel (Transform) L2 ≤12m

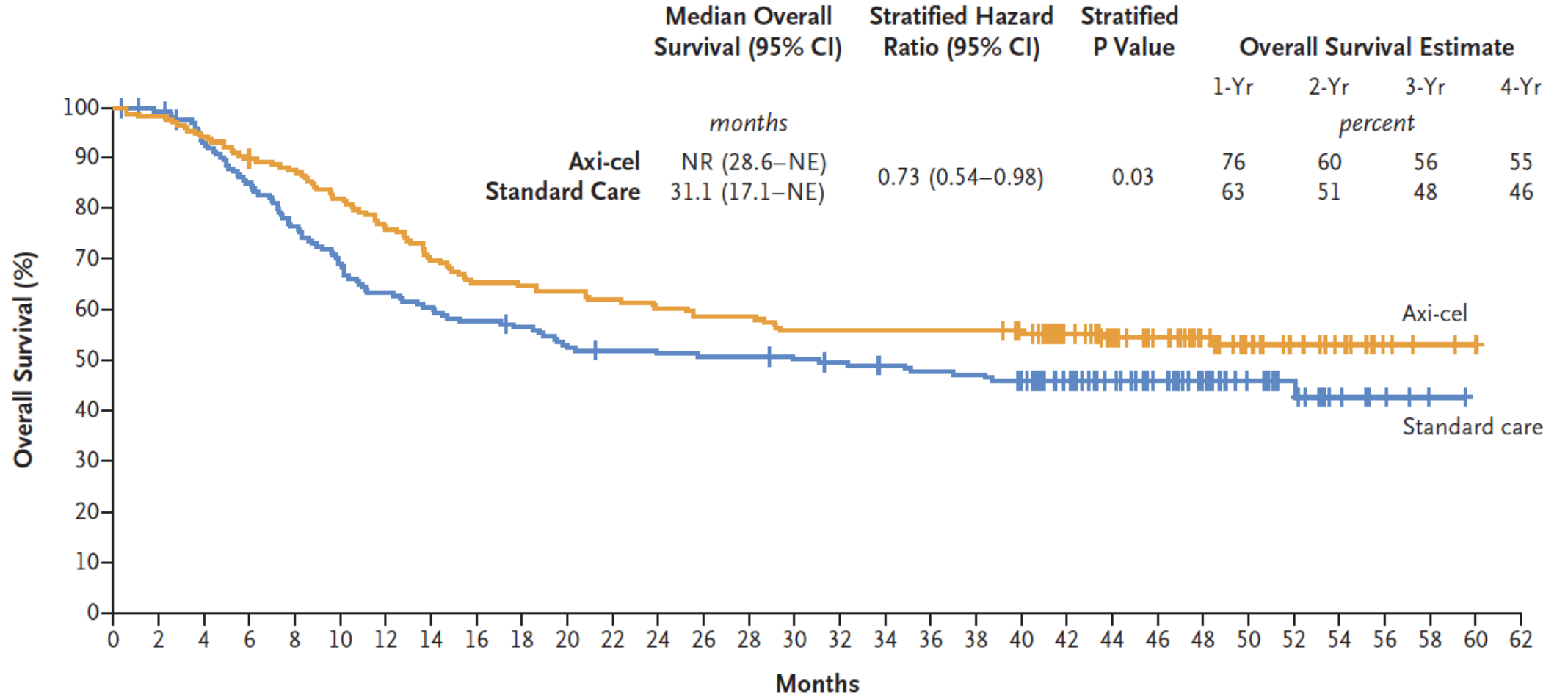


No. at Risk	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56
Axi-cel	180	166	112	100	99	94	91	89	83	81	79	77	77	73	73	71	68	67	63	54	52	45	32	29	22	7	7	3	0
Standard care	179	94	61	47	43	35	33	32	31	31	31	31	31	30	30	30	30	29	29	25	23	18	10	10	8	4	4	0	



No. at risk	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
SOC	92	66	42	33	27	22	19	19	19	12	12	10	3	2	2	2	2	0
Liso-cel	92	88	79	63	60	56	53	49	46	25	21	18	6	3	3	3	3	0

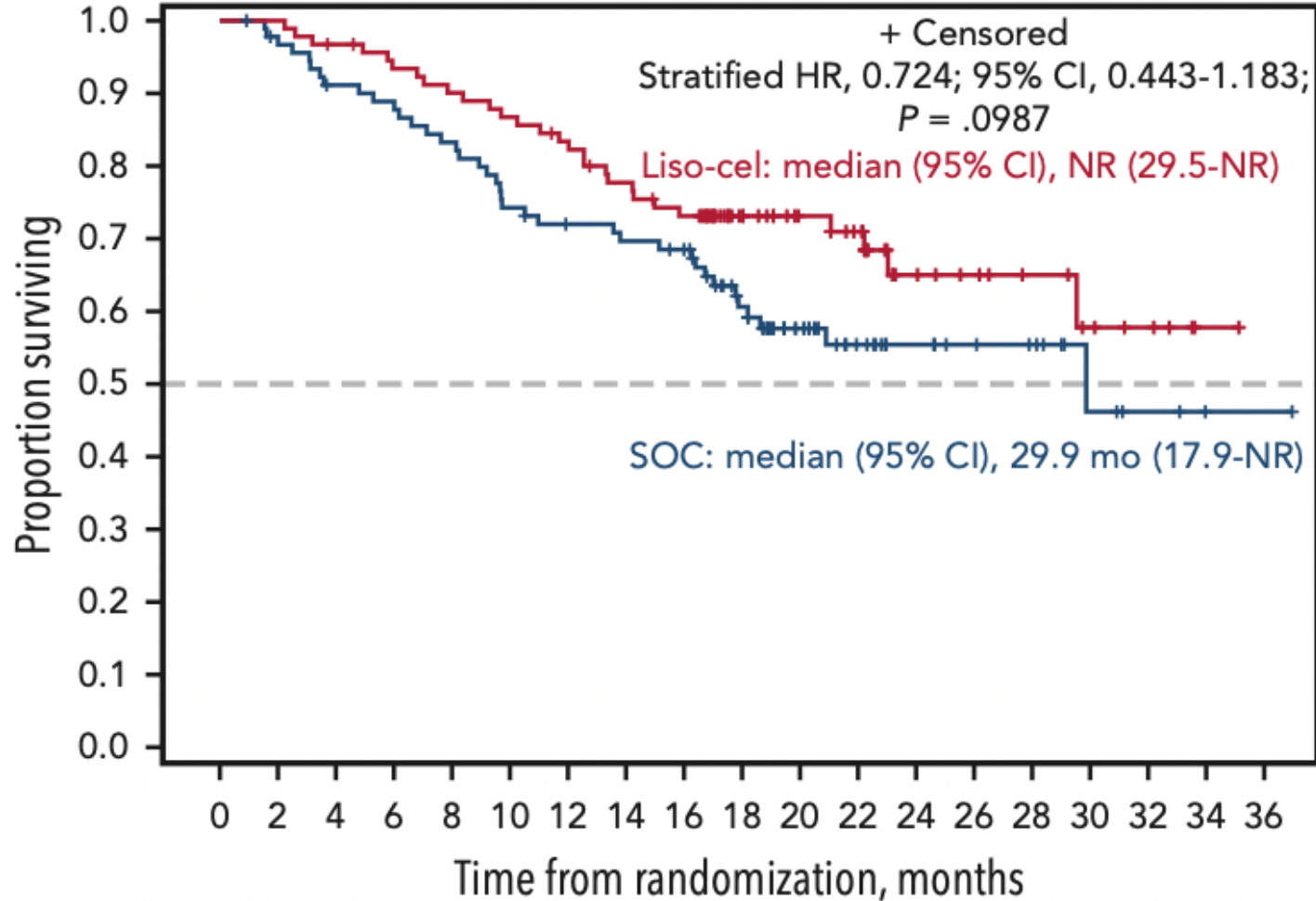
Zuma-7: L2 – Overall Survival Benefit



No. at Risk

Axi-cel	180	177	170	161	157	147	136	125	117	116	114	111	108	105	105	100	100	100	100	100	96	80	67	54	41	29	20	14	4	2	1	0
Standard care	179	176	163	149	134	121	111	106	101	98	91	89	88	87	87	85	83	81	79	78	73	63	51	41	31	19	14	7	4	1	0	

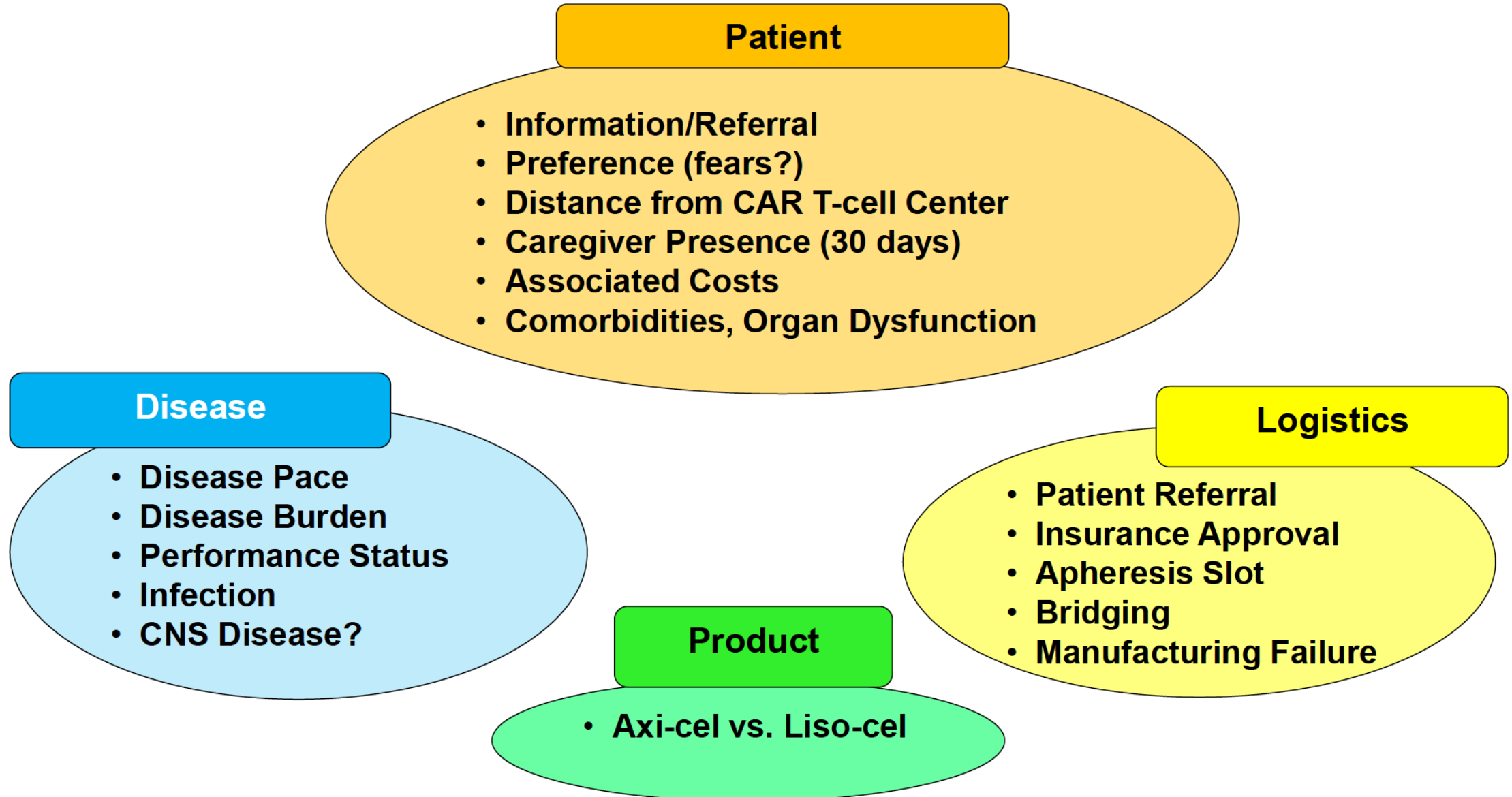
Transform: L2 – Trend to Overall Survival Benefit



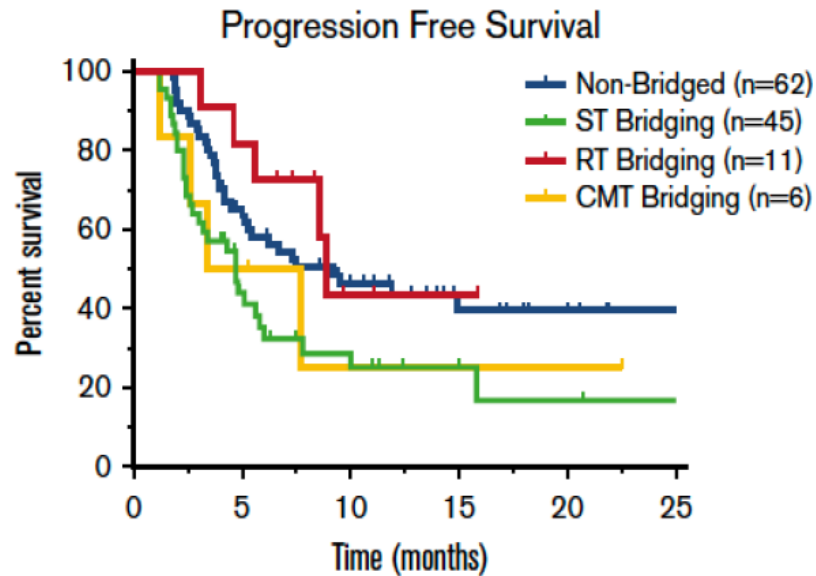
No. at risk

SOC	92	88	81	79	74	66	62	60	58	41	30	21	15	12	10	5	3	1	1
Liso-cel	92	92	88	84	81	78	74	68	63	43	34	30	16	13	10	7	5	1	0

Questions for CAR T-cell

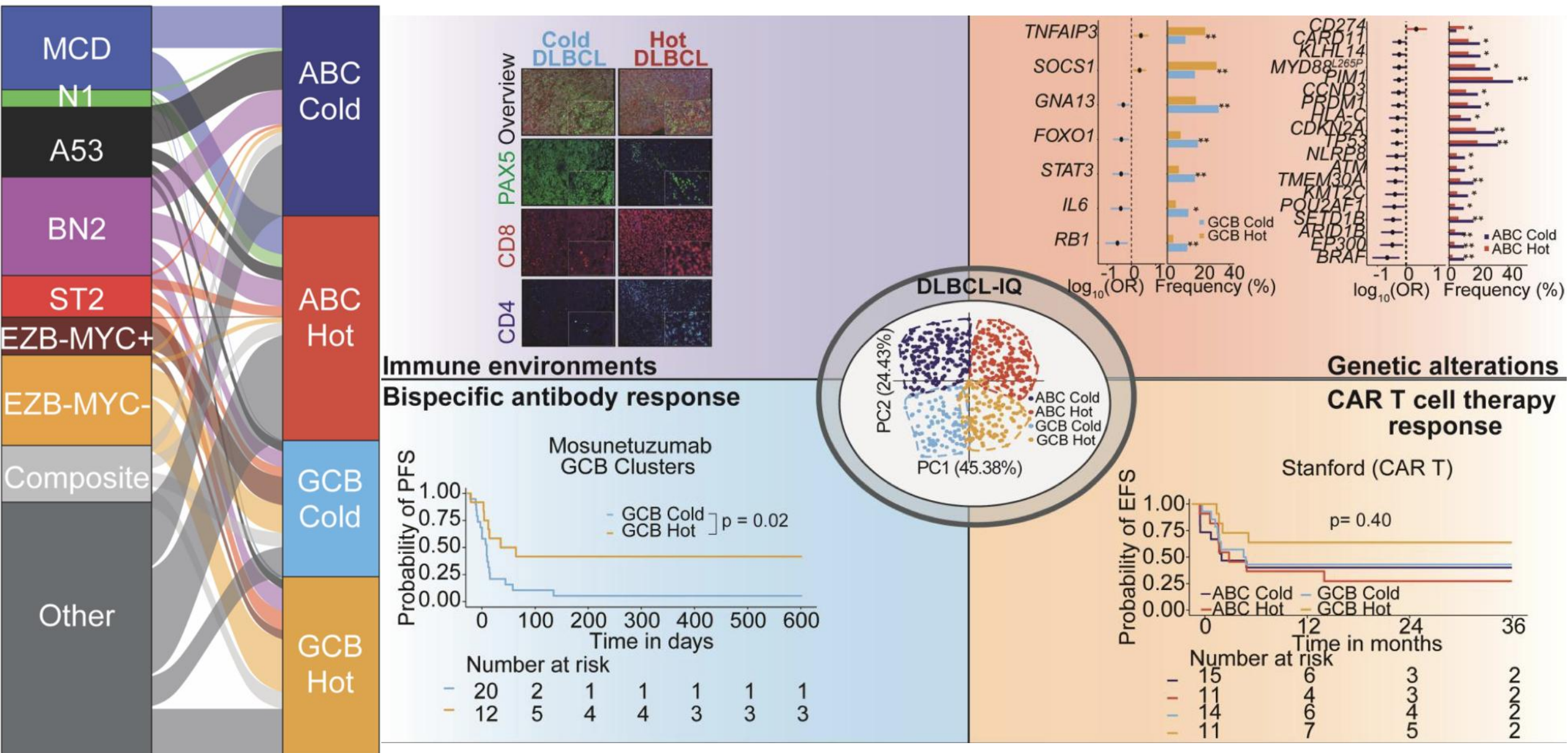


BridgingTherapy: are Bridging Strategies all Equal?



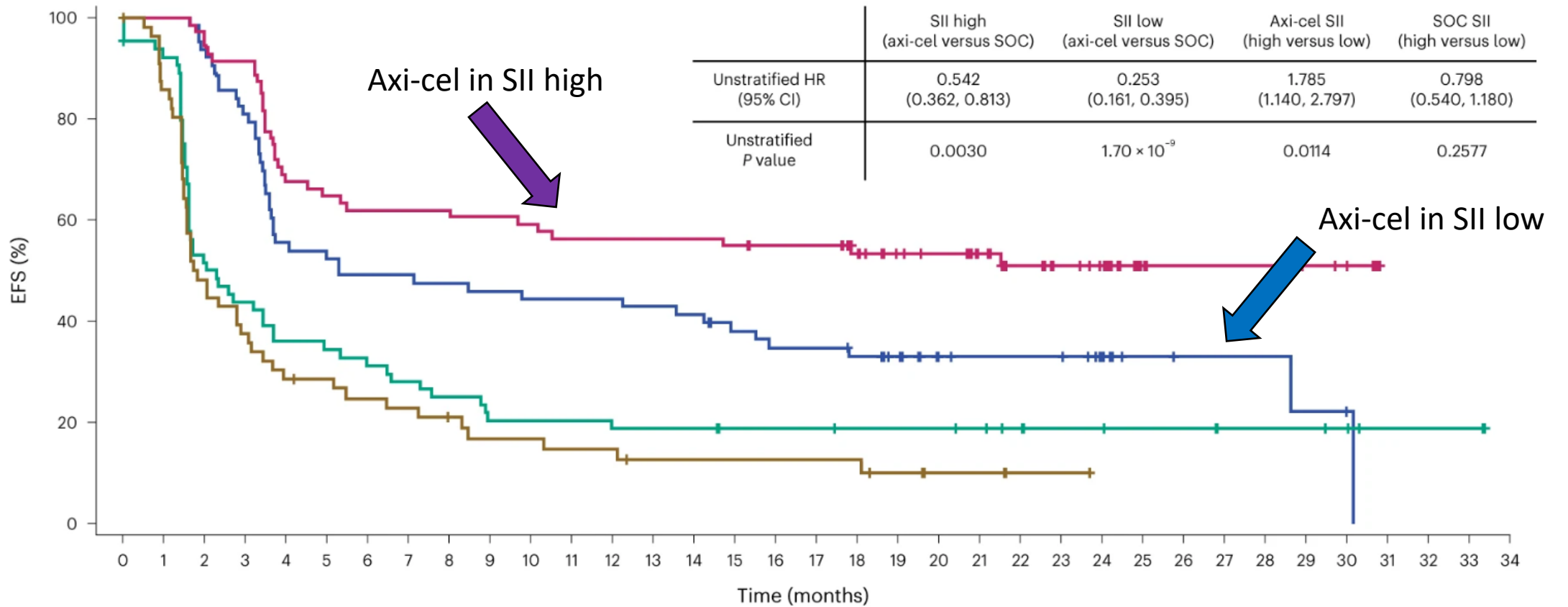
Chemotherapy	<ul style="list-style-type: none"> - R-GemOx, R-DHAox, R-GDI - R-CHOP, R-EPOCH - Pola-BR 	Increased risk of CAR T-cell toxicities?
ADC	<ul style="list-style-type: none"> - Polatuzumab Vedotin - Loncastuximab 	Risk of CD19 Ag masking or loss?
Immuno	<ul style="list-style-type: none"> - Tafa-Len - R2 - CD3xCD20 BsAb 	Influence in CAR T-cell efficacy?
Targeted	<ul style="list-style-type: none"> - Ibru - Len 	
Other	<ul style="list-style-type: none"> - Steroids - Radiation - .. None 	Feasibility?

