

Bispecific antibodies in DLBCL

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DISCLOSURES

- **Scientific advisory boards:**

- AbbVie, Celgene, Genmab, Janssen, Merck, Roche, Takeda

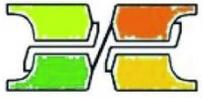
- **Research support (institution):**

- Celgene, Genentech, Genmab, Incyte, Janssen, Novartis, Roche, Takeda

Bispecific CD3/CD20 antibodies in B-NHL

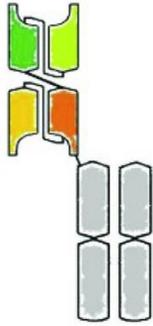
Lussana F, Gritti G; Rambaldi A. J Clin Oncol 2021; 39: 444-455.

A



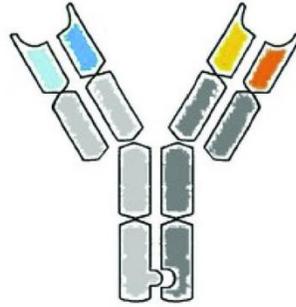
Blinatumomab

B



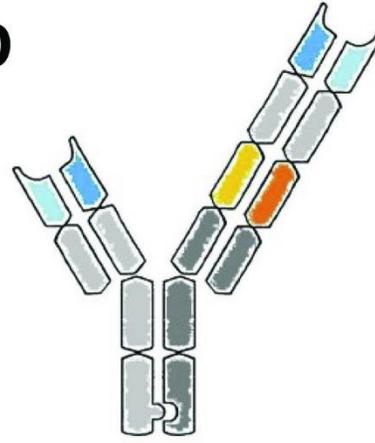
CD3xCD19
HLE-BiTE

C



Mosunetuzumab

D



Glofitamab



CD3



CD19



CD20



Knob-into-hole

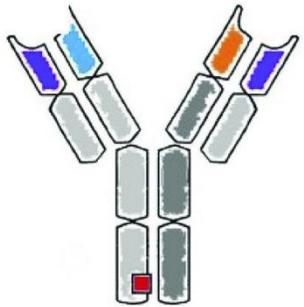


Dipeptide substitution in FC portion
ablating Protein A affinity



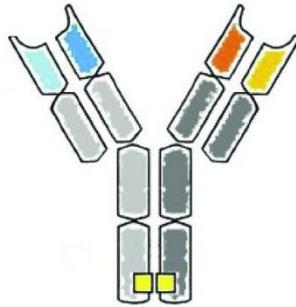
Single matched point mutations in
the CH3 domains

E



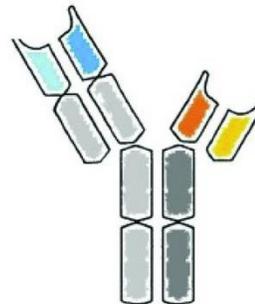
Odronextamab

F



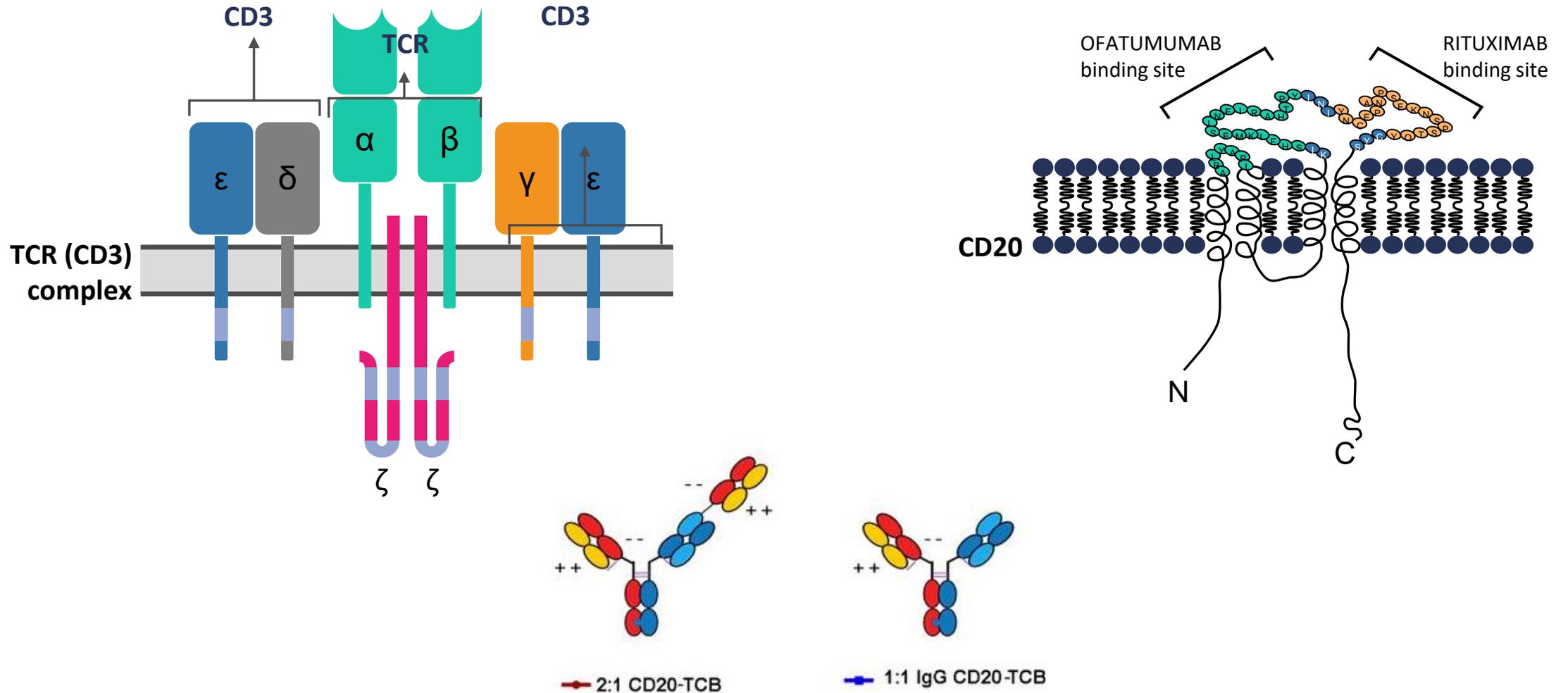
Epcoritamab

G

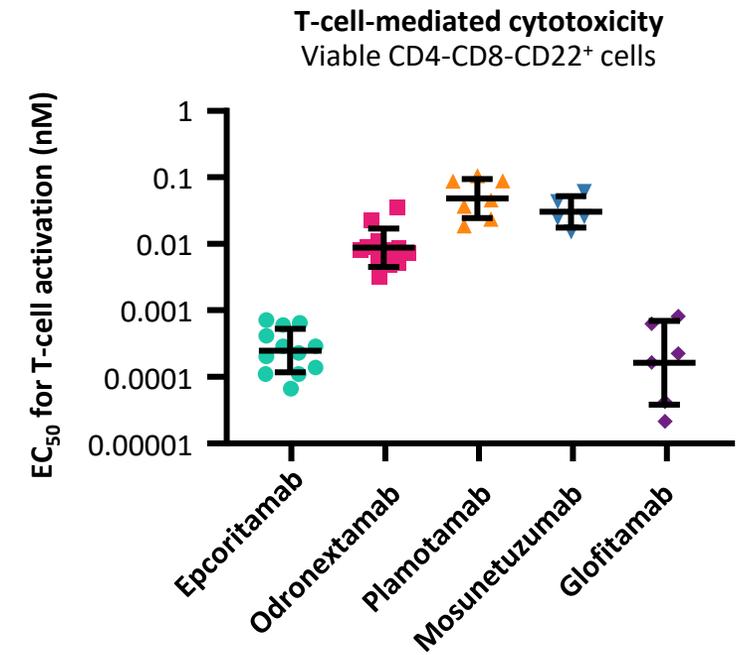
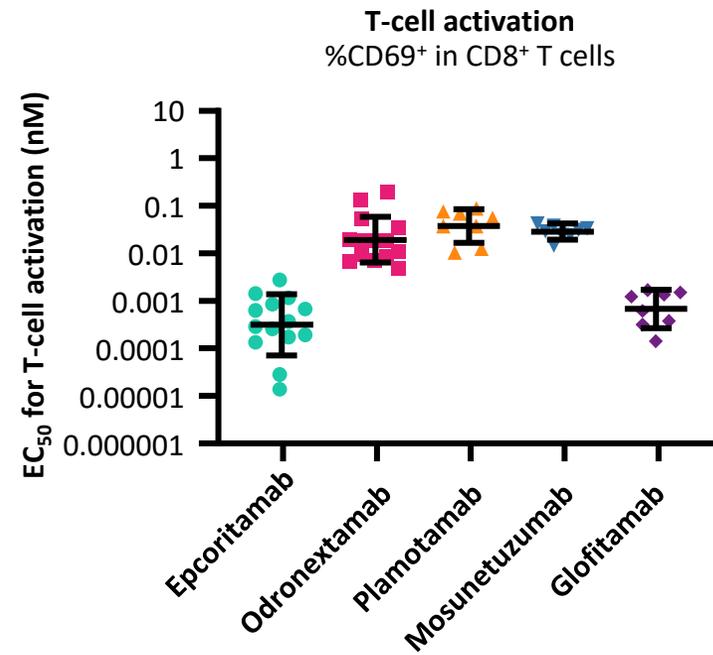
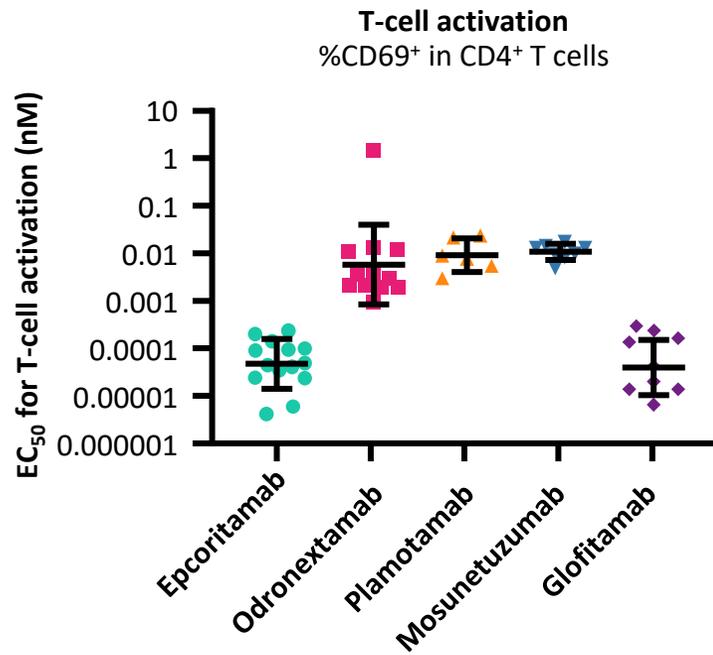


Plamotamab

Binding sites and structure of CD3xCD20 antibodies



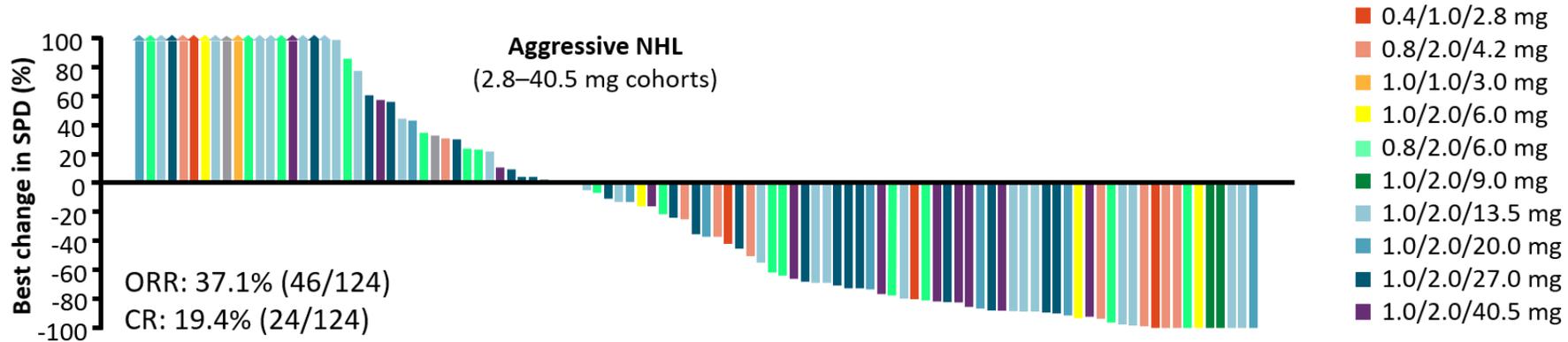
In vitro T-cell activation of CD3xCD20 antibodies



