

LBCL: algoritmo di trattamento

Antonello Pinto

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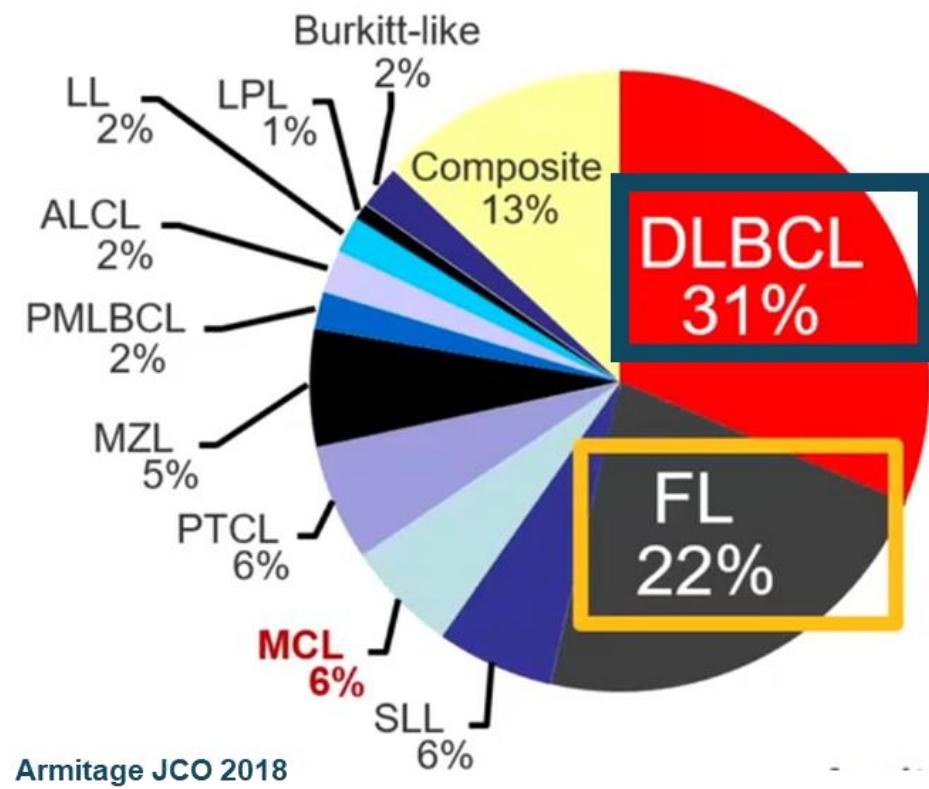
CAR-T: e la storia continua... migliorando

Roma, 9 Aprile 2025
Starhotels Metropole

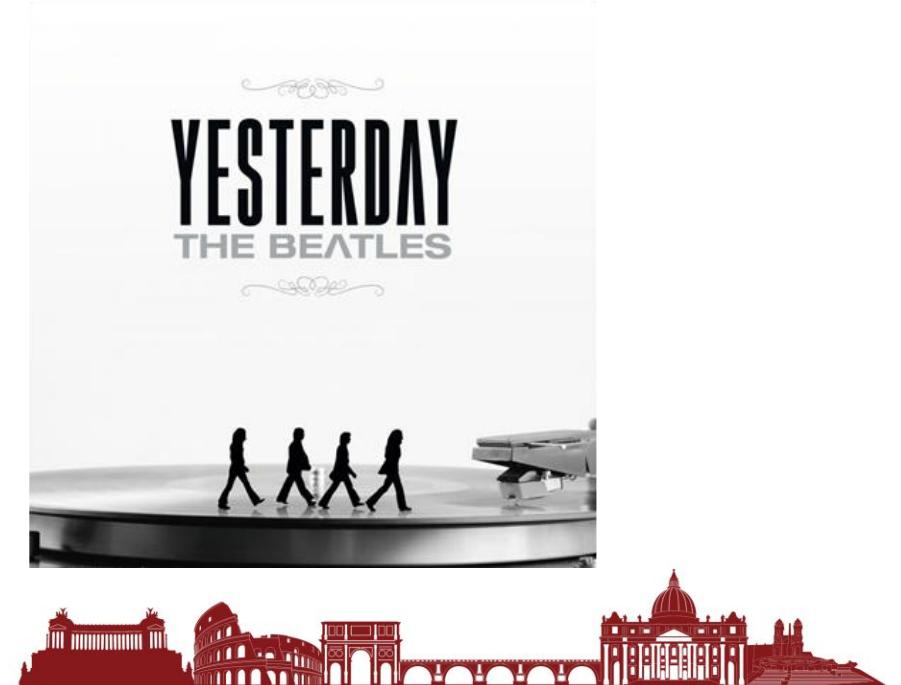
Disclosures for Antonello Pinto

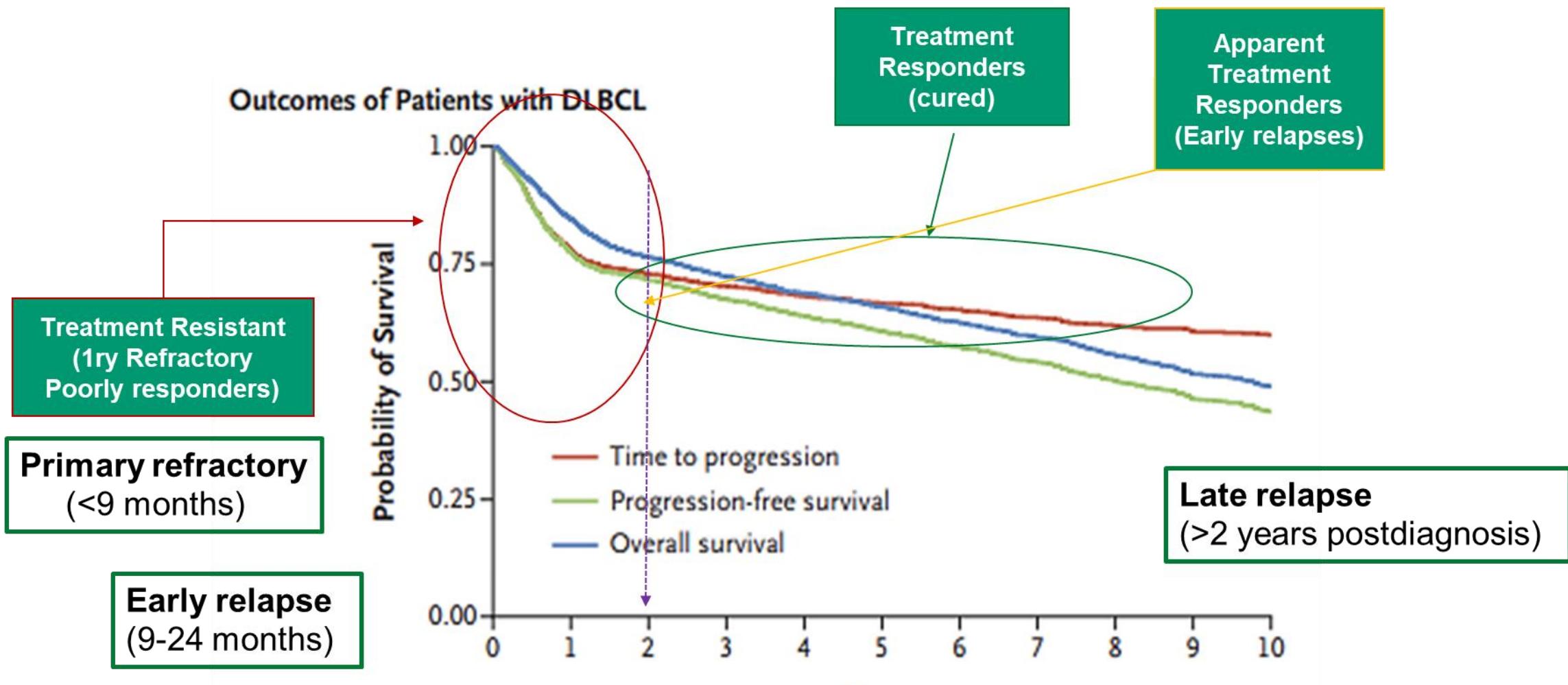
Company name	Research support	Employee	Consultant	Stockholder	Speakers bureau	Advisory board	Other
Roche			X		X	X	
BMS						X	
Eli Lilly			X		X	X	
Beigene						X	
SOBI					X	X	
MSD						X	
Autolus Ther.				X			
IGM BioSci.				X			
Incyte			X		X		
Takeda						X	
Abbvie					X		





Yesterday, love was
such an easy game to
play...





Sehn LH and Salles G, NEJM

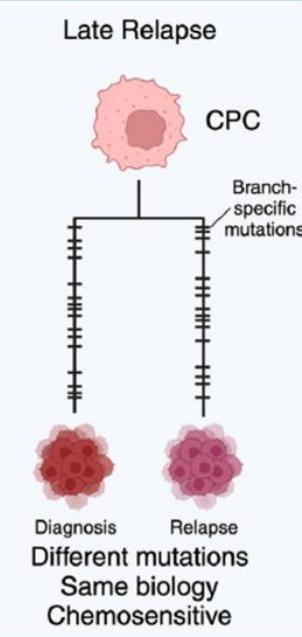
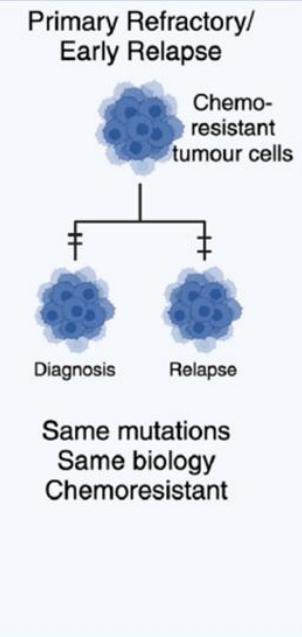
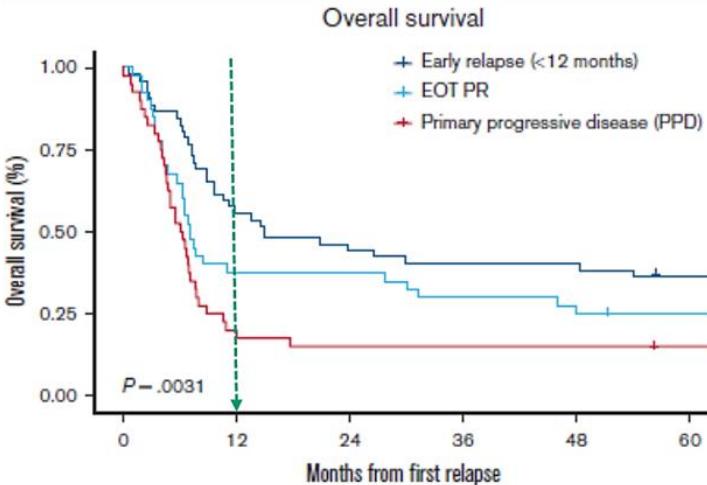
Hilton LK, et al. J Clin Oncol 2023; 41:4164



Redefining Primary Refractoriness: to what ? (R-CHOP)

Defining primary refractory large B-cell lymphoma

Key Points
• Patients with SD/PD to 1L therapy have lower responses to 2L therapy and poor OS compared with other subgroups of primary refractory disease.
• We advocate for the following definition of primary refractory LBCL: patients with SD or PD during, or by the end of, 1L treatment.



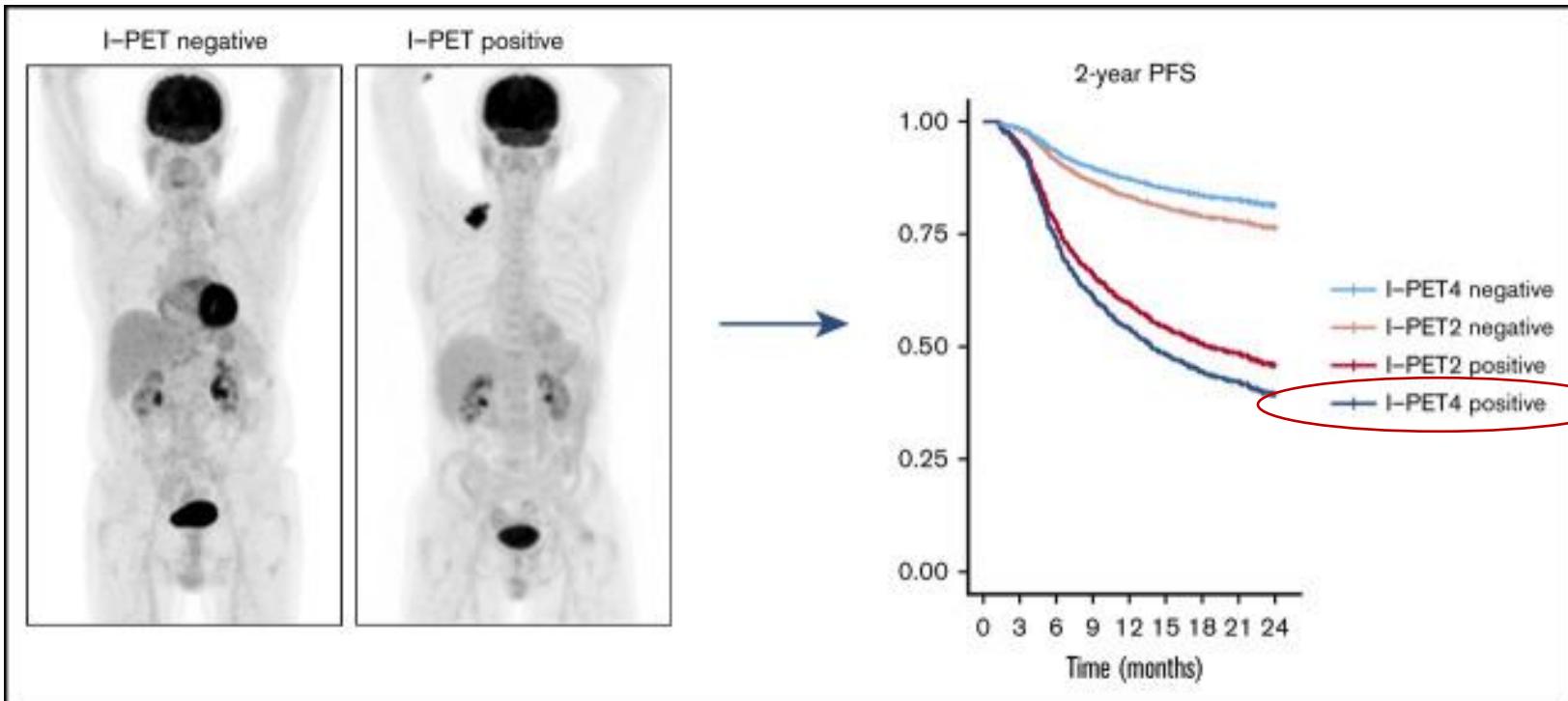
Hilton et al. (2023) Semin Hematol. 60(5):267

Patients with stable (SD) or progressive disease (PD) during or by the EOT are defined as "primary refractory LBCL". This is the group of patients with clear chemoresistance and most in need of better treatment options.