Integrative genomic analysis of DLBCL identifies immune environments associated with T-cell engaging therapy



Response to axicel according to TME subtype

EFS by median of SII and by axi-cel and SOC arms

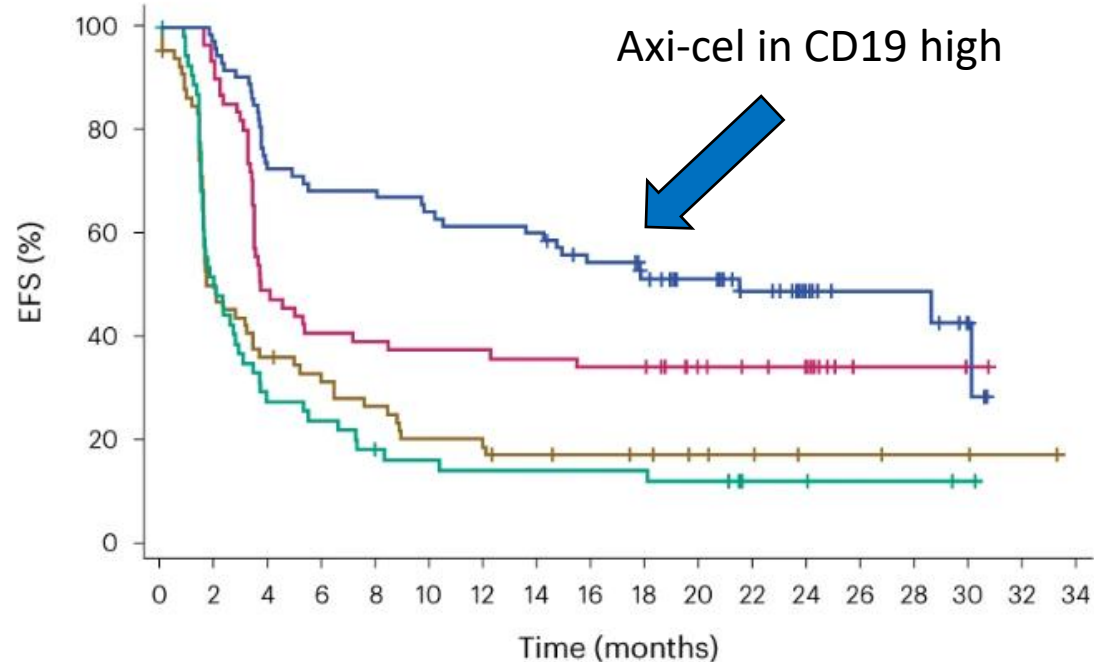


No. at risk	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
Axi-cel, SII high	63	63	59	51	35	33	31	31	30	29	28	28	28	27	26	23	21	21	19	17	14	13	13	13	8	4	3	3	3	2	1	0			
Axi-cel, SII low	71	71	69	65	48	46	44	44	44	43	42	40	40	40	40	39	38	38	34	30	28	24	20	18	15	8	7	7	7	7	6	4	0		
SOC, SII high	65	59	33	28	23	22	20	18	16	13	13	13	12	12	12	11	11	11	10	10	10	9	7	6	6	5	5	4	4	4	3	1	1	1	0
SOC, SII low	57	48	27	21	16	15	13	12	10	8	8	7	7	5	5	5	5	5	5	5	3	2	2	1	1	0									

Higher CD19 gene and protein expression predict improved EFS after axi-cel

a EFS by median of CD19 gene expression and by axi-cel and SOC arms

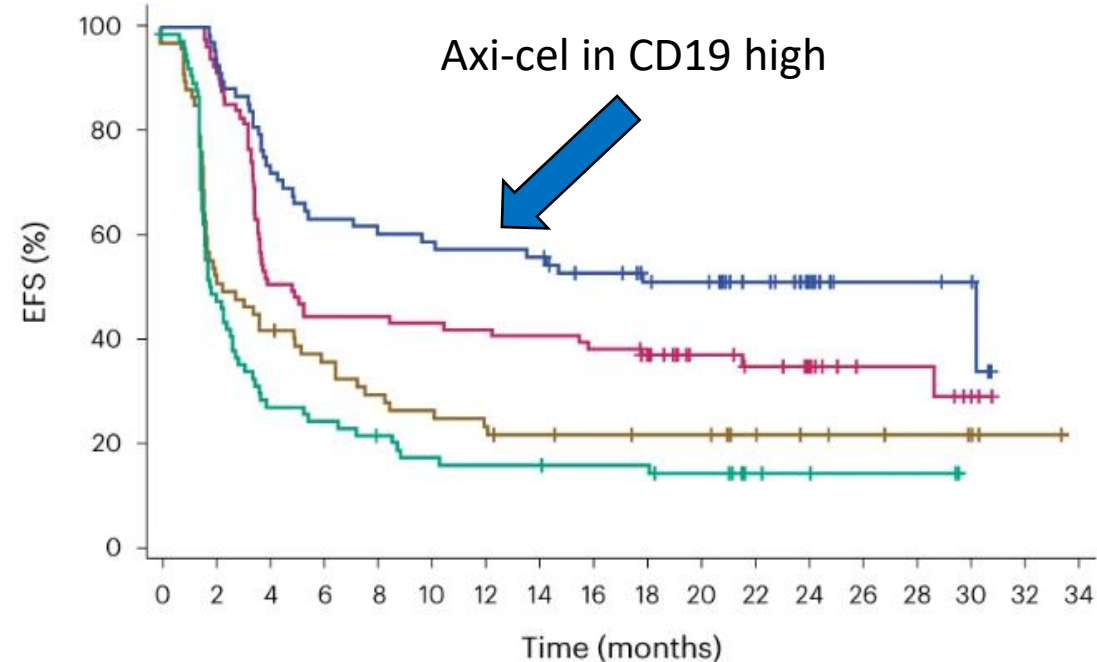
	CD19 gene high (axi-cel versus SOC)	CD19 gene low (axi-cel versus SOC)	Axi-cel CD19 gene (high versus low)	SOC CD19 gene (high versus low)
Unstratified HR (95% CI)	0.269 (0.174, 0.416)	0.517 (0.343, 0.780)	0.579 (0.371, 0.905)	1.126 (0.761, 1.667)
Unstratified P value	3.85×10^{-9}	0.0017	0.0165	0.5526



No. at risk	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
Axi-cel, CD19 gene high	73	71	53	50	50	47	45	44	38	32	27	20	13	8	8	4		
Axi-cel, CD19 gene low	61	57	30	25	24	23	23	22	21	21	15	13	10	2	2	1		
SOC, CD19 gene high	55	27	15	13	9	8	7	7	7	7	6	3	3	2	2	1		
SOC, CD19 gene low	67	33	24	20	17	13	12	10	9	8	6	5	3	3	2	2	1	0

b EFS by median of baseline CD19 protein expression (H-score as assessed by IHC) and by axi-cel and SOC arms

	CD19 high by IHC (axi-cel versus SOC)	CD19 low by IHC (axi-cel versus SOC)	Axi-cel CD19 (high versus low)	SOC CD19 (high versus low)
Unstratified HR (95% CI)	0.283 (0.184, 0.433)	0.572 (0.390, 0.840)	0.627 (0.407, 0.966)	1.254 (0.868, 1.812)
Unstratified P value	6.92×10^{-9}	0.0044	0.0341	0.2284



No. at risk	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
Axi-cel, CD19 high	68	66	50	43	42	40	39	38	33	29	28	21	14	6	6	4		
Axi-cel, CD19 low	81	76	41	36	36	35	34	33	31	28	18	15	10	6	6	2		
SOC, CD19 high	77	36	20	18	15	12	11	11	10	10	8	4	3	2	2	0		
SOC, CD19 low	67	36	28	23	19	17	15	13	12	11	11	8	6	5	4	3	1	0

Novel CAR T-cell

- Rapcabtagene autoleucel
- Zamcabtagen autoleucel
- GLPG 5101
- huCART19-41BB-IL18
- KTE-363
- Cermacabtagene autoleucel
- CAR NK-cell

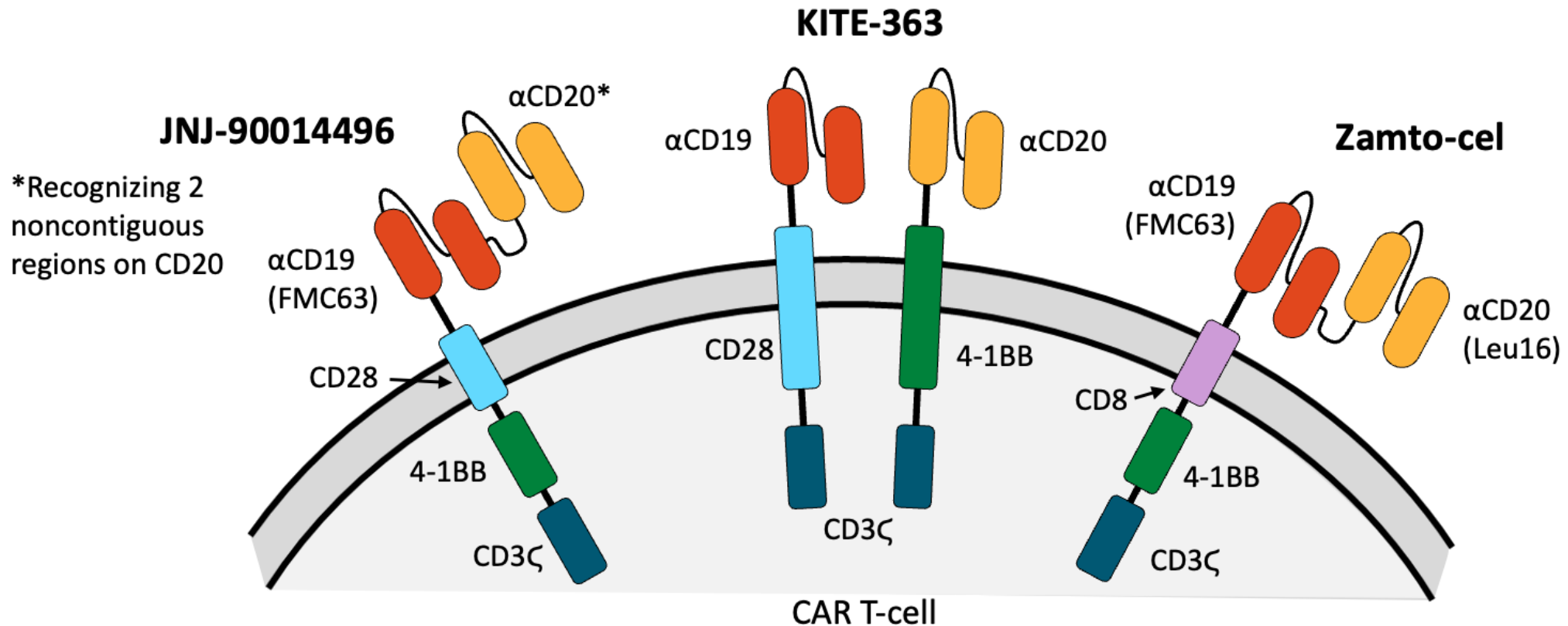
Rapcabtagene Autoluecel

- Rapid manufacturing platform to preserve T-cell stemness
- Expansion comparable to tisa-cel at a 25-fold lower dose
- Phase II trial of rapcabtagene autoleucel for R/R DLBCL

Baseline Characteristic		N=63	Efficacy		N=60	Safety		N=63
Median age, yr (range)	64 (26-81)		Overall response, %	88		CRS, %		
Median prior treatment	2 (2-6)		Complete response, %	65		• Any grade	43	
Refractory to prior line, %	59		Median DoR, mo	15		• Grade ≥3	6	
Elevated LDH, %	43		Median PFS, mo	12		ICANS, %		
Double hit, %	25					• Any grade	6	
						• Grade ≥3	3	
						Grade ≥3 infection, %	27	

Dual-Target CAR T-cell

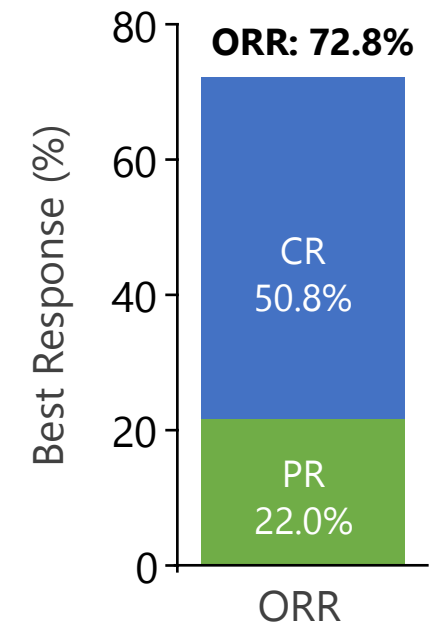
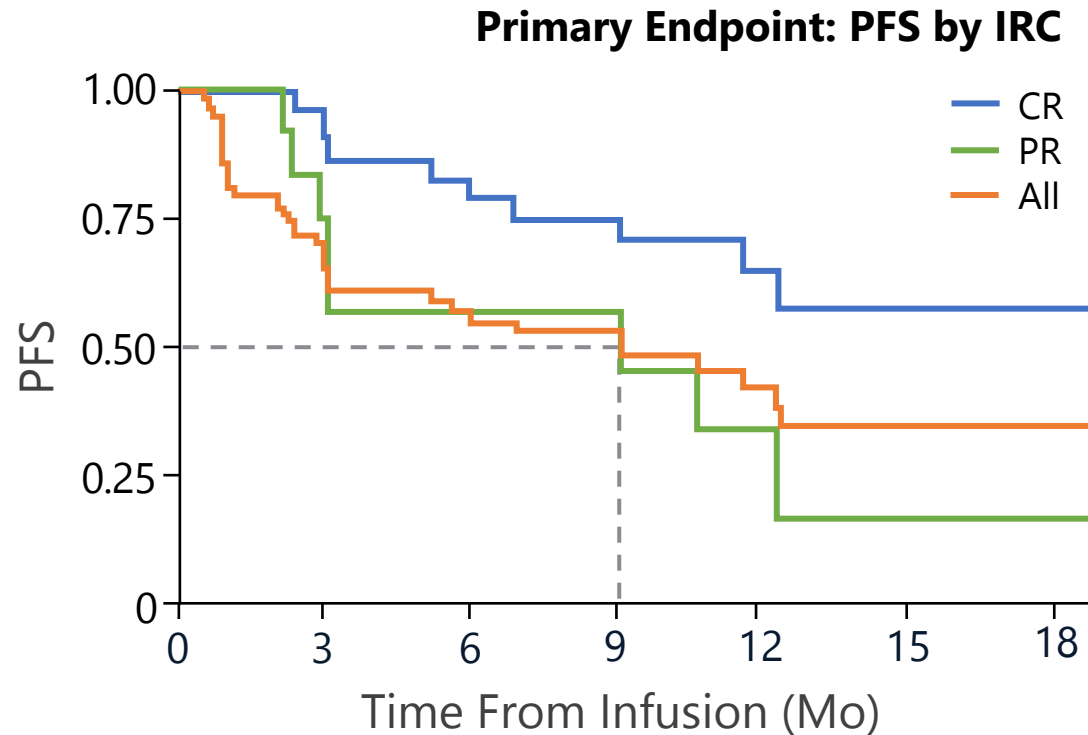
- Potentially improved efficacy vs single-target CAR T-cell therapy
- May prevent resistance due to antigen escape



Zamtocabtagene Autoleucel

- Anti-CD19/CD20 CAR T-cell therapy with 14-day vein-to-vein time
- DAILY II: phase II study in patients with R/R DLBCL after ≥ 2 prior lines of treatment

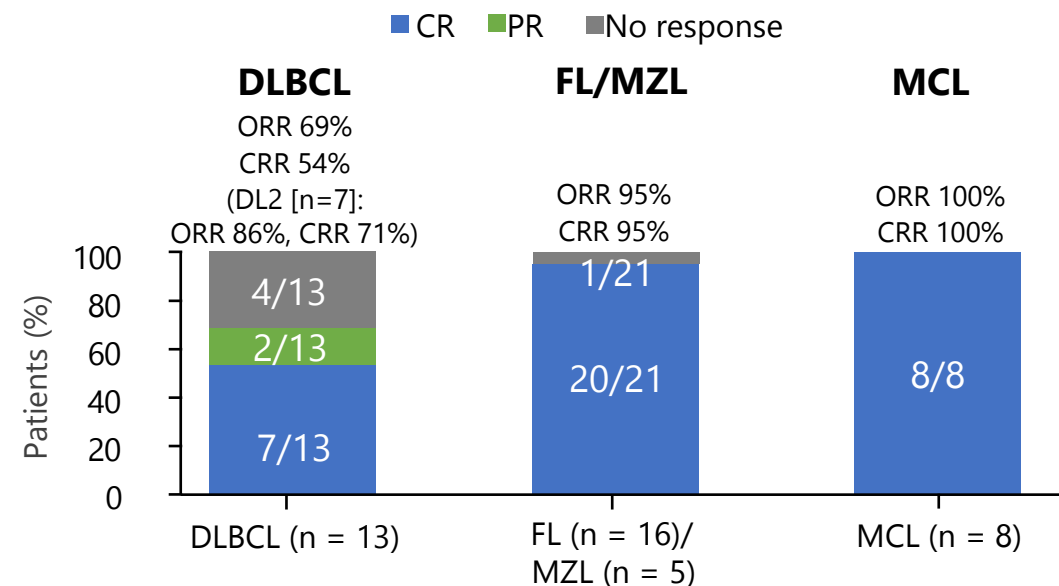
Baseline characteristics	N = 59
Median age, yr (range)	63 (25-85)
Elevated LDH, %	53
IPI 3-5, %	52
2 prior lines of therapy, %	75
≥ 3 prior lines of therapy, %	25
Prior ASCT, %	25
Antigen loss at progression	n = 27
CD19	2
CD20	2
CD19 & CD20	1



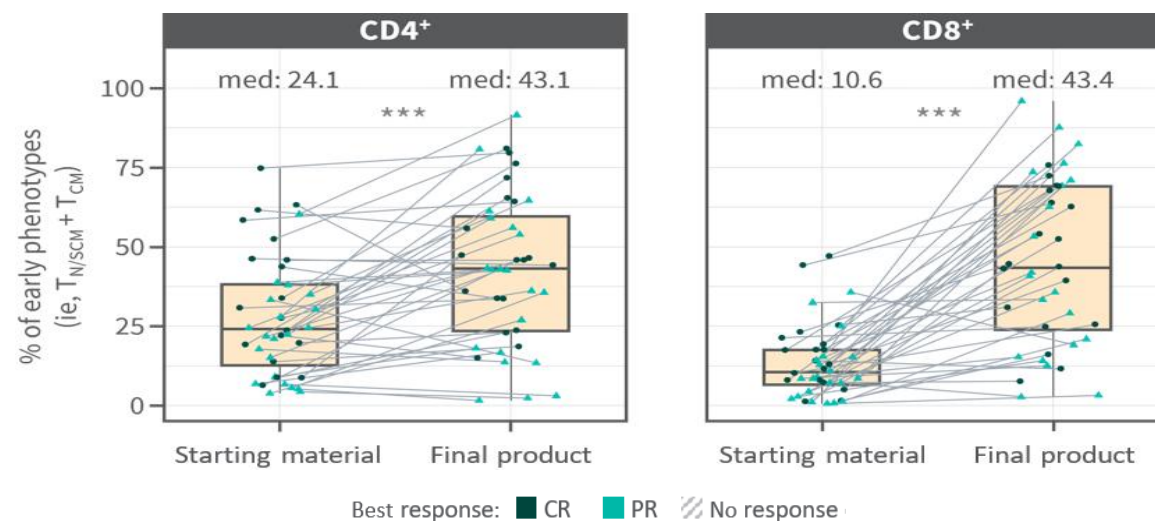
GLPG5101

- A fresh stem-like, early memory phenotype anti-CD19/CD20 CAR T-cell therapy with 7-day vein-to-vein time
- ATALANTA-1: phase I/II trial in patients with R/R B-NHL

Baseline characteristics	Phase I n = 20	Phase II n = 25
Median age, yr (range)	66.5 (25-78)	67 (40-81)
DLBCL, %	65	0
MCL, %	15	30
FL/MZL, %	15/5	64/16
High risk (M/FL) IPI, %	42	56
Median prior therapies (range)	2.5 (1-7)	3 (2-11)



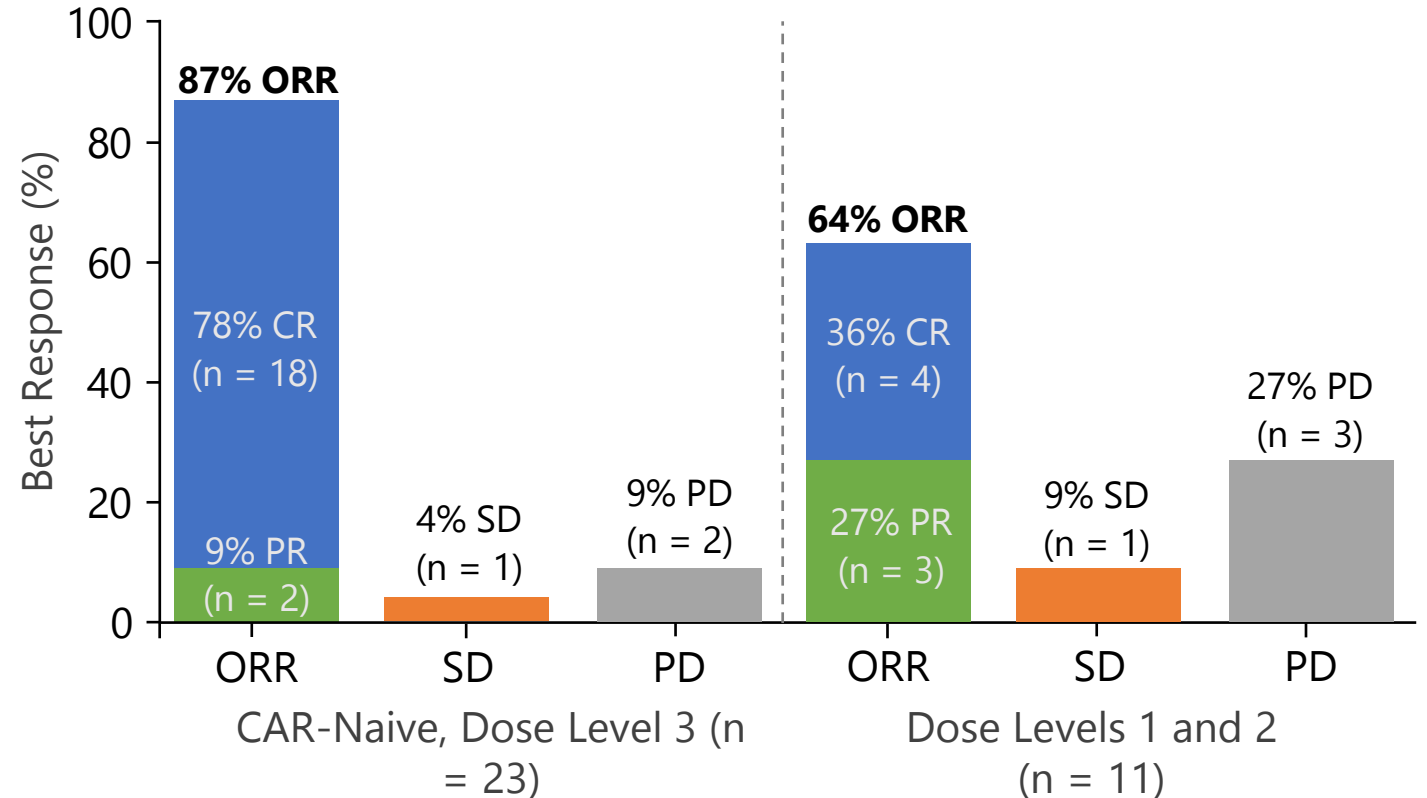
Majority of responses ongoing at median 3.3 mo



Kite-363

- A bicistronic, lentiviral-encoded, autologous anti-CD19/CD20 CAR t-cell therapy
- Phase I trial in patients with R/R BCL

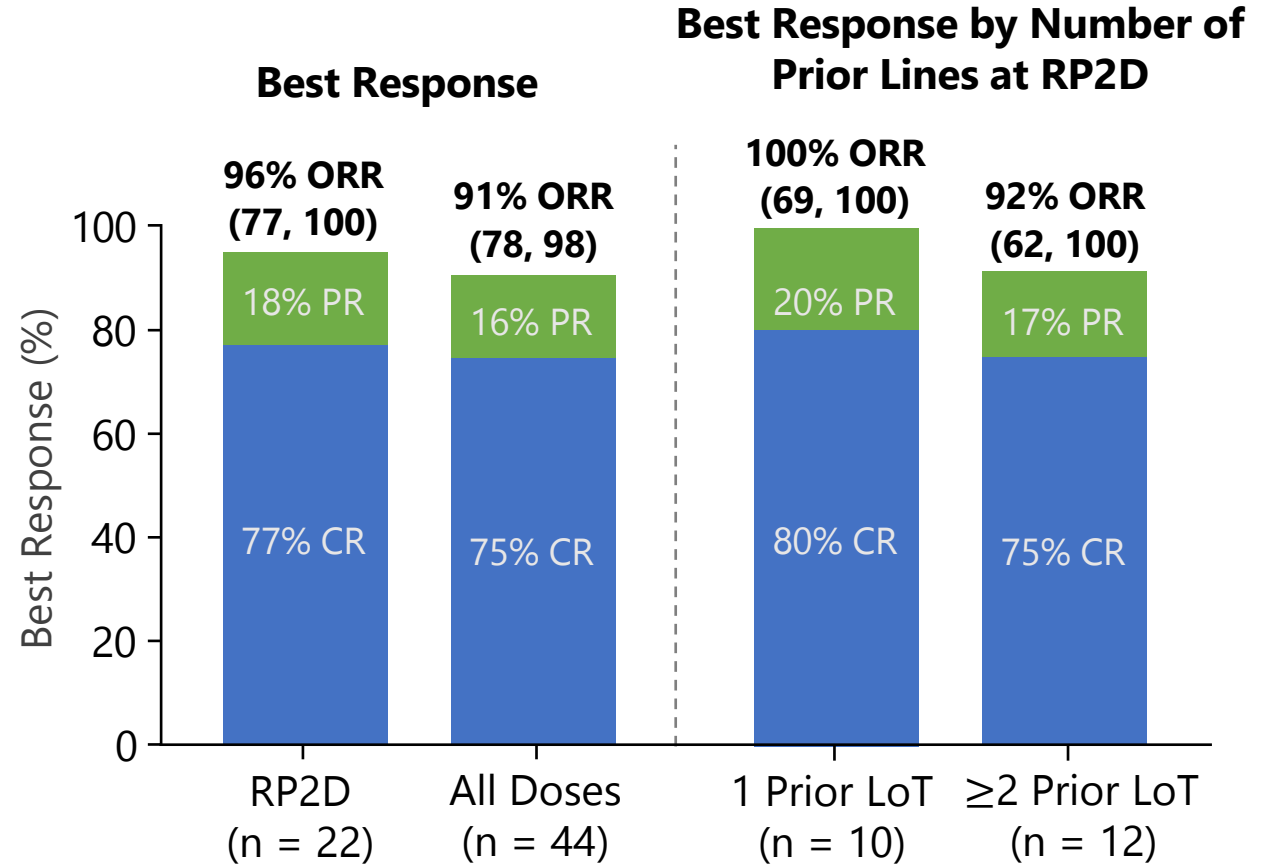
Baseline characteristics	N = 37
Median age, yr (range)	62 (25-83)
IPI 3-4, %	44
1 prior line of therapy (primary refractory), %	46
≥2 prior lines of therapy, %	54
Prior anti-CD19 CAR, %	19