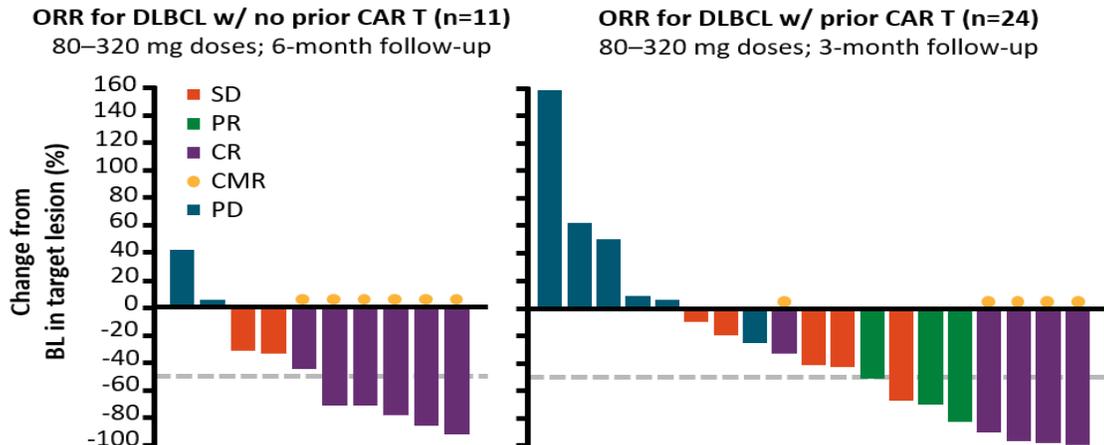
Single-agent phase 1 studies of bispecific CD3/CD20 antibodies in B-NHL

Activity of mosunetuzumab and odronextamab in r/r aggressive B-NHL

Mosunetuzumab in aggressive NHL¹



Odronextamab in DLBCL²



R/R DLBCL w/no prior CAR T

- ORR: 55% (6/11); CR: 55% (6/11)
- Median duration of CR: NR
- 83% of CRs durable (≥ 3 months; ≤ 21 months)

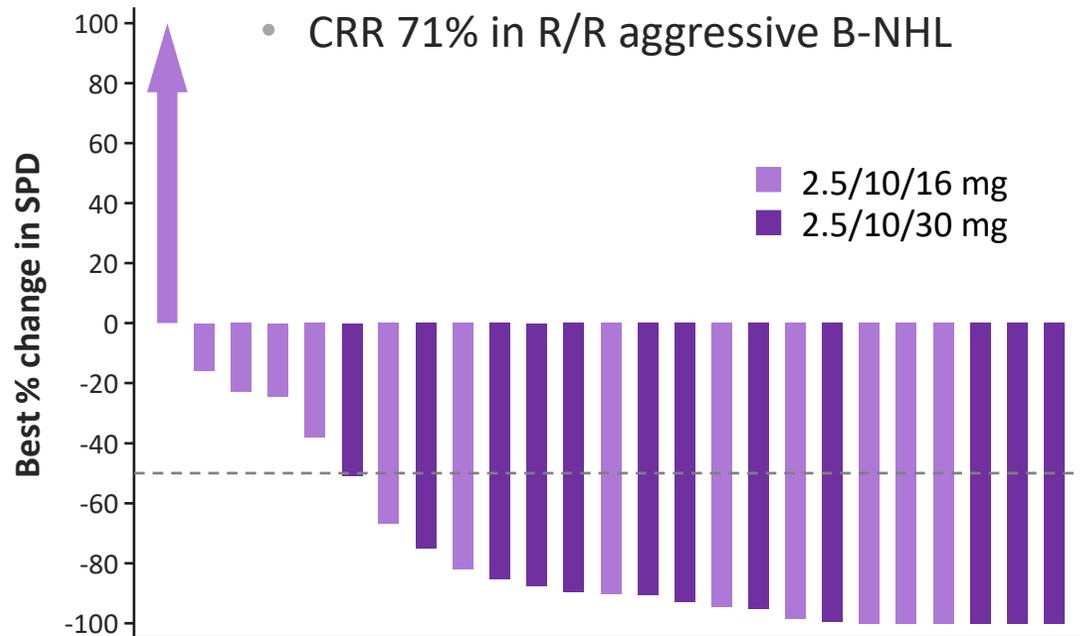
R/R DLBCL w/ prior CAR T

- ORR: 33% (8/24); CR: 21% (5/24)
- Median duration of CR: NR
- 100% of CRs ongoing at last assessment (≤ 20 months)

Activity of glofitamab and epcoritamab in r/r aggressive B-NHL

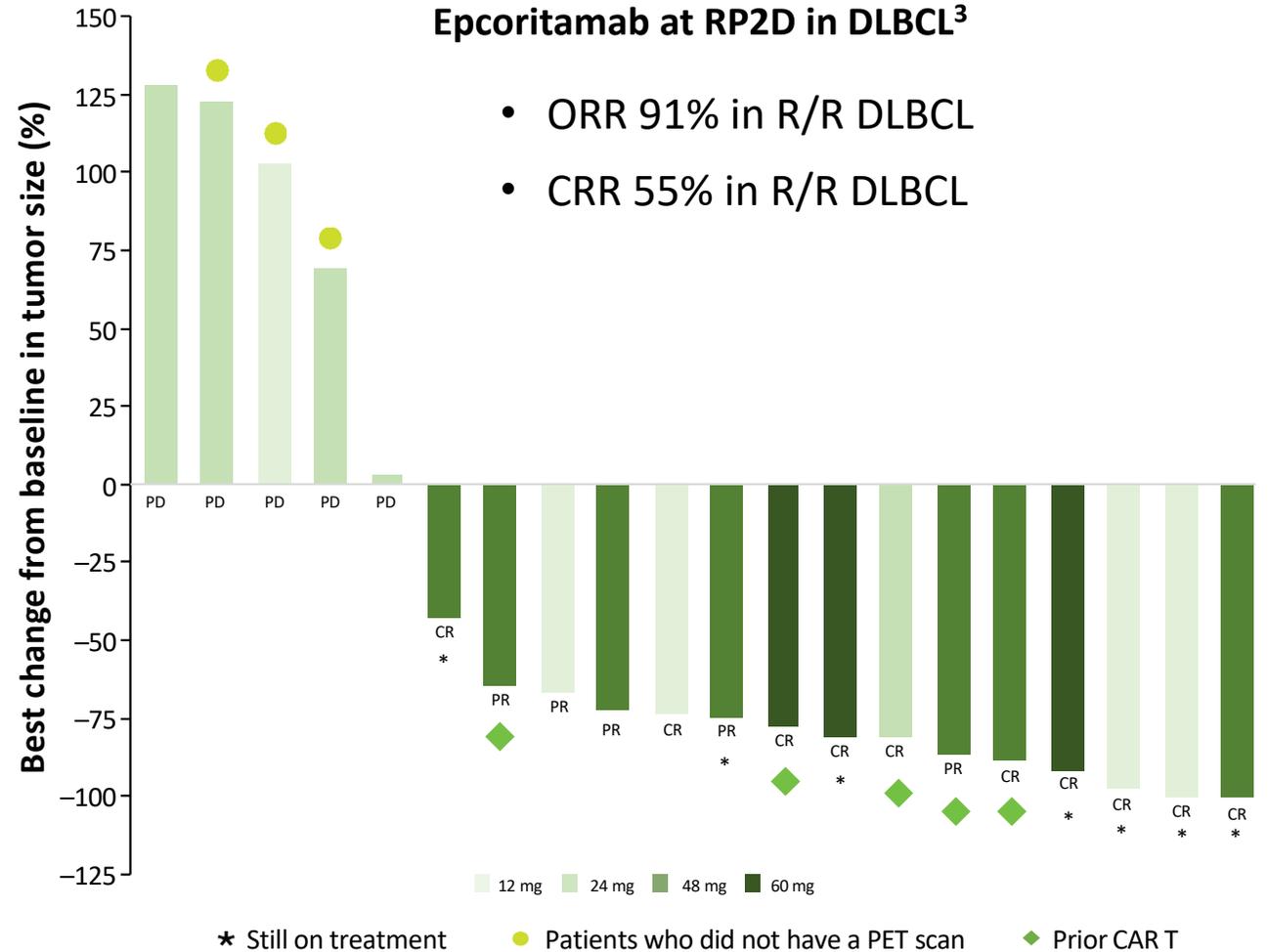
Glofitamab at RP2D in aggressive NHL^{1,2}

- ORR 79% in R/R aggressive B-NHL
- CRR 71% in R/R aggressive B-NHL



Epcoritamab at RP2D in DLBCL³

- ORR 91% in R/R DLBCL
- CRR 55% in R/R DLBCL



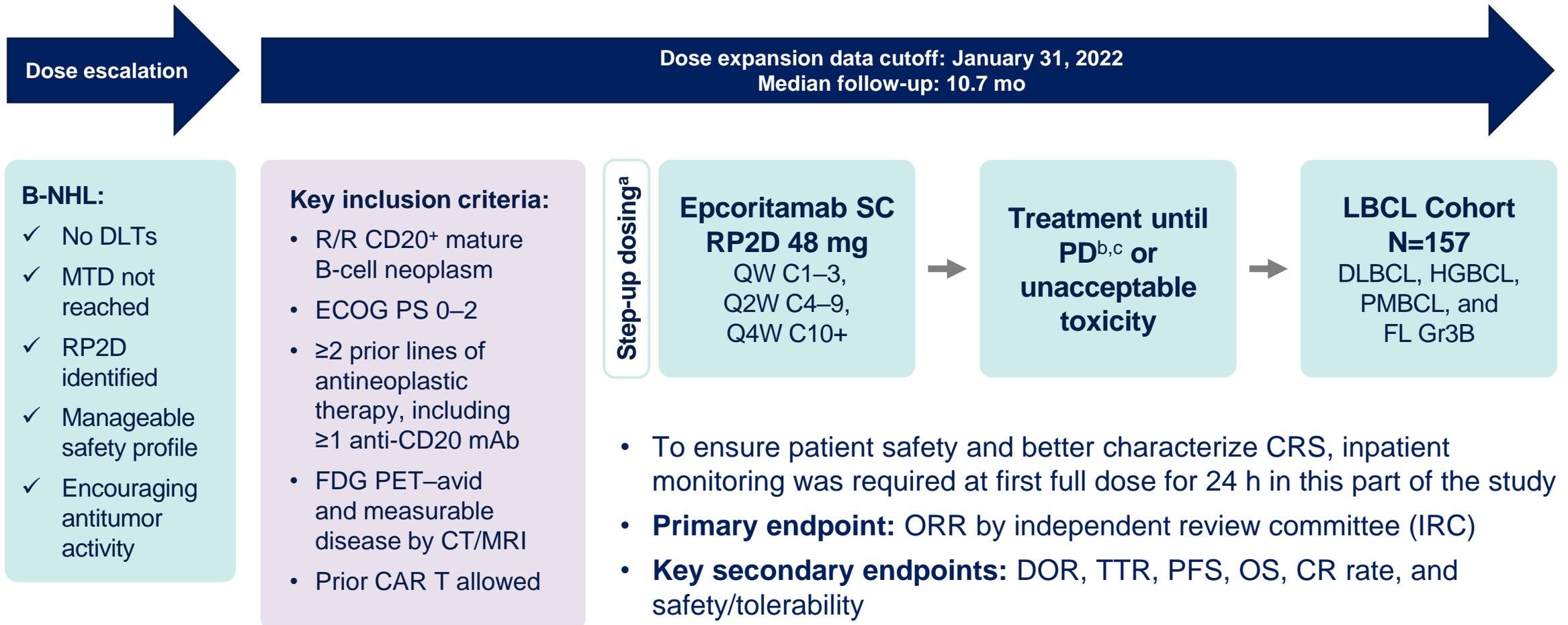
Recent data from the DLBCL phase 2 expansion cohorts of the glofitamab and epcoritamab studies

SUBCUTANEOUS EPCORITAMAB IN PATIENTS WITH RELAPSED OR REFRACTORY LARGE B-CELL LYMPHOMA (EPCORE NHL-1): PIVOTAL RESULTS FROM A PHASE 2 STUDY

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EPCORE NHL-1: LBCL Expansion Cohort



^aStep-up dosing (priming 0.16 mg and intermediate 0.8 mg dosing before first full dose) and corticosteroid prophylaxis were used to mitigate CRS. ^bRadiographic disease evaluation was performed every 6 wk for the first 24 wk (6, 12, 18, and 24 wk), then every 12 wk (36 and 48 wk), and every 6 mo thereafter. ^cMeasurable disease with CT or MRI scan with involvement of ≥2 lesions/nodes with a long axis >1.5 cm and short axis >1.0 cm (or 1 lesion/node with a long axis >2.0 cm and short axis ≥1.0 cm) and FDG PET scan that demonstrates positive lesion(s) compatible with CT-defined (or MRI-defined) anatomical tumor sites for FDG-avid lymphomas. ClinicalTrials.gov: NCT03625037. EudraCT: 2017-001748-36.

Patients Were Challenging to Treat and Highly Refractory

Demographics	LBCL, N=157
Median age (range), y	64 (20–83)
<65 y, n (%)	80 (51)
65 to <75 y, n (%)	48 (31)
≥75 y, n (%)	29 (18)
ECOG PS, n (%)	
0	74 (47)
1	78 (50)
2	5 (3)

Disease Characteristics ^a	LBCL, N=157
Disease type, n (%)	
DLBCL	139 (89)
De novo	97/139 (70)
Transformed	40/139 (29)
Unknown	2/139 (1)
HGBCL	9 (6)
PMBCL	4 (3)
FL Gr3B	5 (3)

Prior Treatments	LBCL, N=157
Median time from initial diagnosis to first dose, y	1.6
Median time from end of last therapy to first dose, mo	2.4
Median prior lines of therapy (range)	3 (2–11)
≥3 Lines of therapy, n (%)	111 (71)
Primary refractory ^b disease, n (%)	96 (61)
Refractory ^b to last systemic therapy, n (%)	130 (83)
Refractory ^b to ≥2 consecutive lines of therapy, n (%)	119 (76)
Prior ASCT, n (%)	31 (20)
Prior CAR T therapy, n (%)	61 (39)
Progressed within 6 mo of CAR T therapy	46/61 (75)

^aDouble/triple-hit patients included, many with responses. ^bRefractory disease is defined as disease that either progressed during therapy or progressed within <6 months of completion of therapy.