Patients with inadequate response or EOT PR (ie, PR as best response by EOT) and early relapse (ie, relapse within 12 months) have similar outcomes and may be better grouped as "early relapse"



Timing of response assessment



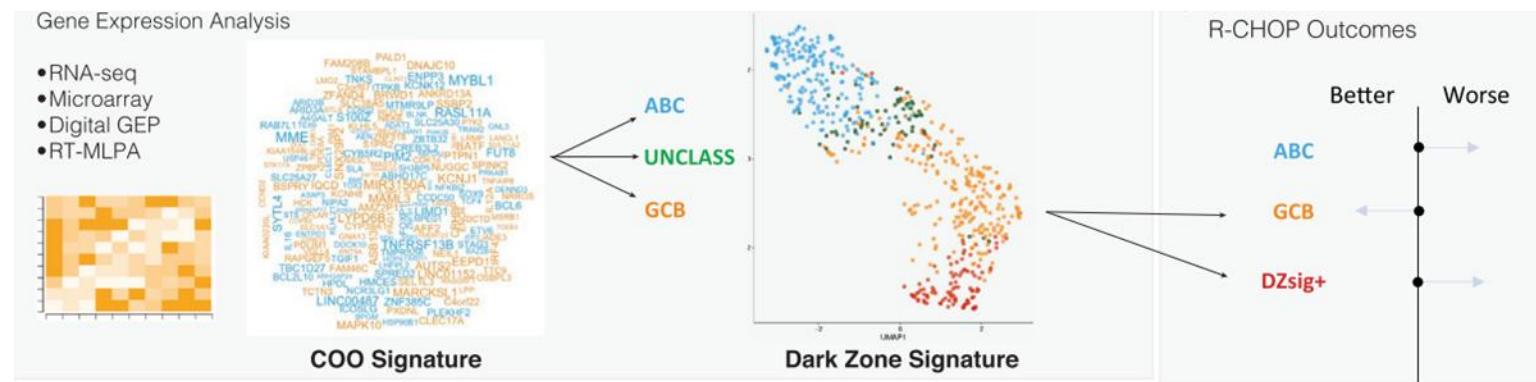
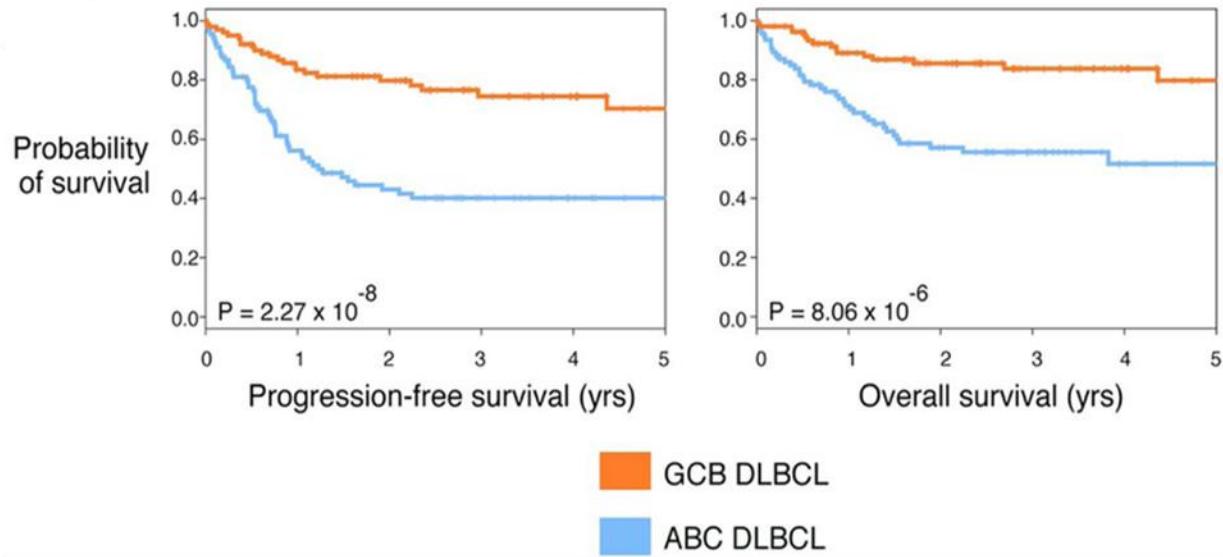
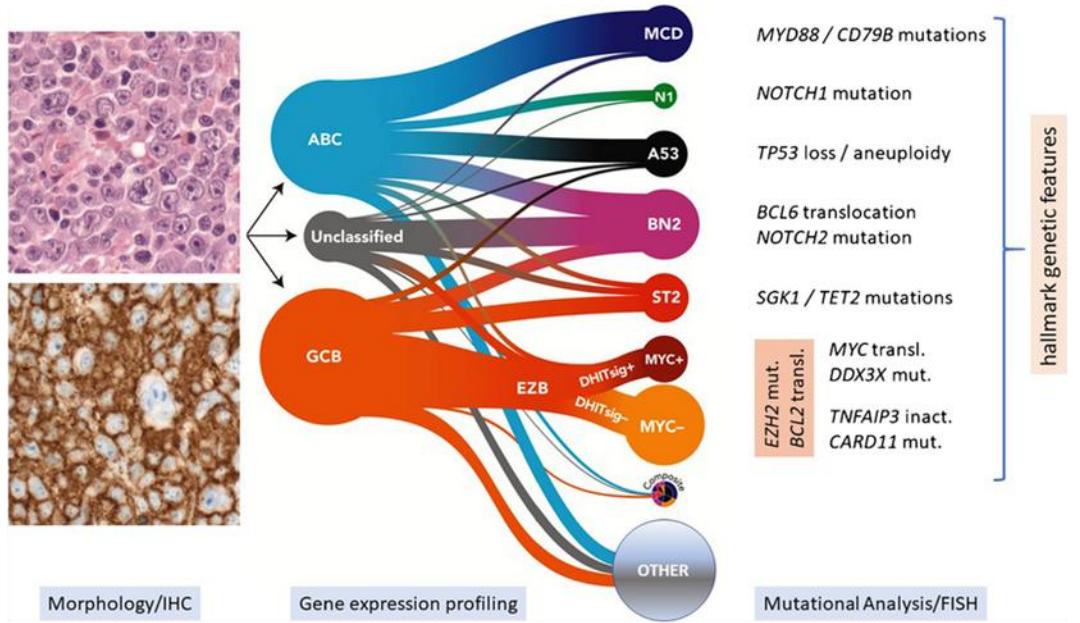
Eertink JJ et al. Optimal timing and criteria of interim PET in DLBCL: a comparative study of 1692 patients. *Blood Adv.* 2021;5(9):2375

Early activation of the CAR-T pathway
(eligible pts.)

Early activation of a non-chemotherapy
salvage pathway:

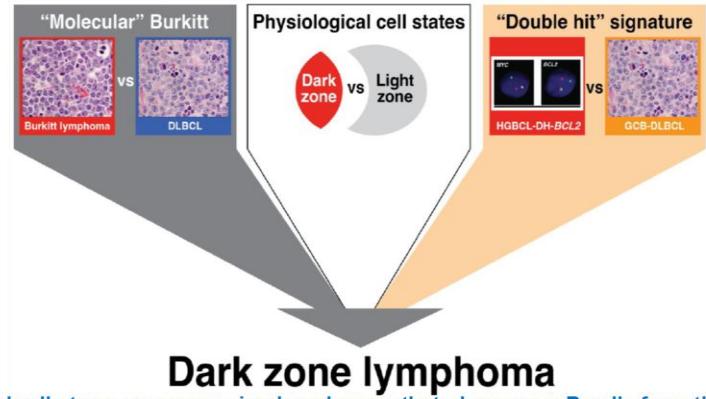
- a) Bispecifics (regulatory issues)
- b) Short-chemo (?) plus bispecifics
 - I. Stem cells collection
 - II. Deferred CAR-T pathway
 - III. ASCT
 - IV. Bispecifics-only salvage





He, M.Y., Kridel, R., *Leukemia* 35, 2151–2165 (2021)
 Hilton LK, Scott DW, Morin RD.; *Semin Hematol.* 2023;60(5):267-276.
 Dunleavy K, Grant C, Wilson WH.; *Ther Adv Hematol.* 2013;4(1):43-57

Dark zone lymphomas: converging evidence



An umbrella term encompassing lymphomas that phenocopy B cells from the germinal center dark zone

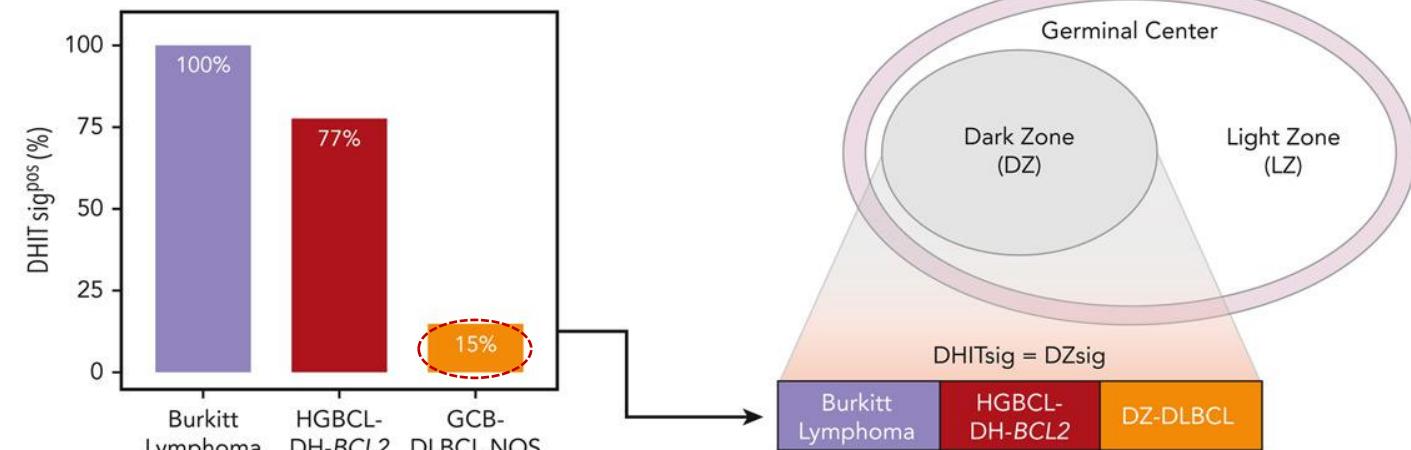
Defined ICC/WHO entities:

- All Burkitt lymphoma
- Most HGBCL-DH-BCL2 (“double hit”)

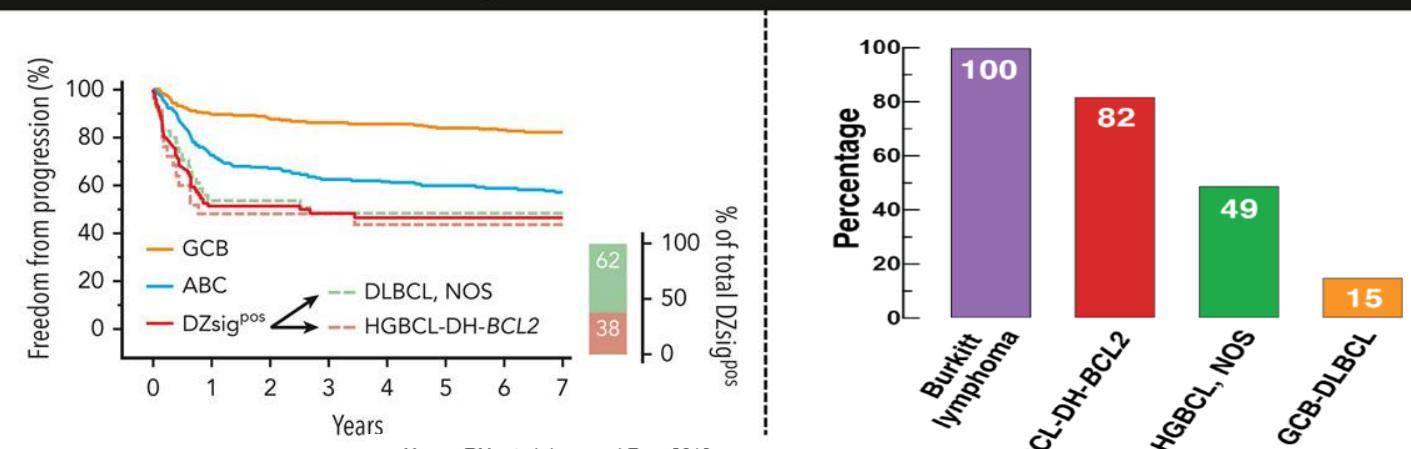
Not otherwise specified groups:

- Half of high-grade B-cell lymphoma, NOS
- 15% of GCB-DLBCL, NOS

1. DHITsig expression extends beyond HGBCL-DH-BCL2 to identify dark zone lymphomas, and was thus renamed the “dark zone signature” (DZsig)

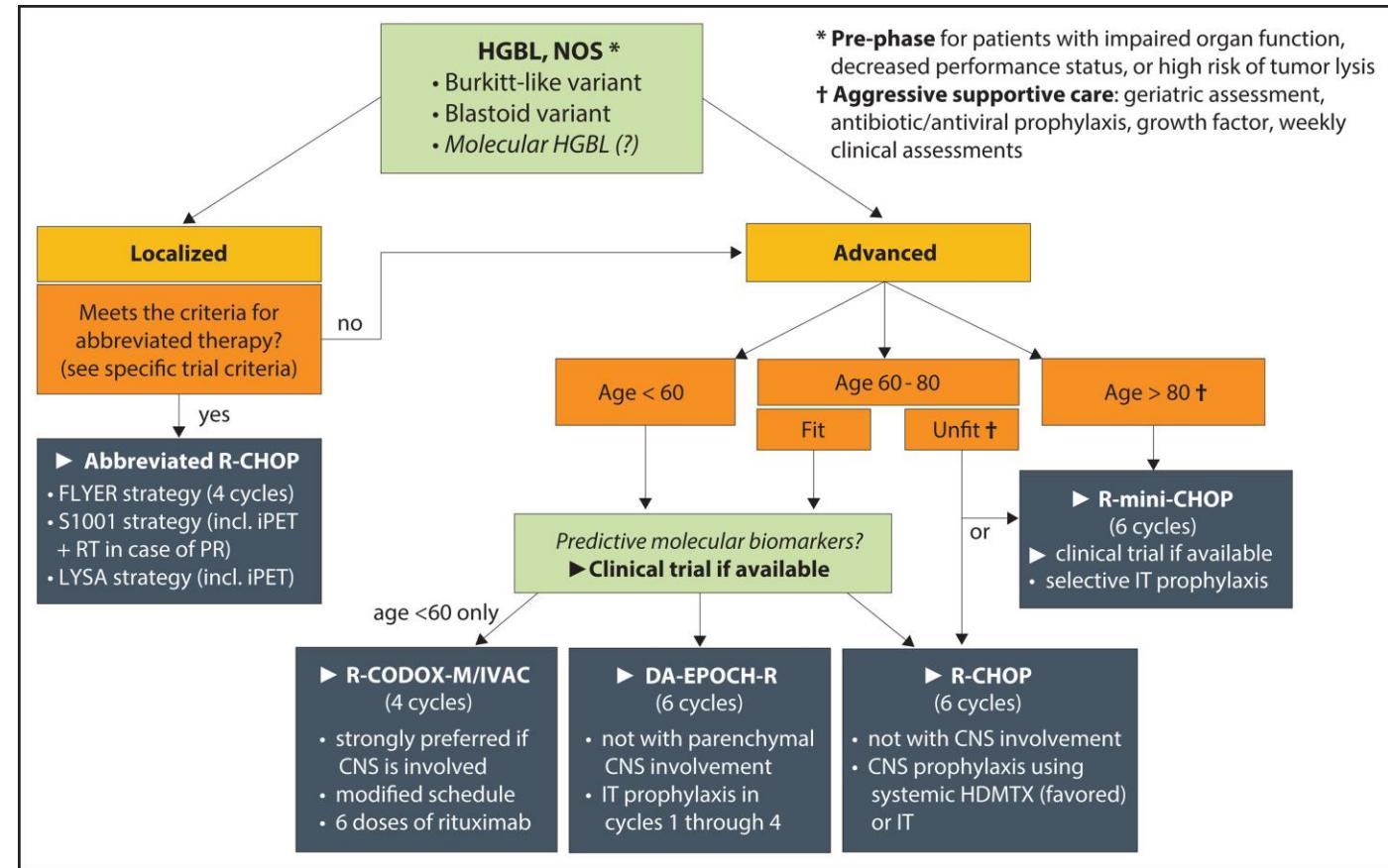
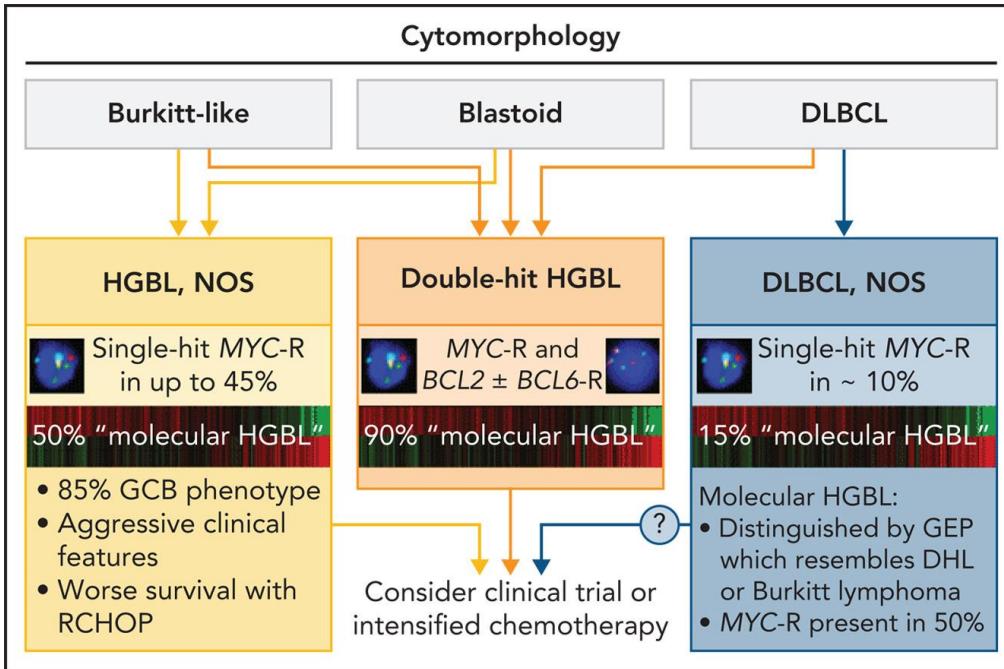