Prizloncabtagene Autoleucel (JNJ-90014496)

- Bispecific anti-CD19/CD20 CAR
- Phase Ib study in R/R LBCL

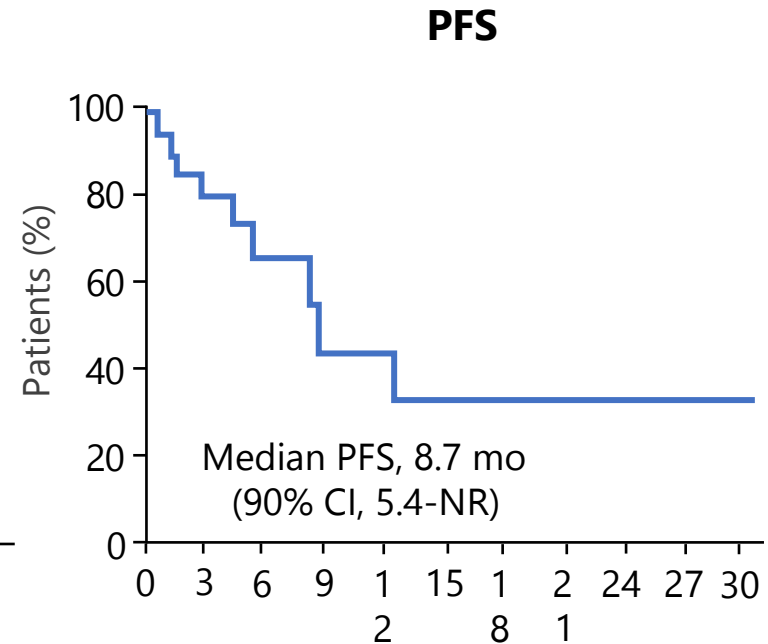
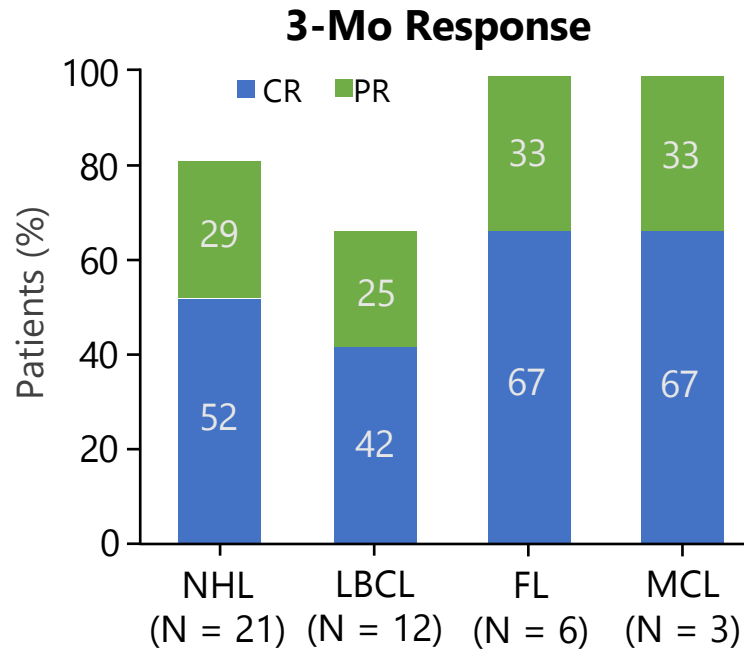
Baseline characteristics	All (N = 51)	RP2D (n = 25)
Median age, yr (range)	72 (39–87)	72 (40–87)
Primary refractory, %	57	56
Elevated LDH, %	35	36
Median prior lines of therapy (range)	1 (1–3)	1 (1–3)
Prior anti-CD20 BsAb, %	10	20
Prior anti-CD19 BsAb, %	4	8



huCART19-41BB-IL18

- Enhanced (armored) CAR-T cell that secretes IL-18; 3 day manufacturing time
- Phase I trial of huCART19-IL18 in patients with R/R lymphoma with previous anti-CD19 CAR T-cell therapy

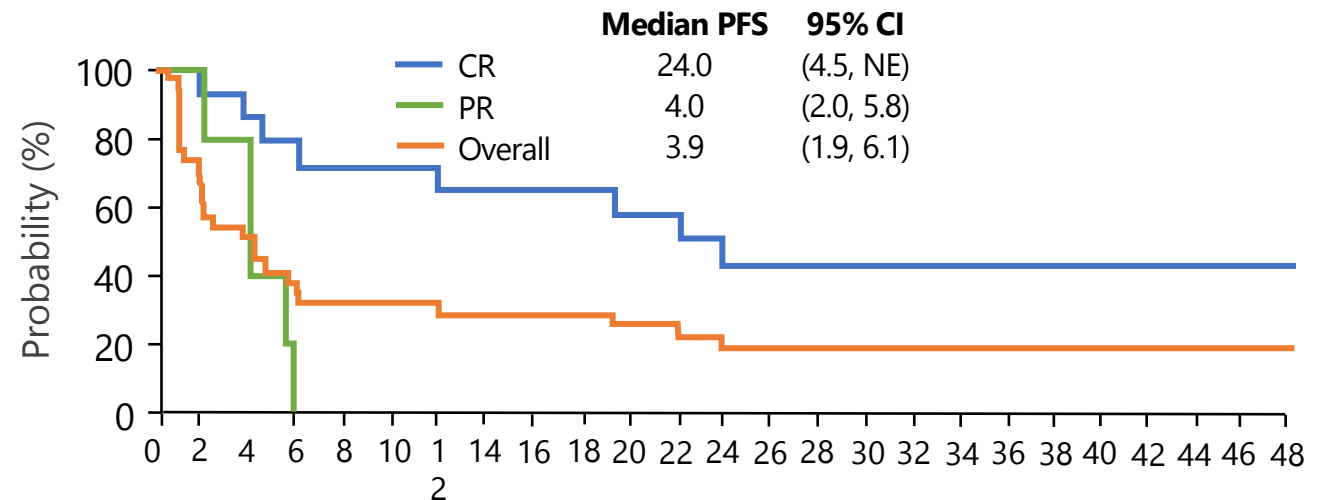
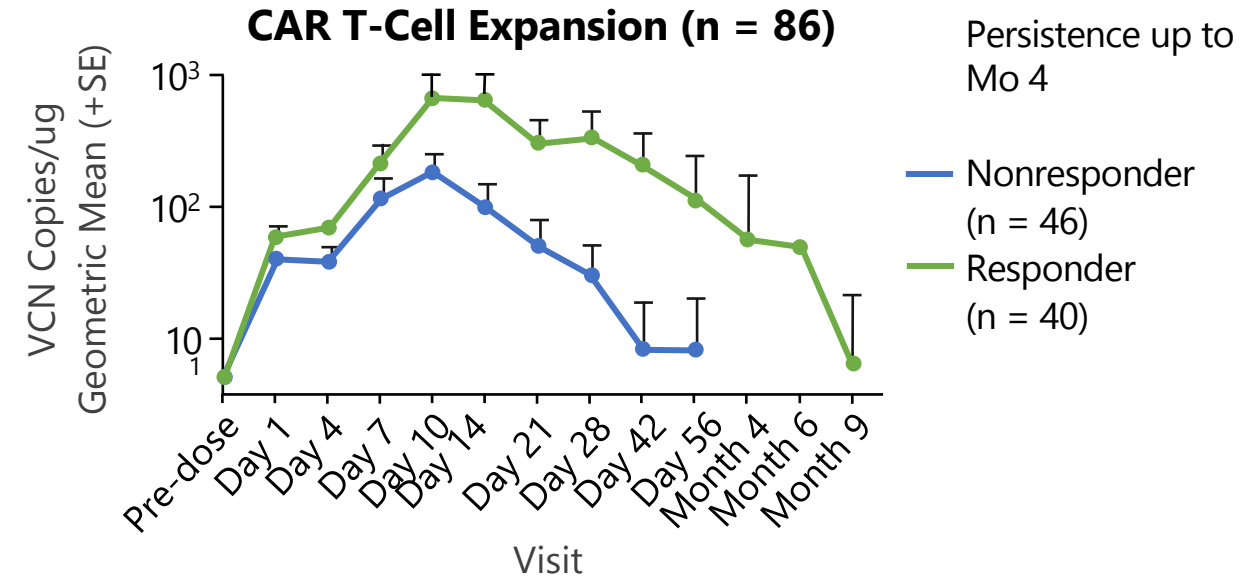
Baseline characteristics	N = 21
Median age, yr (range)	64 (47-74)
DLBCL, %	57
FL, %	29
MCL, %	14
Median prior tx (range)	7 (4-14)
Prior CD28/4-1BB CAR, %	50/50



Cemacabtagene Ansegedleucel

- Allogeneic CD19 CAR T-cell therapy
- Phase I/II trial in patients with R/R LBCL

Outcome, n (%)	All (N = 33)	Phase 2 Dose (n = 12)
ORR	19 (58)	8 (67)
CRR	14 (42)	7 (58)
6 mo CRR	10 (30)	5 (42)
12 mo CRR	8 (24)	4 (33)

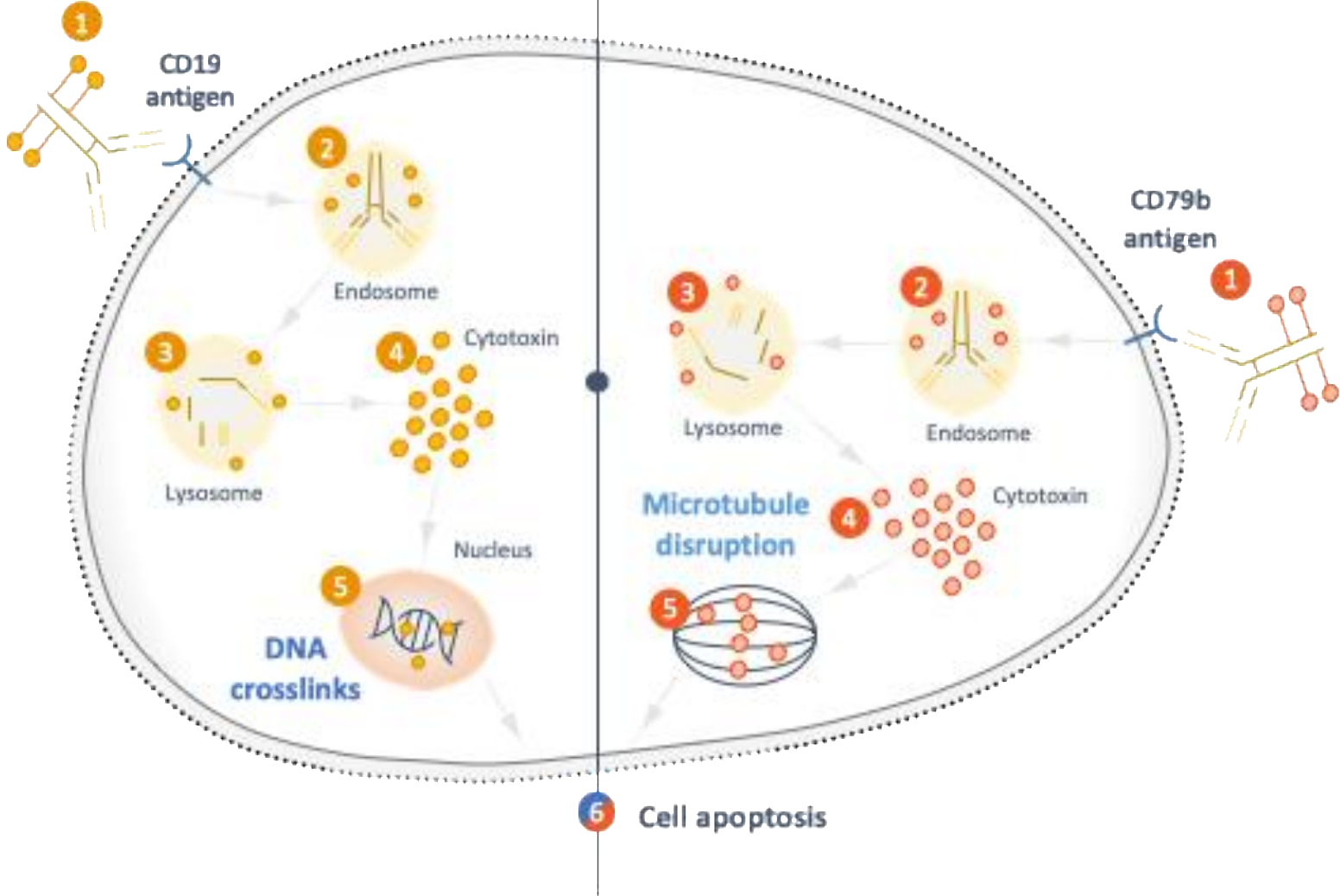
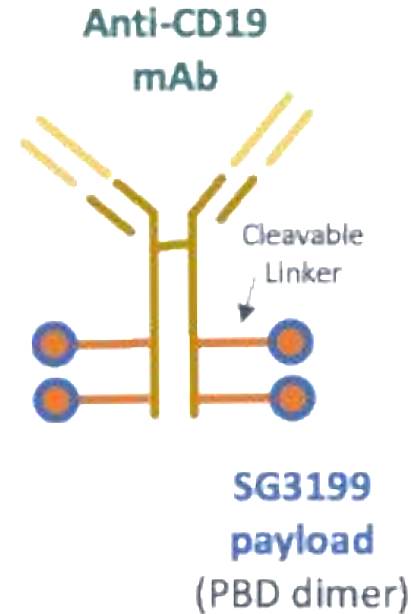


Outline

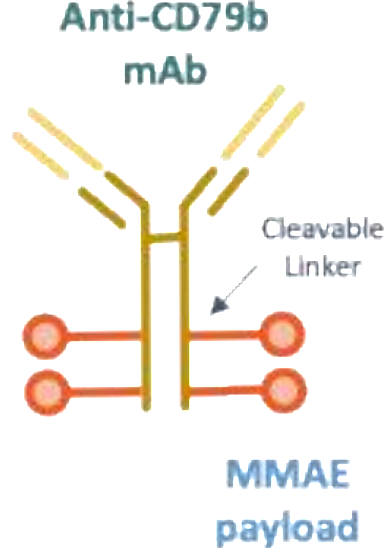
- Current sequencing
- CAR T-cell
- **ADC**
- Bispecific antibodies
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Mechanism of Action of ADC

Loncastuximab tesirine

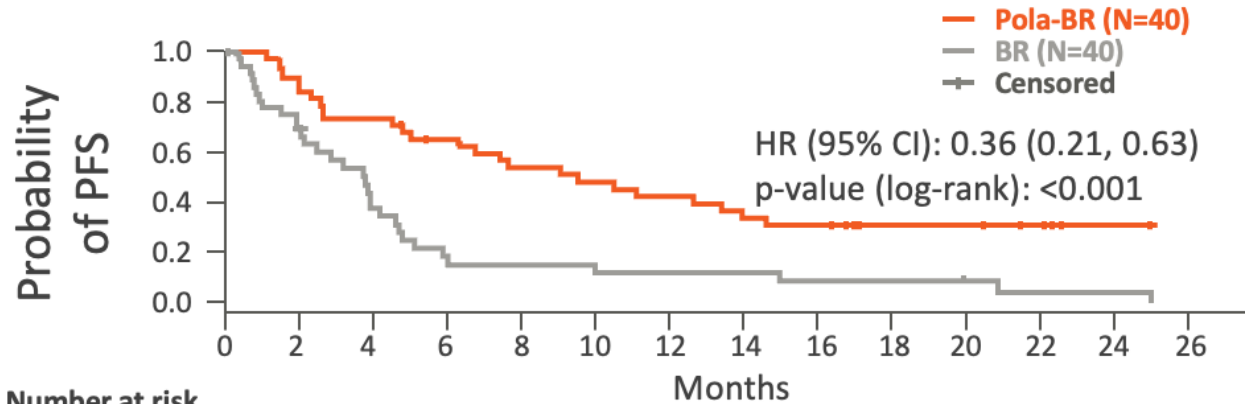


Polatuzumab vedotin



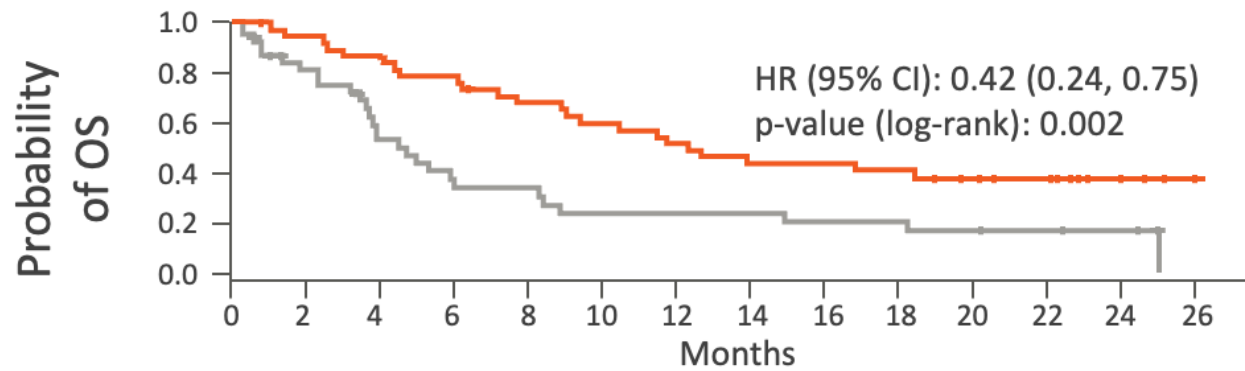
1. Alderuccio et al. Blood Rev 2022
2. Joubert et al. Pharmaceuticals (Basel) 2020.

Polatuzumab vedotin + BR

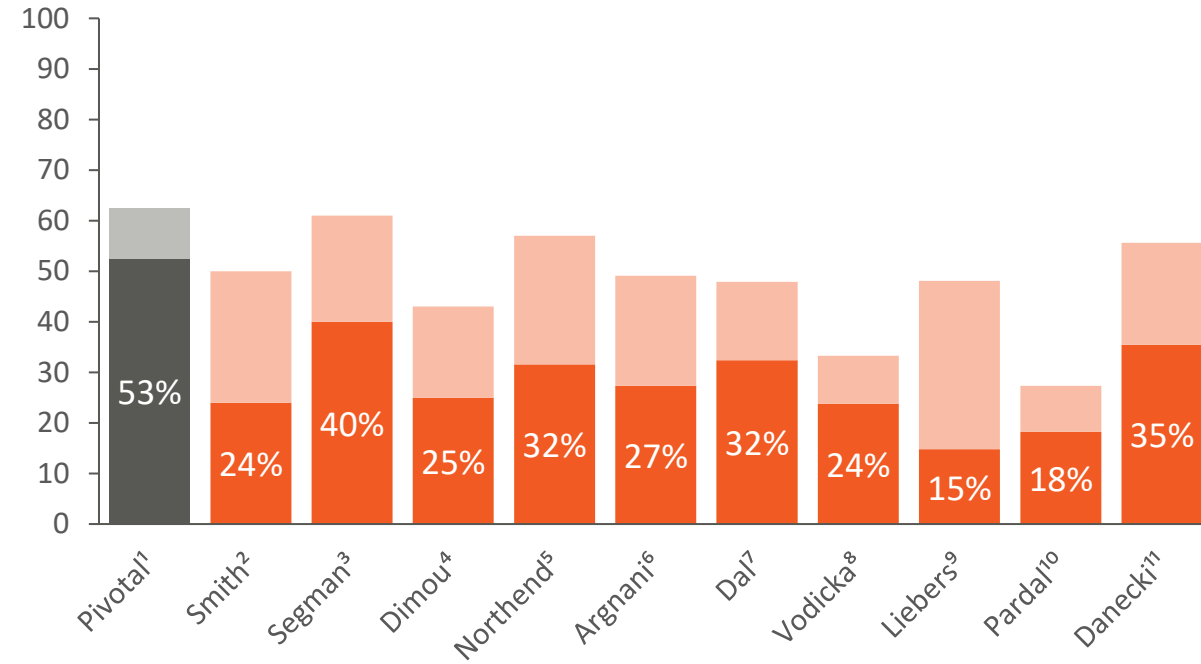


Number at risk

Months	0	2	4	6	8	10	12	14	16	18	20	22	24	26										
Pola-BR (Ph II)	40	38	32	28	28	24	23	21	19	17	16	15	14	12	11	11	8	7	7	7	6	5	1	1
BR (Ph II)	40	28	23	18	12	8	5	5	5	5	4	4	4	4	4	3	3	3	3	3	2	1	1	1

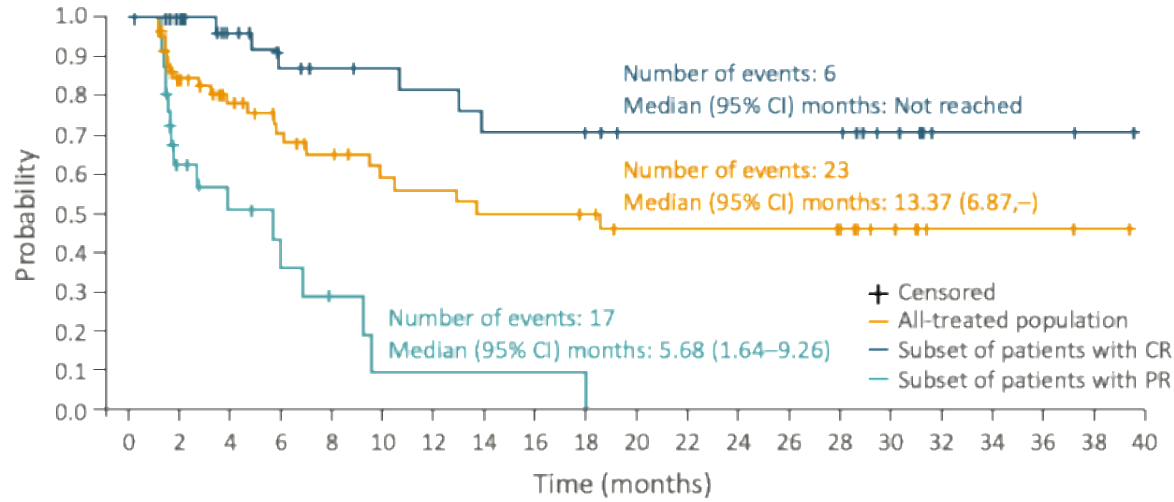
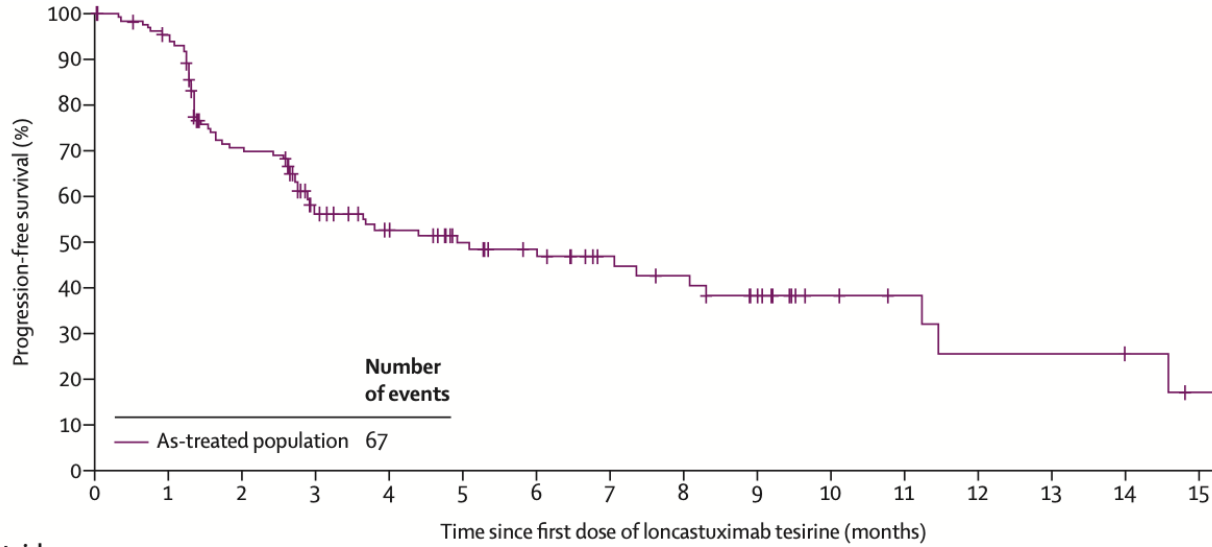


Pola-BR (Ph II)	40	38	36	34	33	30	30	27	25	24	22	21	19	17	16	16	16	15	15	13	12	9	9	5	3	2	1
BR (Ph II)	40	33	27	25	17	15	11	10	10	7	7	7	7	7	7	6	6	6	6	6	5	5	4	4	3	3	1



¹Sehn et al. JCO 2019, Blood Adv 2022, 2. Smith et al. Clin Lymphoma Myeloma Leuk 2021 3. Segman et al. Leuk Lymphoma 2021 4. Dimou et al. Hematol Oncol 2021 5. Northend et al. Blood Adv 2022 6. Argnani et al. Hemasphere 2022 7. Dal et al. Ann Hematol 2023 8. Vodicka et al. Eur J Haematol 2022 9. Liebers et al. Blood Adv 2021 10. Pardal et al. EHA 2024; Abstract #PB3006 11. Danecki et al. EHA 2024; Abstract #P1182.