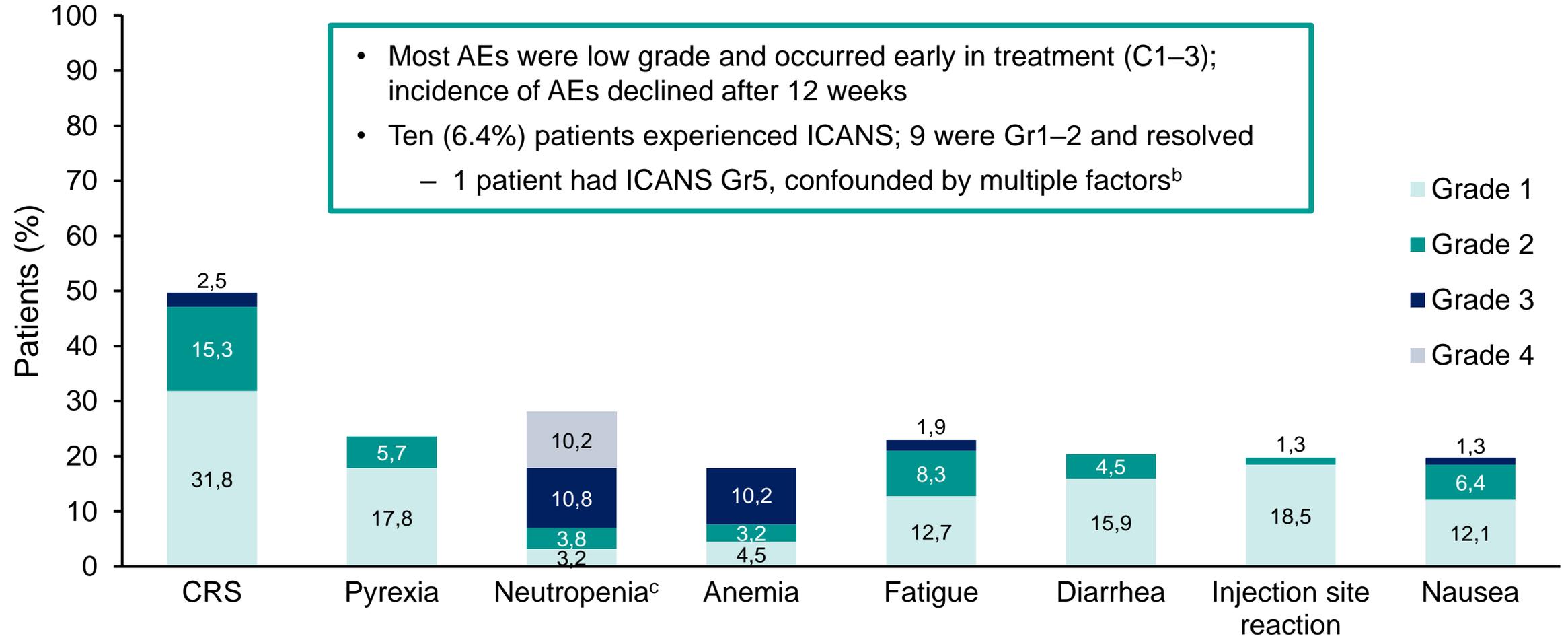
Few Discontinuations Due to AEs; 32% of Patients Remain on Treatment

Follow-up	LBCL N=157
Median follow-up (range), mo	10.7 (0.3–17.9)
Median number of treatment cycles (range)	5 (1–20)
Ongoing treatment, n (%)	51 (32)
Discontinued treatment, n (%)	106 (68)
PD	83 (53)
AE	11 (7)
Related ^a	3 (2)
Allogeneic transplant	7 (4)
Withdrawal by patient	4 (3)
Other	1 (1)

^aWorsening CLIPPERS, CRS/fatigue, and ICANS.

Adverse Events Were Primarily Low Grade

Treatment-Emergent Adverse Events^a (≥15%) by Grade



^aCOVID incidence 4.5%. ^bPatient experienced ICANS after intermediate dose with multiple confounders, including extensive opioid use for Gr3 pancreatitis, hyperammonemia, multifocal cerebral infarcts in setting of possible microangiopathy, and tocilizumab administration. ^cCombined term includes neutropenia and decreased neutrophil count.

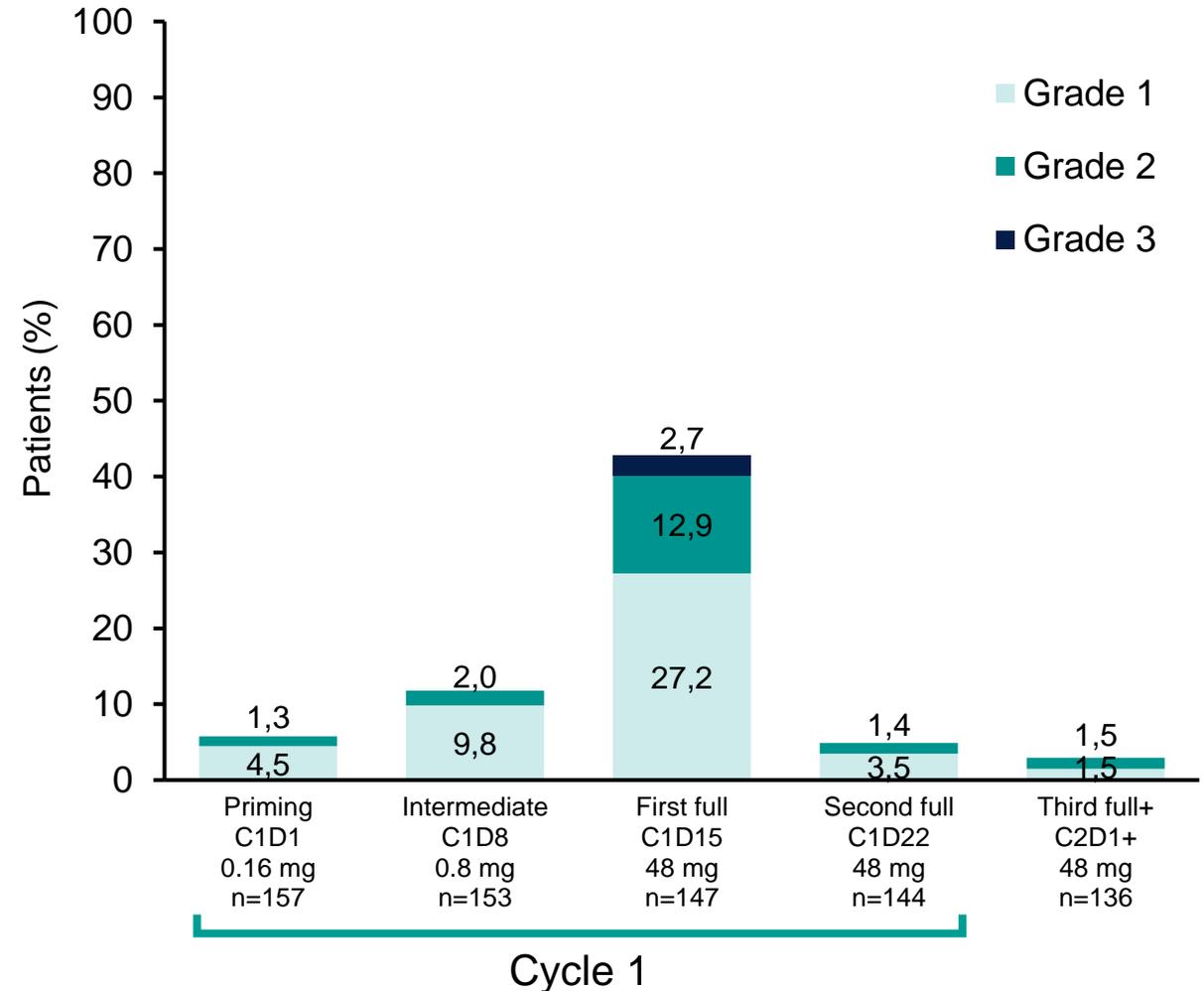
SC Administration and Step-up Dosing May Mitigate CRS

	LBCL N=157
CRS events, n (%) ^a	78 (49.7)
Grade 1	50 (31.8)
Grade 2	24 (15.3)
Grade 3	4 (2.5)
Median time to onset from first full dose, d	0.8 (20 h)
CRS resolution, n (%)	77 (98.7)
Median time to resolution from first full dose, d	2 (48 h)
Treated with tocilizumab, n (%)	22 (14.0)
Treated with corticosteroids, n (%)	16 (10.2)
Leading to treatment discontinuation, n (%)	1 (0.6)

^aGraded by Lee et al. 2019 criteria.

CRS was primarily low grade and predictable: most events occurred following the first full dose

CRS Events by Dosing Period

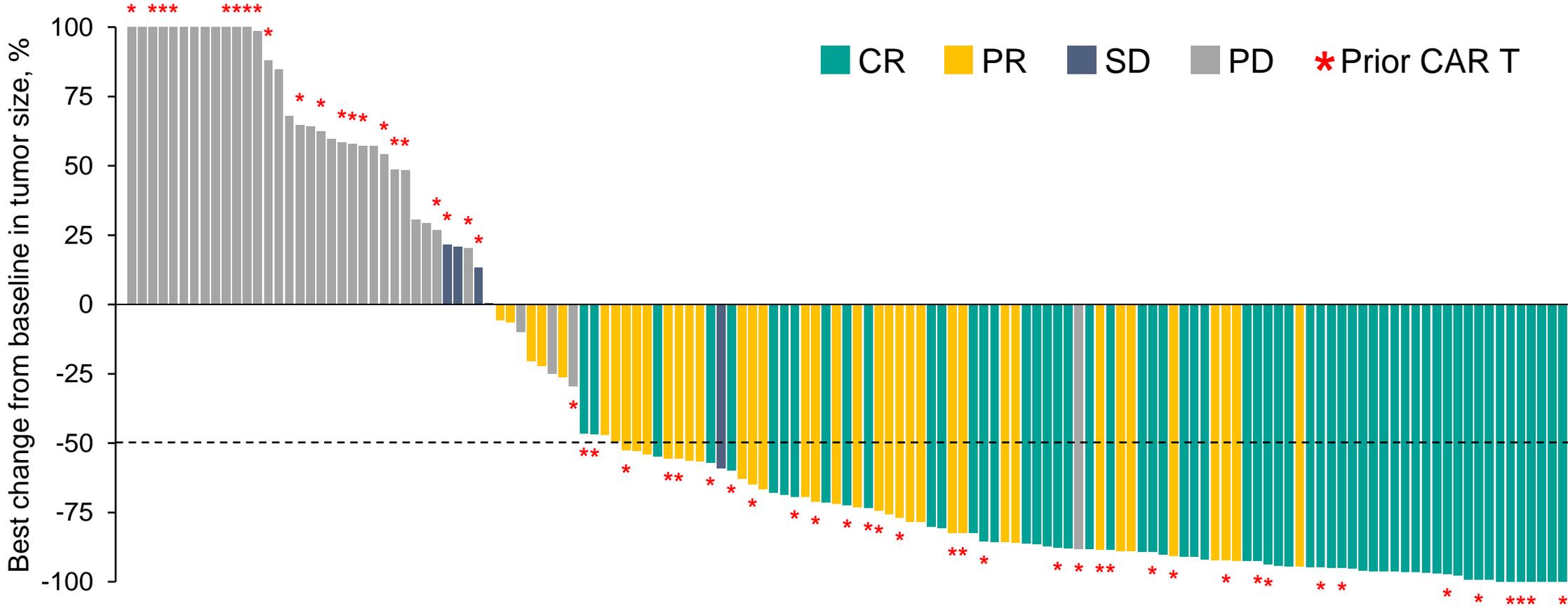


High Response Rates Observed

Best Overall Response by IRC, n (%) ^a	LBCL N=157
Overall response	99 (63) [95% CI: 55–71]
Complete response	61 (39) [95% CI: 31–47]
Partial response	38 (24)
Stable disease	5 (3)
Progressive disease	37 (24)