2. Among tumors of DLBCL morphology, gene expression profiling-defined molecular subgroups are associated with outcomes and diagnosis-to-treatment interval

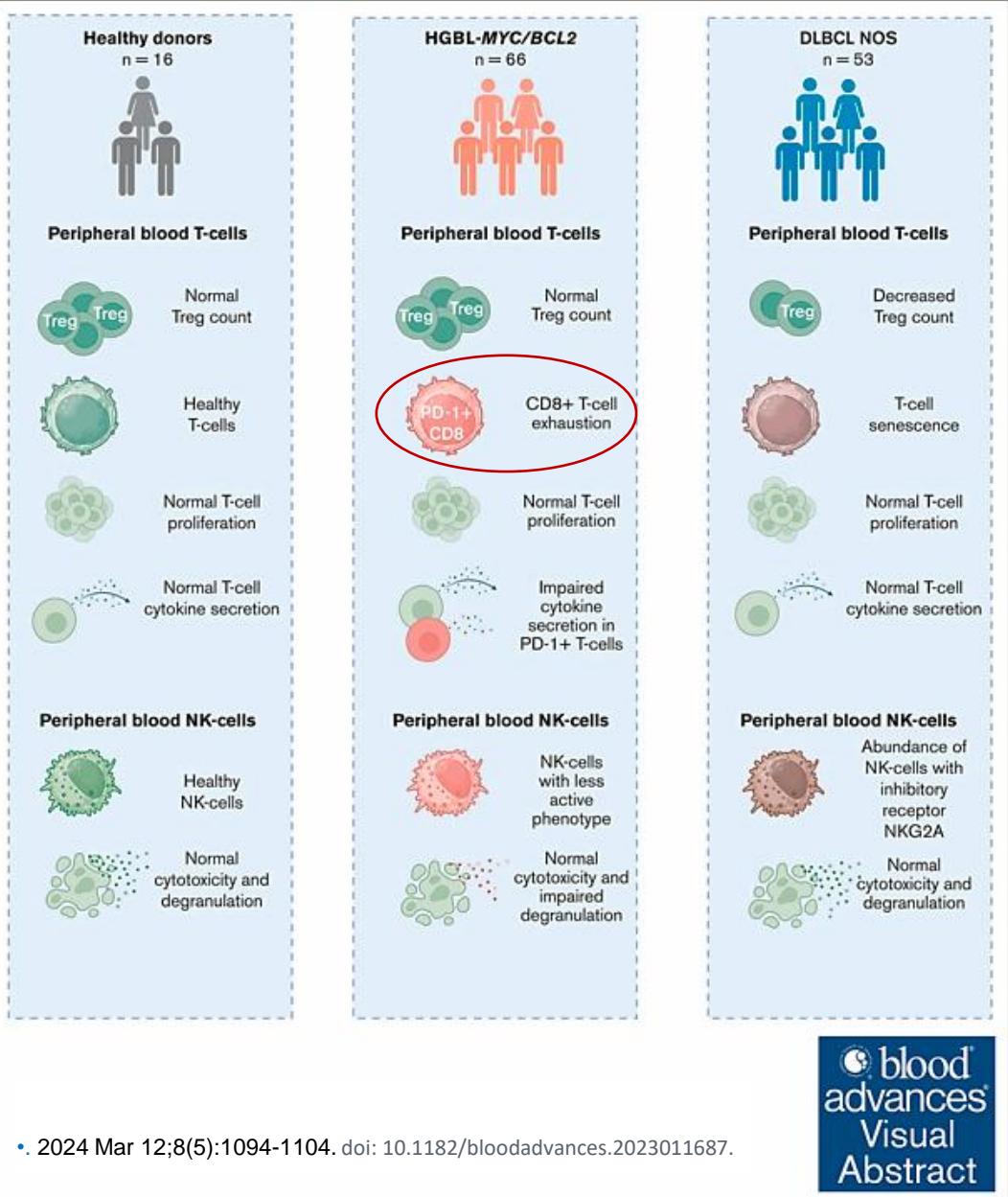


Young RM, et al. Immunol Rev. 2019

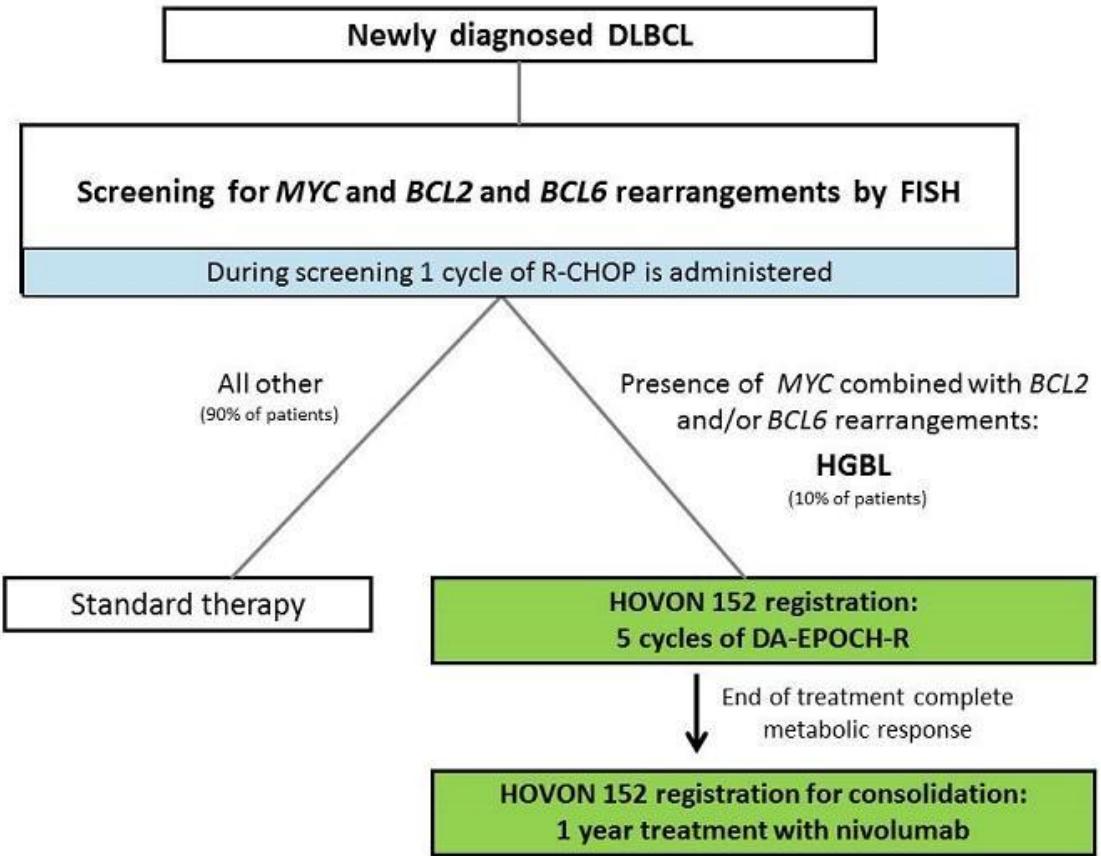
Alduaij W, et al. BLOOD 2023



Olszewski AJ, et al. Blood (2022)



HOVON-152 Trial



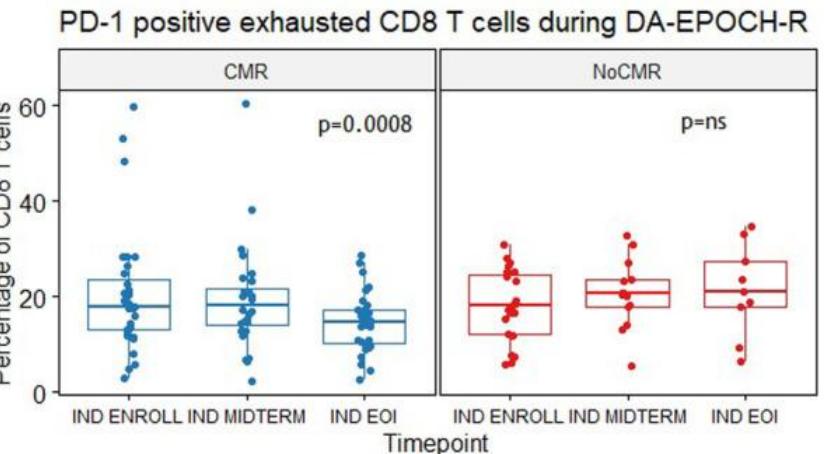
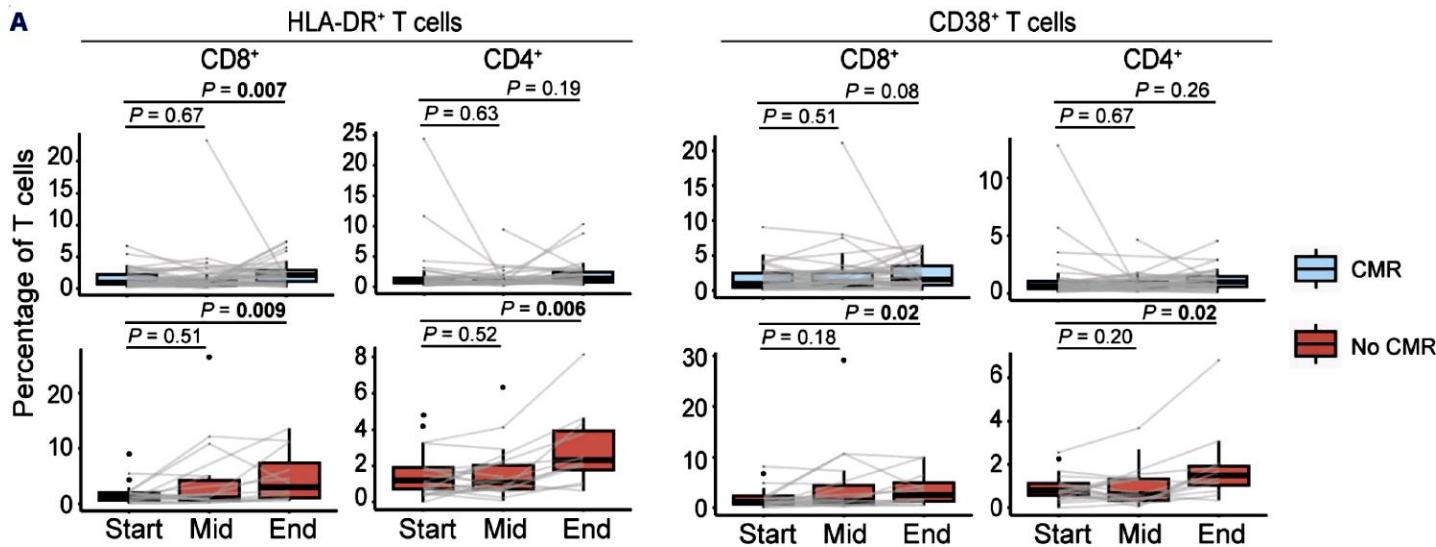
66% (95% CI 55%-75%) of the patients with HGBL-DH/TH achieve CMR after DAEPOCH-R.



Response to DA-EPOCH-R is associated with activation of 'fitter' cytotoxic T cells in patients with newly diagnosed double and triple hit high-grade B-cell lymphoma

HOVON-152 Phase II Trial

A



66% (95% CI 55%-75%) of the patients with HGBL-DH/TH achieve CMR after DAEPOCH-R.



Are we improving in 1L ?

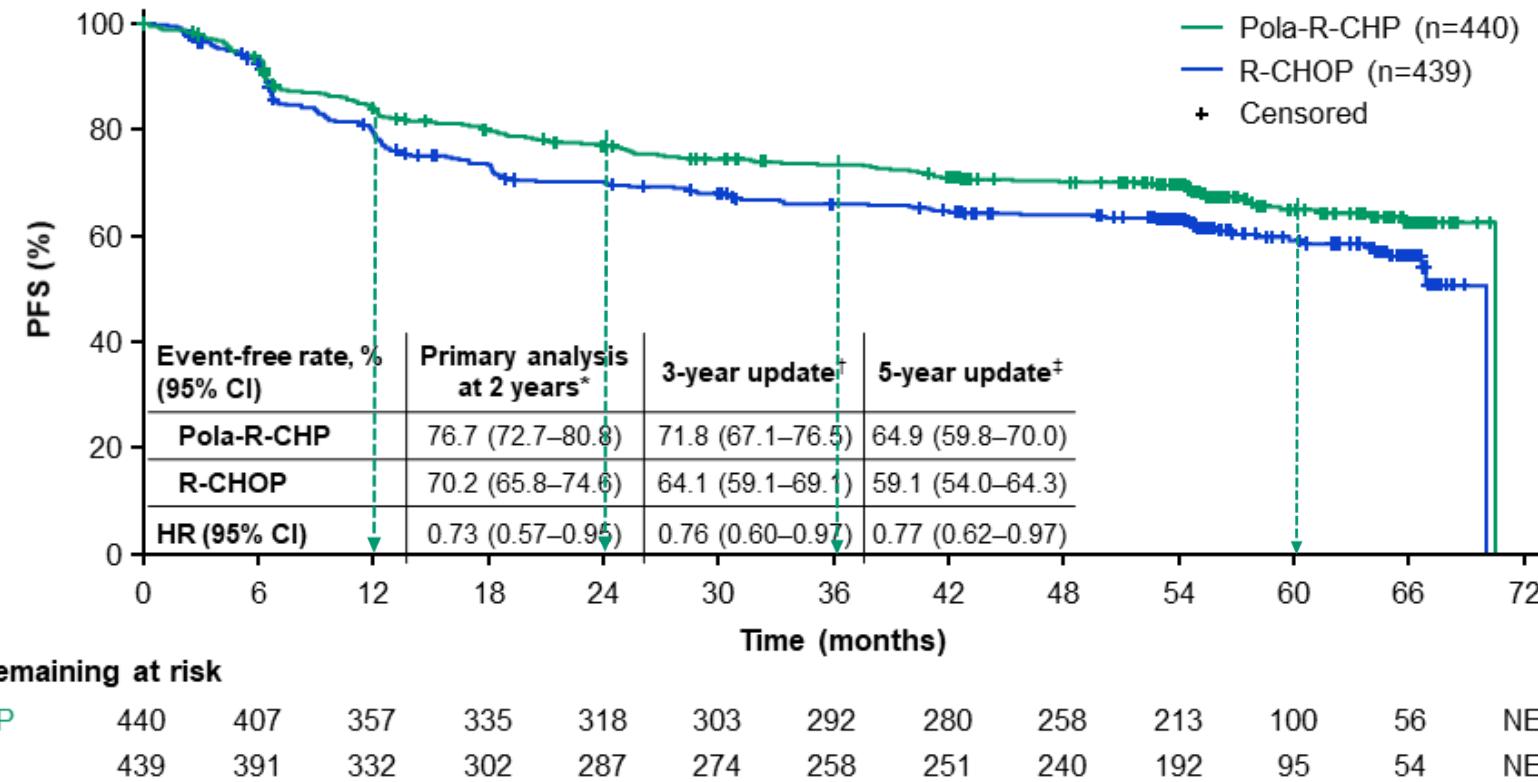
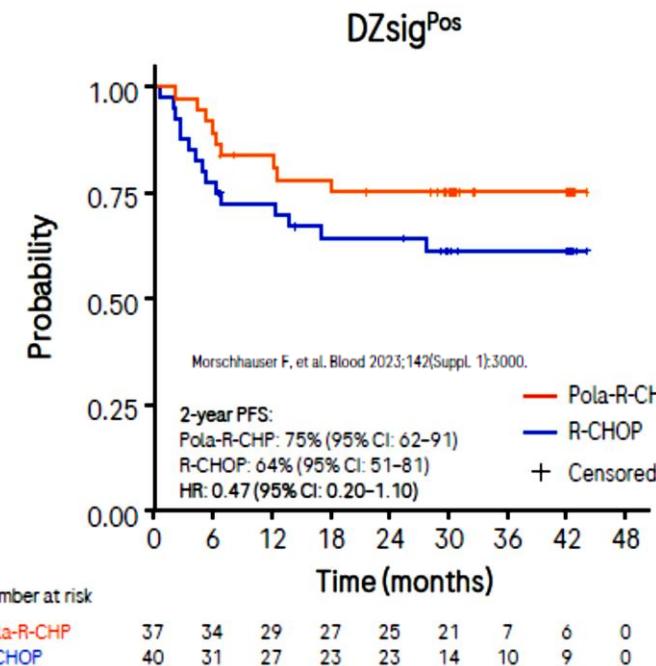
Initial PFS benefit of Pola-R-CHP over R-CHOP is maintained at 5 years