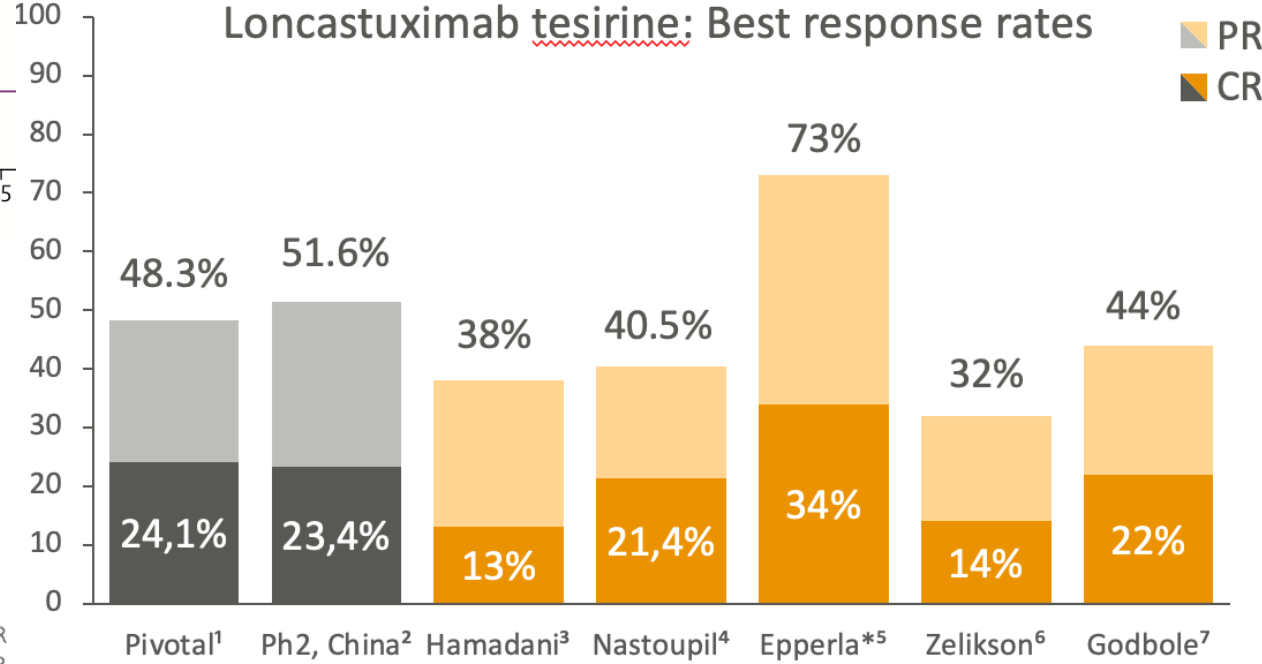
Loncastuximab tesirine



Patients at risk

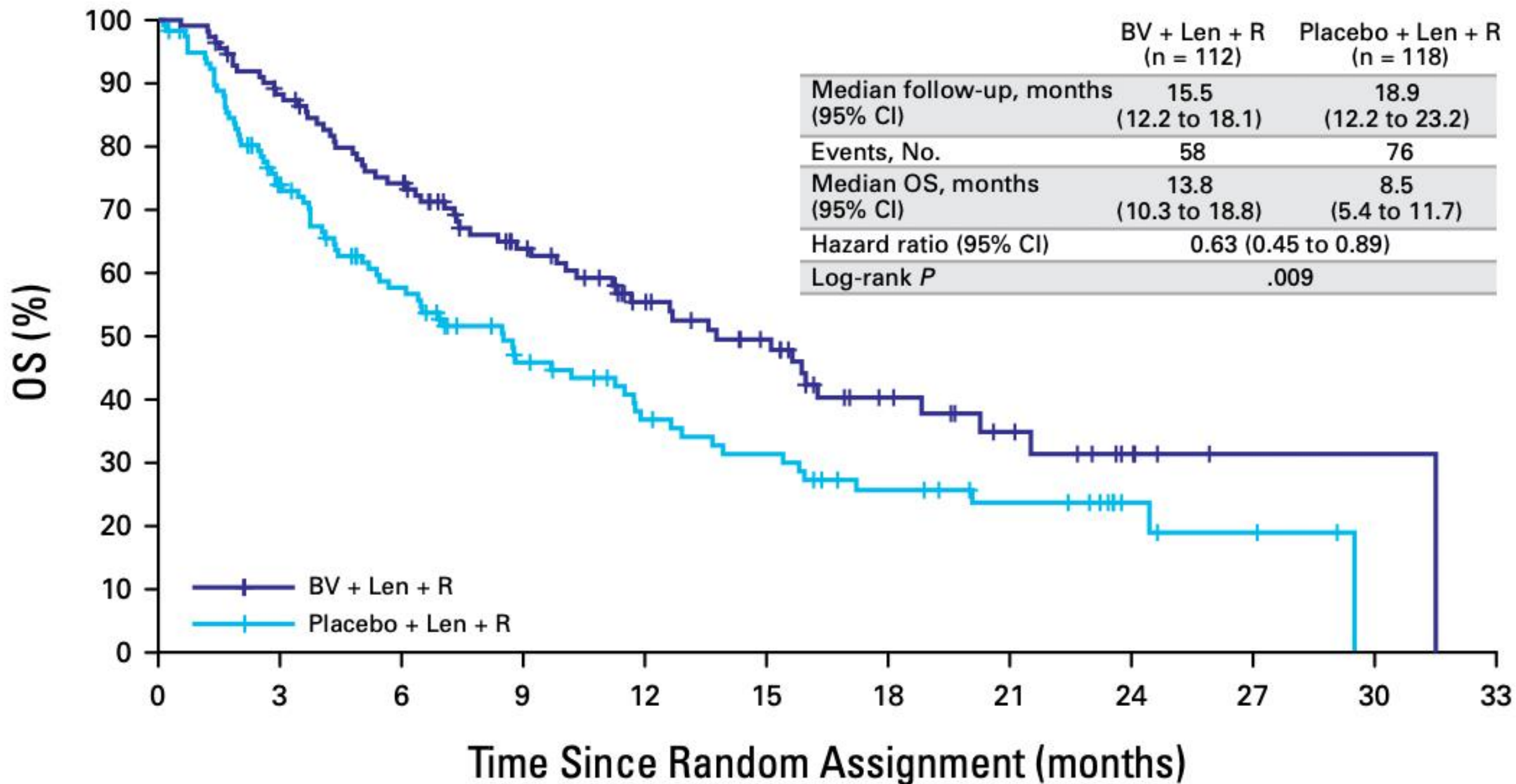
All-treated population	70	63	42	38	33	29	25	22	21	20	18	17	17	16	15	15	15	15	13	11	11	11	11	11	11	11	11	11	7	6	5	2	2	2	2	2	2	1	1	0	
Subset of patients with CR	36	35	30	29	25	22	20	18	18	17	17	16	16	15	14	14	14	14	12	11	11	11	11	11	11	11	11	11	7	6	5	2	2	2	2	2	2	1	1	0	
Subset of patients with PR	34	28	12	9	8	7	5	4	3	3	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Loncastuximab tesirine: Best response rates



1. Caimi et al. *Lancet Oncol* 2021 2. Lin et al. *Haematologica* 2025 3. Hamadani et al. *eJHaem* 2024 4. Nastoupil et al. *Clin Lymphoma Myeloma Leuk* 2024 5. Epperla et al. *Blood Cancer J* 2024 6. Zelikson et al. *Haematologica* 2025 7. Godbole et al. *Blood* 2024.

ECHELON-3: Brentuximab vedotin + R² in R/R LBCL



Outline

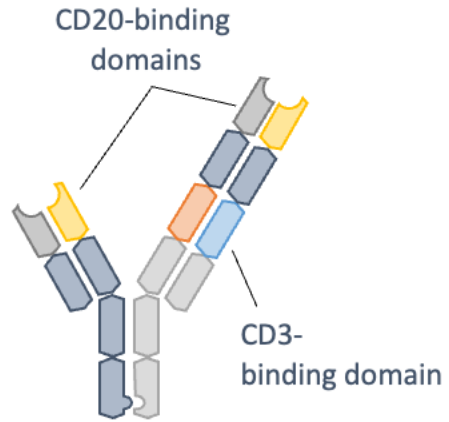
- Current sequencing
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Mechanism of Action of Bispecific Antibodies

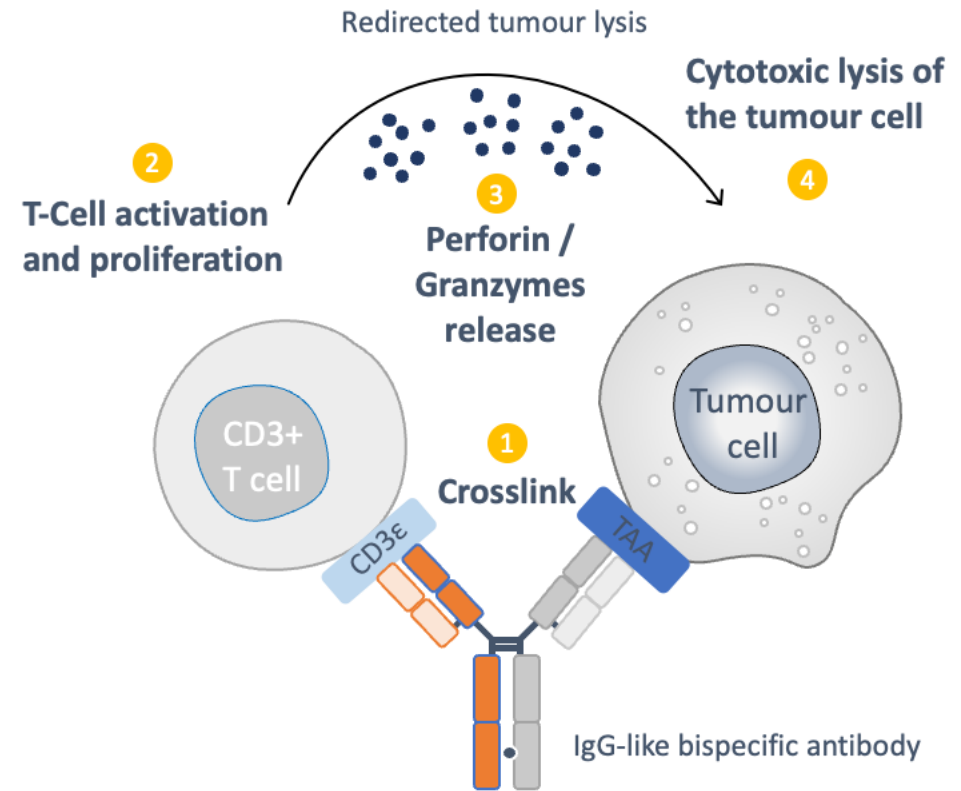
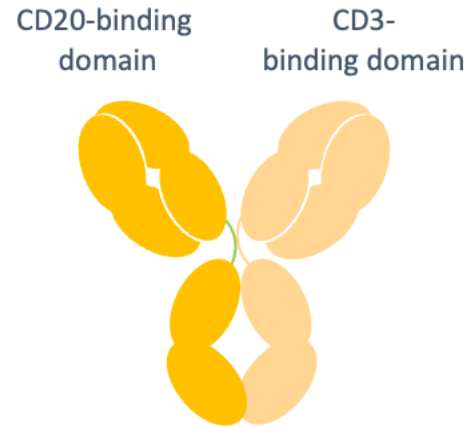
Fully humanised mouse IgG1-based bispecific antibodies which target CD20 and CD3¹⁻³

CD3 bispecific T-cell redirection mechanism of action in cancer immunotherapy^{4,5}

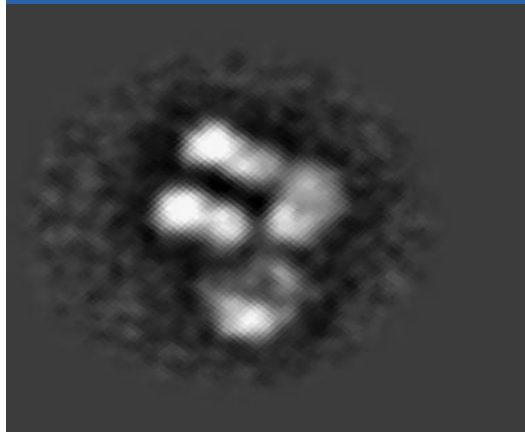
Glofitamab^{1,2}



Epcoritamab³



Fab range of motion in TCB

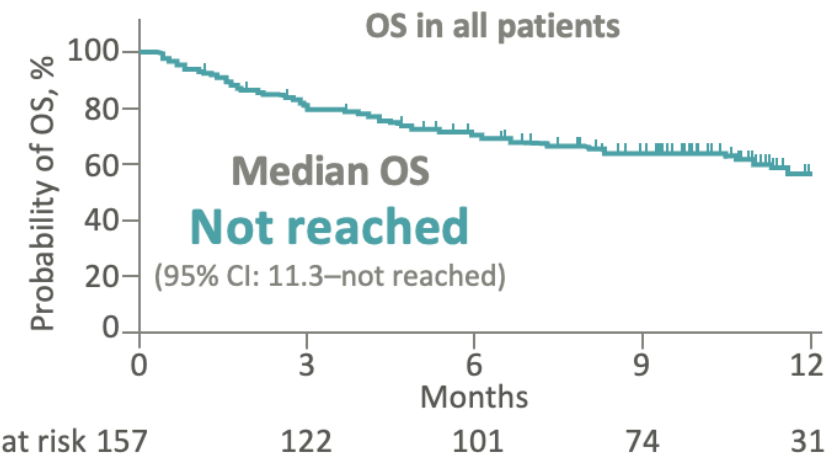
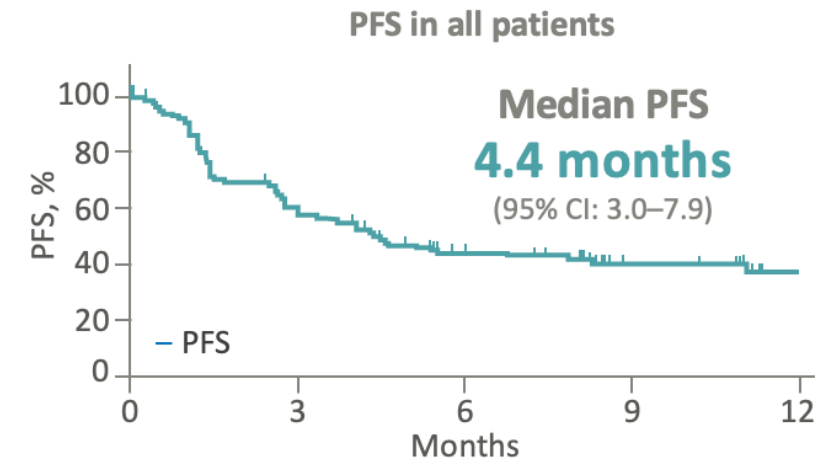
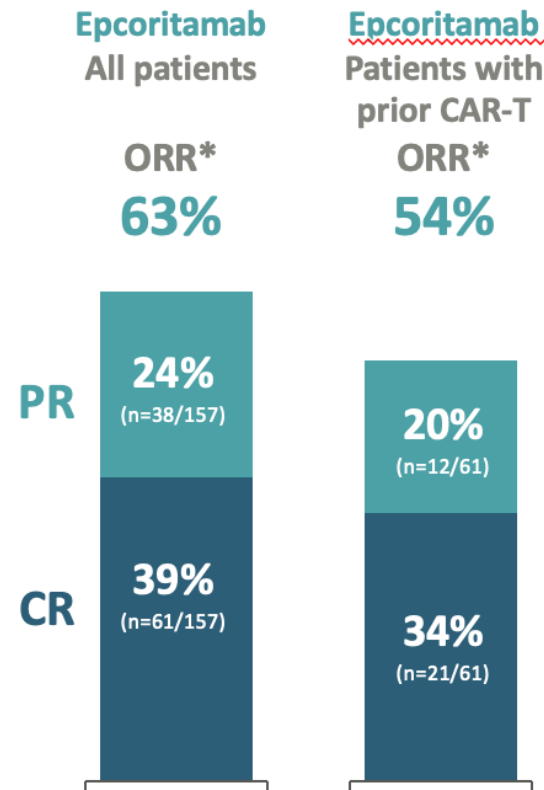


6

1. Lussanna et al. *J Clin Oncol* 2021 2. Columvi SmPC December 2024 3. Engelberts et al. *EBioMedicine* 2020 4. Zhou et al. *Biomarker Res* 2021 5. Singh et al. *Br J Cancer* 2021. 6. Courtesy by Pablo Umara

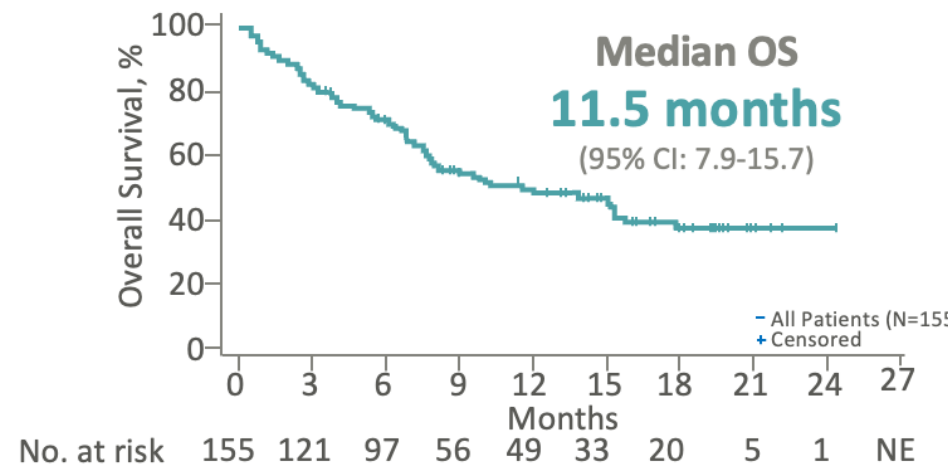
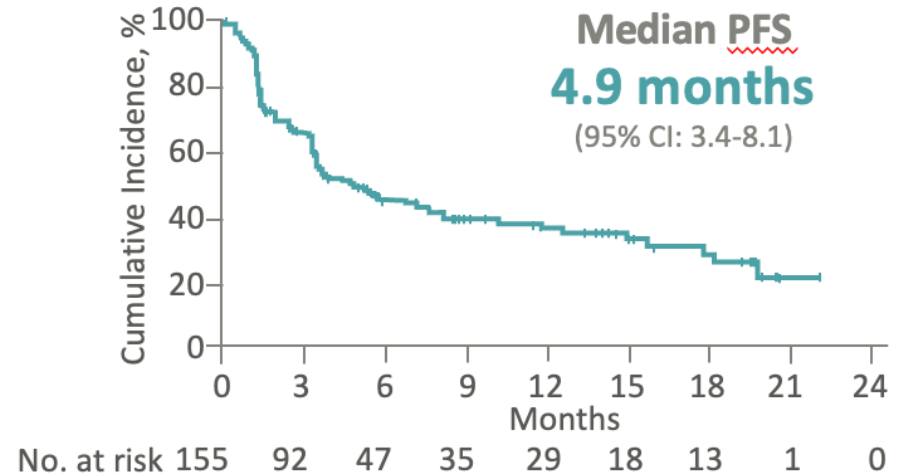
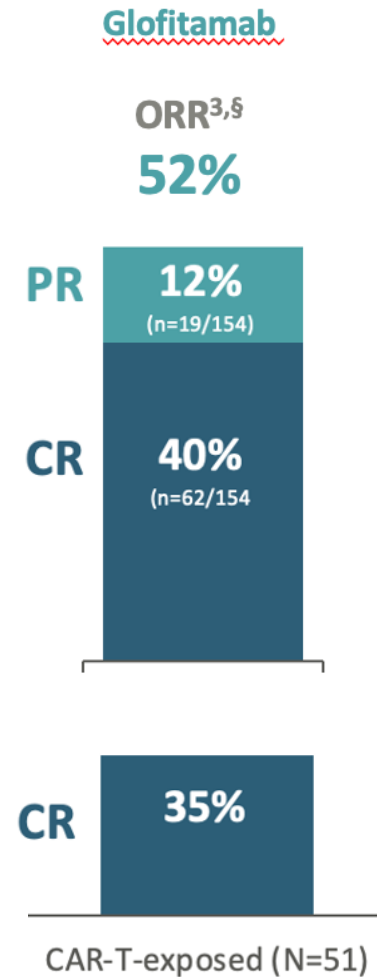
Epcoritamab in 3rd line + (EPCORE NHL-1 (Phase 2))

Baseline characteristics, n (%)	All patients (N=157)
Median (range) age, years	64 (20–83)
Male, sex	94 (60)
ECOG performance status 0/1	74 (47) / 78 (50)
Ann Arbor Stage III/IV [†]	21 (13) / 97 (62)
Nr. of previous lines (median, range)	3 (2–11)
Nr. of previous lines	
2 previous lines	46 (29)
3 previous lines	50 (32)
≥4 previous lines	61 (39)
Prior ASCT	31 (20)
Prior CAR T-cell therapy	61 (39)
Refractory to last prior therapy	130 (83)
Primary refractory	96 (61)
Refractory to CAR T-cell therapy, No./n (%)	46/61 (75)
DLBCL histology	139 (88.5)



Glofitamab in 3rd line + (NP30179-Phase 1/2)