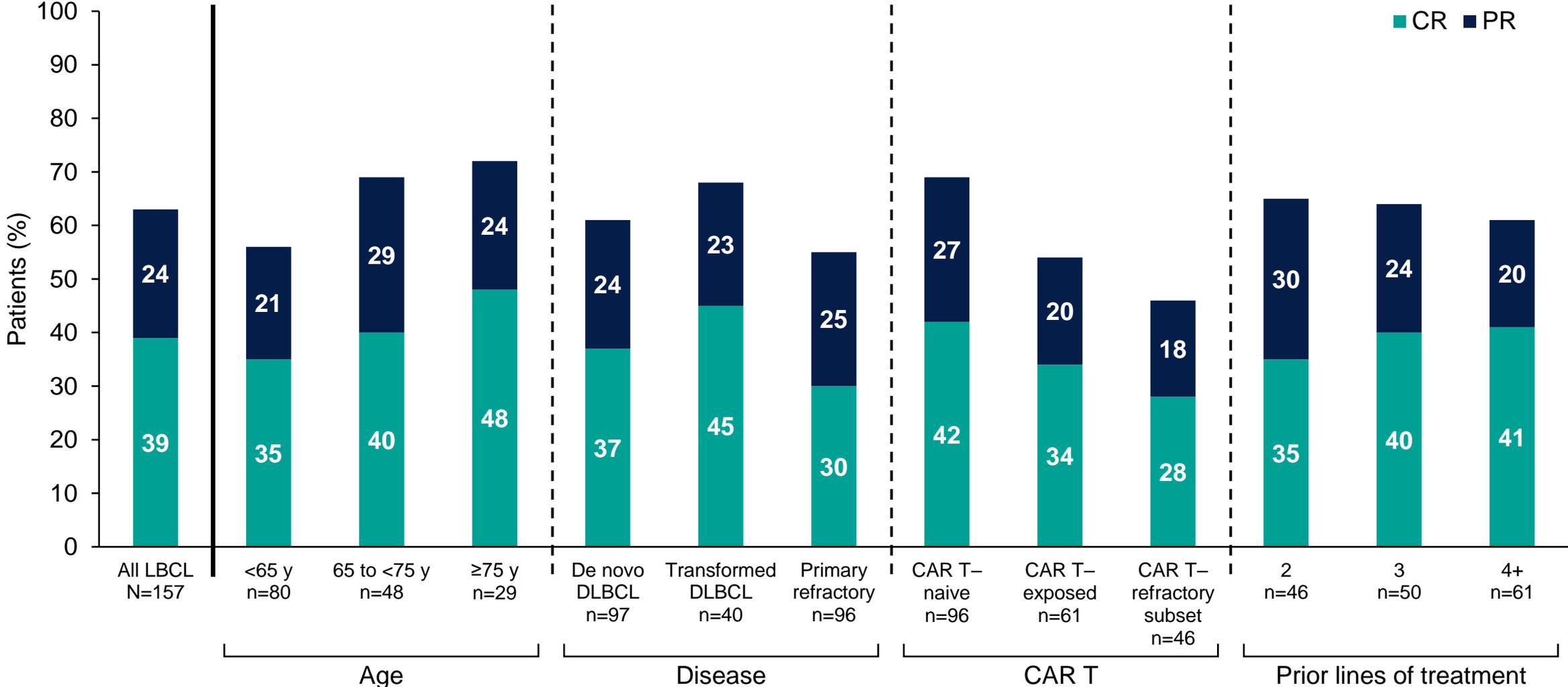
^aBased on Lugano criteria.

Epcoritamab Induced Deep Responses in R/R LBCL



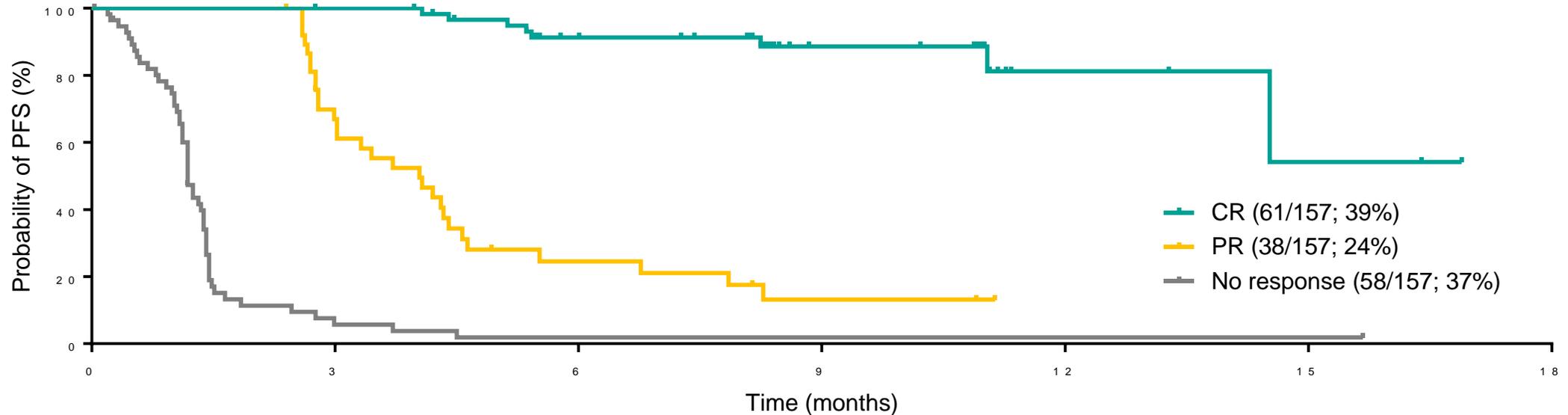
Based on IRC assessment and Lugano criteria.

Deep Responses Consistent Across Key Subgroups



Based on IRC assessment and Lugano criteria.

PFS by Best Response per IRC



Time (months)	0	3	6	9	12	15	18
CR (61/157; 39%)	61	60	43	24	4	2	0
PR (38/157; 24%)	38	23	7	3	0	0	0
No response (58/157; 37%)	58	3	1	1	1	1	0

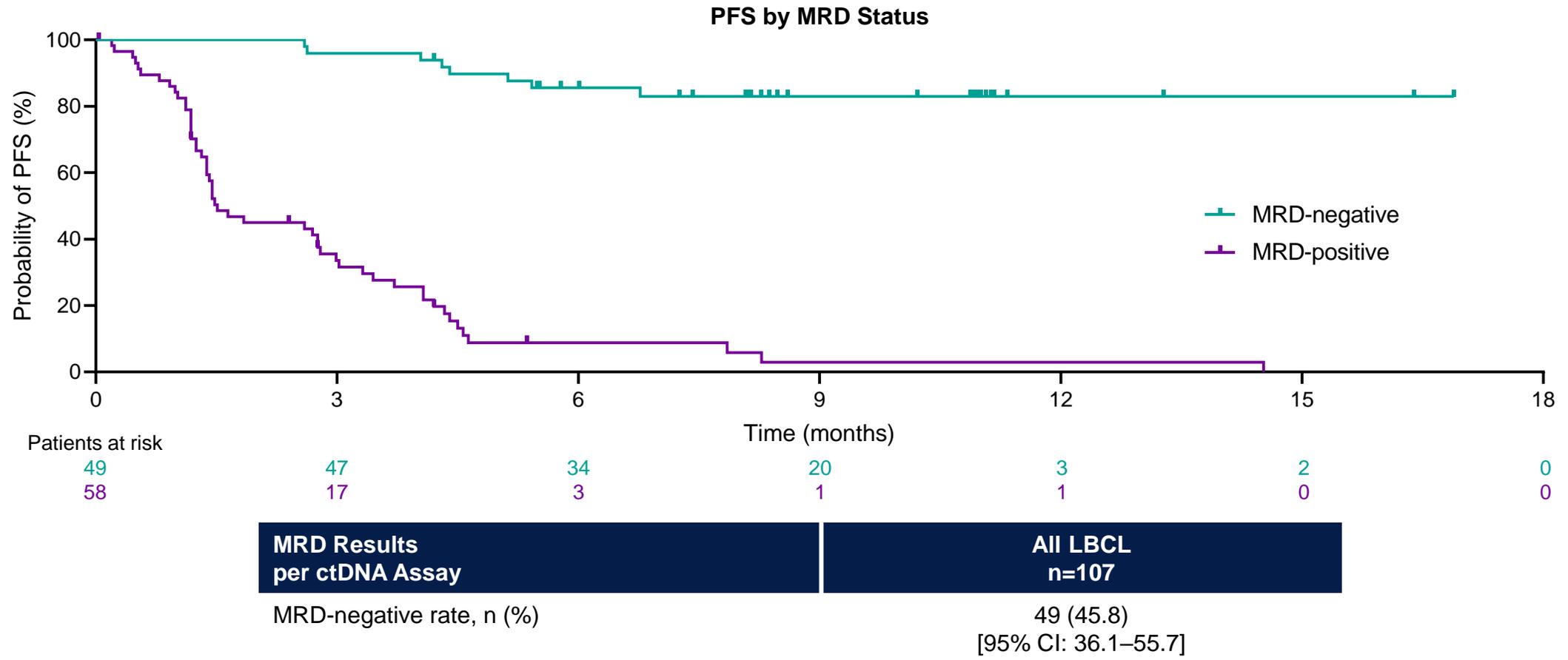
Kaplan–Meier Estimate

Median PFS for complete responders	Not reached
Complete responders remaining in complete response at 9 mo	89%
Median PFS, mo (95% CI)	4.4 (3.0–7.9)
PFS at 6 mo, % (95% CI)	43.9 (35.7–51.7)

A correlation between depth of response and PFS was observed

MRD Negativity Correlated With Improved PFS

- Exploratory ctDNA analysis shows that MRD-negative responses were durable and correlated with PFS



Based on MRD-negative evaluable set, which included patients with ≥ 1 postbaseline MRD sample/evaluation who had detectable disease (n=104) or were not evaluated (n=3) at baseline. MRD negativity was defined as the absence of detectable clone sequences in plasma at any on-treatment time point (clonoSEQ).

Glofitamab in patients with relapsed/refractory (R/R) diffuse large B-cell lymphoma (DLBCL) and ≥ 2 prior therapies: pivotal Phase II expansion results

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¹Peter MacCallum Cancer Centre, Royal Melbourne Hospital and The University of Melbourne, Melbourne, VIC, Australia; ²Humanitas University and IRCCS Humanitas Research Hospital, Milan, Italy; ³Hôpital Claude Huriez and CHU de Lille, Lille, France; ⁴Centre Hospitalier Lyon-Sud, Lyon, France; ⁵Università degli Studi di Milano and Fondazione Istituti di Ricovero e Cura a Carattere Scientifico (IRCCS) Istituto Nazionale dei Tumori, Milan, Italy; ⁶Vall d'Hebron University Hospital, Barcelona, Spain; ⁷Allegheny Health Network, Pittsburgh, PA, USA; ⁸Uniwersytet Medyczny we Wrocławiu, Wrocław, Poland; ⁹Universitair Ziekenhuis Gent, Ghent, Belgium; ¹⁰Charles University Hospital, Prague, Czech Republic; ¹¹National Taiwan University Hospital, Taipei, Taiwan; ¹²CHU de Montpellier, Montpellier, France; ¹³Prince of Wales Hospital and University of New South Wales, Sydney, NSW, Australia; ¹⁴Institut Català d'Oncologia Hospitalet, Barcelona, Spain; ¹⁵F. Hoffmann-La Roche Ltd, Basel, Switzerland; ¹⁶Roche Products Ltd, Welwyn Garden City, United Kingdom; ¹⁷Rigshospitalet, Copenhagen, Denmark

Study overview

Pivotal Phase II expansion in patients with R/R DLBCL and ≥ 2 prior therapies (NP30179)

Key inclusion criteria

- DLBCL NOS, HGBCL, transformed FL or PMBCL
- ECOG PS 0–1
- ≥ 2 prior therapies, including:
 - anti-CD20 antibody
 - anthracycline

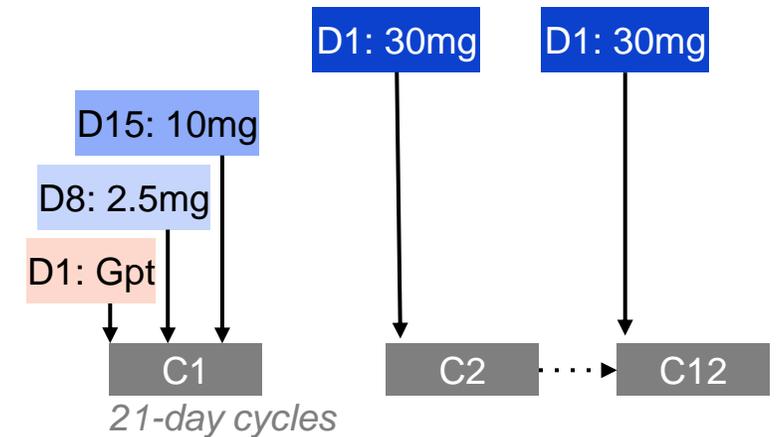
Glofitamab IV administration

Fixed-duration treatment

- max. 12 cycles

CRS mitigation:

- obinutuzumab pretreatment (1 x 1000mg)
- C1 step-up dosing
- monitoring after first dose (2.5mg)



Endpoints

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

*by PET-CT (Lugano criteria¹); [†]by IRC and investigator. BCL, B-cell lymphoma; FL, follicular lymphoma; Gpt, obinutuzumab pretreatment; HGBCL, high-grade BCL; IRC, Independent Review Committee; NOS, not otherwise specified; PMBCL, primary mediastinal large BCL.

Baseline characteristics

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

n (%)*	N=154
Median no. of prior lines, n (range)	3 (2–7)
2 prior lines	62 (40.3)
≥3 prior lines	92 (59.7)
Prior anti-CD20 Ab	154 (100.0)
Prior anthracycline	149 (96.8)
Prior CAR-T	51 (33.1)
Prior ASCT	28 (18.2)
Refractory to any prior therapy	139 (90.3)
Refractory to last prior therapy	132 (85.7)
Primary refractory	90 (58.4)
Refractory to prior CAR-T	46 (29.9)
Refractory to any prior anti-CD20	128 (83.1)

Heavily pre-treated, highly refractory population

Clinical cut-off date: March 14, 2022; *unless otherwise specified; [†]safety-evaluable population (all treated patients);
[‡]ECOG PS 2, n=1 (0.6%); Ab, antibody; ASCT, autologous stem cell transplant; trFL, transformed follicular lymphoma.