Five-year analysis of the POLARIX study: Prolonged follow-up confirms positive impact of polatuzumab vedotin plus rituximab, cyclophosphamide, doxorubicin, and prednisone (Pola-R-CHP) on outcomes

Gilles Salles¹, Franck Morschhauser², Laurie H. Sehn³, Alex F. Herrera⁴, Jonathan W. Friedberg⁵, Marek Trněný⁶, Georg Lenz⁷, Jeff P. Sharman⁸, Charles Herbaux⁹, John M. Burke¹⁰, Matthew Matasar¹¹, Graham P. Collins¹², Yuqin Song¹³, Antonio Pinto¹⁴, Shinya Rai¹⁵, Koji Izutsu¹⁶, Calvin Lee^{17*}, Saibah Chohan¹⁸, Matthew Sugidono¹⁷, Yanwen Jiang¹⁷, Connie Lee Batlevi¹⁷, Mark Yan¹⁶, Jamie Hirata¹⁷, Hervé Tilly¹⁹, Christopher R. Flowers²⁰

¹Memorial Sloan Kettering Cancer Center, New York, NY, USA; ²University of Lille, Lille, France; ³BC Cancer Centre for Lymphoid Cancer and the University of British Columbia, Vancouver, BC, Canada; ⁴City of Hope, Duarte, CA, USA; ⁵Wilmot Cancer Institute, University of Rochester, Rochester, NY, USA; ⁶Charles University, Prague, Czech Republic; ⁷University Hospital Münster, Münster, Germany; ⁸Willamette Valley Cancer Institute and Research Center, Florence, OR, USA; ⁹University of Montpellier, Montpellier, France; ¹⁰Rocky Mountain Cancer Centers/US Oncology, Aurora, CO, USA; ¹¹Rutgers Cancer Institute, New Brunswick, NJ, USA; ¹²Oxford University Hospitals NHS Foundation Trust, Oxford, United Kingdom; ¹³Peking University Cancer Hospital, Beijing, China; ¹⁴National Cancer Institute, Fondazione G. Pascale, IRCCS, Naples, Italy; ¹⁵Department of Hematology and Rheumatology, Kindai University Faculty of Medicine, Osaka-Sayama City, Japan; ¹⁶National Cancer Center Hospital, Tokyo, Japan; ¹⁷Genentech, Inc., South San Francisco, CA, USA; ¹⁸Hoffmann-La Roche Ltd, Mississauga, Canada; ¹⁹Centre Henri-Becquerel and University of Rouen, Rouen, France; ²⁰M.D. Anderson Cancer Center, Houston, TX, USA

*This affiliation was active at the time of the analysis



Are we improving in 1L ?

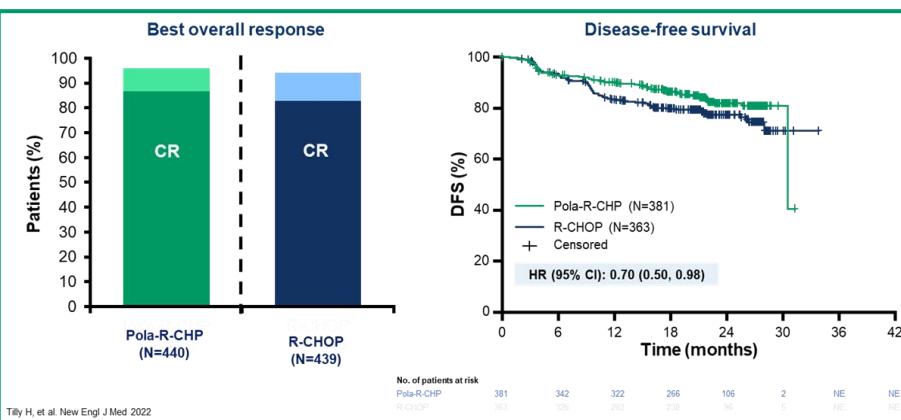
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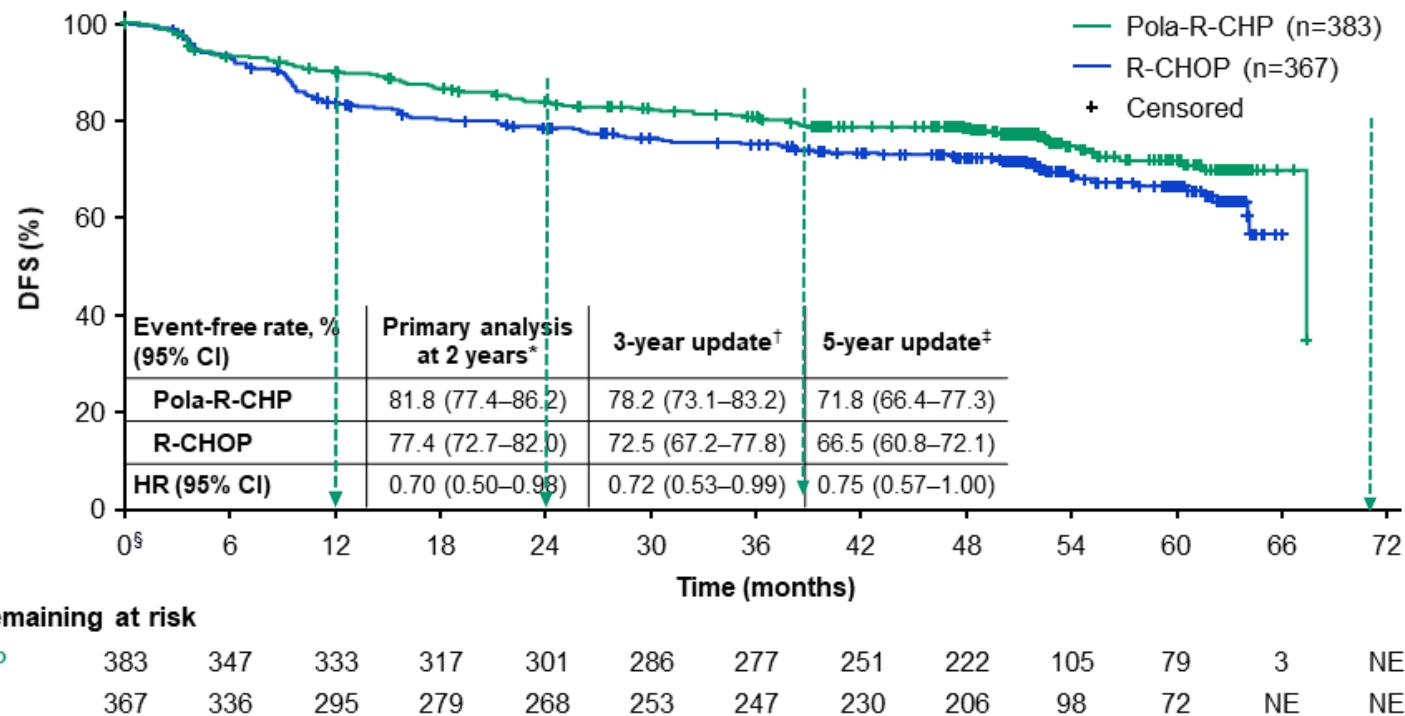
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Presented at the 66th ASH Annual Meeting | December 7–10, 2024



Complete remission obtained after Pola-R-CHP treatment is maintained with 5-year follow-up

DFS (DoCR) in the global ITT population



Tilly H, et al. New Engl J Med 2022



FDA Approval Summary: Polatuzumab Vedotin in the First-Line Treatment of Select Large B-Cell Lymphomas

Maryam Sarraf Yazdy¹, Yvette L. Kasamon¹, Wenjuan Gu¹, Lisa R. Rodriguez¹, Susan Jin¹, Vishal Bhatnagar¹, Nicholas C. Richardson¹, Marc R. Theoret^{1,2}, Richard Pazdur^{1,2}, and Nicole J. Gormley¹

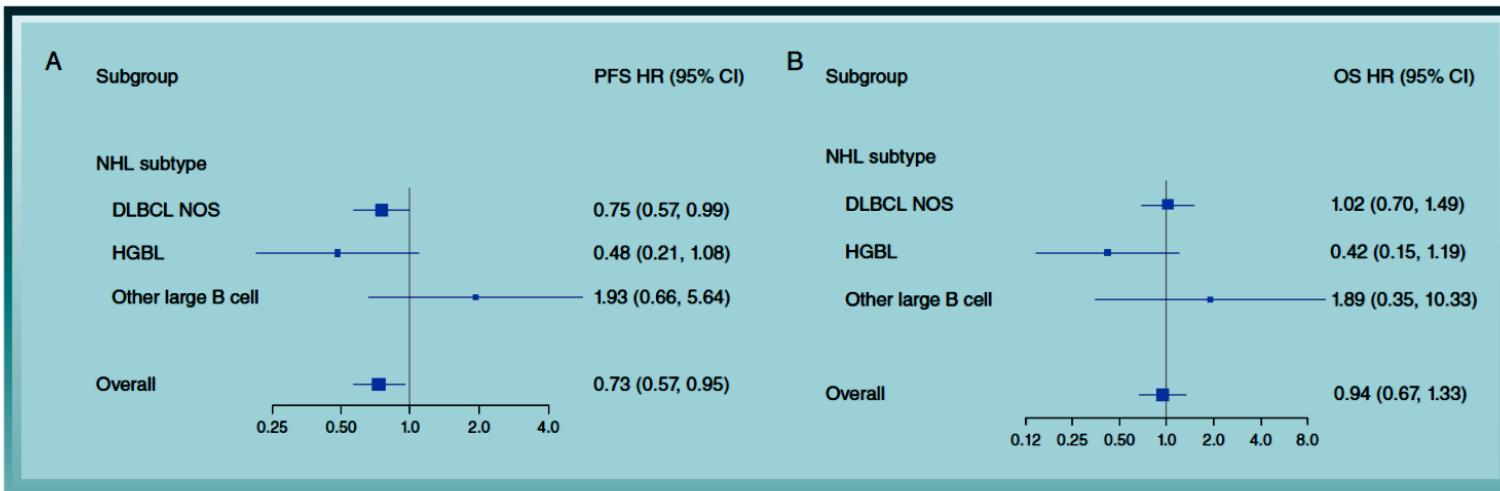
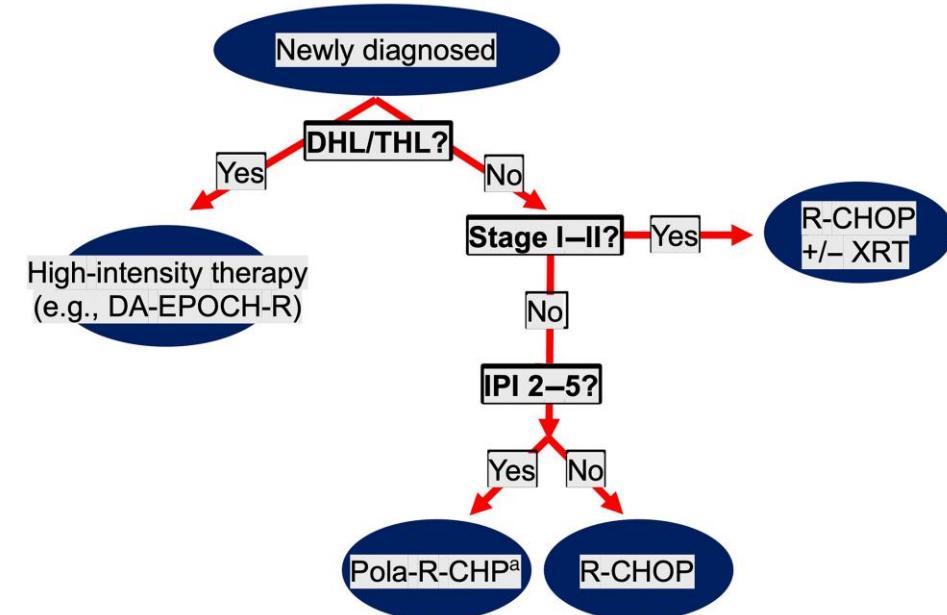


Figure 2.
Forest plots of PFS (A) and OS (B) by the type of non-Hodgkin lymphoma. NHL, non-Hodgkin lymphoma. Source: FDA analysis.

Based on the PFS rate and supported by modified EFS in a randomized phase 3 study, pola+R-CHP has clinically meaningful efficacy in patients with previously untreated DLBCL, NOS, or HGBL and who have an IPI score of 2 or greater.



Tavakkoli et al. Am J Hematol (2023)



1st Line

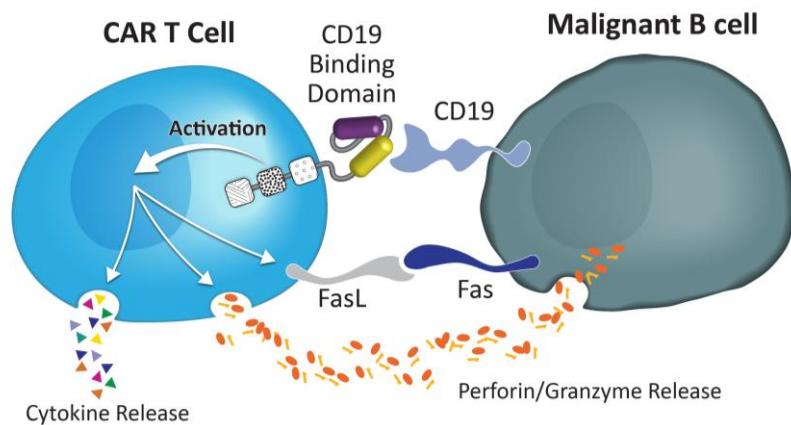
IPI 0	IPI 1-2	IPI 3-5	HGBL-DzSig+	'Old'/unfit/frail
4 x R-CHOP (+2R ?)	6 x R-CHOP (+2R ?)	6 x Pola-R-CHP	DA-EPOCH-R BL-like CIT, Pola-R-CHP	R-mini-CHOP, Polar-Bear-like, R-CEOP/COMP, Non-anthr. CT ?