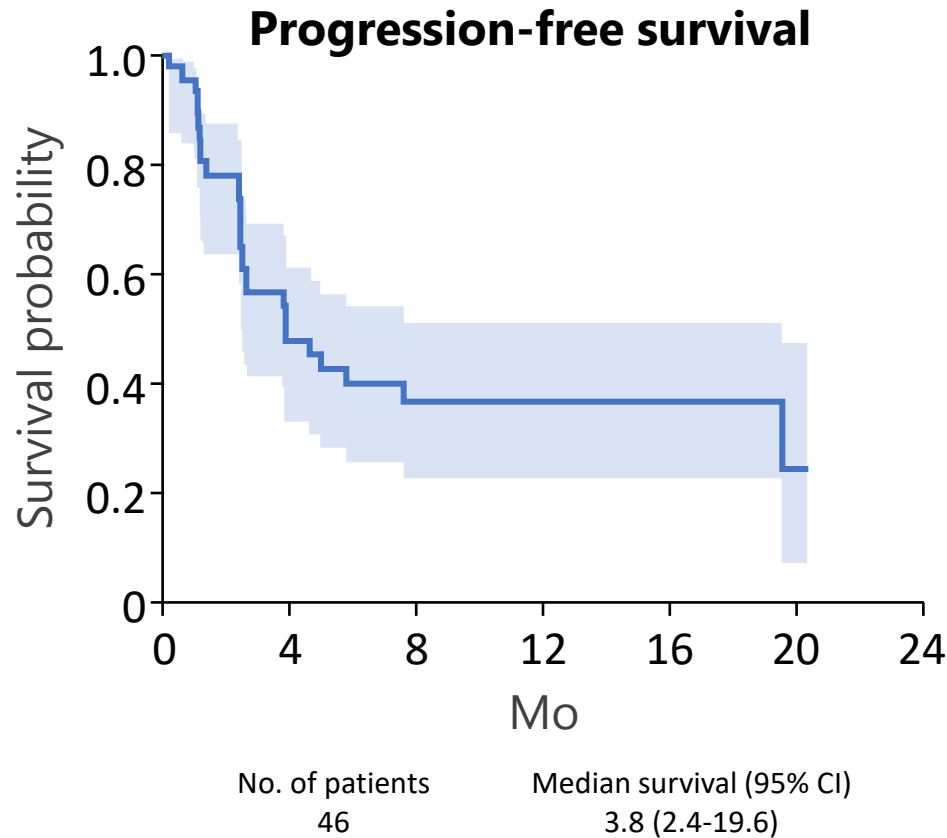
Baseline characteristics, n (%)	All patients (N=154)
Median (range) age, years	66 (21–90)
Male, sex	100 (65)
ECOG performance status 0/1	69 (45) / 84 (55)
Ann Arbor Stage III/IV [†]	31 (20) / 85 (55)
Bulky disease	
>6 cm	64 (42)
>10 cm	18 (12)
Nr. of previous lines (median, range)	
Nr. of previous lines	
Only 2 previous lines	62 (40)
≥3 previous lines	92 (60)
Prior ASCT	28 (18)
Refractory to last prior therapy	132 (86)
Primary refractory[‡]	90 (58)
DLBCL histology	110 (71)



Glofitamab Following CAR T-Cell Therapy Failure in DLBCL

- LYSA: phase II study of glofitamab for patients with R/R DLBCL that had progressed/relapsed starting 1 mo after CAR-T cell therapy

Baseline Characteristics	N = 46
Mean age, yr	60
Elevated LDH, %	78%
Median prior tx (range)	3 (2-5)
Prior SCT, %	17
Refractory to last tx, %	33
Median time from CAR, mo (range)	4 (1-16)

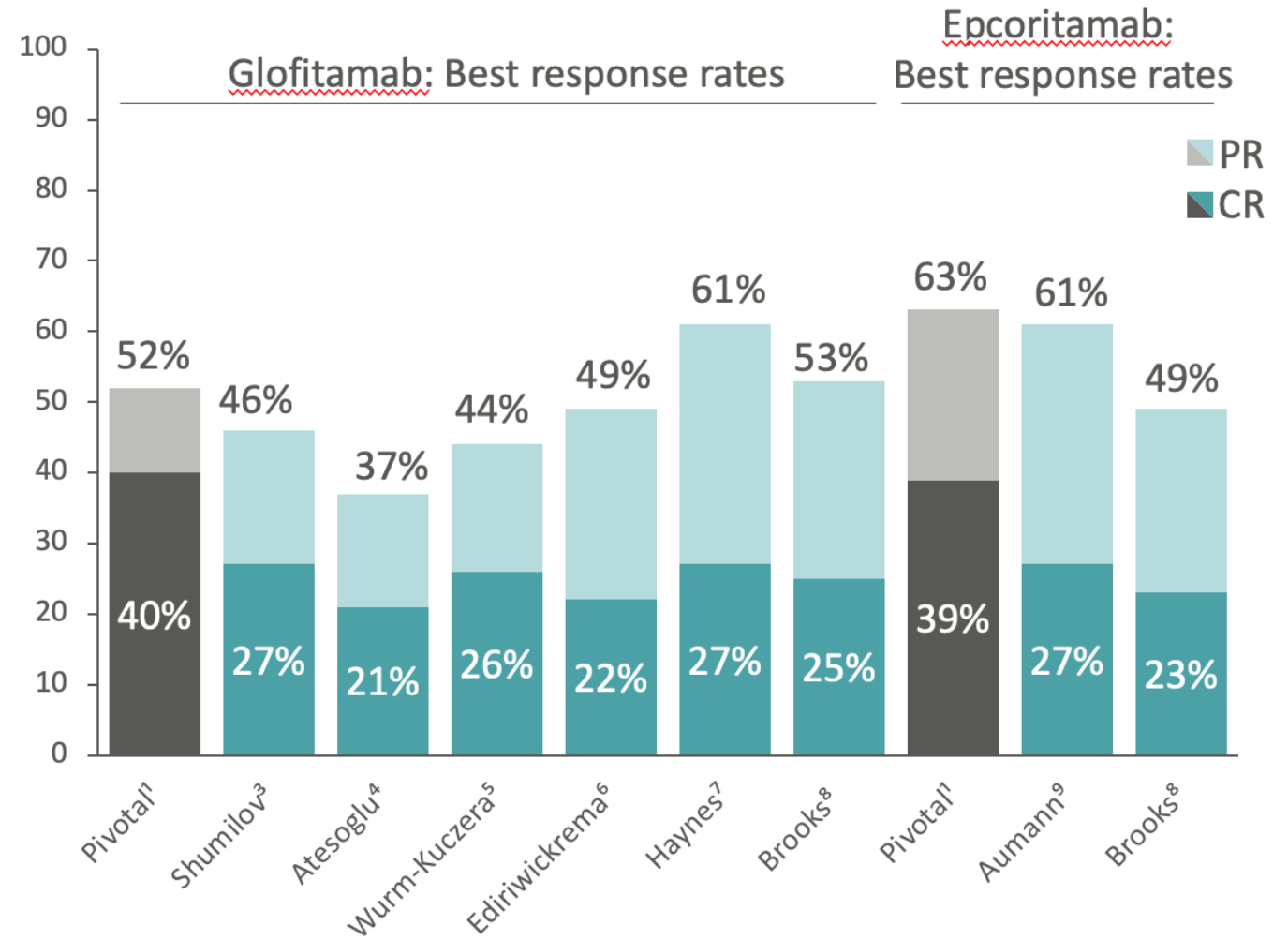


Best Response	
ORR, %	76
CRR, %	46
Median DOR, mo	20
Median DoCR, mo	NE

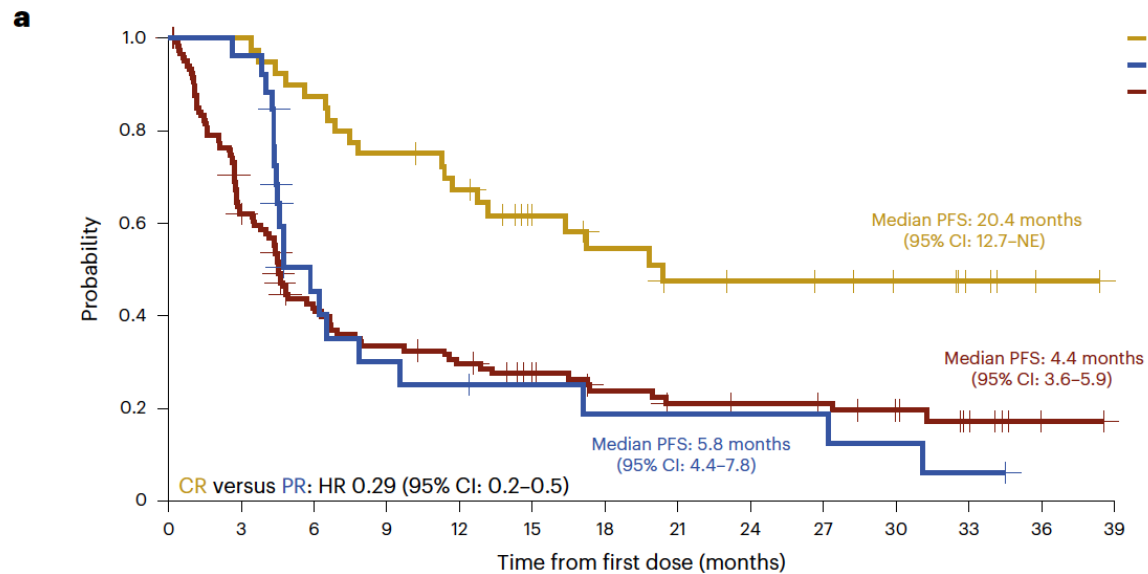
AESI	
CRS (gr 2), %	9
ICANS (gr 2), %	2
Tumor flare (gr 2), %	9

Bispecific Antibodies in the RW

	Pivotal studies ^{1,2}	RWE ³⁻⁹
Age range, years	20-90	19-94
COG PS ≥2, %	0-3	9-40
Age of prior LoT, n	2-≥4	1-14
Refractory to last therapy, %	83-86	54-84
Prior CAR-T, %	33-39	60-71
oPFS, months	4.4-4.9	3.0-10.8
oOS, months	11.5-Not reached	5.7-Not reached

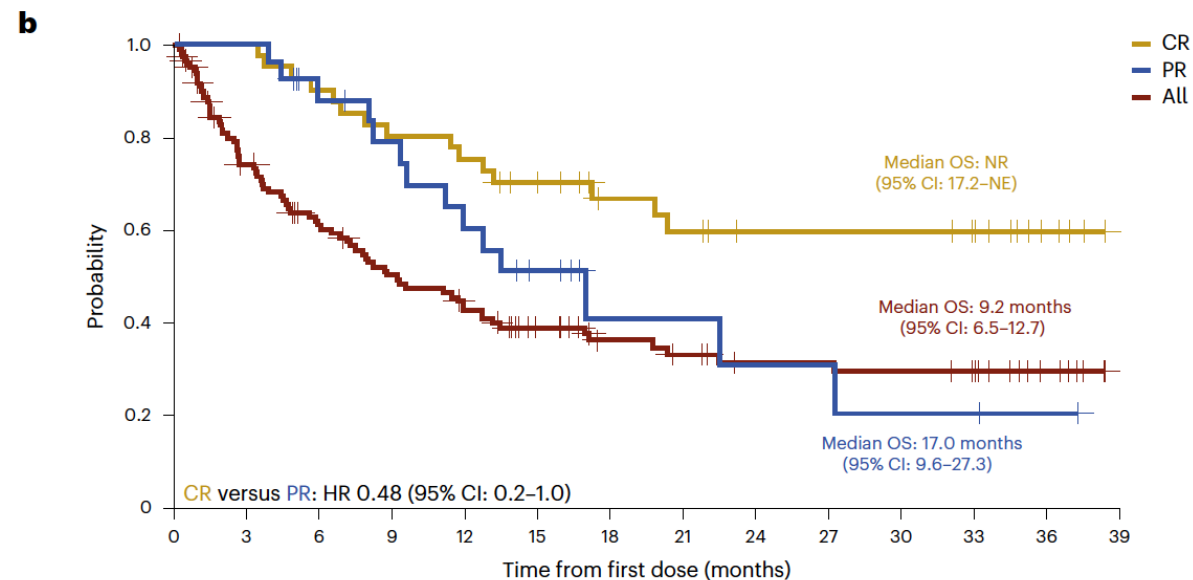


Odronextamab in 3+ line



No. at risk:

CR	40	40	35	30	26	18	15	12	11	10	8	4	1	0
PR	26	25	9	6	5	4	3	3	3	3	2	1	0	0
All	127	72	44	36	31	22	18	15	14	13	10	5	1	0



No. at risk:

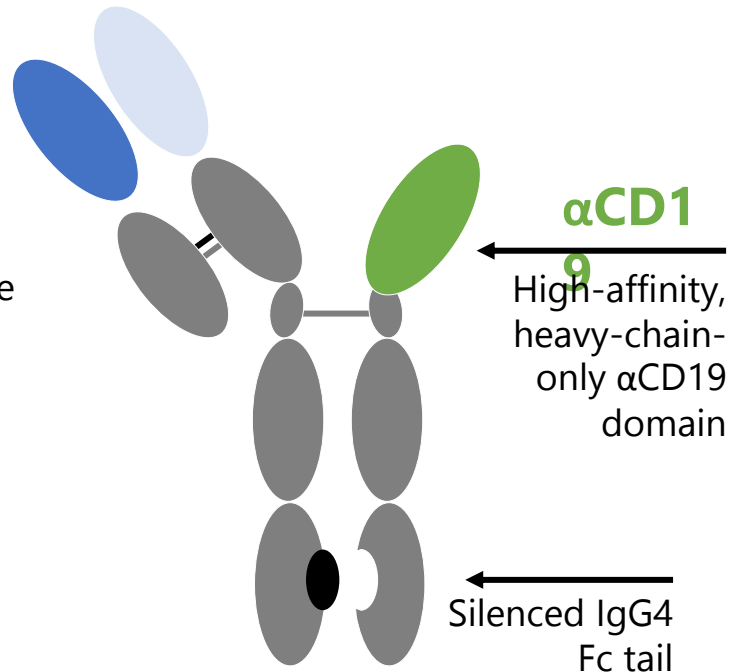
CR	40	40	36	32	30	25	19	17	14	14	14	12	5	0
PR	26	26	20	17	13	9	4	4	3	3	2	2	1	0
All	127	87	68	55	46	35	24	21	17	17	16	14	6	0

Surovatamig (AZD0486): Novel CD19 x CD3 Bispecific Antibody

Surovatamig (AZD0486)

Activating α CD3

Unique low-affinity α CD3 binding site reduces cytokine release

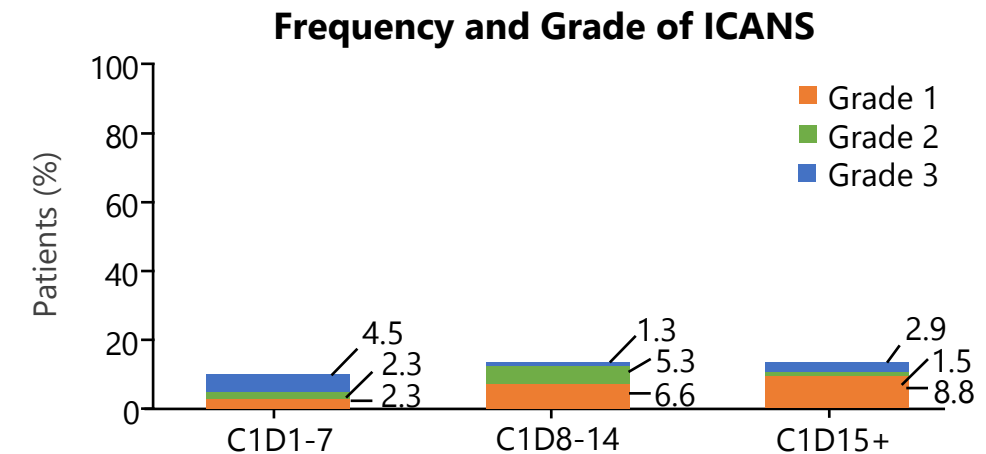
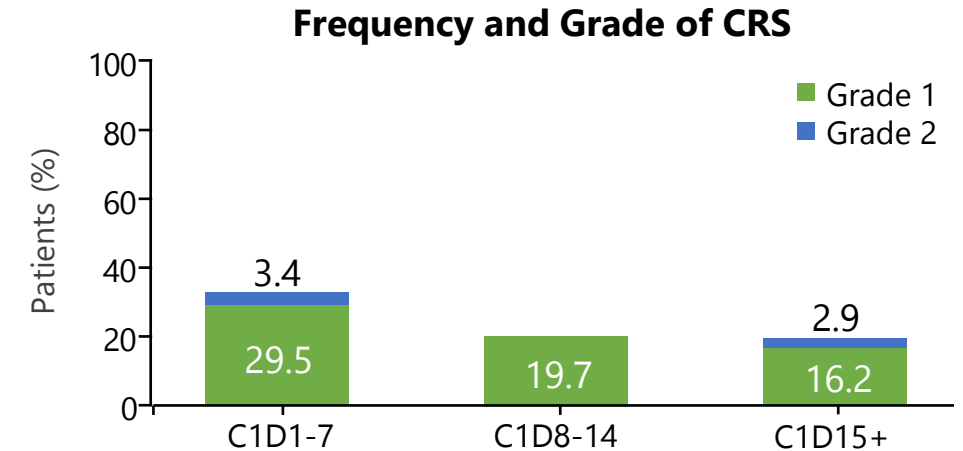
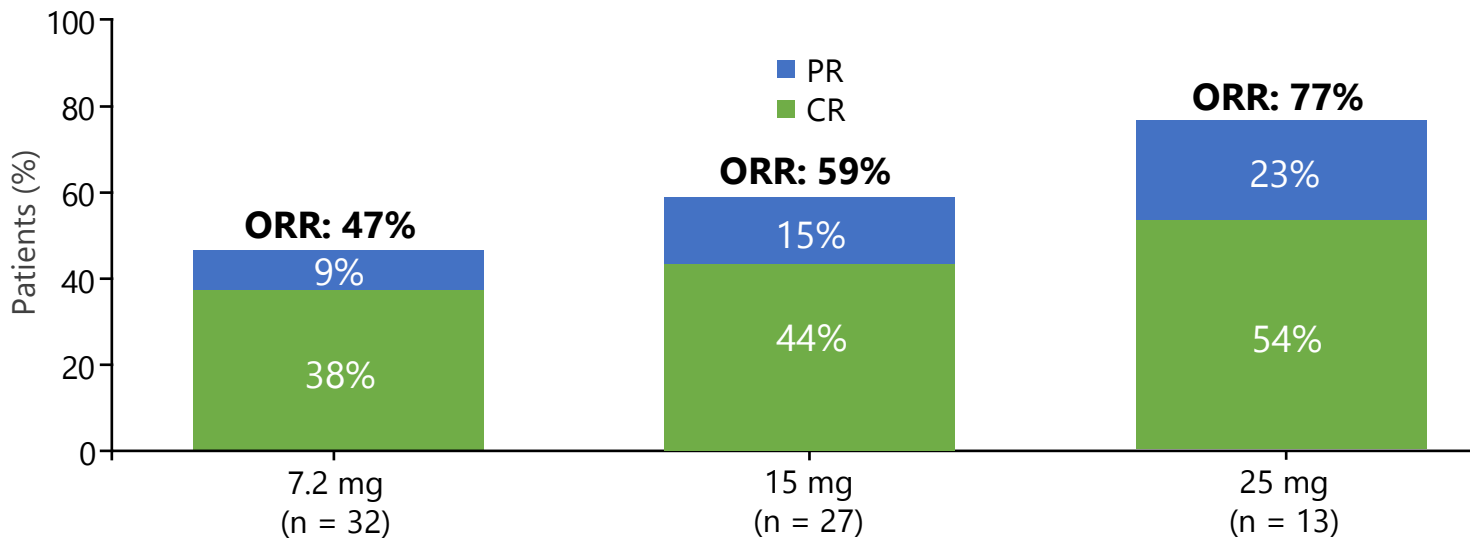


- Fully human CD3 x CD19 IgG4 bispecific T-cell engager
- Key design features:
 - Low-affinity α CD3 reduces cytokine release
 - Silenced Fc tail prolongs half-life and prevents nonspecific binding/ ADCC

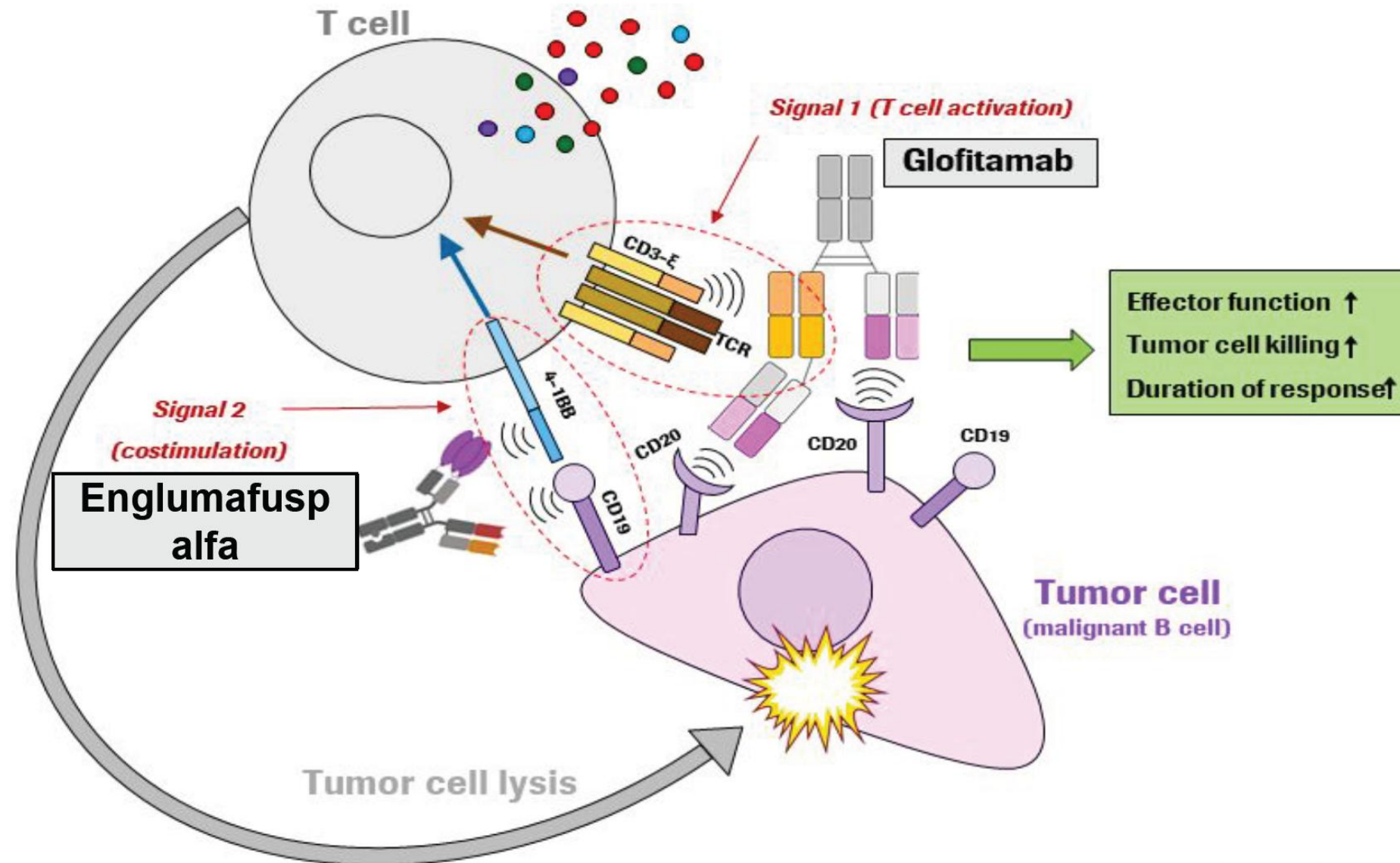
Surovatamig for R/R DLBCL

- Phase I study of surovatamig for R/R CD19+ B-NHL that was R/R to ≥ 2 prior lines of therapy (N = 106)

Baseline Characteristics	N = 106
Median age, yr (range)	68 (22-94)
Median prior tx (range)	3 (2-13)
Prior CAR T-cell tx, %	42
Refractory to last line of therapy, %	75