Response rates – primary endpoint met

Efficacy endpoint ¹	Glofitamab 2.5/10/30mg (n=155)
CR rate*	61 (39.4%) [95% CI: 31.6%, 47.5%]
ORR*	80 (51.6%) [95% CI: 43.5%, 59.7%]

- Median duration of follow-up: 12.6 months (range: 0–22)
- Responses were achieved early: median time to first CR was 42 days (95% CI: 42, 44)

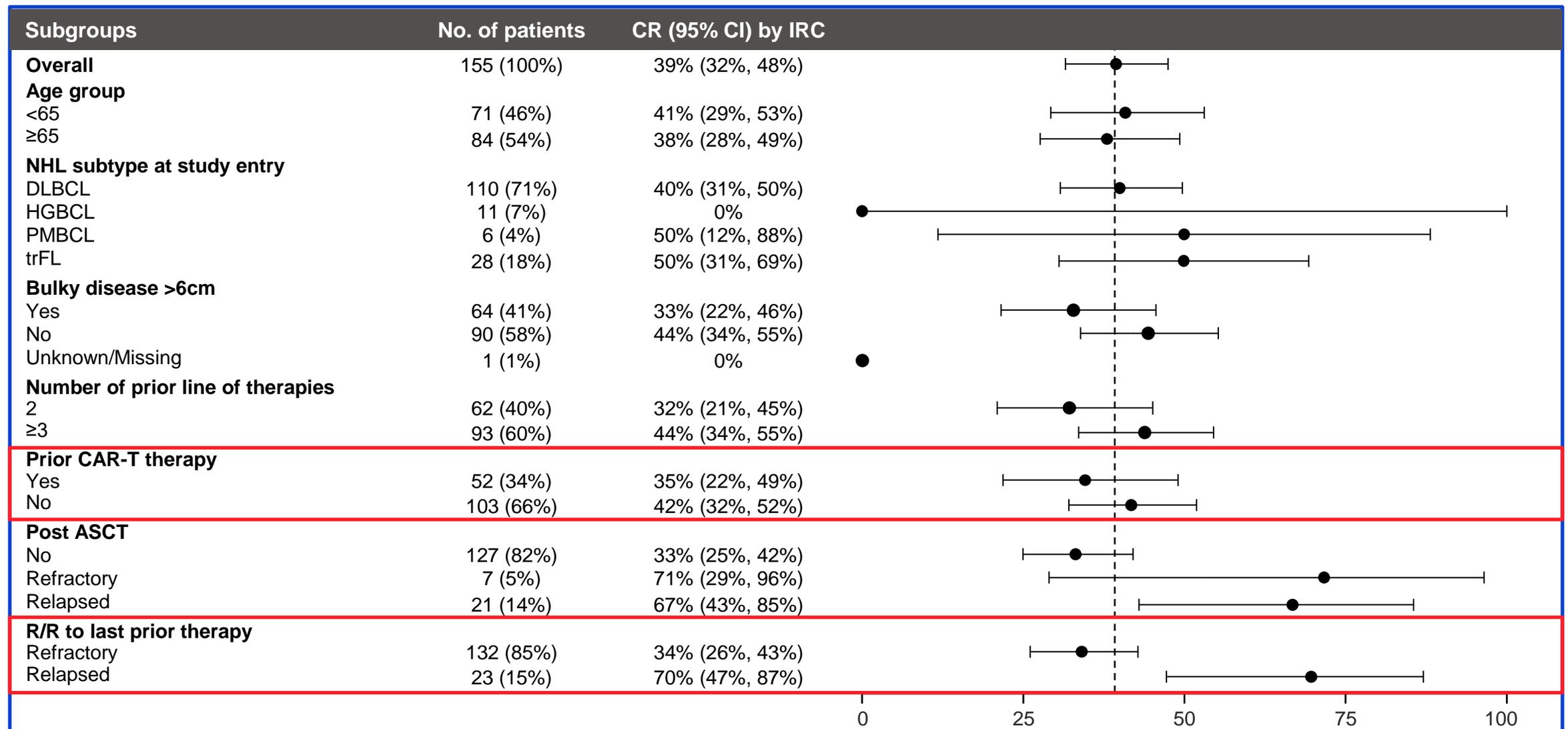
– At time of primary analysis, primary endpoint met in the primary efficacy population (n=108)[†]: 35.2% CR rate by IRC significantly greater (p<0.0001) than 20% historical control CR rate[‡]

High CR/ORR rate at RP2D

*best response by intent-to-treat population; [†]the pivotal expansion cohort population; [‡]the historical control CR rate was pre-specified based on a meta-analysis in patients with R/R DLBCL (where most [≥50%] had received ≥2 prior therapies) and compared with the CR rate in the primary efficacy-evaluable population using an exact binomial test (2-sided alpha level: 5%).

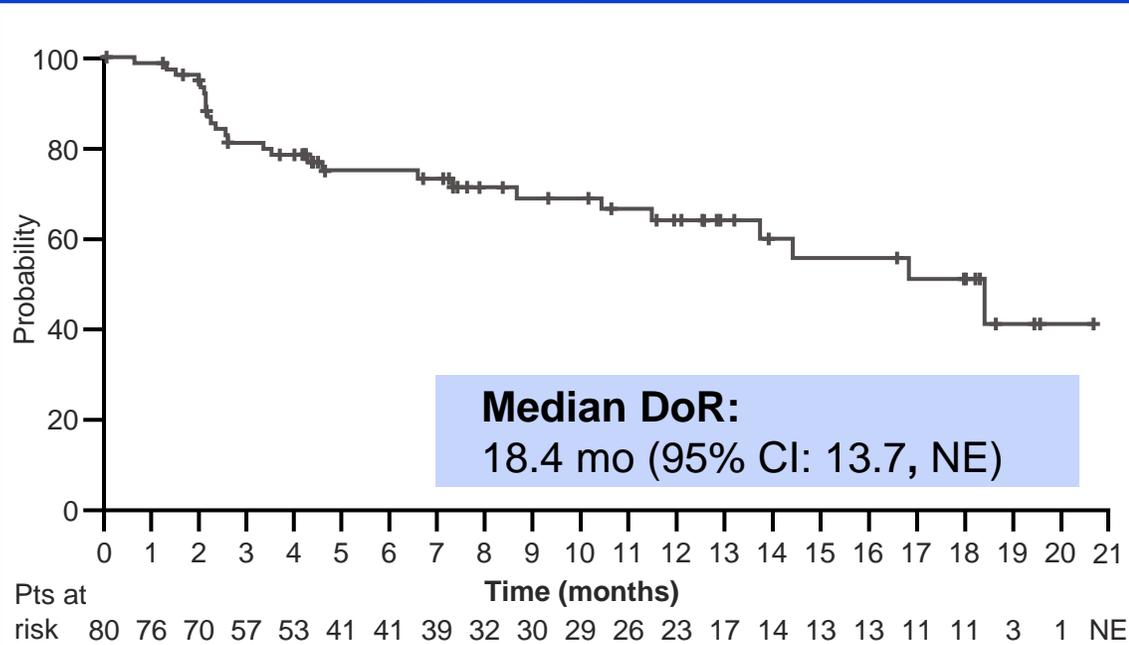
Complete response rates by IRC in pre-specified subgroups

Dickinson M, et al. EHA 2022 oral presentation

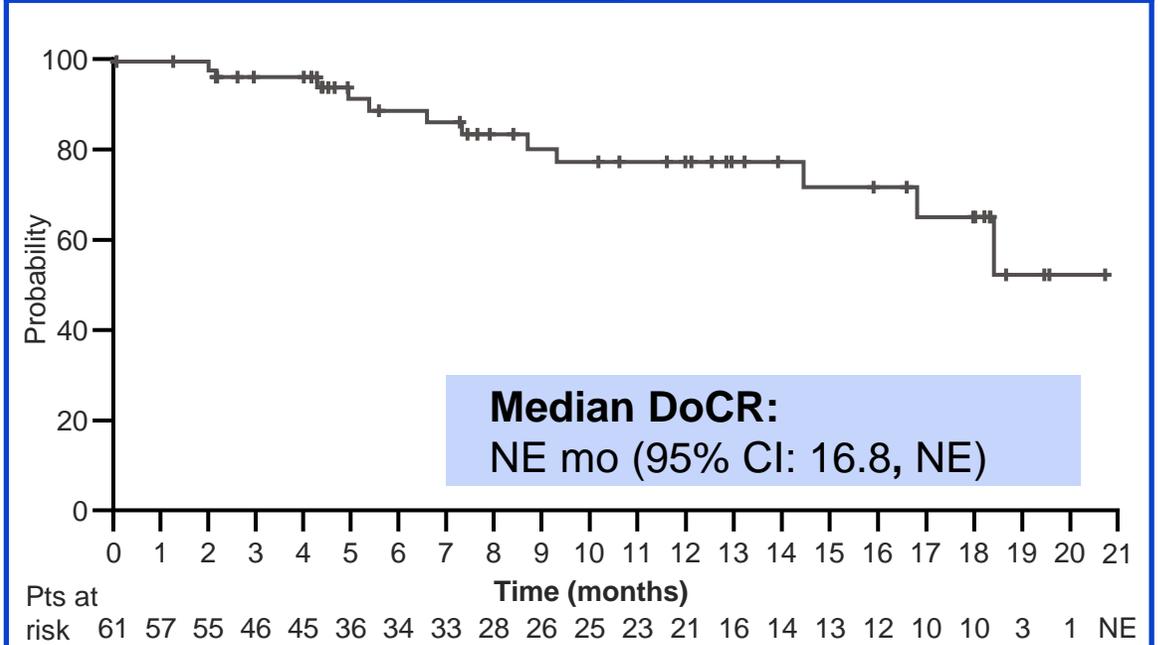


Durable responses maintained after cessation of therapy

Duration of overall response by IRC



Duration of complete response by IRC



	N=80
Median DoR follow-up, mo (range)	10.6 (0–21)
12-months DoR, % (95% CI)	63.6 (51.1, 76.2)
ORs ongoing at CCOD, n (%)	53 (66.3)

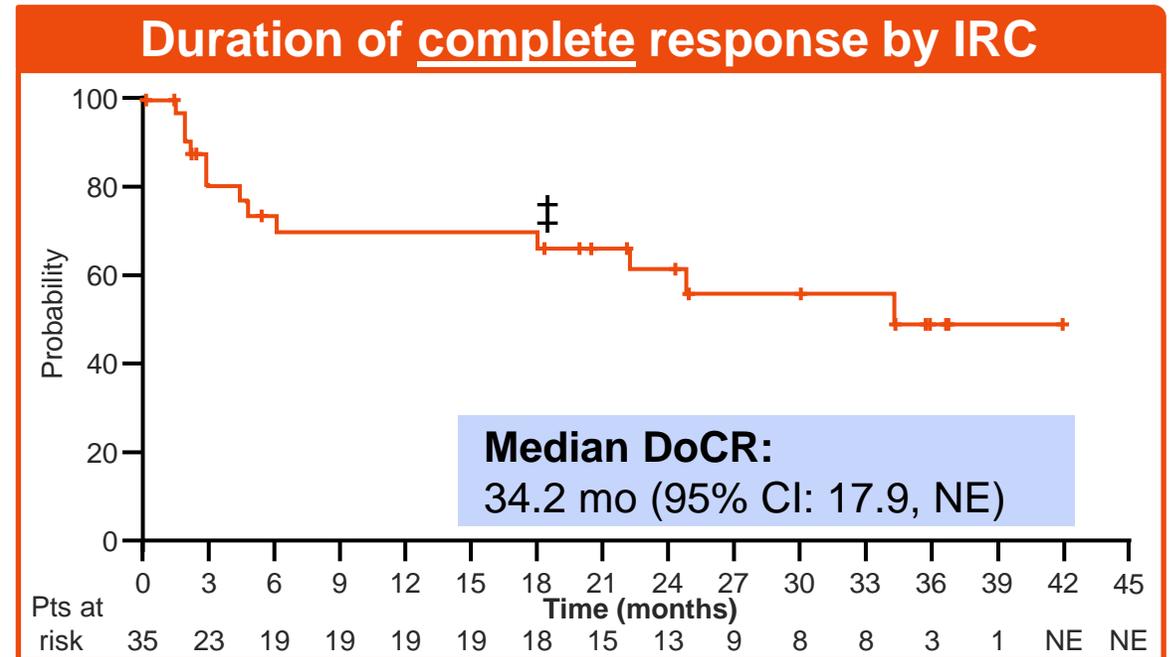
	N=61
Median DoCR follow-up, mo (range)	10.6 (0–21)
12-months DoCR, % (95% CI)	77.6 (64.3, 90.8)
CRs ongoing at CCOD, n (%)	49 (80.3)

CCOD, clinical cut-off date; mo, months; NE, not estimable.