2nd Line



T-cell Redirection strategies are changing the scenario

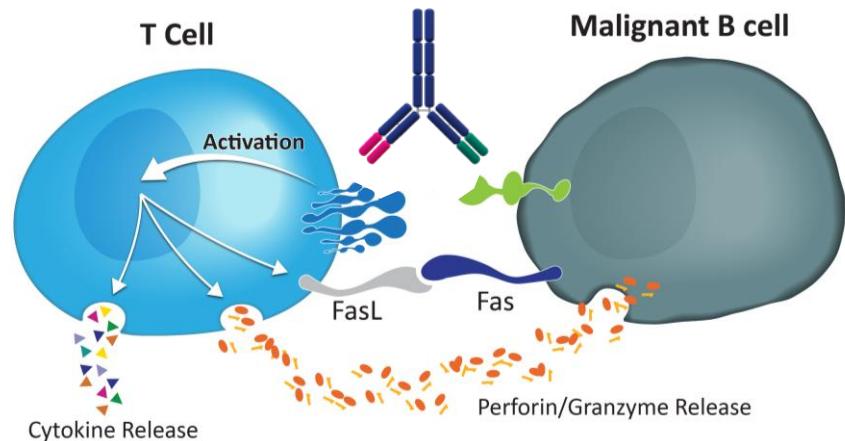
CAR T



Similarities

- Both CAR Ts and bsAbs bring together T cells and B cells
- Interaction causes activation of the T cell and release of cytokines, granzyme, and perforin
- Results in T cell mediated killing of the tumor cell

Bispecific Antibody



Differences

CAR T therapy **modifies the extracellular antigen-binding domain** on T cells

Binding

Bispecific antibodies **induce effector T cell binding to the tumor cell**

CAR T therapies rely on **ex vivo activated and expanded T cells**

T-cell

Bispecific antibodies use **the patient's endogenous T cells**

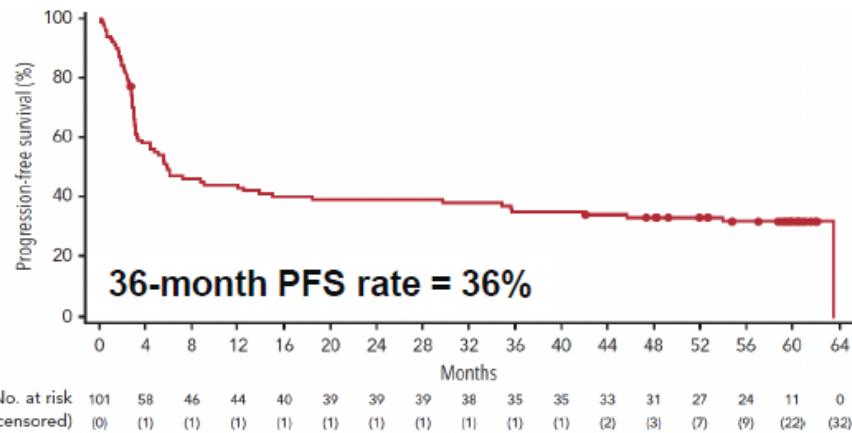
Yes

2nd Signal

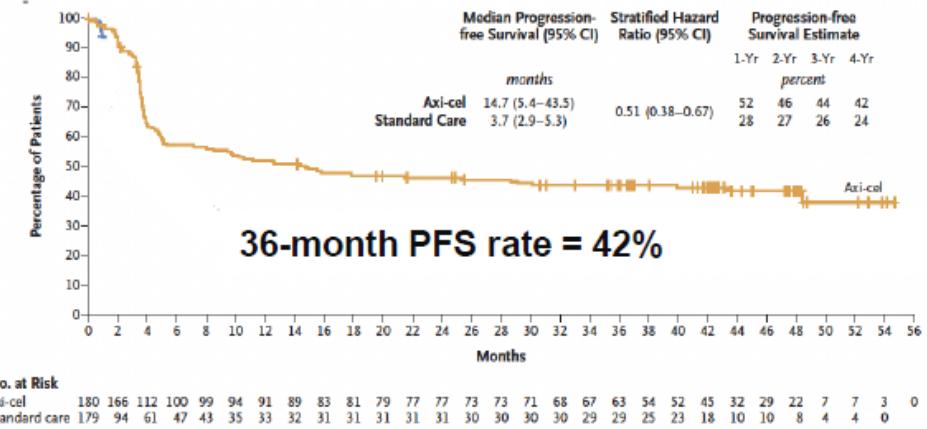
No (...not yet...)

bsAb, bispecific antibody; CAR T, chimeric antigen receptor T-cell; MOA, mechanism of action.

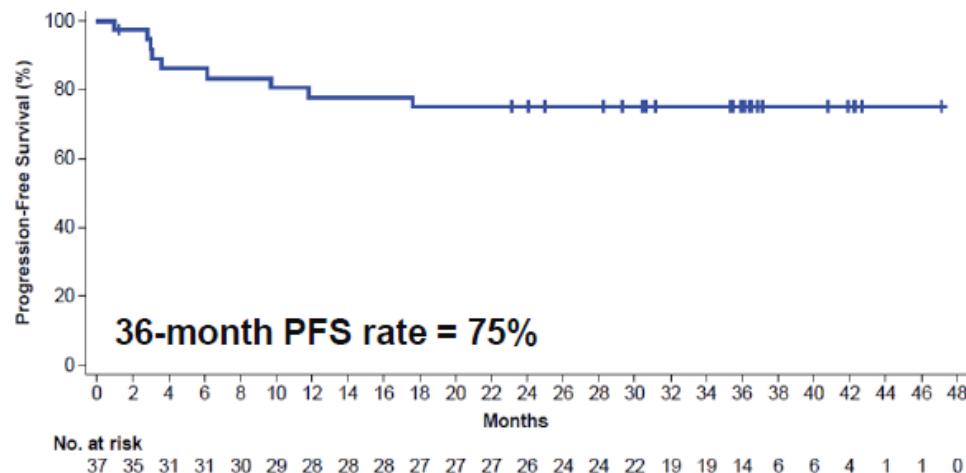
ZUMA-1: Axi-cel in $\geq 3^{\text{rd}}$ line



ZUMA-7: Axi-cel in 2^{nd} line



ZUMA-12: Axi-cel in 1^{st} line



Neelapu et al, *Blood* 2023; 141(19):2307-2315
Westin JR et al. *N Eng J Med* 2023; 389(2):148-157
Neelapu et al, *Blood* 2025 Feb 12

How many LBCL can we cure with CAR T cells?

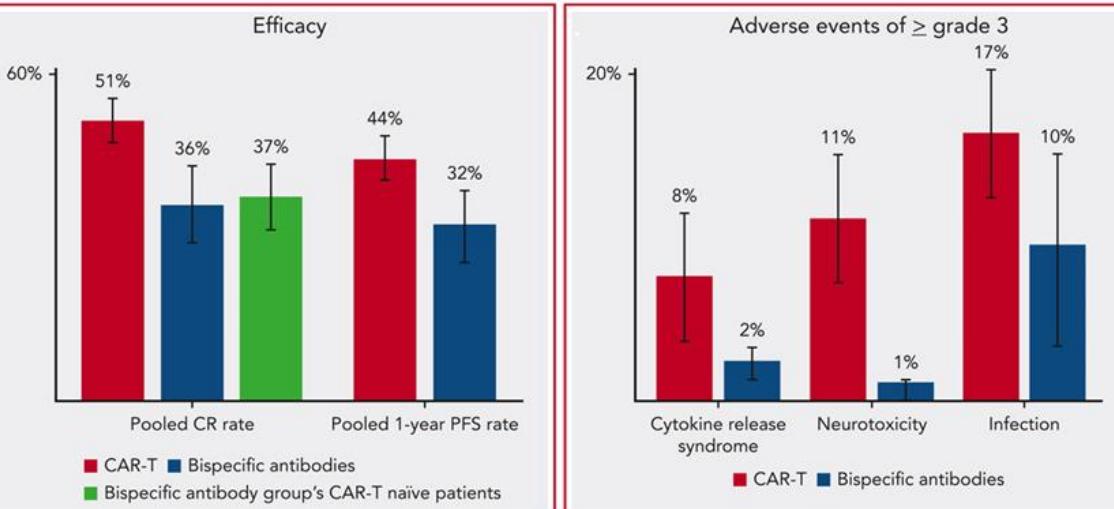
It depends

Category	% Cured
3 rd line	All LBCLs treated with CAR-T ~40%
	PMBCL and tFL ~60%
	DLBCL-NOS and HGBCL ~30%
	THRLBCL 0%
2 nd line LBCL	~40-50%
1 st line high-risk LBCL	~75%
All 3 rd line R/R LBCL (up to 40% treated with CAR-T)	~15%



Comparison of CAR T-Cell Therapy and Bispecific Antibodies As Third-Line or Later Treatment for Diffuse Large B-Cell Lymphoma (DLBCL): A Meta-Analysis

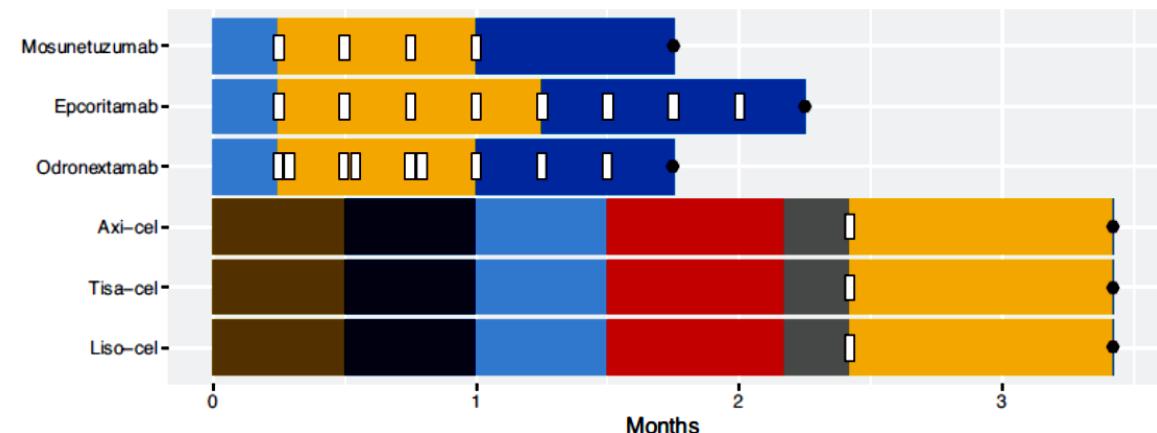
CAR-T cell therapy: 10 studies including 742 patients
Bispecific antibodies: 6 studies including 605 patients



Conclusion: In patients with relapsed/refractory DLBCL, CAR-T cell therapy has demonstrated superior efficacy compared to bispecific antibodies, although with a higher incidence of severe adverse effects.

Kim et al. DOI: 10.1182/blood.2023023419

blood
Visual
Abstract



- Phase of Care**
- Cycle 2
 - Cycle 1
 - Pre-treatment
 - Preparation (line placement, apheresis, production ± lead-in or bridging therapy)
 - Insurance Authorization
 - Pre-testing (TTE, PFTs, labs, SW assessment)
 - Referral
 - PET/CT
 - BsAb or CAR-T Administration

David A. Russler-Germain and Nancy L. Bartlett -Hematology 2024 | ASH Education Program



1st Line

IPI 0	IPI 1-2	IPI 3-5	HGBL-DzSig+	'Old'/unfit/frail
4 x R-CHOP (+2R ?)	6 x R-CHOP (+2R ?)	6 x Pola-R-CHP	DA-EPOCH-R BL-like CIT, Pola-R-CHP	R-mini-CHOP, Polar-Bear-like, R-CEOP/COMP, Non-anthr. CT ?

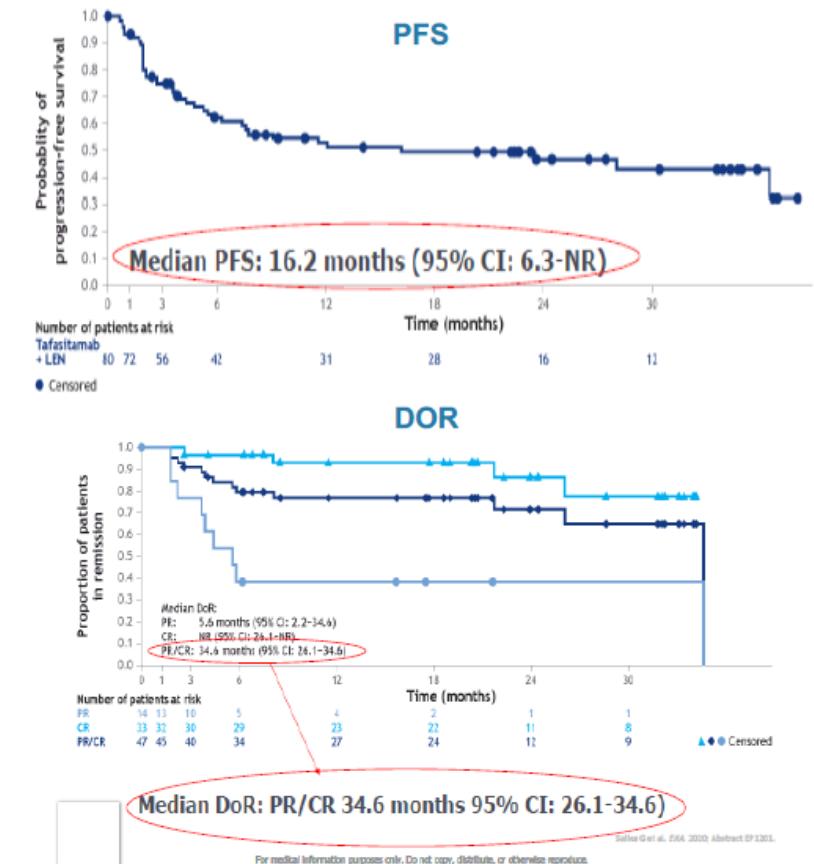
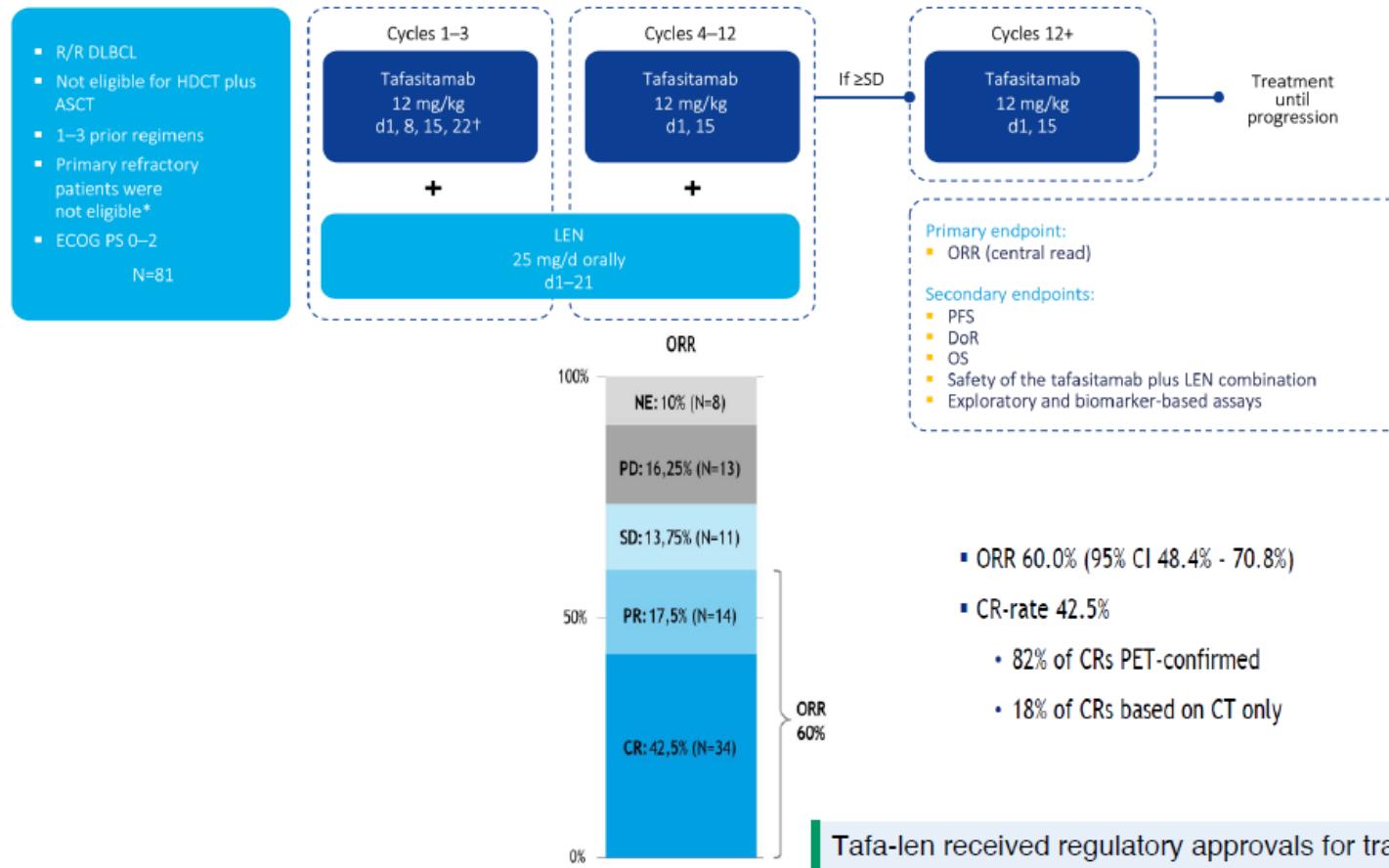
2nd Line