Englumafusp alfa mechanism of action



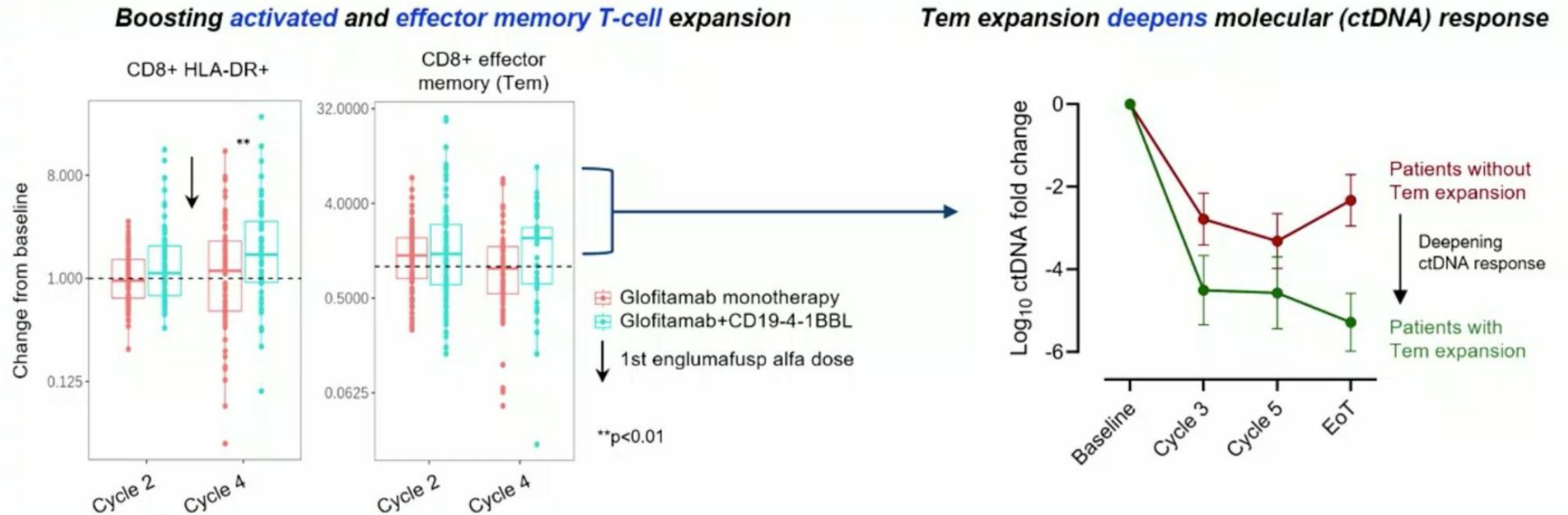
Englumafusp alfa

Response rates across all dosing levels in evaluable patients with 2L+ R/R aNHL

n (%)	n	BOR	CR
R/R aNHL			
2L+	83	56 (67.0)	47 (57.0)
3L+	70	46 (65.7)	37 (52.8)
R/R aNHL with prior CAR-T	42	26 (61.9)	20 (47.6)
R/R aNHL without prior CAR-T			
2L+	41	30 (73.2)	27 (66.0)
3L+	28	20 (71.4)	17 (60.7)
2L	13	10 (77.0)	10 (77.0)
R/R aNHL with <i>TP53</i> mutation	22	17 (77.0)	15 (68.0)

Englumafusp alfa boosts memory formation that leads to deeper molecular response

Englumafusp alfa boosts effector memory expansion and deepening of ctDNA response



Significantly greater expansion of activated and effector memory T cells in combination setting vs monotherapy
Effector memory boost is more pronounced in CMR patients and associated with deep ctDNA response at EoT

Outline

- Current sequencing
- CAR T-cell
- ADC
- Bispecific antibodies
- **Combinations**
- Other options and challenges

STARGLO: Study design (GO41944; NCT04408638)

Phase 3, open-label, randomised trial

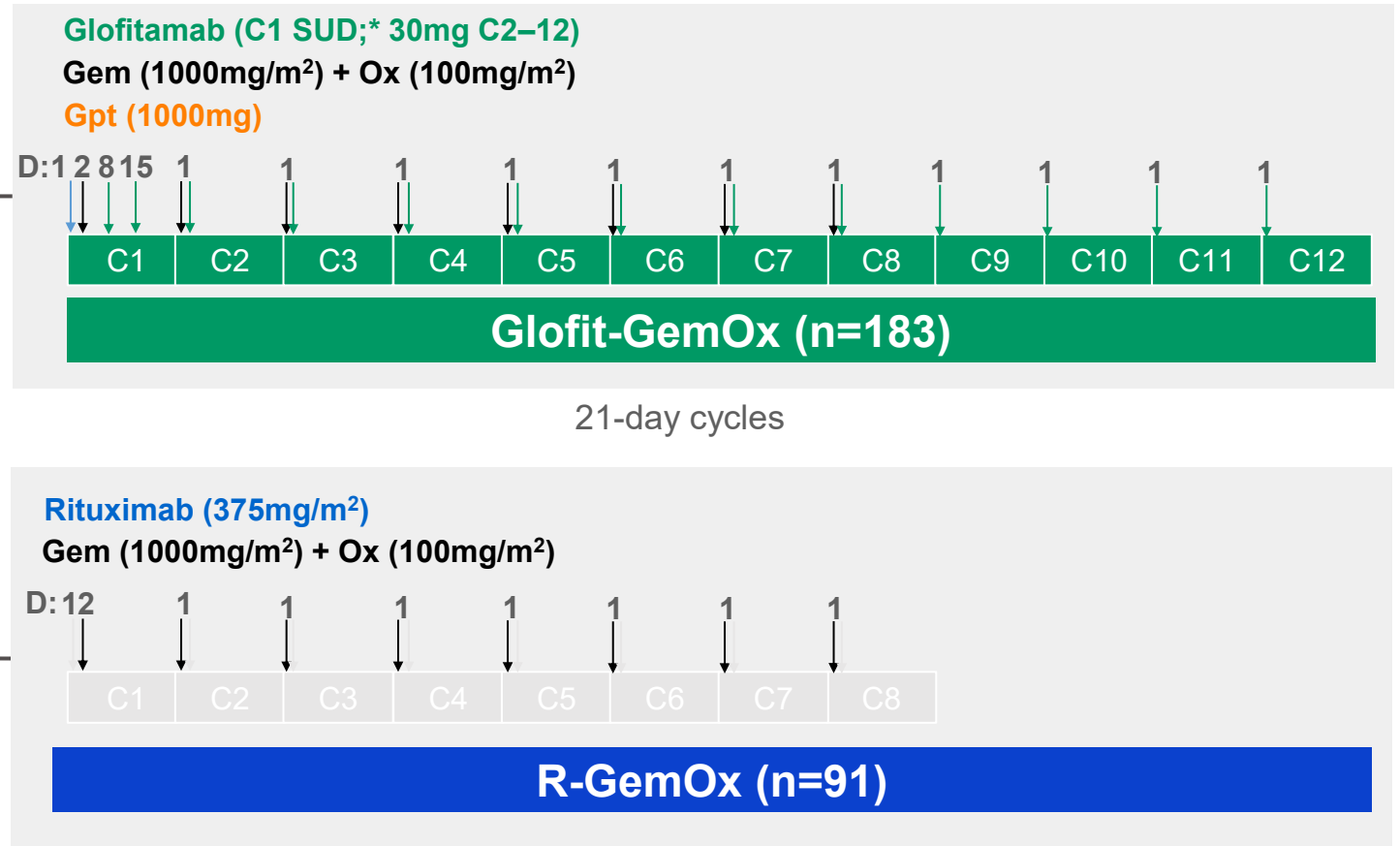
Patients with R/R DLBCL (N=274)

- 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

R 2:1

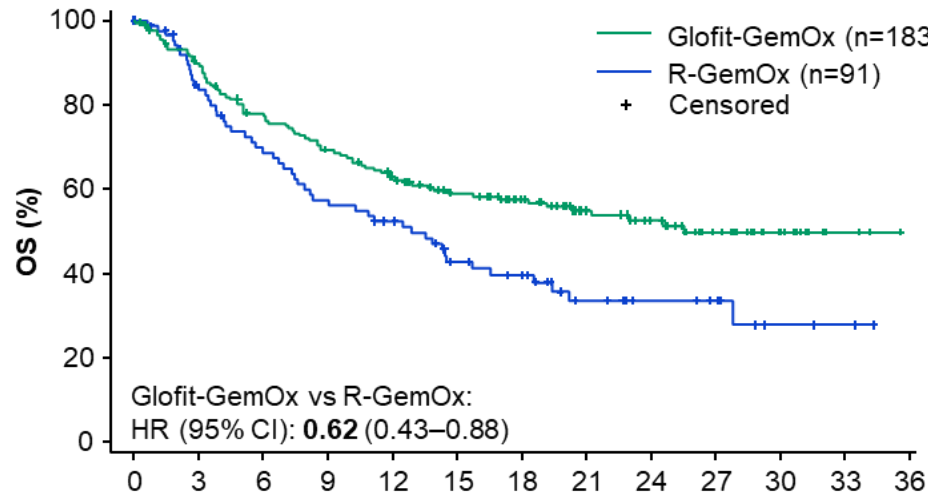


*Glofit 2.5mg on D8 and 10mg on D15. [†]Relapsed disease: recurrence following a response that lasted ≥ 6 months after completion of the last line of therapy; refractory disease: disease that did not respond to, or that progressed < 6 months after, completion of the last line of therapy. C, cycle; D, day; ECOG PS, Eastern Cooperative Oncology Group performance status; DLBCL, diffuse large B-cell lymphoma; Gem-Ox, gemcitabine and oxaliplatin; Glofit, glofitamab; Gpt, obinutuzumab pretreatment; NOS, not otherwise specified; R 2:1, patients randomised in a 2:1 ratio; R, rituximab.

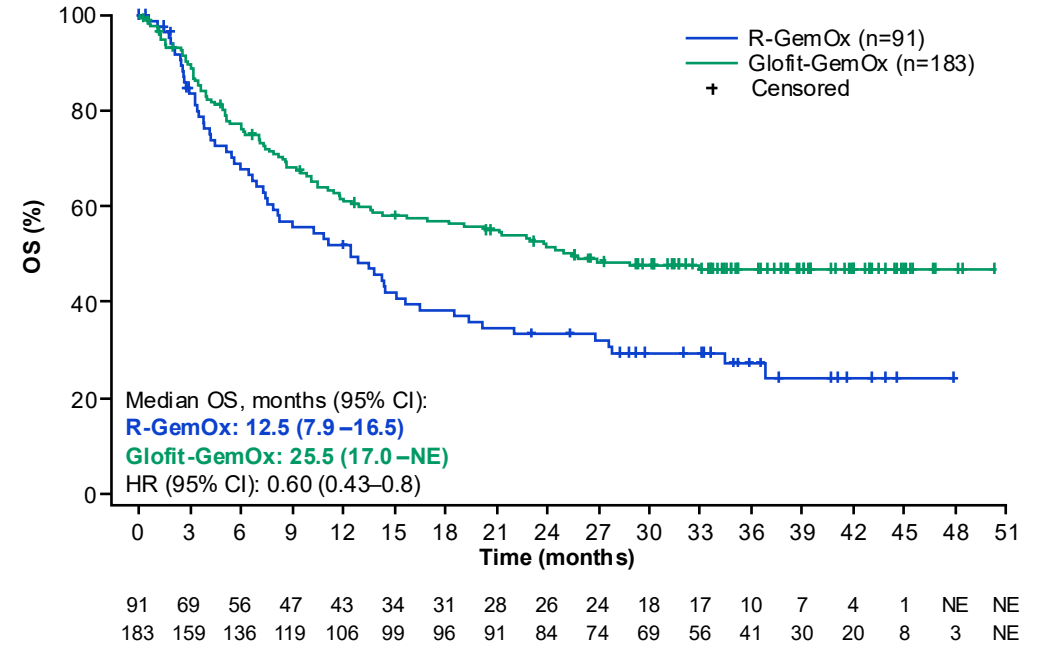
STARGLO: Primary endpoint: Overall survival

Extended follow-up analysis

Updated analysis



No. of patients at risk	Time (months)												
	0	3	6	9	12	15	18	21	24	27	30	33	36
Glofit-GemOx	183	159	135	119	104	86	71	51	40	26	11	3	0
R-GemOx	91	68	55	46	40	29	23	14	10	8	3	2	0



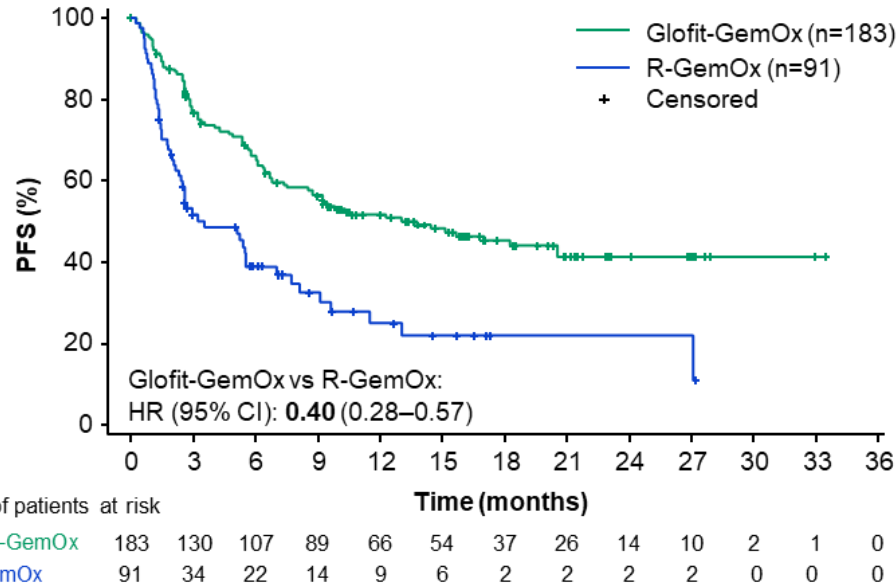
No. of patients at risk	Time (months)																		
	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	
R-GemOx	91	69	56	47	43	34	31	28	26	24	18	17	10	7	4	1	NE	NE	
Glofit-GemOx	183	159	136	119	106	99	96	91	84	74	69	56	41	30	20	8	3	NE	

	R-GemOx (n=91)	Glofit-GemOx (n=183)
Updated analysis (median follow-up: 20.7 months)		
OS, median (95% CI); months	12.9 (7.9–18.5)	25.5 (18.3–NE)
HR (95% CI)	0.62 (0.43–0.88)	
p-value*	0.006	
24-month OS (95% CI)	33.5% (22.2–44.9)	52.8% (44.8–60.7)

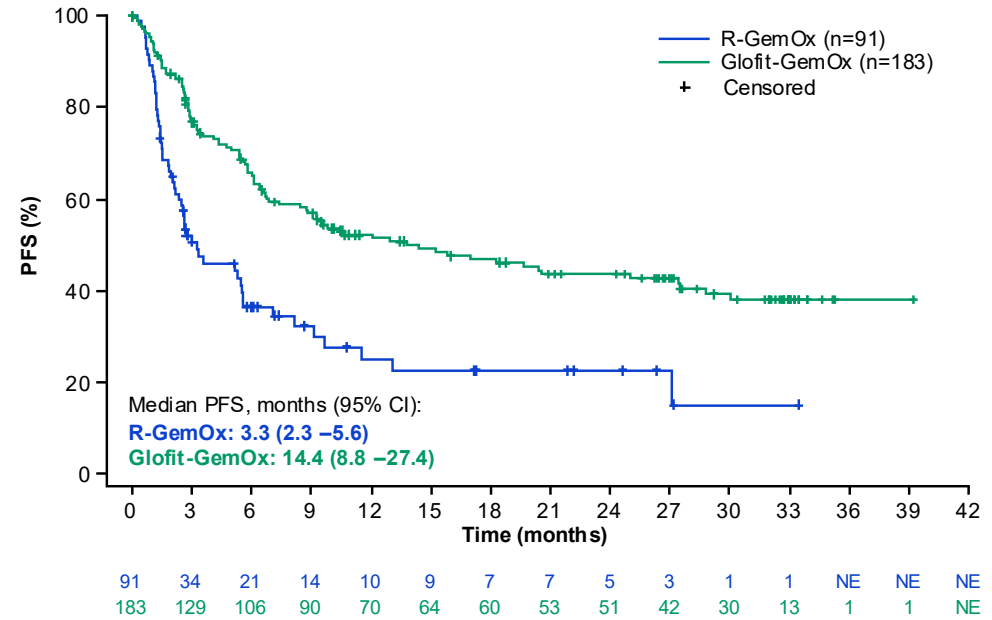
Outcome	R-GemOx (n=91)	Glofit-GemOx (n=183)
3-year follow-up analysis (median follow-up: 35.1 months [95% CI: 33.6–37.6])		
OS, median (95% CI); months	12.5 (7.9–16.5)	25.5 (17.0–NE)
36-month OS, % (95% CI)	27.4 (17.3–37.5)	47.1 (39.5–54.6)

Progression-free survival by IRC assessment

Updated analysis



Extended follow-up analysis

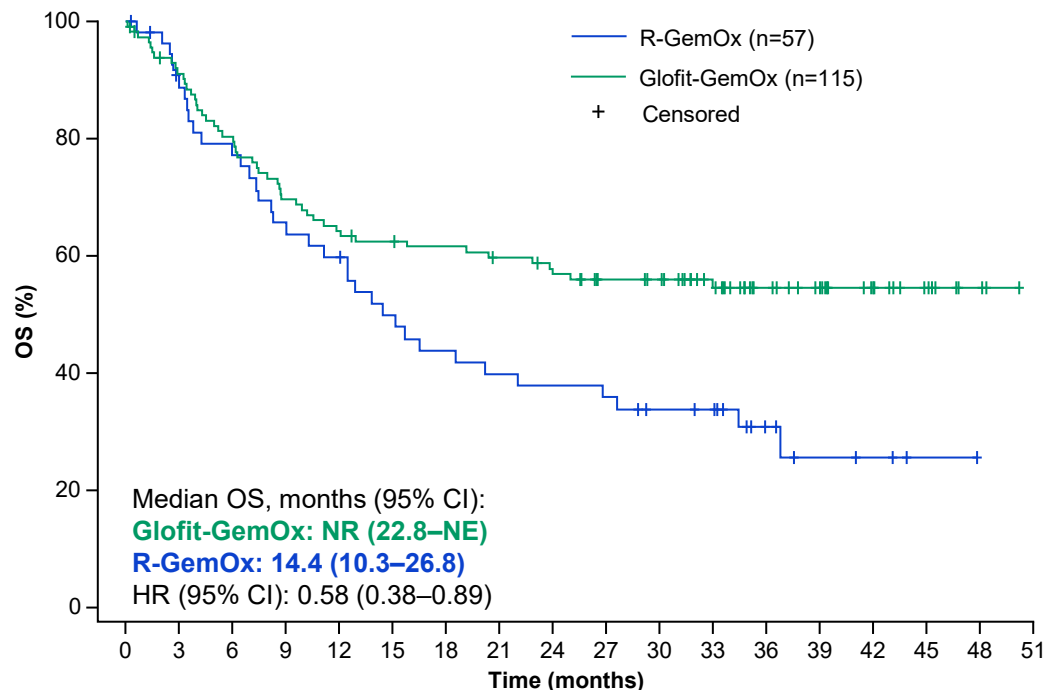


	R-GemOx (n=91)	Glofit-GemOx (n=183)
Updated analysis (median follow-up: 16.1 months)		
PFS, median (95% CI); months	3.6 (2.5–7.1)	13.8 (8.7–20.5)
HR (95% CI)	0.40 (0.28–0.57)	
p-value*†	<0.0001	
12-month PFS, % (95% CI)	25.2 (13.6–36.9)	51.7 (44.0–59.4)

Outcome	R-GemOx (n=91)	Glofit-GemOx (n=183)
PFS, median (95% CI); months	3.3 (2.3–5.6)	14.4 (8.8–27.4)
30-month PFS, % (95% CI)	15.2 (0.9–29.5)	38.1 (29.8–46.3)

STARGLO: OS by line of therapy – 2L sub-group analysis

Overall survival in 2L patients¹



No. of patients at risk

Glofit-GemOx 115 102 90 78 72 69 67 64 60 54 52 40 27 21 14 8 3 NE

R-GemOx 57 46 40 34 31 25 22 20 19 18 15 14 7 4 3 1 NE NE

Outcome ²	R-GemOx 2L (n=57)	Glofit-GemOx 2L (n=115)	R-GemOx 3L+ (n=34)	Glofit-GemOx 3L+ (n=68)
Median follow-up: 35.1 months (95% CI: 33.6–37.6)				
OS, median (95% CI); months	14.4 (10.3–26.8)	NR (22.8–NE)	6.7 (4.2–14.3)	17.0 (10.7–25.8)
36-month OS, % (95% CI)	30.8 (17.7–44.0)	54.6 (45.2–64.0)	21.8 (6.7–36.9)	33.2 (21.2–45.3)

A clinically meaningful OS benefit was observed for Glofit-GemOx versus R-GemOx in 2L and 3L+ patients^{1–3}

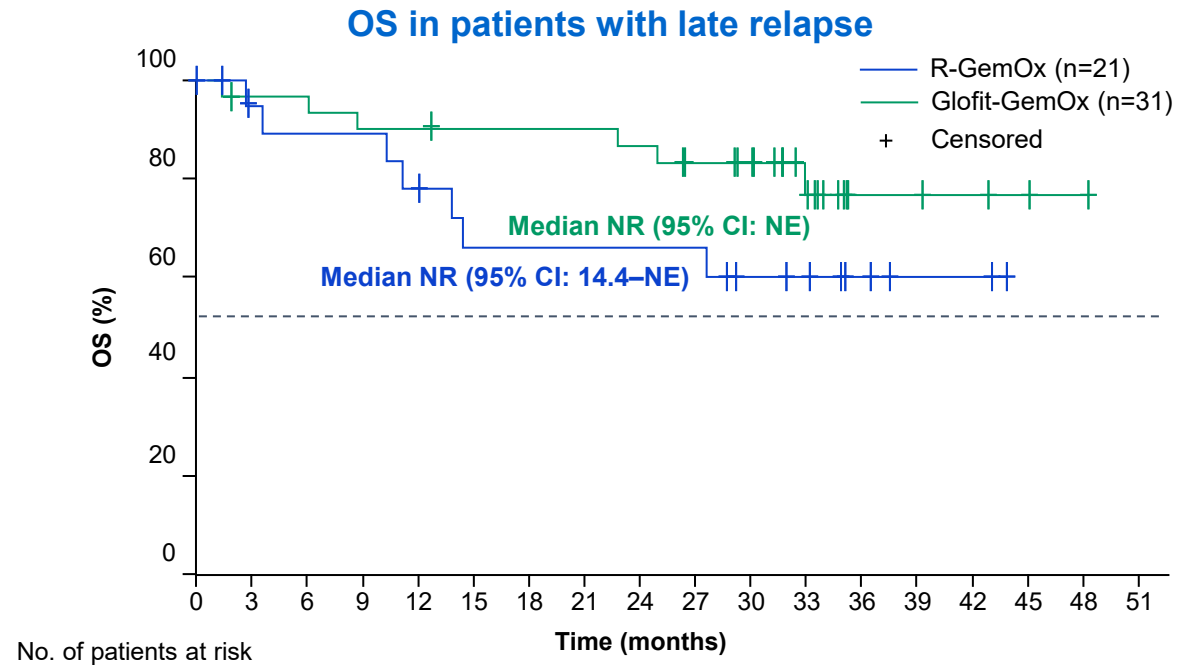
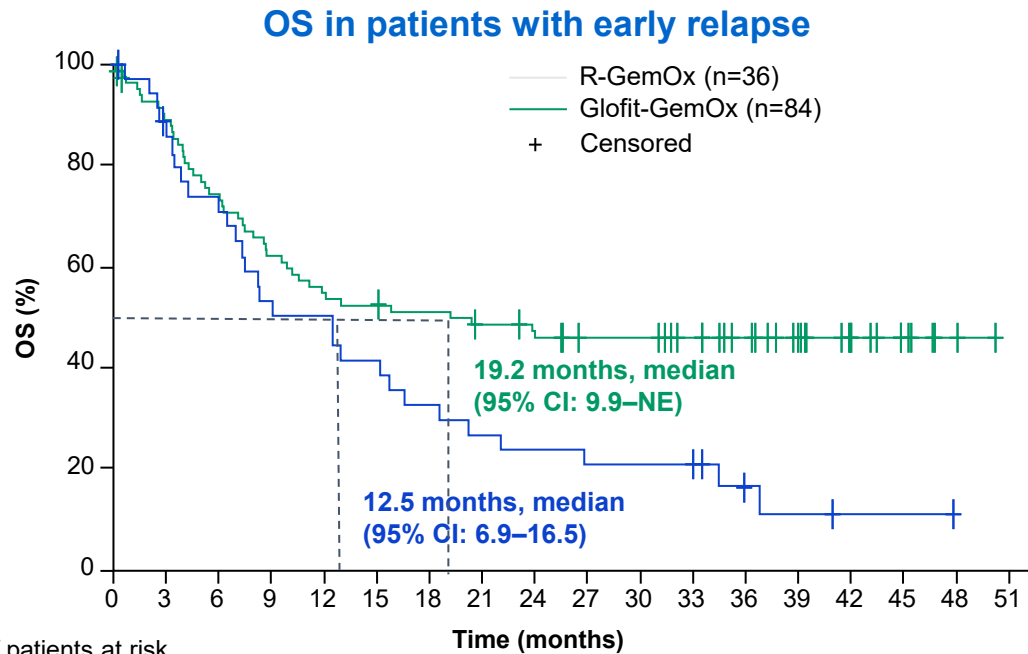
CCOD: May 1, 2025. 2L, second-line; 3L, third line; CI, confidence interval; GemOx, gemcitabine plus oxaliplatin; Glofit, glofitamab; HR, hazard ratio; NE, not evaluable; NR, not reached; OS, overall survival; R, rituximab.