DoCR in earlier cohorts show durable responses beyond 24 months

Supporting cohort

- Patients in earlier cohorts have extended follow up for duration of response
 - R/R DLBCL, HGBCL, trFL and PMBCL ≥2 prior lines (n=101)
 - Doses ≥10mg* (RP2D not included) for a fixed treatment duration of 8–12 cycles (6–9 months)
 - CR rate: 35/101 (35%)[†]



N=35	
Median DoCR follow-up, mo (range)	24.8 (0, 42)
24-months DoCR, % (95% CI)	61.4 (43.1, 79.7)
CRs ongoing at CCOD, n (%)	22 (62.9)

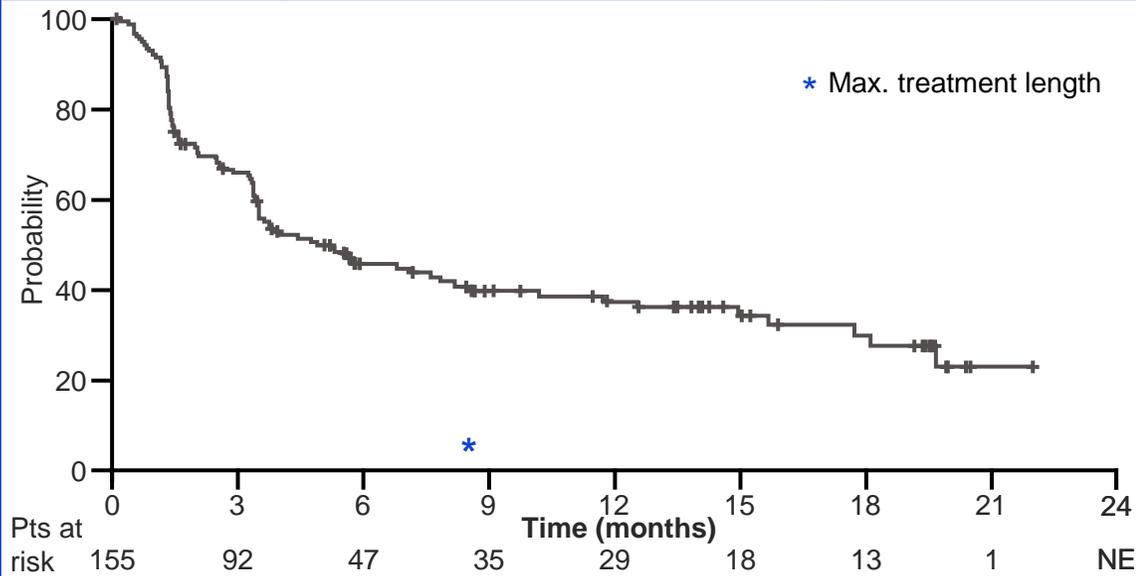
Durable responses beyond 24 months achieved after fixed-duration treatment; median: 34.2 months

*10mg, 16mg, 25mg, 10/16mg, 2.5/10/16mg; [†]intent-to-treat population; RP2D, recommended Phase II dose;

[‡]DOCR: 17.9 months PD, 22.1 months PD re-treatment (remission), 24.7 months death (unknown reason), 34.2 months death (AML).

Time-to-event endpoints

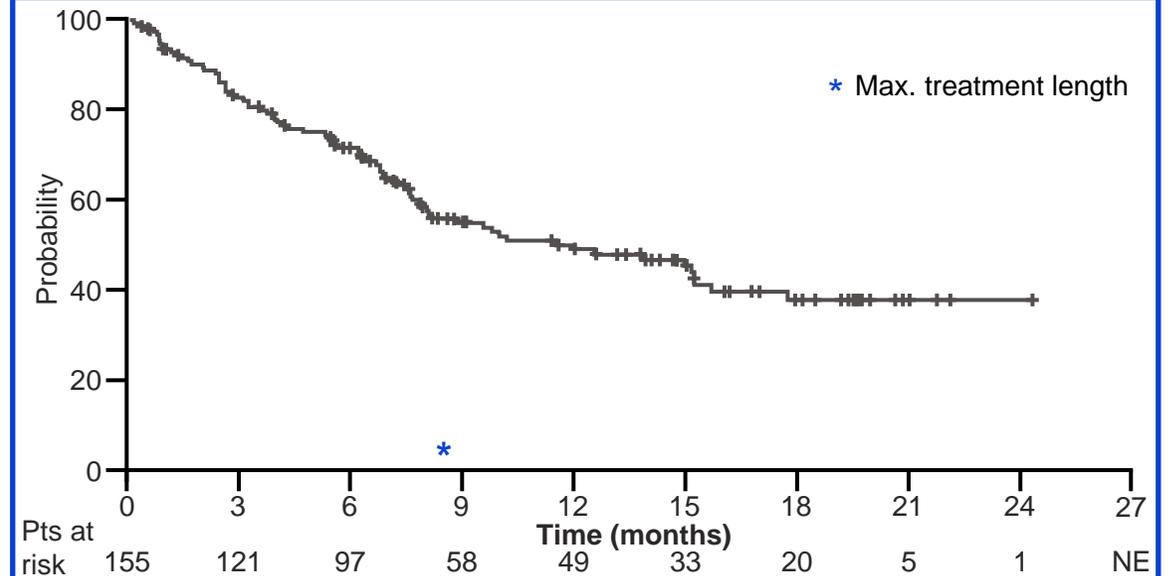
Progression-free survival by IRC



N=155

Median PFS follow-up, mo (range)	12.6 (0–22)
Median PFS, months (95% CI) [‡]	4.9 (3.4, 8.1)
6-month event-free rate, % (95% CI)	45.5 (37.2, 53.8)
12-month event-free rate, % (95% CI)	37.1 (28.5, 45.8)

Overall survival[†]



N=155

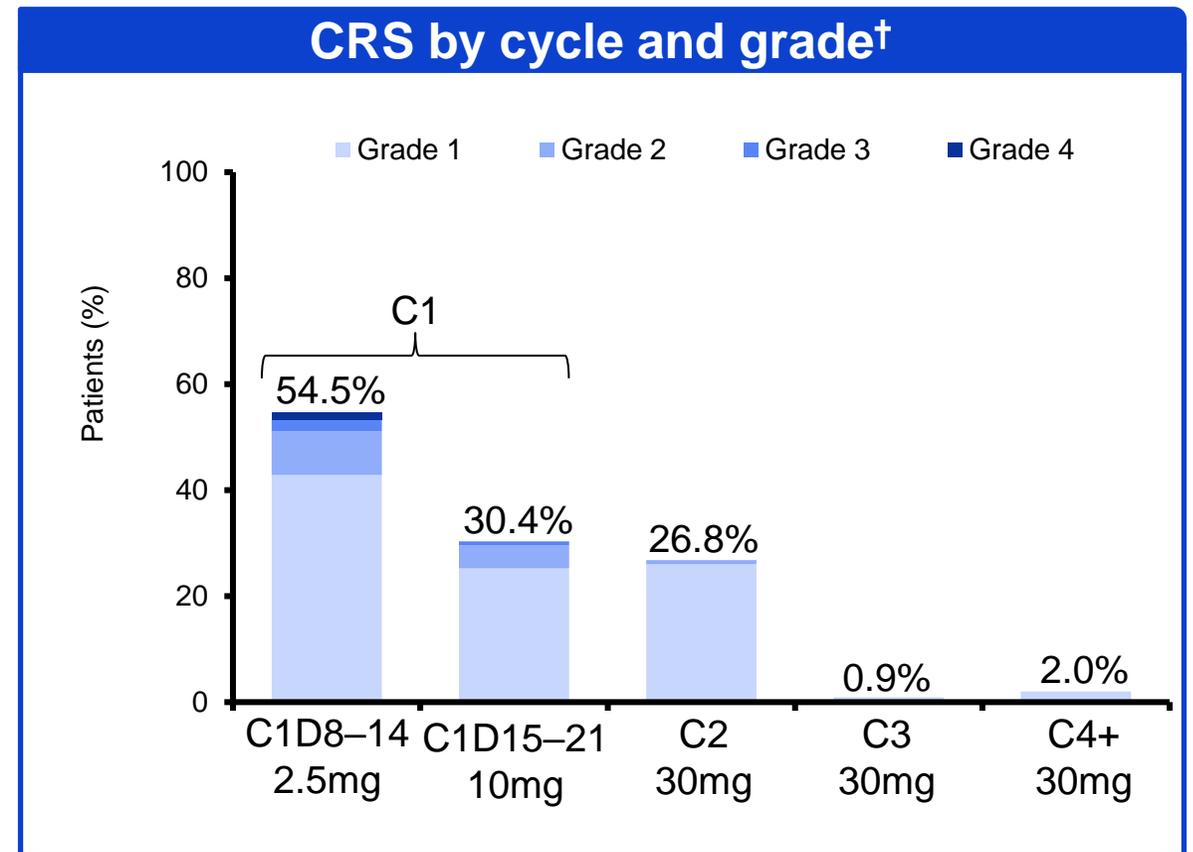
Median OS, months (95% CI) [‡]	11.5 (7.9, 15.7)
12-month OS rate, % (95% CI)	49.8 (41.1, 58.5)

Clinically significant freedom from progression at 12 months and long-term overall survival

[†]including five deaths due to COVID-19; [‡]KM estimates.

Cytokine release syndrome

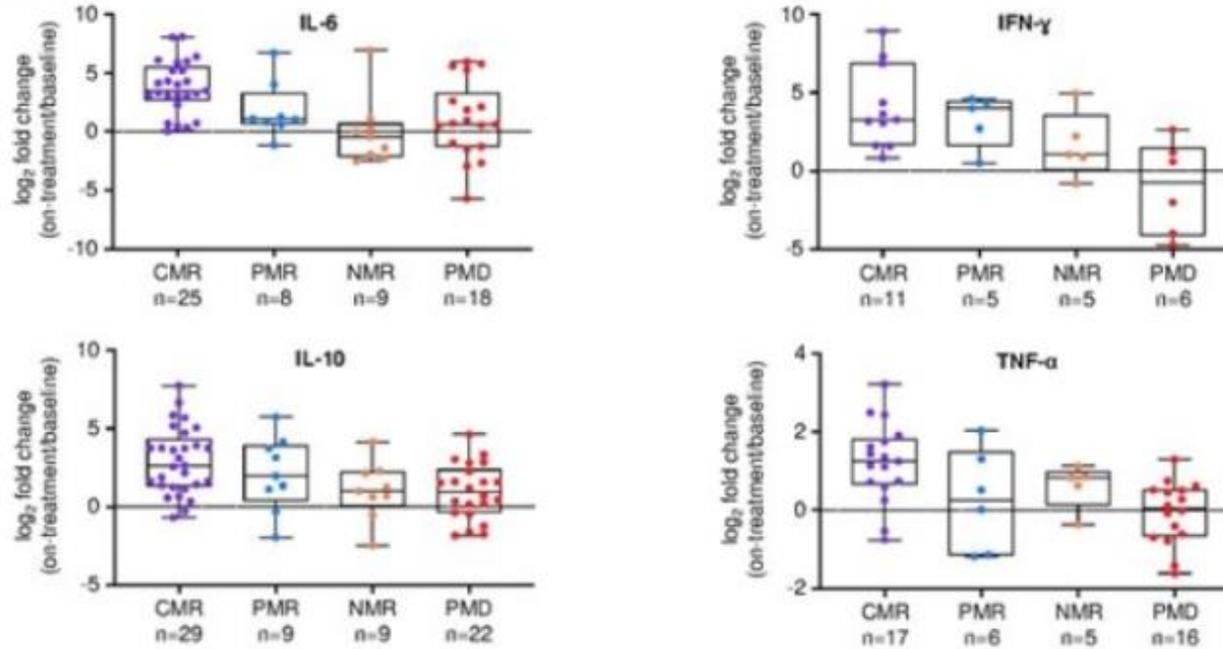
n (%)	N=154
CRS (any grade)*	97 (63.0)
Grade 1 (fever)	73 (47.4)
Grade 2	18 (11.7)
Grade 3	4 (2.6)
Grade 4	2 (1.3)
Median time to CRS onset from C1D8 dose, hours (range)	13.6 (6.2–51.8)
Corticosteroids for CRS management	27/97 (27.8)
Tocilizumab for CRS management	31/97 (32.0)



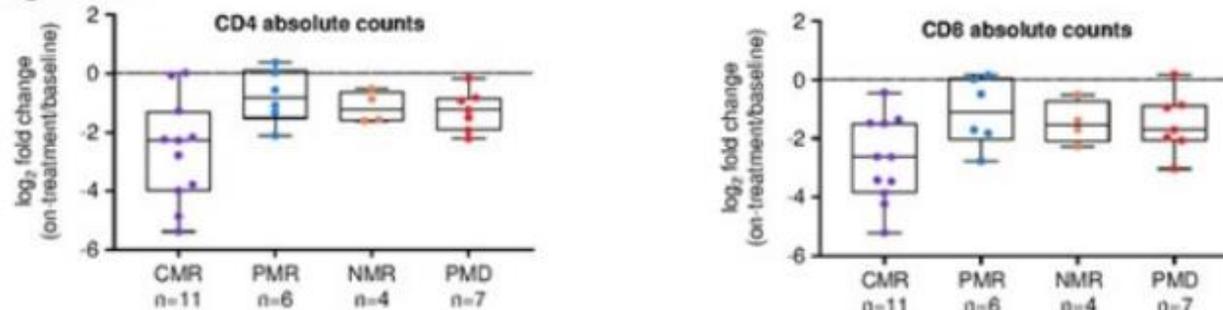
CRS was mostly low grade, time of onset was predictable, and most events occurred during C1