1ry Ref./Early Rel. (≤ 12 Mos.)	1ry Ref./Early Rel. (≤ 12 Mos.)	Late Relapse ≥ 12 Months	
CAR-T Eligible	CAR-T Ineligible/not-available	HDT-ASCT Eligible	CAR-T Ineligible/not available
CAR-T Axicel/Lisocel	Clinical study - ASCT - ???	Plat./based Salvage / ASCT	Tafa/Lena, Pola-BR, R-GemOx, R2

Clinical study

Tafasitamab and Lenalidomide

L-MIND trial: Phase 2 single-arm, open-label, multicentre study



Salles G, et al. Lancet Oncol. 2020

Autologous transplant vs. CAR-T therapy in patients with DLBCL treated while in complete remission

Mazyar Shadman^{1,2}, Kwang W. Ahn^{3,4}, Manmeet Kaur^{3,4}, Lazaros Lekakos⁵, Amer Beitinjaneh⁵, Madiha Iqbal⁶, Nausheen Ahmed⁶, Brian Hill⁶, Nasheed M. Hossain⁹, Peter Riedell¹⁰, Ajay K. Gopal¹², Natalie Grover¹¹, Matthew Frigault¹², Jonathan Brammer¹³, Nilanjan Ghosh¹⁴, Reid Merryman¹⁵, Aleksandr Lazaryan¹⁶, Ron Ram^{17,18}, Mark Hertzberg¹⁹, Bipin Savani²⁰, Farrukh Awan²¹, Farhad Khimani²², Sairah Ahmed^{22,23}, Vaishalee P. Kenkre²⁴, Matthew Ulrickson²⁵, Nirav Shah^{13,26}, Mohamed A. Kharfan-Dabaja⁶, Alex Herrera²⁷, Craig Sauter⁸ and Mehdi Hamadani¹⁰

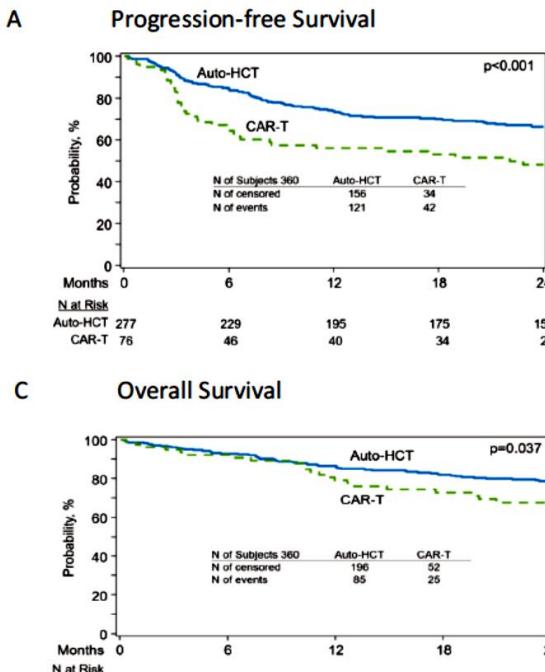
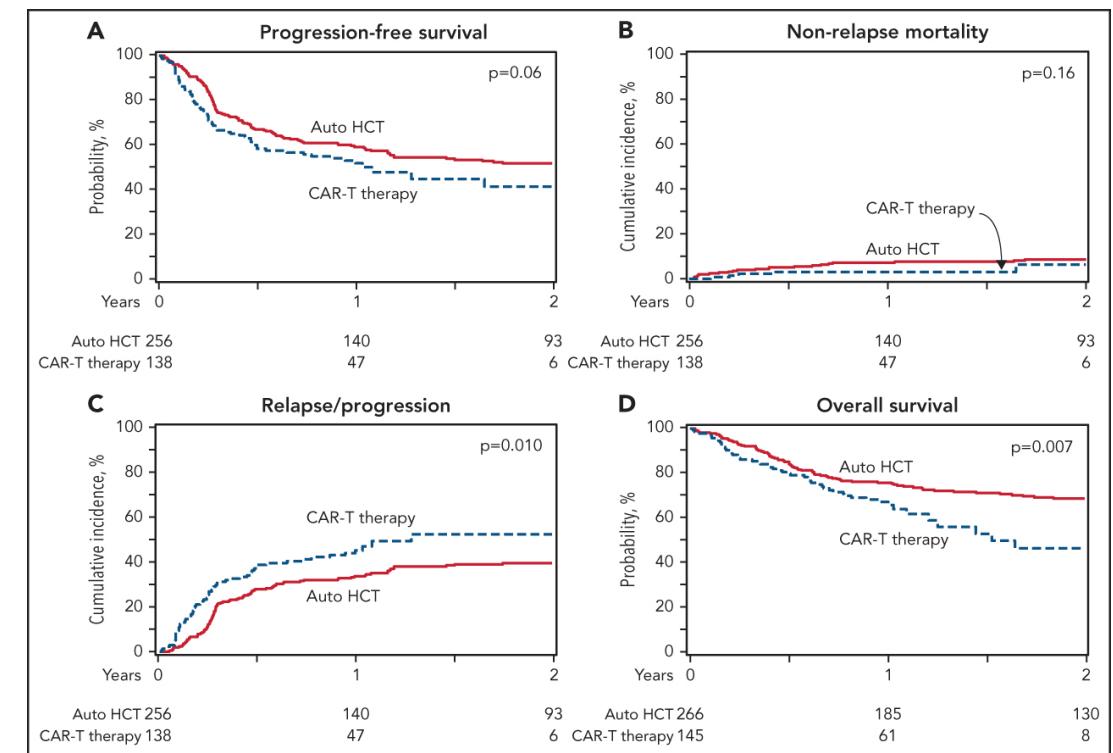


Fig. 1 Auto-HCT vs CAR-T in patients with DLBCL in CR. **A** Progression-free survival. **B** Cumulative incidence of relapse. **C** Overall survival. **D** Non-relapse Mortality.

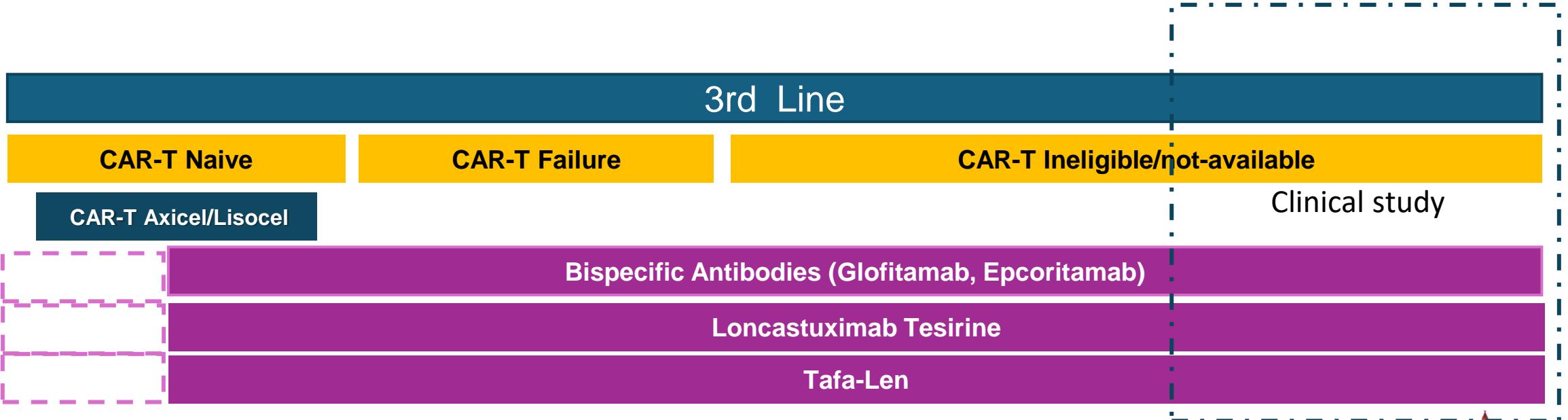
Autologous transplant vs chimeric antigen receptor T-cell therapy for relapsed DLBCL in partial remission

Mazyar Shadman,^{1,2} Marcelo Pasquini,³ Kwang Woo Ahn,^{3,4} Yue Chen,³ Cameron J. Turtle,^{1,2} Peiman Hematti,⁵ Jonathon B. Cohen,⁶ Farhad Khimani,⁷ Siddhartha Ganguly,⁸ Reid W. Merryman,⁹ Jean A. Yared,¹⁰ Frederick L. Locke,⁷ Nausheen Ahmed,⁸ Pashna N. Munshi,¹¹ Amer Beitinjaneh,¹² Patrick M. Reagan,¹³ Alex F. Herrera,¹⁴ Craig S. Sauter,^{15,16} Mohamed A. Kharfan-Dabaja,¹⁷ and Mehdi Hamadani^{3,18}

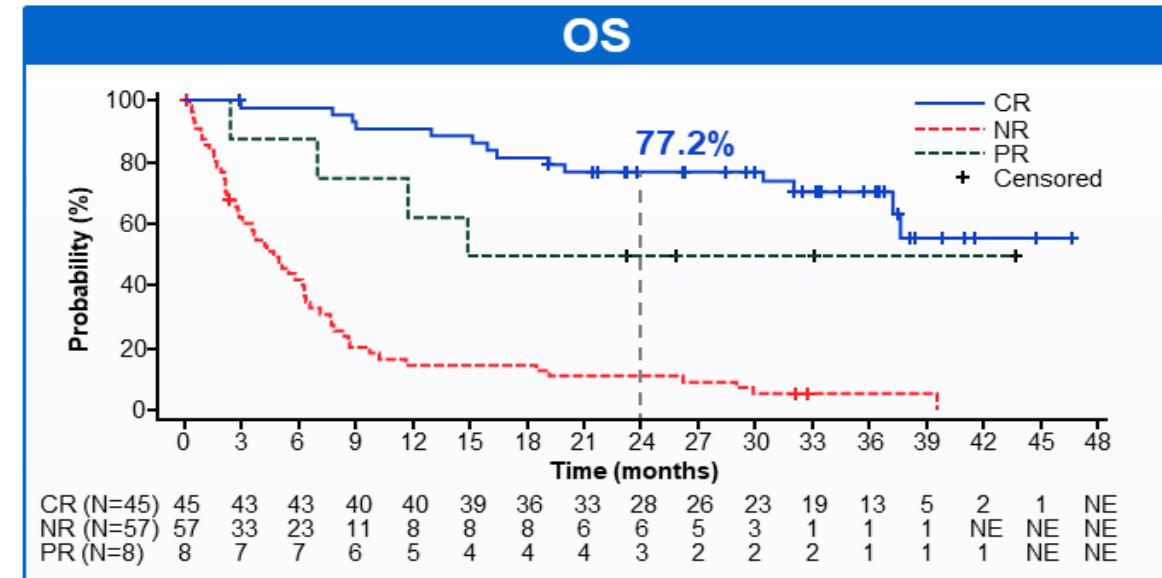
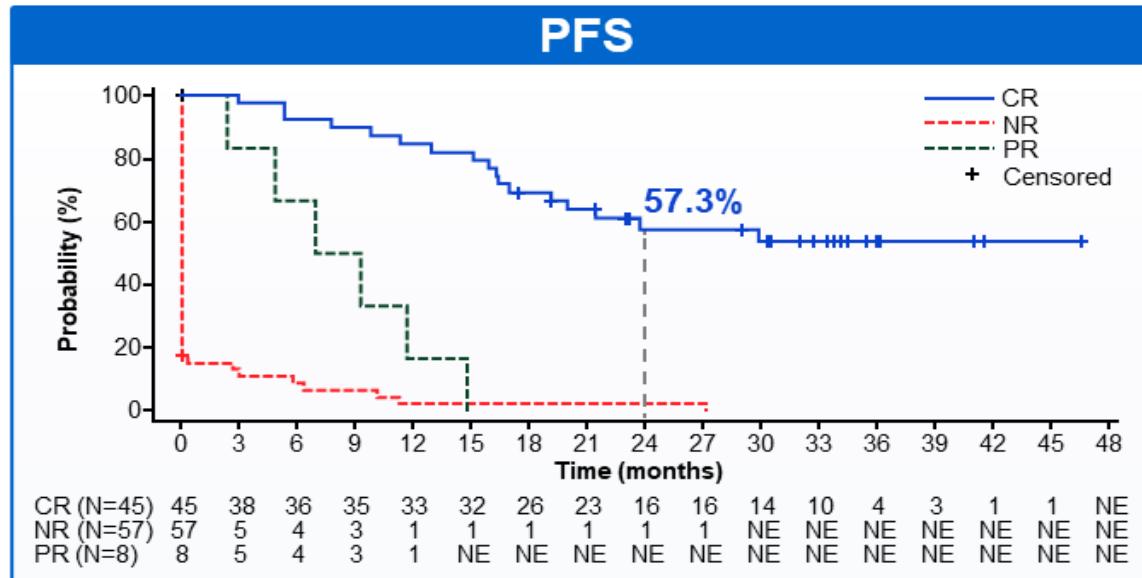


blood® 3 MARCH 2022 | VOLUME 139, NUMBER 9





Fixed-duration glofitamab monotherapy continues to demonstrate durable responses in patients with relapsed or refractory large B-cell lymphoma: 3-year follow-up from a pivotal Phase II study



Landmark PFS from EOT in patients with CR at EOT*

N=45

Median PFS, months (95% CI)

NE (20.0–NE)

24-month PFS rate, % (95% CI)

57.3 (41.2–73.4)

Landmark OS from EOT in patients with CR at EOT*

N=45

Median OS, months (95% CI)

NE (37.2–NE)

24-month OS rate, % (95% CI)