1. Abramson JS, et al. ASH 2025; Poster presentation (P-5519);

2. Abdulhaq H, et al. ASH 2025; Poster presentation (P-3743);

3. Herbaux C, et al. ESH 2025; Poster presentation (P-6986893).

STARGLO: OS in 2L : *early and late relapse subgroups*

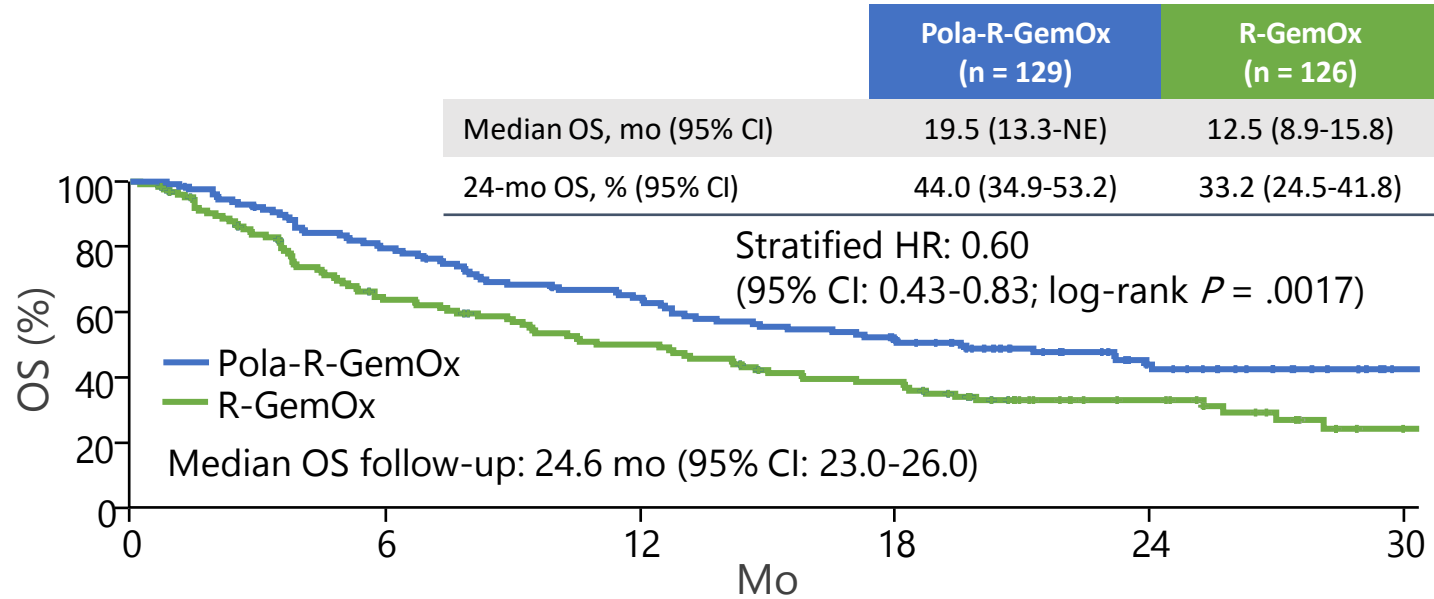
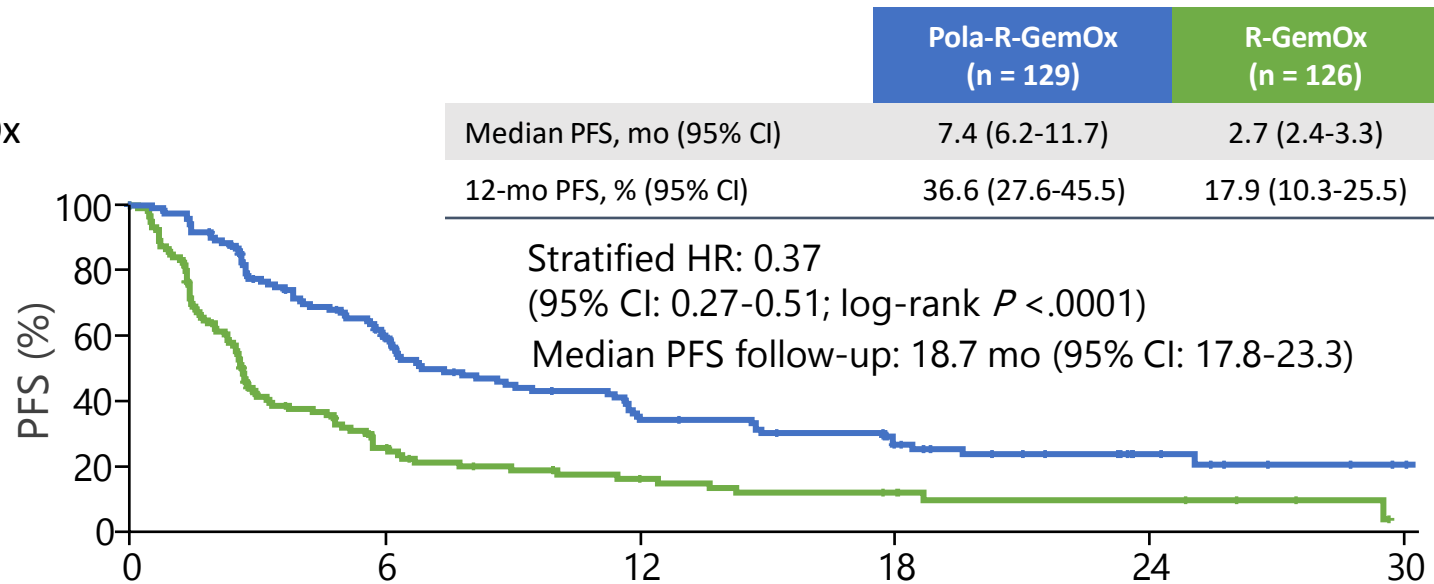
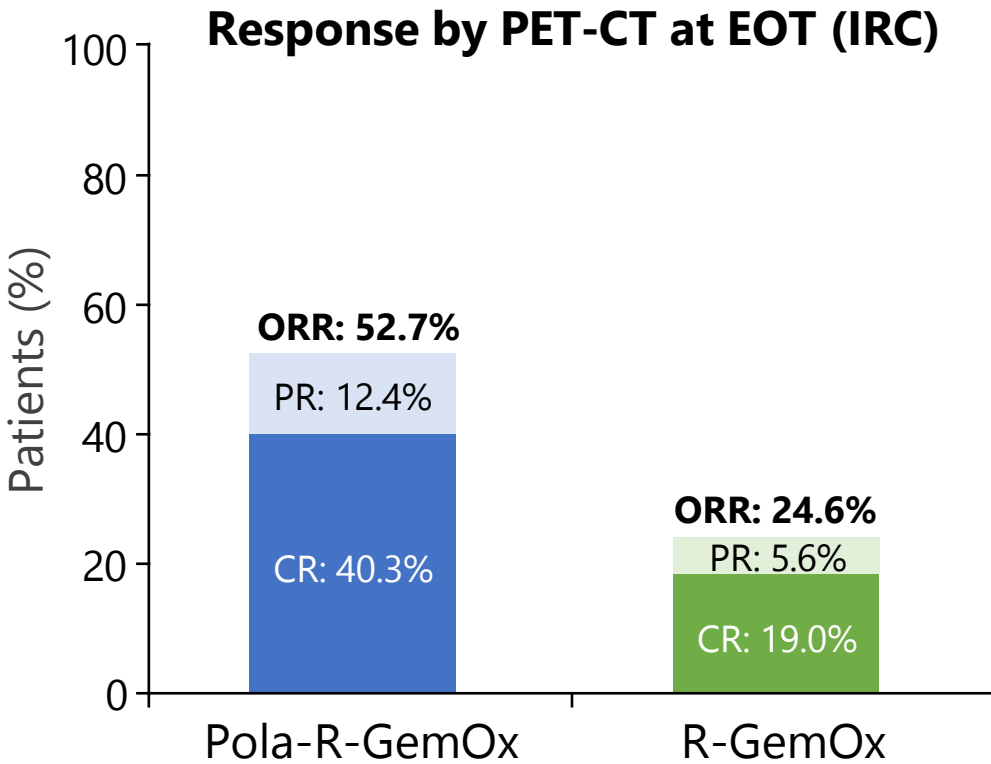


- 36-month OS rates (95% CI) with Glofit-GemOx versus R-GemOx, respectively, were 46.1% (35.2–56.9) versus 16.5% (3.4–29.6) in patients with early relapse and 76.8% (59.5–94.1) versus 60.0% (36.9–83.1) in patients with late relapse in the 2L setting

Longer OS was observed with Glofit-GemOx versus R-GemOx in 2L patients, regardless of time of relapse

POLARGO: Pola-R-GemOx vs R-GemOx in R/R Transplant Ineligible DLBCL

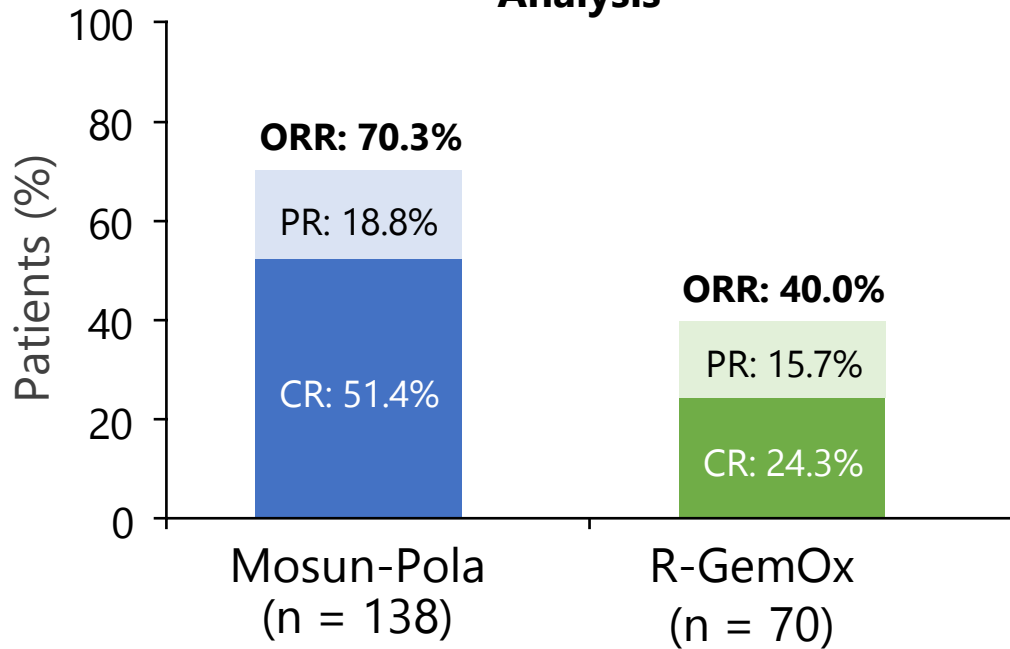
- Randomized phase III study of Pola-R-GemOx vs R-GemOx for patients with R/R DLBCL NOS after ≥1 prior line of treatment; ineligible for transplant (N = 255)



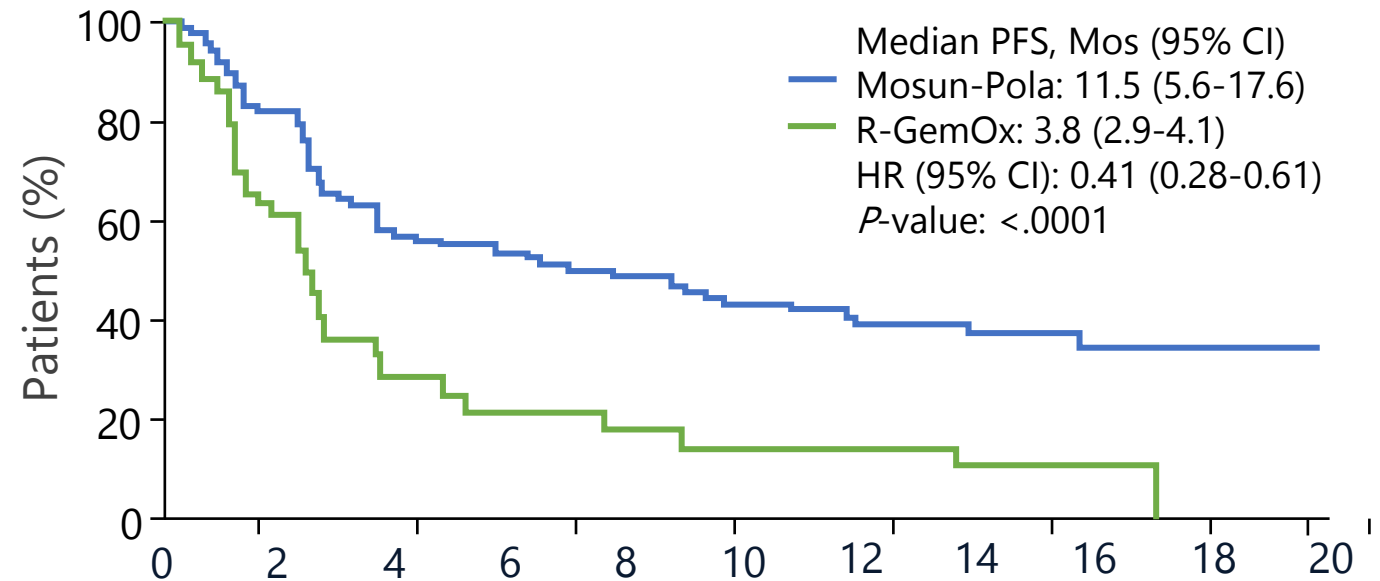
SUNMO: Mosunetuzumab + Polatuzumab Vedotin vs R-GemOx for R/R Transplant-Ineligible DLBCL

- Randomized phase III study of SC mosunetuzumab + polatuzumab vedotin vs rituximab + gemcitabine + oxaliplatin for CD20+ aggressive NHL (DLBCL or NOS, HGBCL DH/TH or NOS, tFL, FL grade 3b); ≥ 1 prior systemic therapy; ineligible for ASCT

Primary Endpoint: Response at Primary Analysis

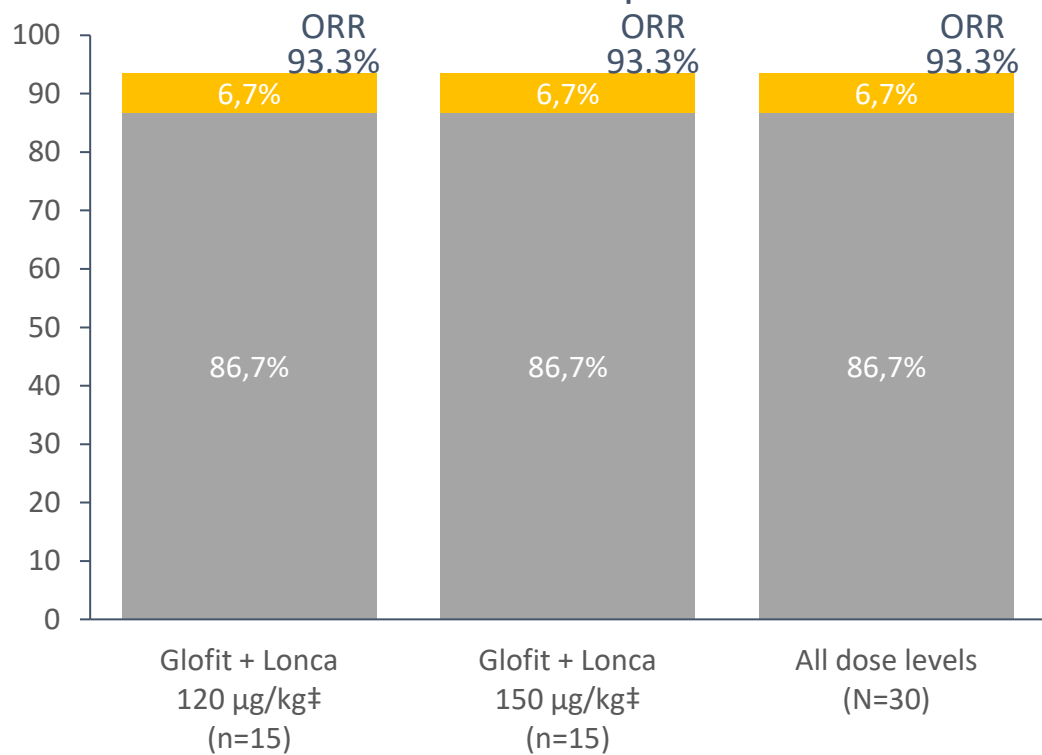


Primary Endpoint: PFS by IRC



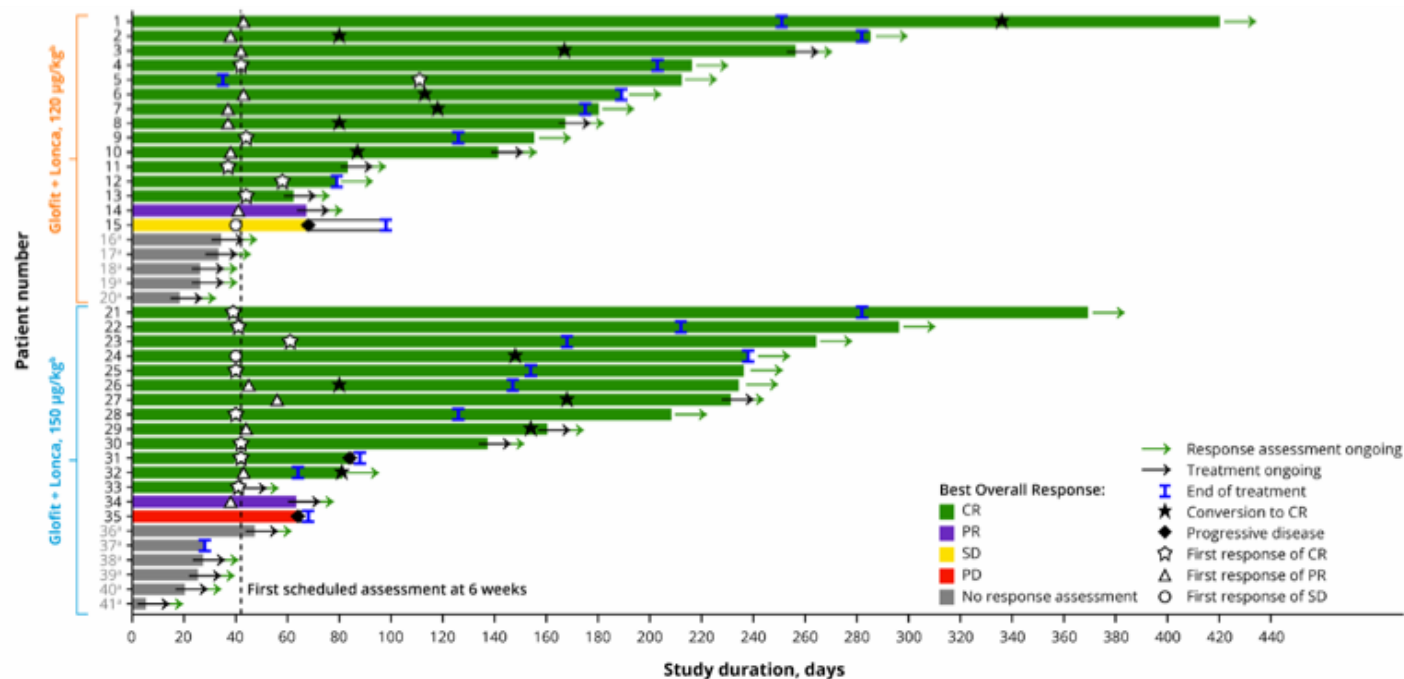
Loncastuximab + glofitamab

Best overall response



PR
CR

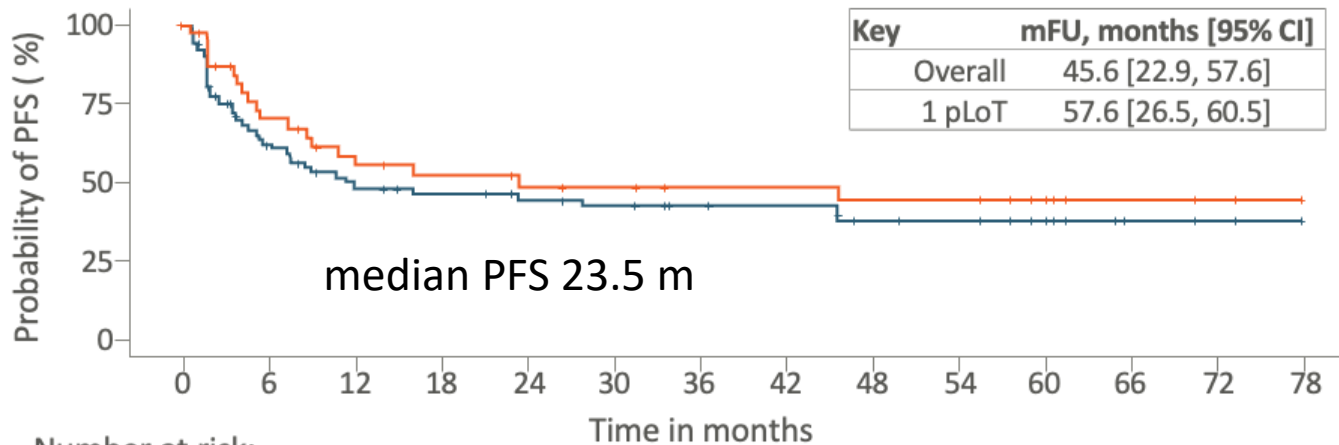
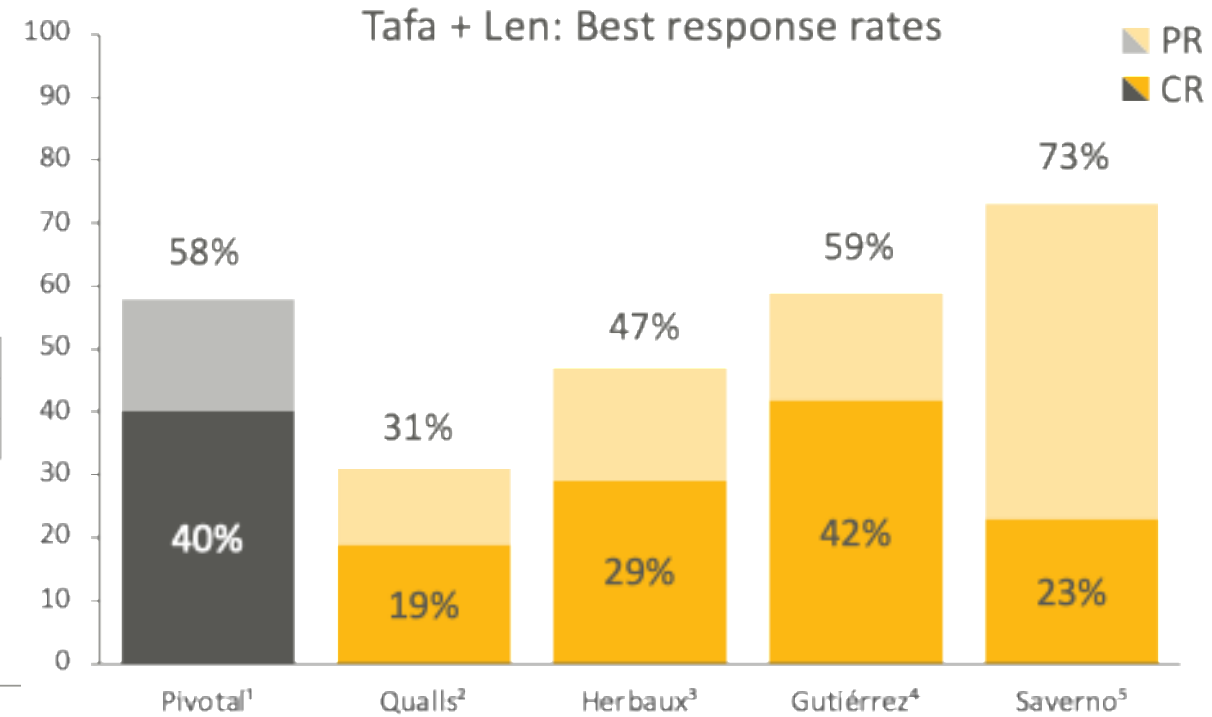
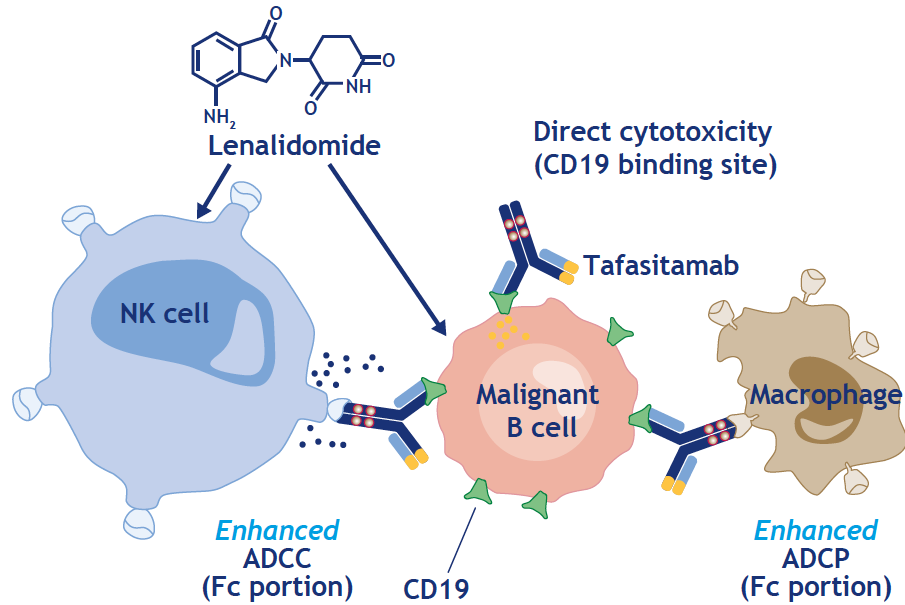
Characteristic, n (%)	Glofit + Lonca 120 µg/kg [‡] (n=15)	Glofit + Lonca 150 µg/kg [‡] (n=15)	All dose levels (N=30)
Median DOR [§]	(n=14) NE	(n=14) NE	(n=28) NE
Median time to first response (CR or PR), days	(n=14) 42.0	(n=14) 42.0	(n=28) 42.0
Median time to first CR, days	(n=13) 80.0	(n=13) 42.0	(n=26) 70.5