Immune correlates of response to glofitamab: Biomarker findings from the Ph 2 expansion study in patients with R/R DLBCL

(A) Cytokines

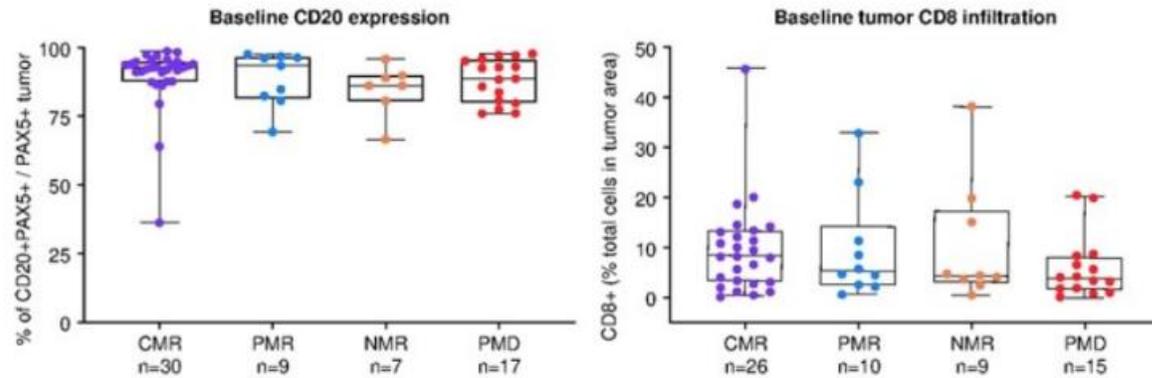


(B) T-cell margination

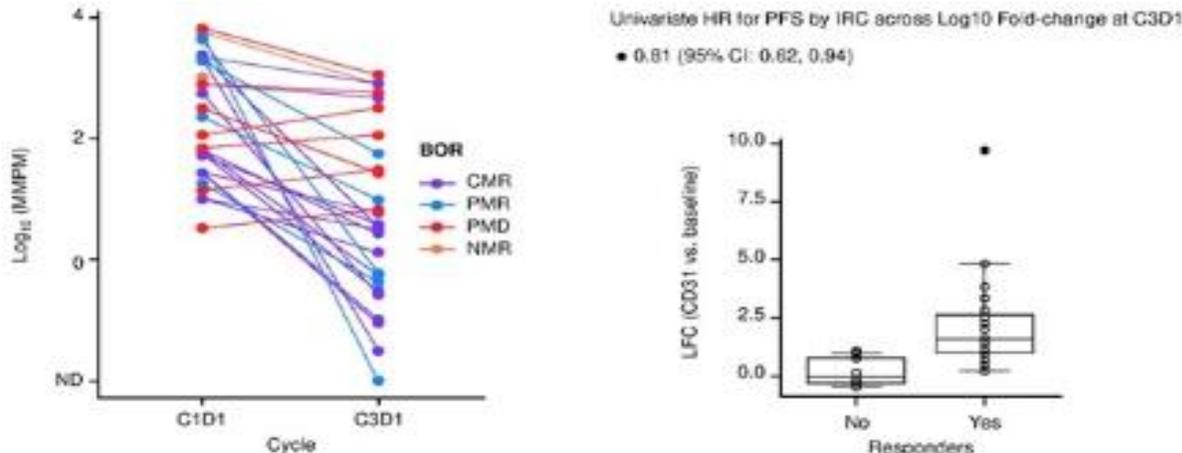


Immune correlates of response to glofitamab: Biomarker findings from the Ph 2 expansion study in patients with R/R DLBCL

Association of baseline tissue biomarkers with response to glofitamab



Association between ctDNA reduction and response to glofitamab



Key findings (N=107)

- Higher CD8+ T cells in CMR patients
- Responders have higher TME score
- Novel biomarkers identified in PB responders:
 - Higher baseline B cell
 - CD4 cell
 - CD4 EM cell
- Novel biomarkers identified in progressors:
 - PD1 expression on CD8 cells
- ctDNA in R/R DLBCL has prognostic value (consistent with Pola, CAR-T)

Combination studies

Epcoritamab + GemOx in transplant-ineligible R/R DLBCL patients: High response rate even in pts failing CAR-T therapy

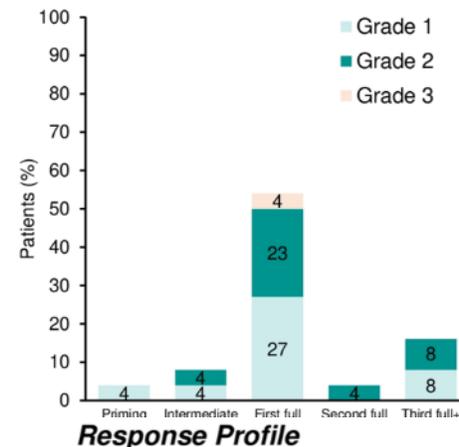
Follow-Up and Patient Disposition

	Total N=26
Median follow-up, mo (range) ^a	9.2 (1–15)
Ongoing treatment, n (%)	11 (42)
Discontinued treatment, n (%)	15 (58)
PD	6 (23)
AE ^b	5 (19)
Death ^c	3 (12)
Withdrawal by patient	1 (4)

CRS Graded by Lee et al¹⁰ 2019 Criteria

Criteria	Total N=26
CRS, n (%)	18 (69)
Grade 1	7 (27)
Grade 2	10 (38)
Grade 3	1 (4)
CRS resolution, n (%)	18 (100)
Median time to resolution, d (range) ^a	2 (1–9)
CRS leading to treatment discontinuation, n (%)	0
Tocilizumab use, n (%)	5 (19)

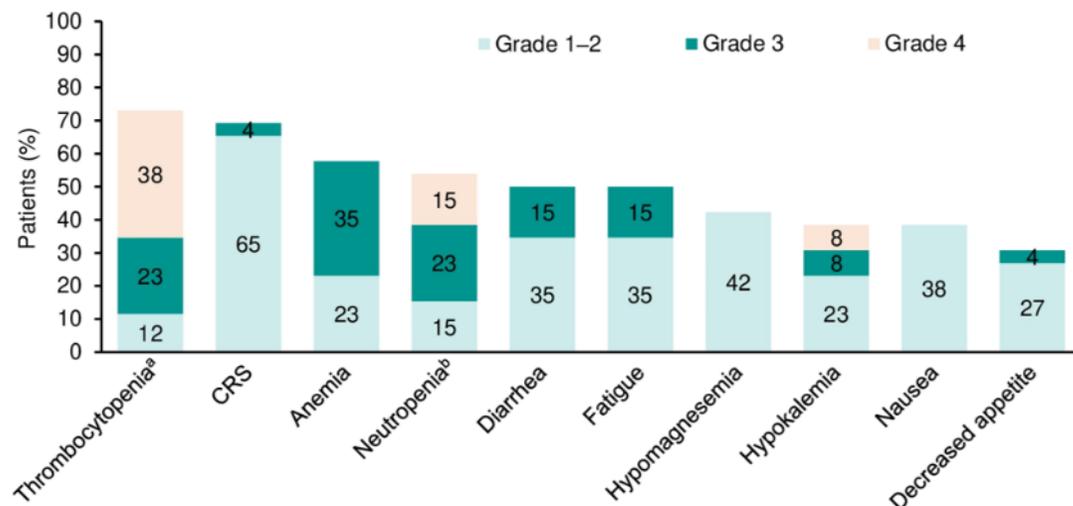
CRS Events by Dosing Period



Best Overall Responses

Response, n (%) ^a	Total n=25
Overall response	23 (92)
CMR	15 (60)
PMR	8 (32)
Stable disease	0
Progressive disease	0
No response assessment ^b	2 (8)

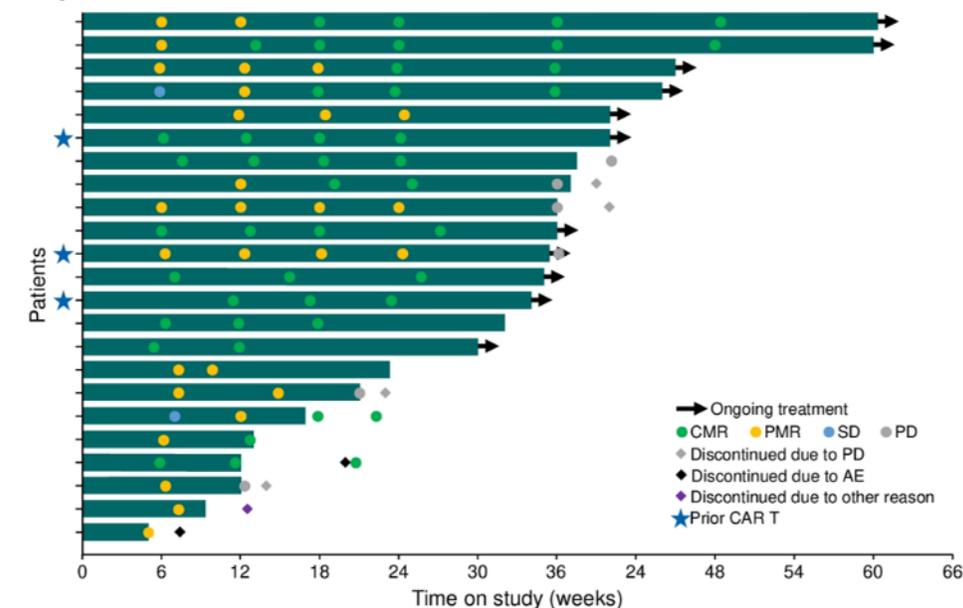
Treatment-Emergent Adverse Events (≥30%) by Grade



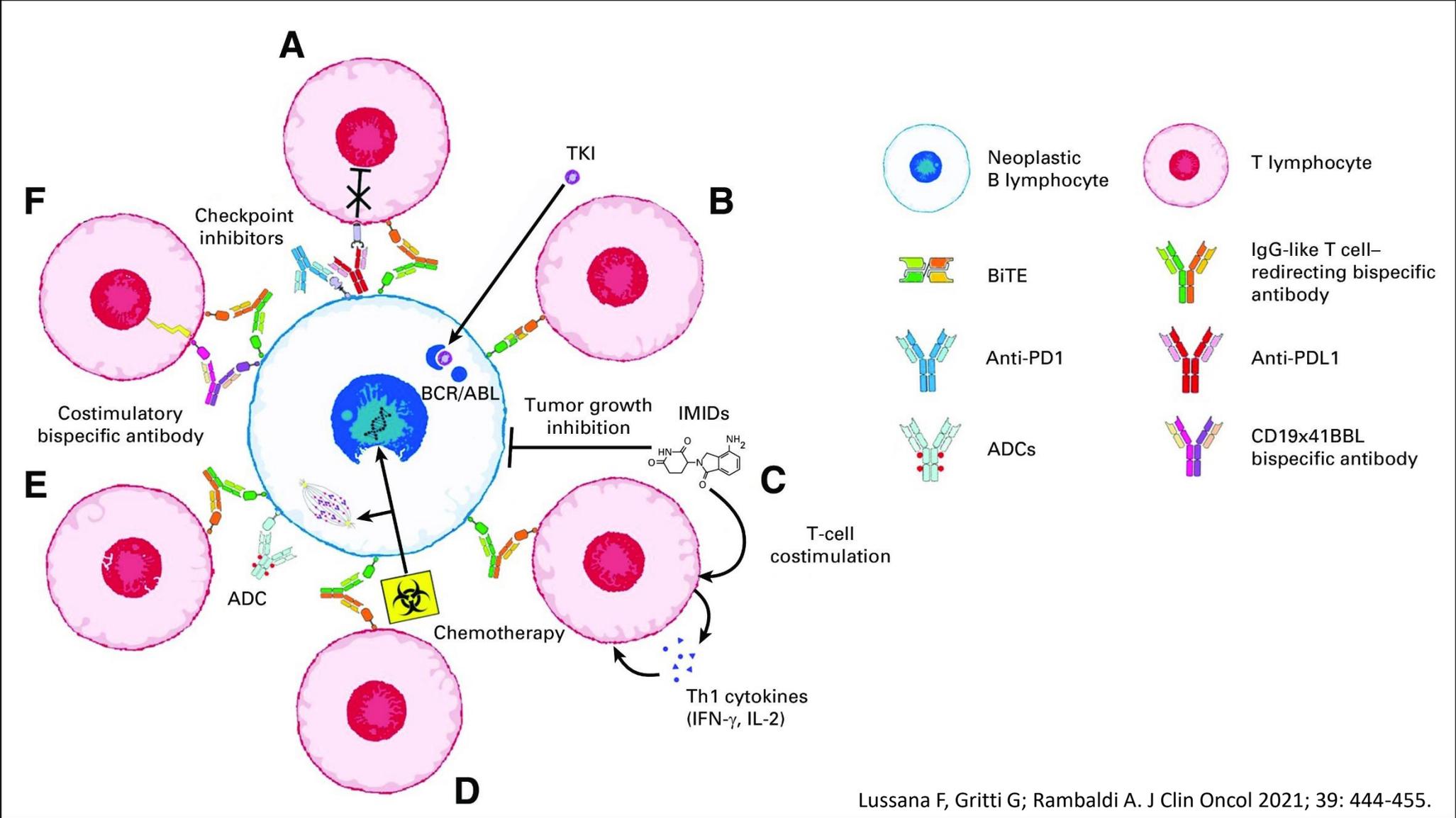
Key Results (N=26)