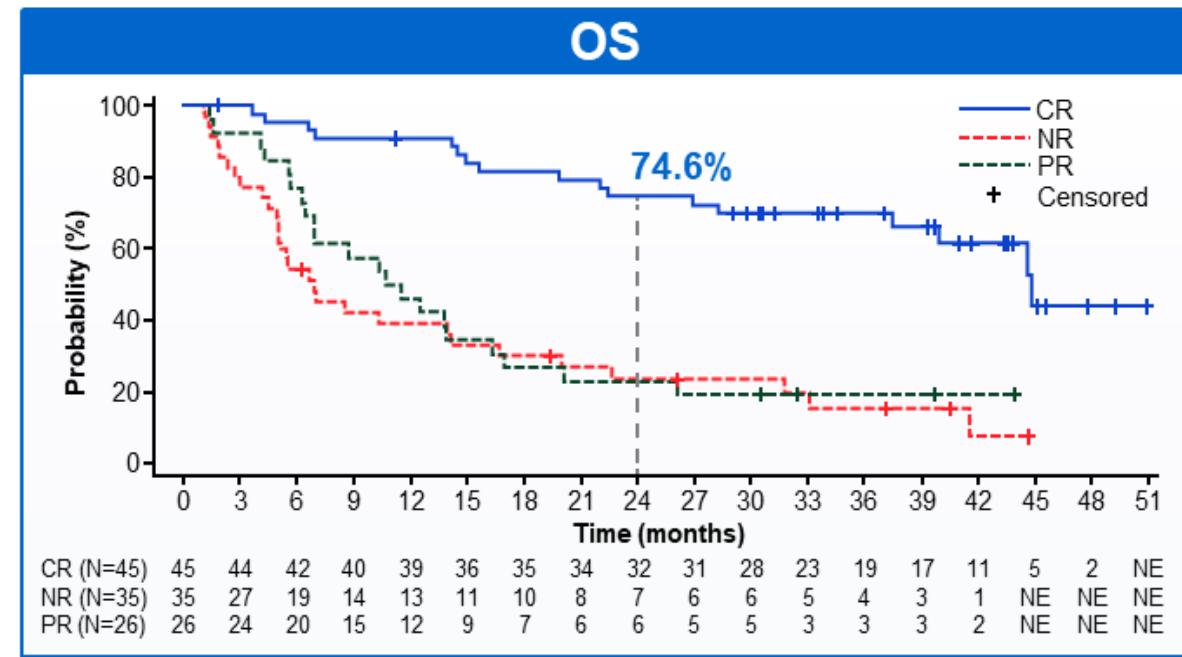
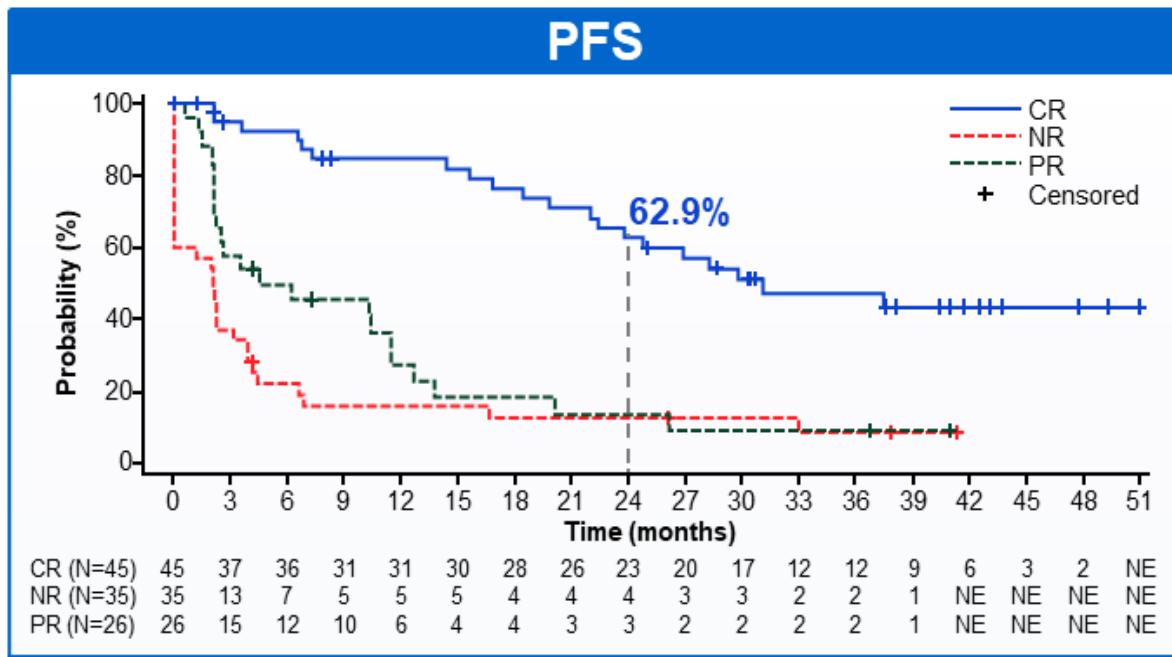
77.2 (64.8–89.6)

Most patients with a CR at EOT remained progression-free and alive at 24 months after EOT

Dickinson, et al. ASH 2024



Landmark analysis by response at Cycle 3



Landmark PFS from C3 in patients with CR at C3*

N=45

Median PFS, months (95% CI)

31.1 (23.8–NE)

24-month PFS rate, % (95% CI)

62.9 (47.5–78.4)

Landmark OS from C3 in patients with CR at C3*

N=45

Median OS, months (95% CI)

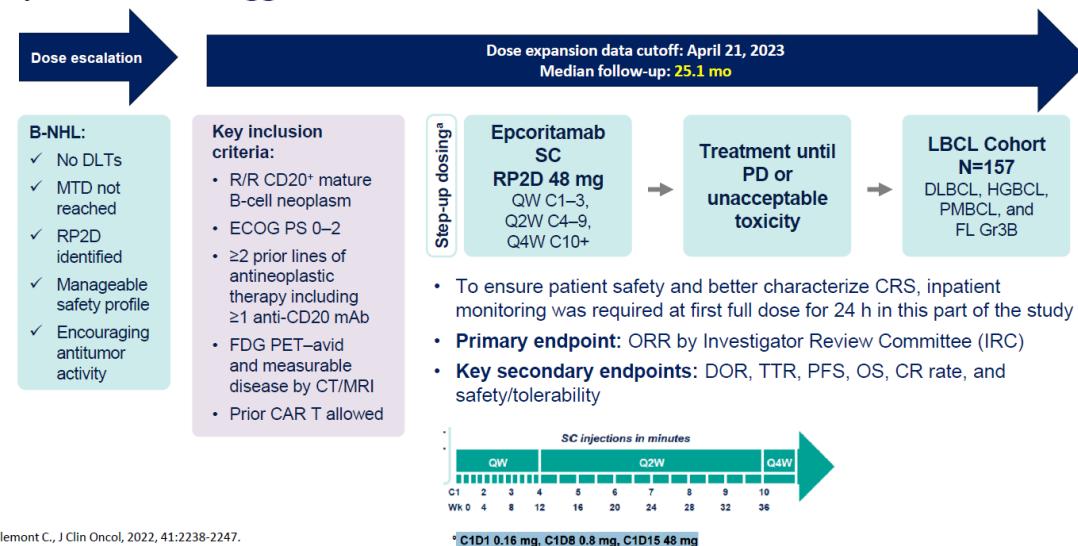
44.8 (40.0–NE)

24-month OS rate, % (95% CI)

74.6 (61.6–87.6)

Most patients with a CR at C3 remained progression-free and alive after 24 months

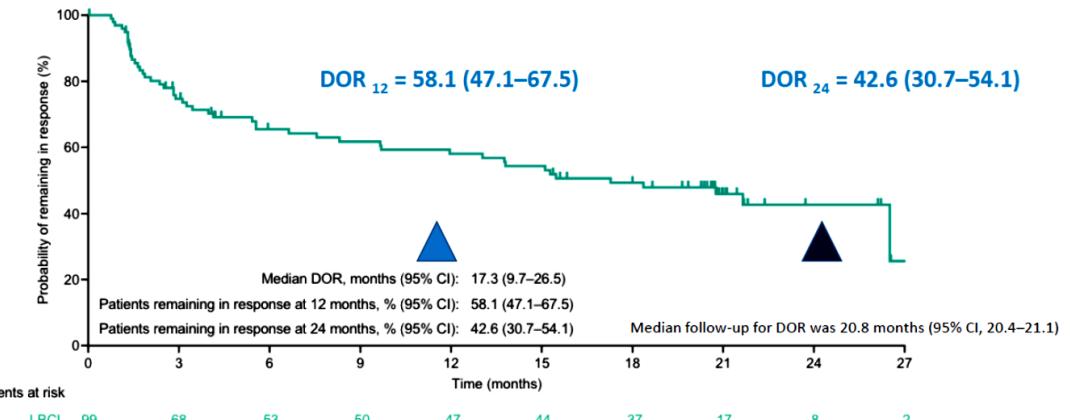
Epcoritamab in aggressive LBCL



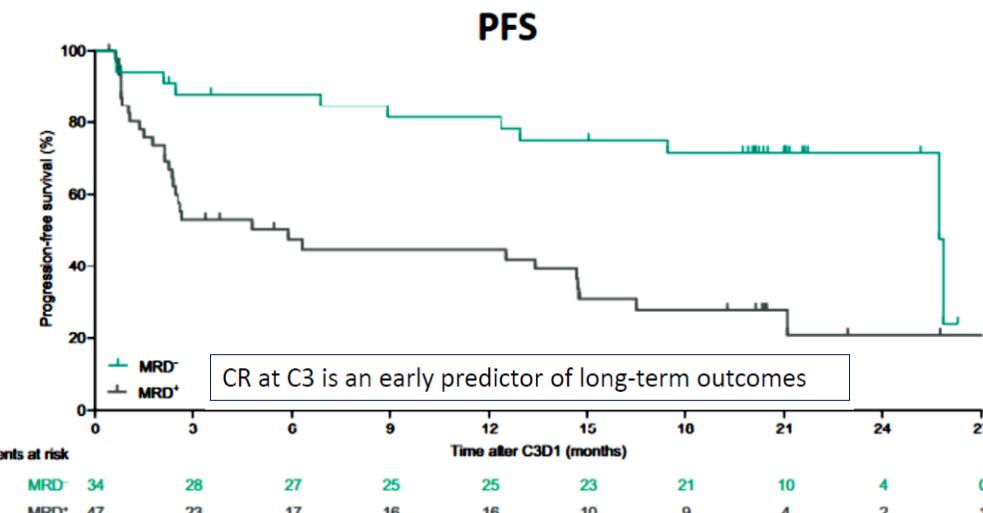
Thieblemont C., J Clin Oncol, 2022, 41:2238-2247.

Duration of Response

Median DOR was 17.3 months (95% CI, 9.7–26.5)

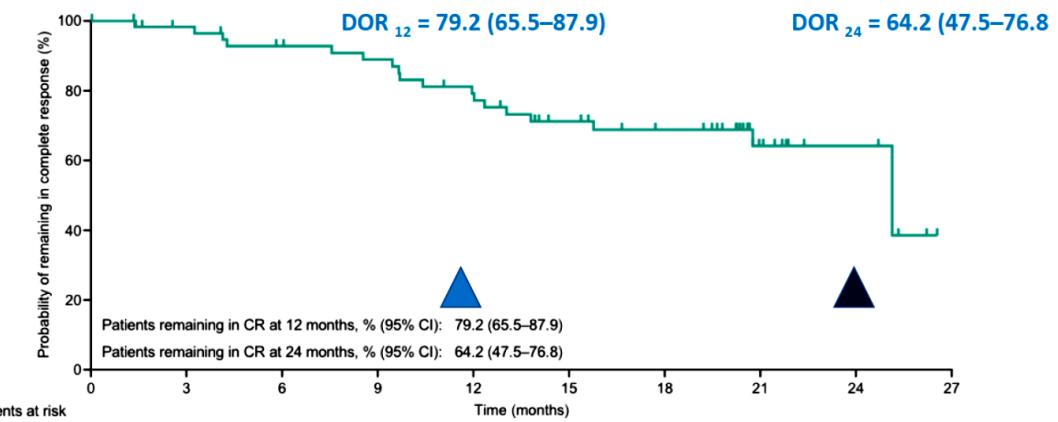


A



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Duration of Complete Response

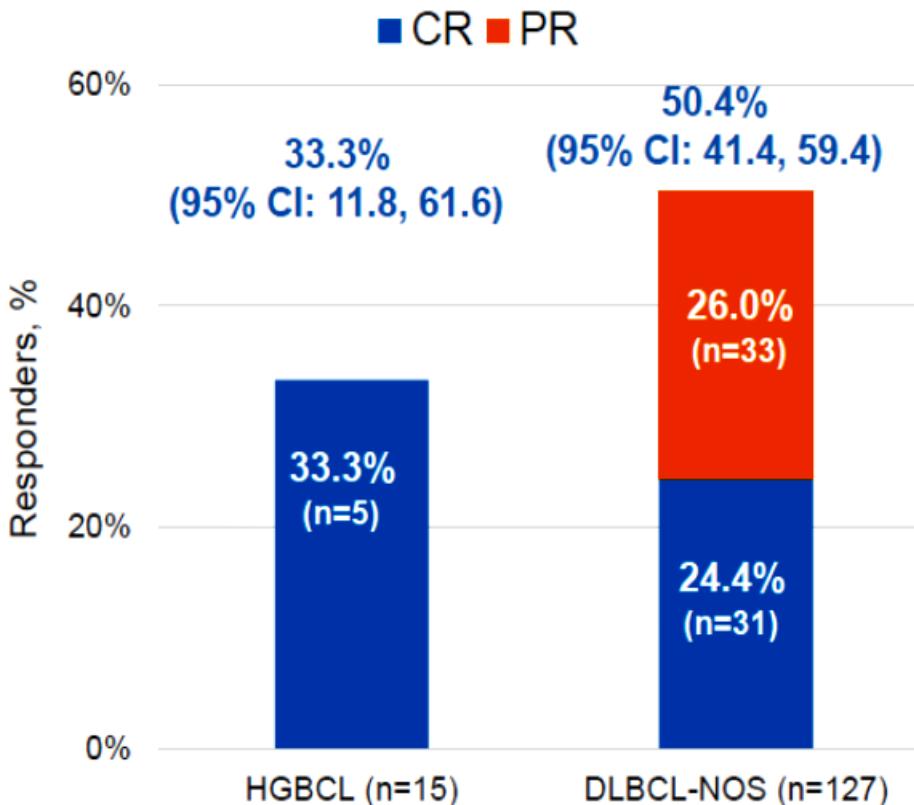


An estimated 64.2% of complete responders remained in CR at 24 months

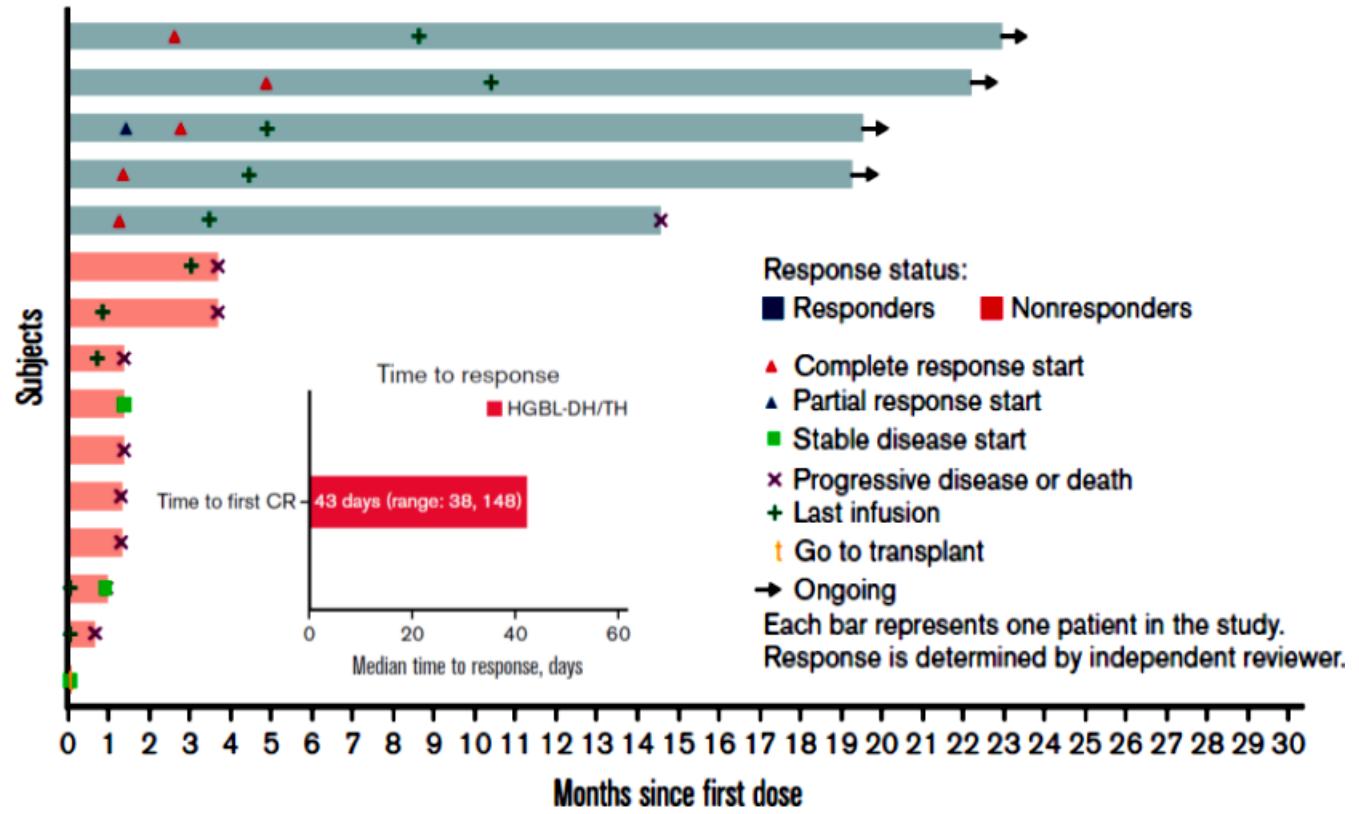
Thieblemont, Leukemia 2024

Loncastuximab tesirine activity in HGBCL (LOTIS-2 subset analysis)