Outline

- Current sequencing
- CAR T-cell
- ADC
- Bispecific antibodies
- Combinations
- **Other options and challenges**

L-Mind study: Tafasitamab + lenalidomide



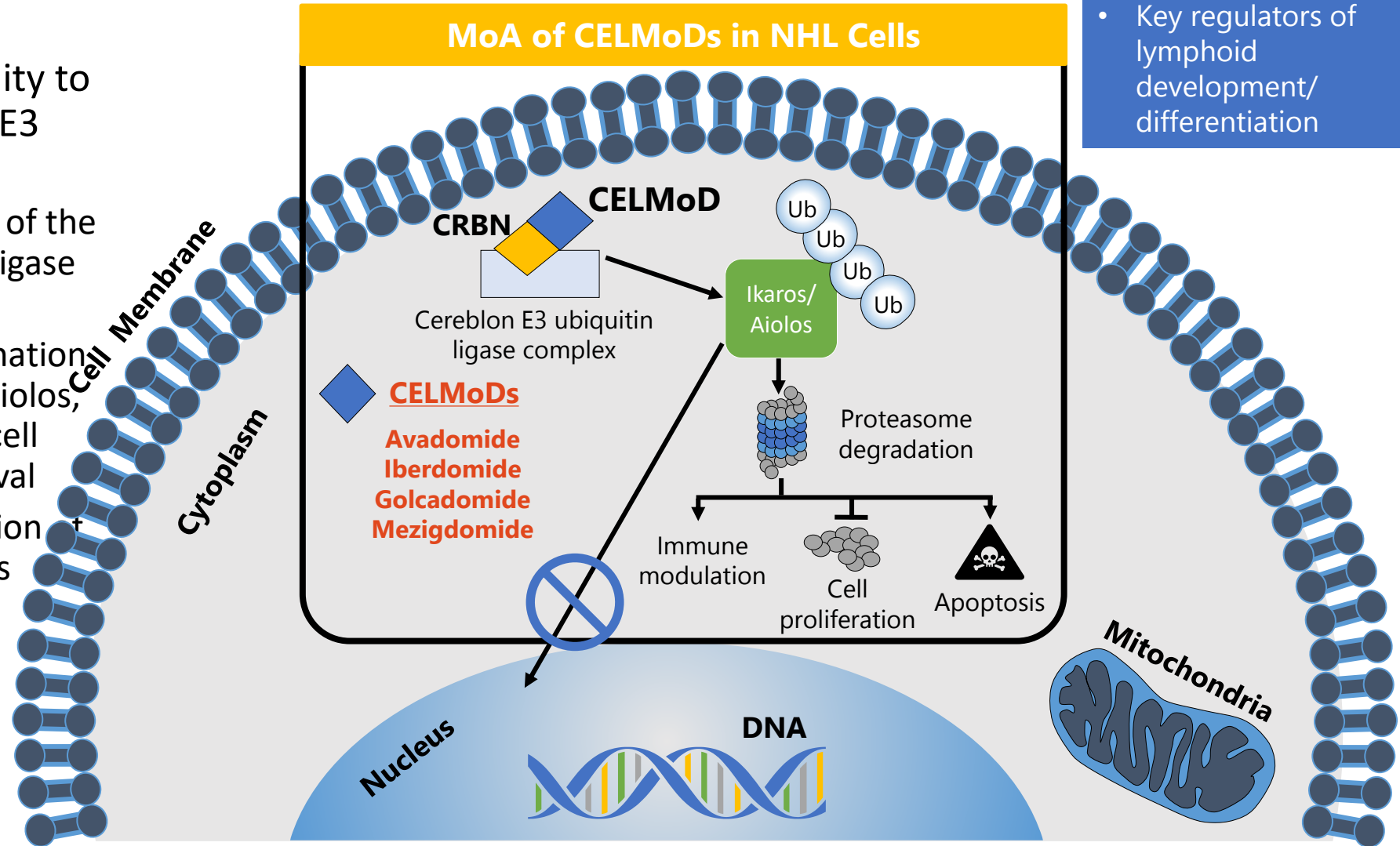
Number at risk:

	0	6	12	18	24	30	36	42	48	54	60	66	72	78
Overall	80	42	30	26	23	21	18	17	13	12	9	4	3	0
1 pLoT	40	25	19	16	14	13	11	11	10	10	7	4	3	0

1. Salles G et al, Lancet Oncol 2020; Duell et al, Haematologica 2024 2. Qualls et al. Blood 2023 3. Herbaux et al. EHA 2024; Abstract #P1214 4. Gutiérrez et al. EHA 2024; Abstract #P1203 5. Saverno et al. Blood 2024.

CELMoD Agents: Mechanism of Action

- CELMoDs bind with high affinity to CRBN, a part of the cereblon E3 ubiquitin ligase complex
 - Modulates the activity of the cereblon E3 ubiquitin ligase complex
 - Increases polyubiquitination of the TFs Ikaros and Aiolos, which are involved in cell proliferation and survival
 - Results in the recognition of different neosubstrates for ubiquitination and protein degradation



CC-99282-NHL-001: Efficacy of Golcadomide for Patients With R/R DLBCL

- Phase I/II trial

Response by dose level	Golcadomide + R		
	0.2 mg Golca (n = 34)	0.4 mg Golca (n = 35)	Overall (n = 69)
ORR, %	35	60	48
• CR	18	43	30
• PR	18	17	17
Median DoR, mo (range)	8.34 (1.5-26.7)		
Median DoT, mo (range)	8 (3-24.2)		
Median follow-up, mo (range)	5.85 (1.0-28.5)		

Response by Prior CAR T-cell Therapy	0.4 mg Golcadomide + R	
	Prior CAR T-cell (n = 21)	No Prior CAR T-cell (n = 17)
ORR, %	50	71
• CR	33	53
• PR	17	18

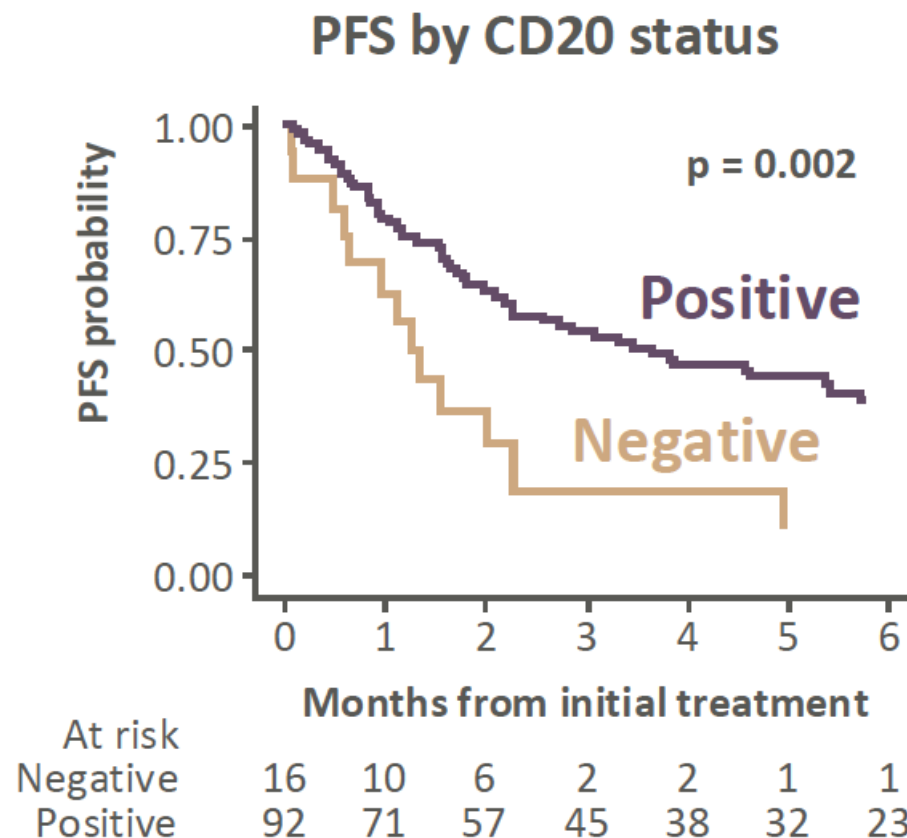
Neutropenia is most common any grade and severe toxicity

Additional trials ongoing and planned in upfront (phase III GOLSEEK, NCT06356129) and relapsed/refractory DLBCL

Real-world data: Impact of CD20 loss post-bispecifics

Patient and disease characteristics	Overall N=208
DLBCL NOS	158 (76%)
Primary refractory	55 (30%)
Prior CD19 CAR-T	124 (60%)
Undetectable CD20 prior to bispecific (n=122)	16 (13%)
By flow cytometry (n=73)	16 (22%)
By IHC (n=122)	9 (7%)

89% of patients* (17/19) lost detectable CD20 on post-bispecific biopsies



Median time to progression in those who lost CD20: 3.7 months

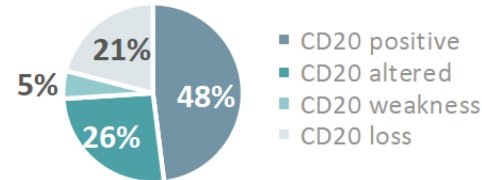
LNH-EPI study: Frequency of CD20/CD19 loss and impact on outcomes in R/R DLBCL ¹

Patient and disease characteristics

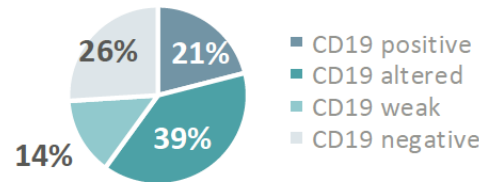
	N=200
Median age, years (range)	66 (26–87)
Primary refractory, %	74
Median no. of prior LoT	2 (1–9)
Prior CAR-T, %	22
GCB disease, %	49
Non-GCB disease, %	45

mOS was 11 months in the overall population

CD20 status (192 patients were evaluable)



CD19 status (51 patients were evaluable)



	Median OS, months (95% CI)	p value
CD20 positive	12 (9–15)	0.0012
CD20 altered	6 (4–12)	
CD19 positive	10 (8–22)	0.8312
CD19 altered	4 (3–NA)	
GCB disease	12 (9–15)	0.6220
Non-GCB disease	9 (7–14)	
Primary refractory	9 (8–12)	0.0002
Non-primary refractory	46 (23–NA)	

In retrospective study which evaluated CD20 expression in 25 pediatric/young adult with R/R mature B-NHL or B-ALL²:

- 40% showed loss of CD20 expression
- CD20-loss was characterised by a more aggressive disease and worse outcome

Post-therapeutic CD20 and CD19 tumour loss were 21% and 26%, respectively, in this population.

CD20 loss was associated with a poor prognosis. More data are required to determine the impact of CD19 loss on outcomes

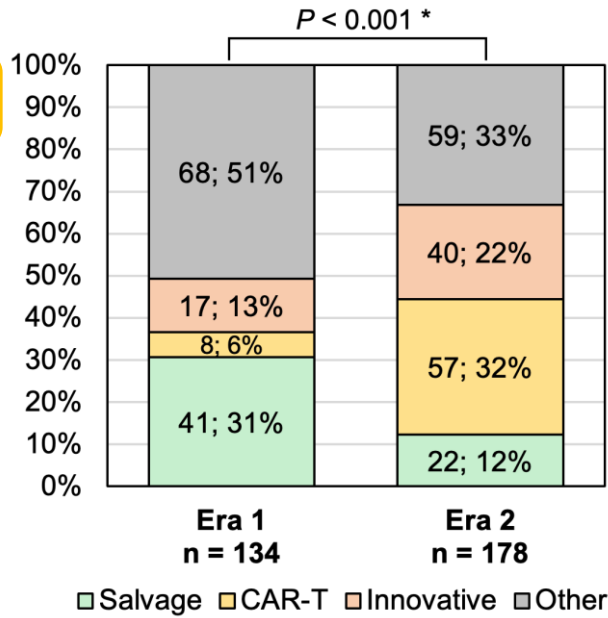
1. Hueso et al. ASH 2024; Oral presentation #474

2. Vinti et al. ASH 2024; Abstract #3086.

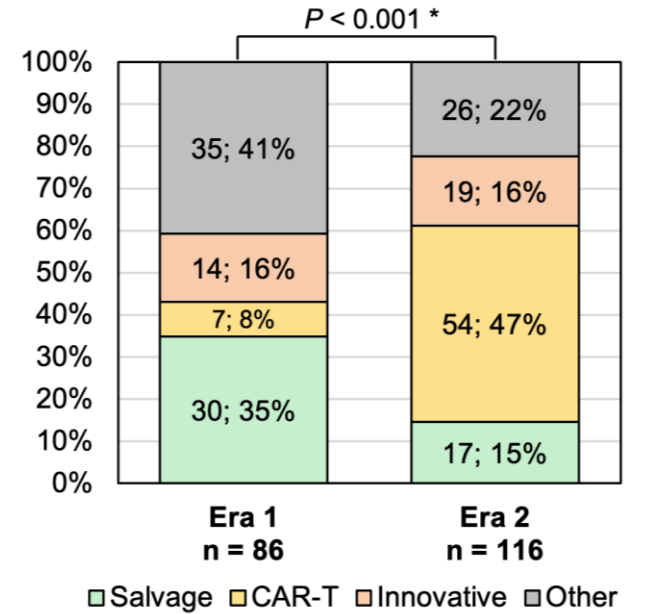
Summary

Evolution of R/R DLBCL management and population overall survival improvement (Era 2018-2020 vs 2021 vs 2023)

All R/R DLBCL pts

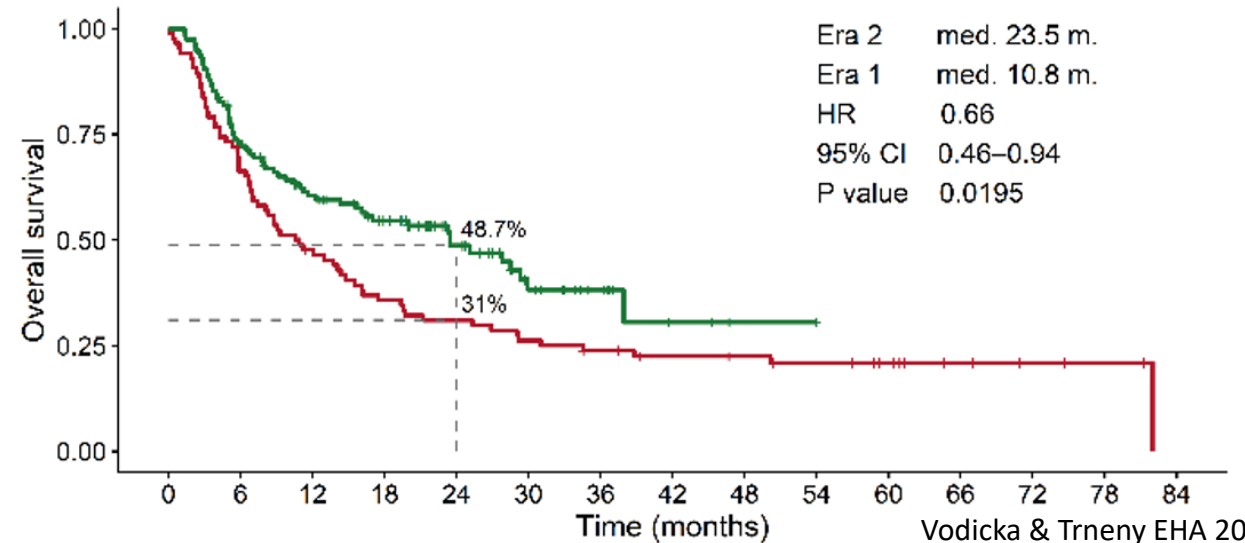
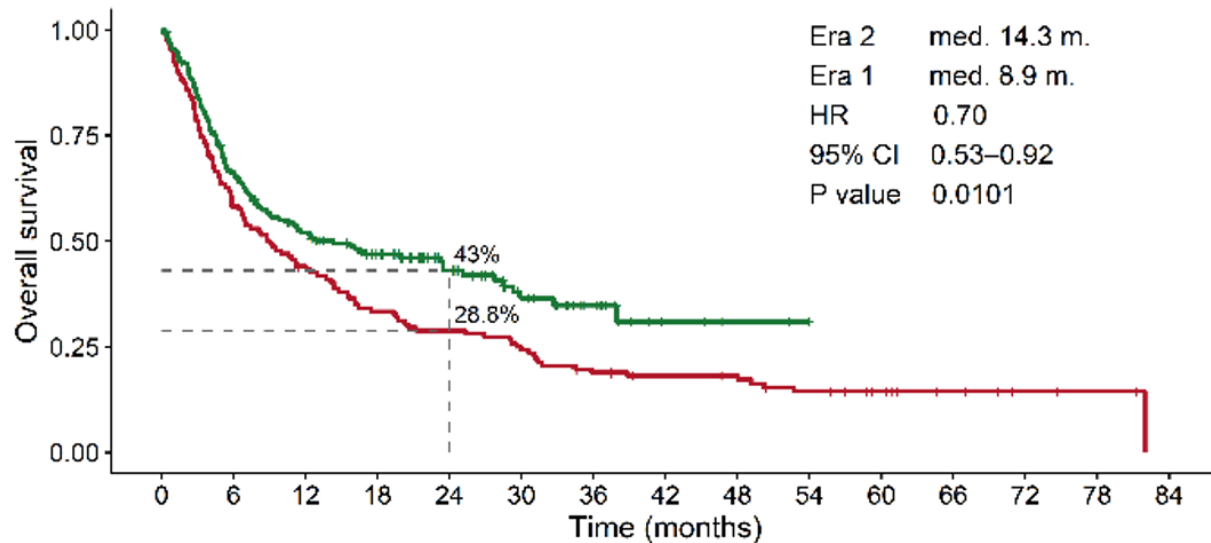


CAR T-cell eligible R/R DLBCL pts

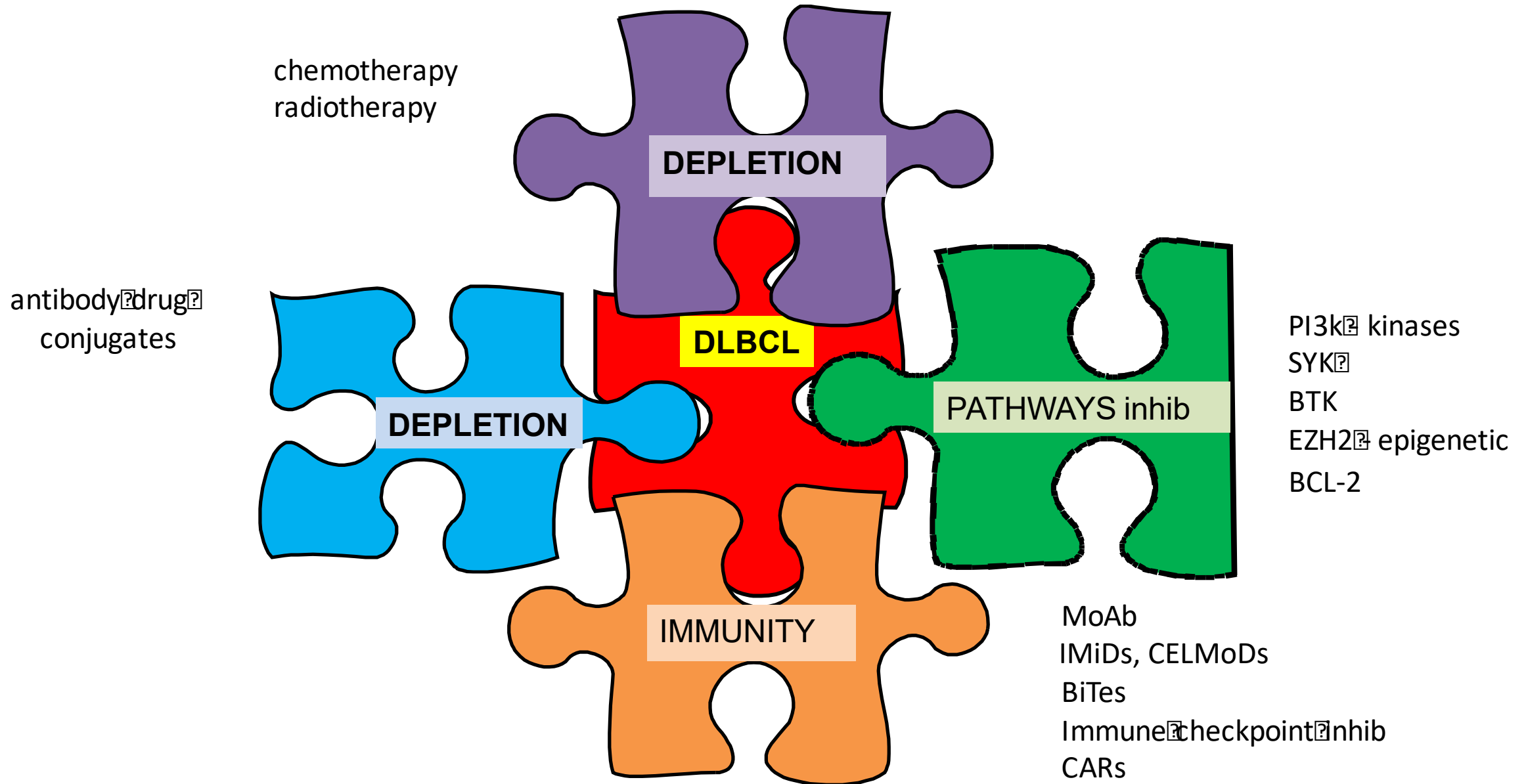


— Era 1 (2018–2020) — Era 2 (2021–2023)

— Era 1 (2018–2020) — Era 2 (2021–2023)



How to proceed? Sequence and Combine





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1st Faculty of Medicine

Thank you



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