- One pt had ICANS (Gr3); one pts febrile neutropenia (Gr3)
- Infection rate: 62% any grade; 31% Gr3
- No TLS events
- Seven pts Gr 5 AEs; 2 related to Epcor
- CRS mostly low grade, all events resolved; occurrence was predictable

Response Profile

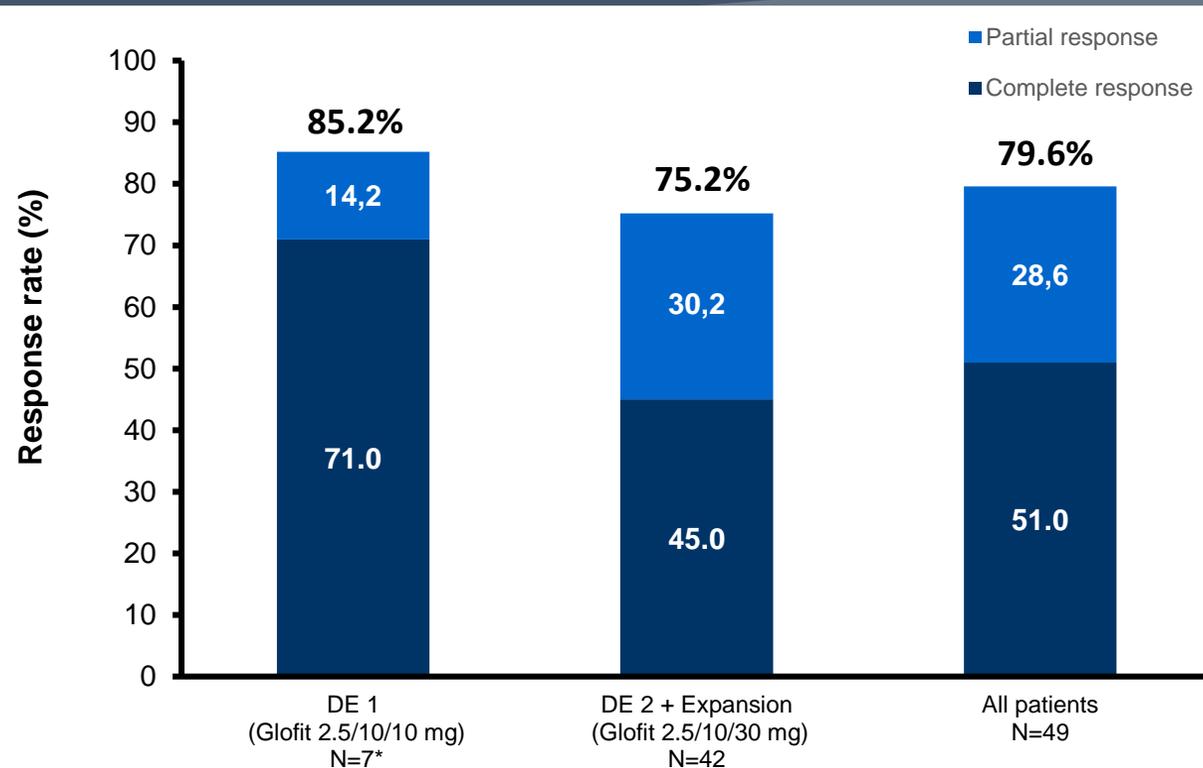


How to get deeper and more durable responses?



NP39488: Glofitamab and Polatuzumab vedotin in DLBCL

Response rate by Glofit + Pola dosing cohort



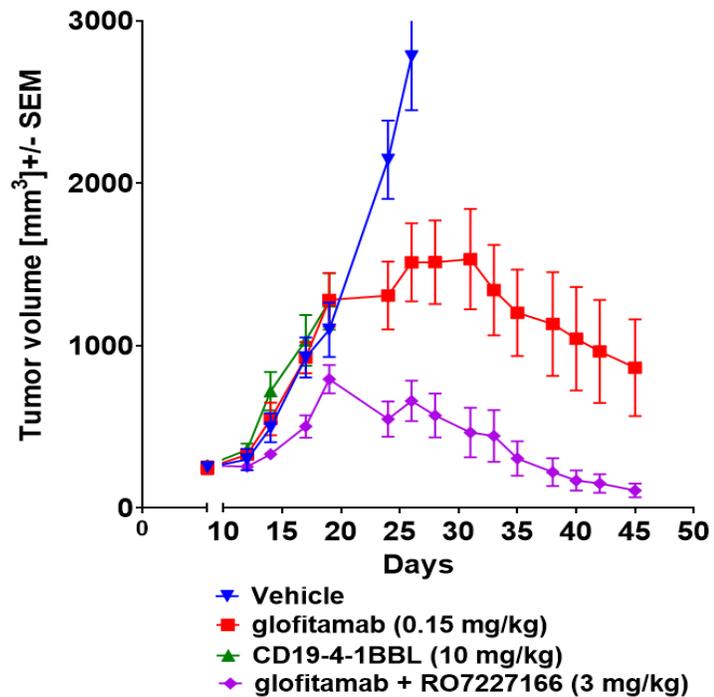
- 49/59 patients were evaluable for interim response
- 7/49 (14.3%) patients had PD as best response and discontinued study treatment
- Encouraging ORR and CR rates in patients with:
 - trFL: ORR, 8/11 and CR, 7/11
 - HGBCL: ORR, 5/8 and CR, 4/8

- **Glofit + Pola combination resulted in high response rates**

BP41072: Glofitamab + CD19-targeted 4-1BBL agonist

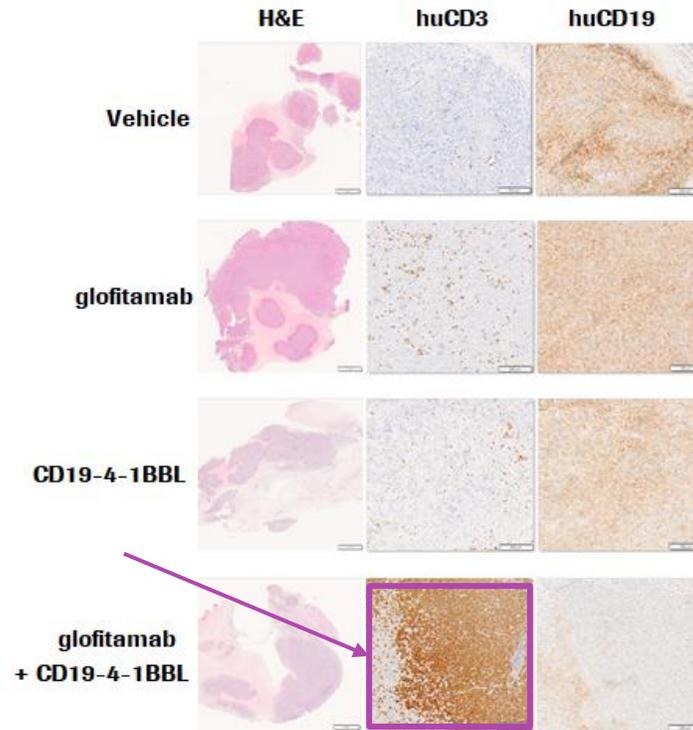
CD19 4-1BBL plus glofitamab is superior to glofitamab single-agent in vivo

Improved tumor growth inhibition

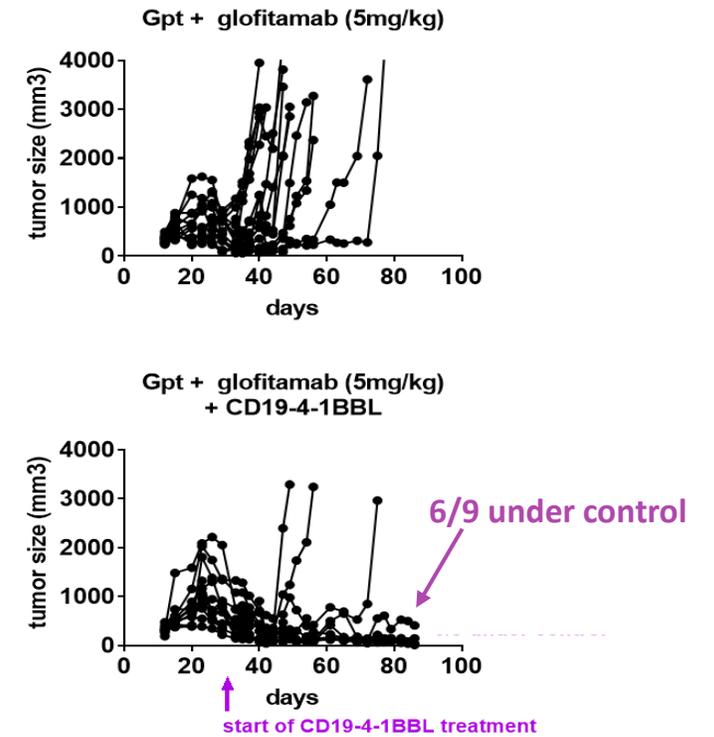


WSU DLCL2 s.c. in humanized mice

Significantly enhanced T cell infiltration



Prevention of tumor outgrowth during glofitamab monotherapy

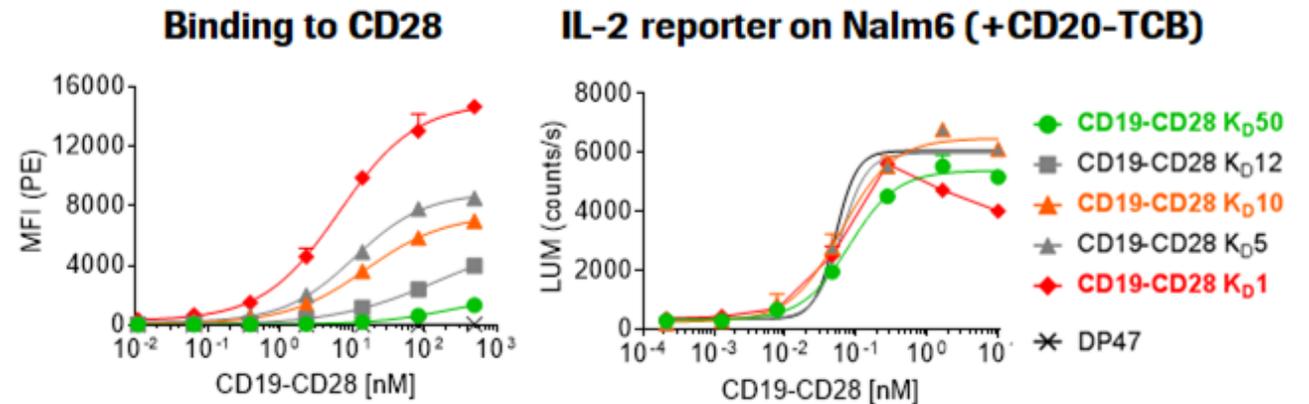
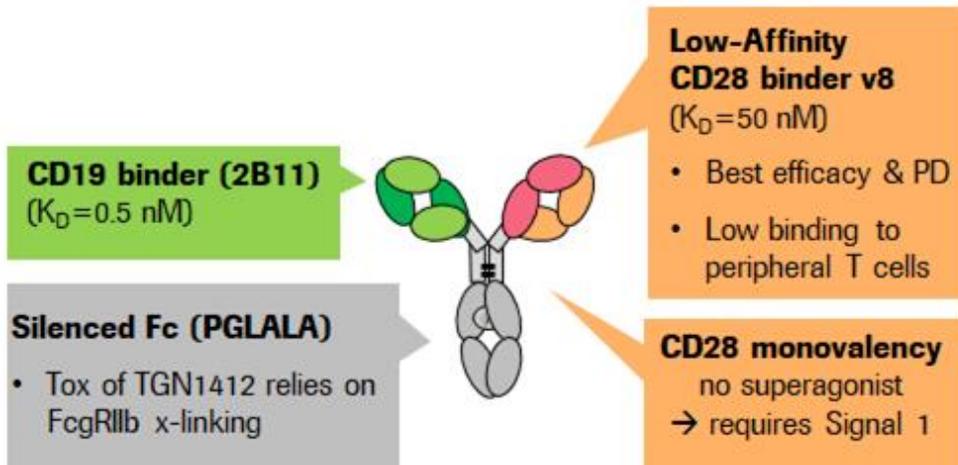


OCILY18 s.c. in humanized mice

BP43131: Glofitamab + CD19-targeted CD28 agonist

Providing safe agonistic CD28 targeting
w/o autonomous T cell activation

Reduce peripheral binding to
CD28 w/o losing potency



Conclusions

- The CD3/CD20 bispecific antibodies show an antitumor activity which is unprecedented in heavily pretreated r/r B-NHL
- EHA 2022 data from DLBCL phase 2 expansion cohorts (35-40% with prior CAR-T):
 - Glofitamab: ORR 52%, CRR 39%
 - Epcoritamab: ORR 63%, CRR 39%
- The toxicity profile is favourable:
 - Very little CRS > grade 2
 - Very little treatment-related CNS toxicity
- CRS is highly predictable and almost always confined to the cycle 1
- The toxicity profile and mechanism of action make the bispecifics ideal for combination strategies

Acknowledgements

- Patients and their families
- Research nurses and study coordinators
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