HGBCL/DLBCL NOS Response Rates

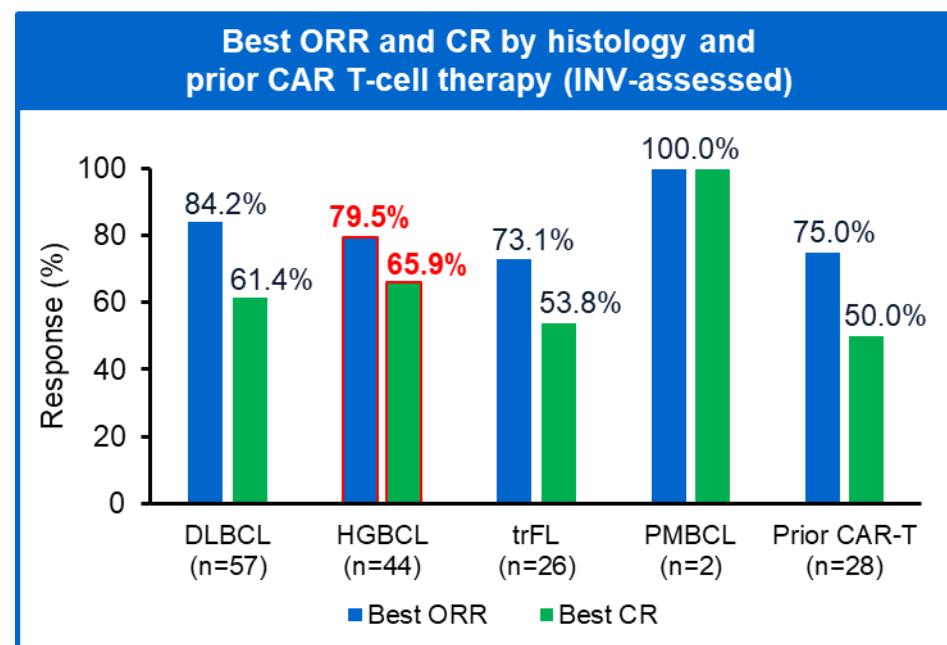
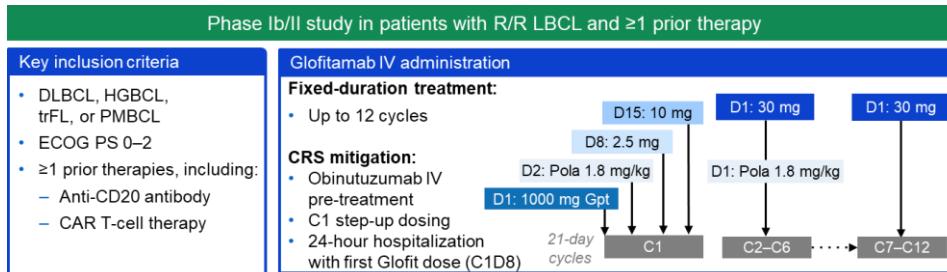


All-treated population for high grade B-cell lymphoma, with *MYC* and *BCL2* and/or *BCL6* rearrangements

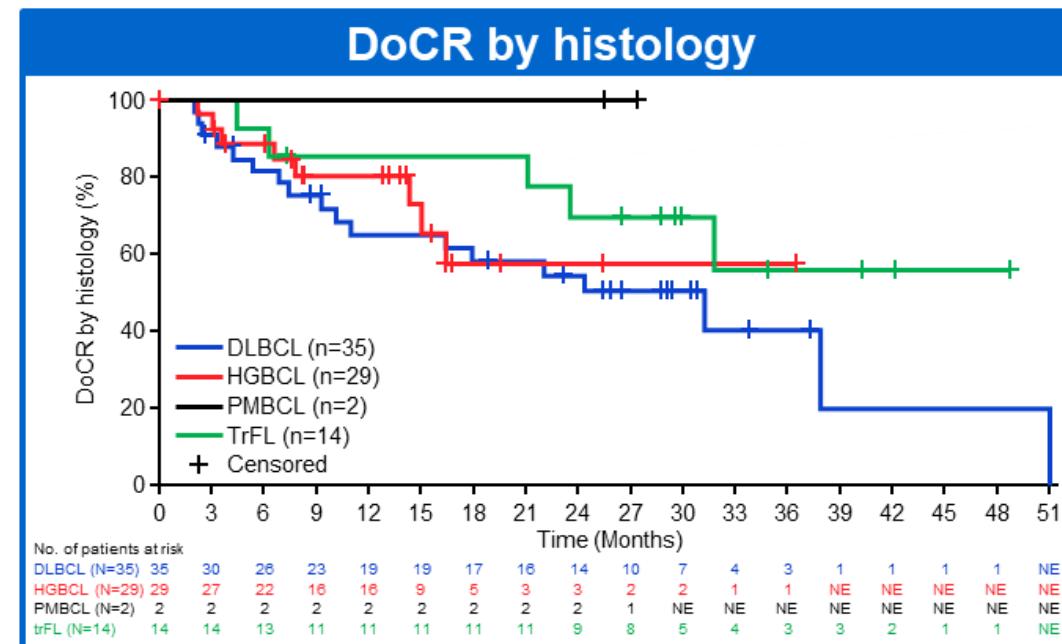


Alderuccio et al. Blood Adv. 2022;6(16):4736-9

Glofitamab in combination with polatuzumab vedotin maintains durable responses and a manageable safety profile in patients with heavily pre-treated relapsed/refractory (R/R) large B-cell lymphoma (LBCL) including high-grade B-cell lymphoma (HGBCL): extended follow-up of a Phase Ib/II study



Clinical cut-off date: September 2, 2024.

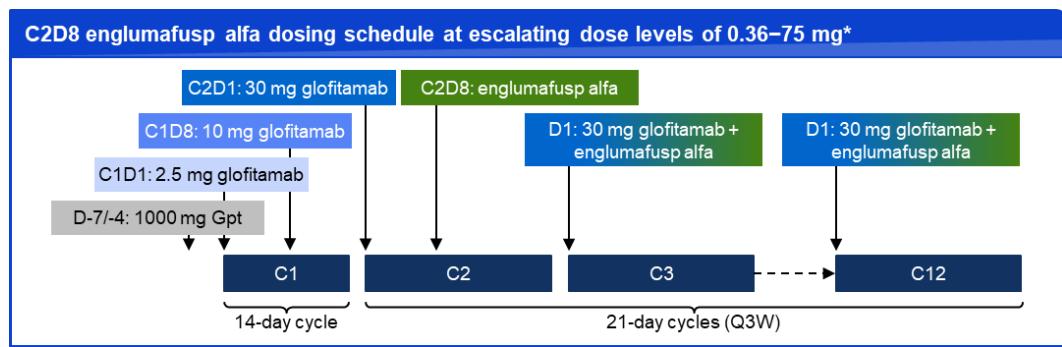
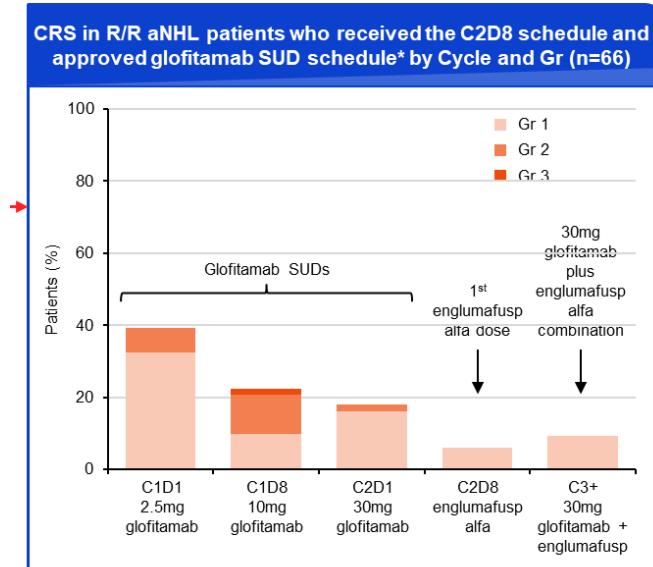
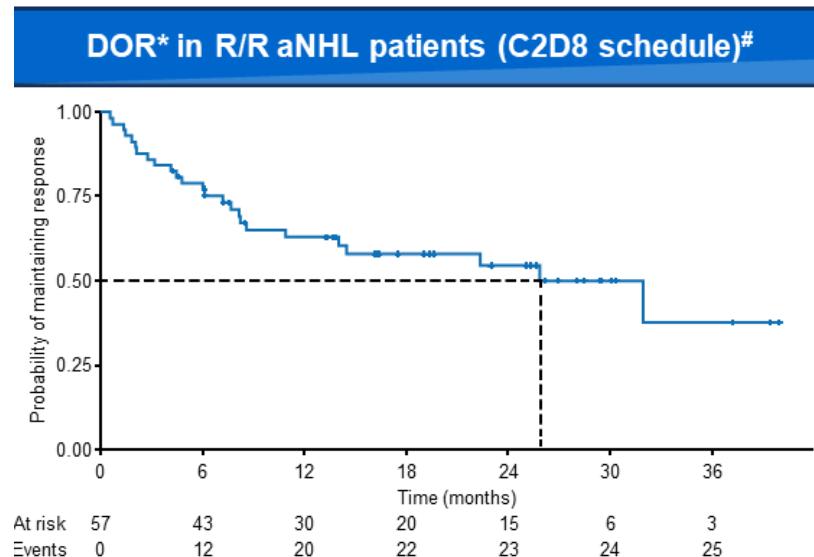
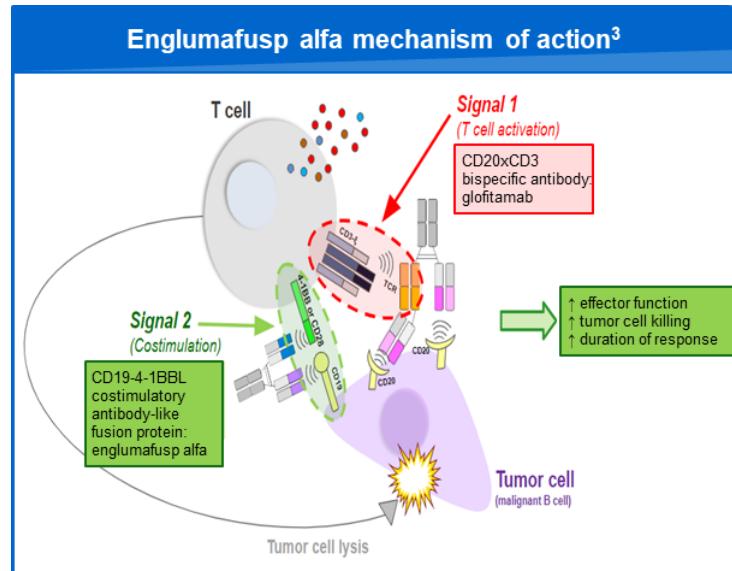


Median DoCR by histology, months (95% CI)

DLBCL	31.2 (10.9–NE)
HGBCL	NE (15–NE)
trFL	NE (23.5–NE)
PMBCL	NE (NE–NE)



Englumafusp Alfa (CD19-4-1BBL) Combined with Glofitamab is Safe and Efficacious in Patients with R/R B-NHL: Extended Follow-Up Analysis of the Dose-Escalation Part of Phase I Trial BP41072



32/57 (56.1%) responders in response at data cut-off*

n (%), C2D8 schedule	BOR	CMR	mDOR (95% CI)
R/R aNHL (n=83)*	57 (68.6)	47 (56.6)	25.9 months (7.2, NE)
3L+ (n=70)	47 (67.2)	37 (52.9)	14.3 months (8.2, 32.0)
2L (n=13)	10 (76.9)	10 (76.9)	NE (NE, NE)
Prior CAR-T (n=42)†	27 (64.4)	20 (47.6)	14 months (6.1, NE)
No prior CAR-T (n=41)§	30 (73.2)	27 (65.9)	32 months (14.5, NE)



1st Line

IPI 0	IPI 1-2	IPI 3-5	HGBL-DzSig+	'Old'/unfit/frail
4 x R-CHOP (+2R ?)	6 x R-CHOP (+2R ?)	6 x Pola-R-CHP	DA-EPOCH-R BL-like CIT, Pola-R-CHP	R-mini-CHOP, Polar-Bear-like, R-CEOP/COMP, Non-anthr. CT ?

2nd Line

1ry Ref./Early Rel. (≤ 12 Mos.)	1ry Ref./Early Rel. (≤ 12 Mos.)	Late Relapse ≥ 12 Months	
CAR-T Eligible	CAR-T Ineligible/not-available	HDT-ASCT Eligible	CAR-T Ineligible/not available
CAR-T Axicel/Lisocel	Clinical study - ASCT - ???	Plat./based Salvage / ASCT	Tafa/Lena, Pola-BR, R-GemOx, R2

3rd Line

CAR-T Naive	CAR-T Failure	CAR-T Ineligible/not-available	Clinical study
CAR-T Axicel/Lisocel			
Bispecific Antibodies (Glofitamab, Epcoritamab)			
Loncastuximab Tesirine			
Tafa-Len			



CAR-T: e la storia continua...migliorando



Roma, 9 Aprile 2025

1st Line

IPI 0	IPI 1-2	IPI 3-5	HGBL-DzSig+	'Old'/unfit/frail
4 x R-CHOP (+2R ?)	6 x R-CHOP (+2R ?)	6 x Pola-R-CHP	DA-EPOCH-R BL-like CIT, Pola-R-CHP	R-mini-CHOP, Polar-Bear-like, R-CEOP/COMP, Non-anthr. CT ?

2nd Line

1ry Ref./Early Rel. (≤ 12 Mos.)	1ry Ref./Early Rel. (≤ 12 Mos.)	Late Relapse ≥ 12 Months	
CAR-T Eligible	CAR-T Ineligible/not-available	HDT-ASCT Eligible	CAR-T Ineligible/not available
CAR-T Axicel/Lisocel	Clinical study - ASCT - ???	Plat./based Salvage / ASCT	Tafa/Lena, Pola-BR, R-GemOx, R2

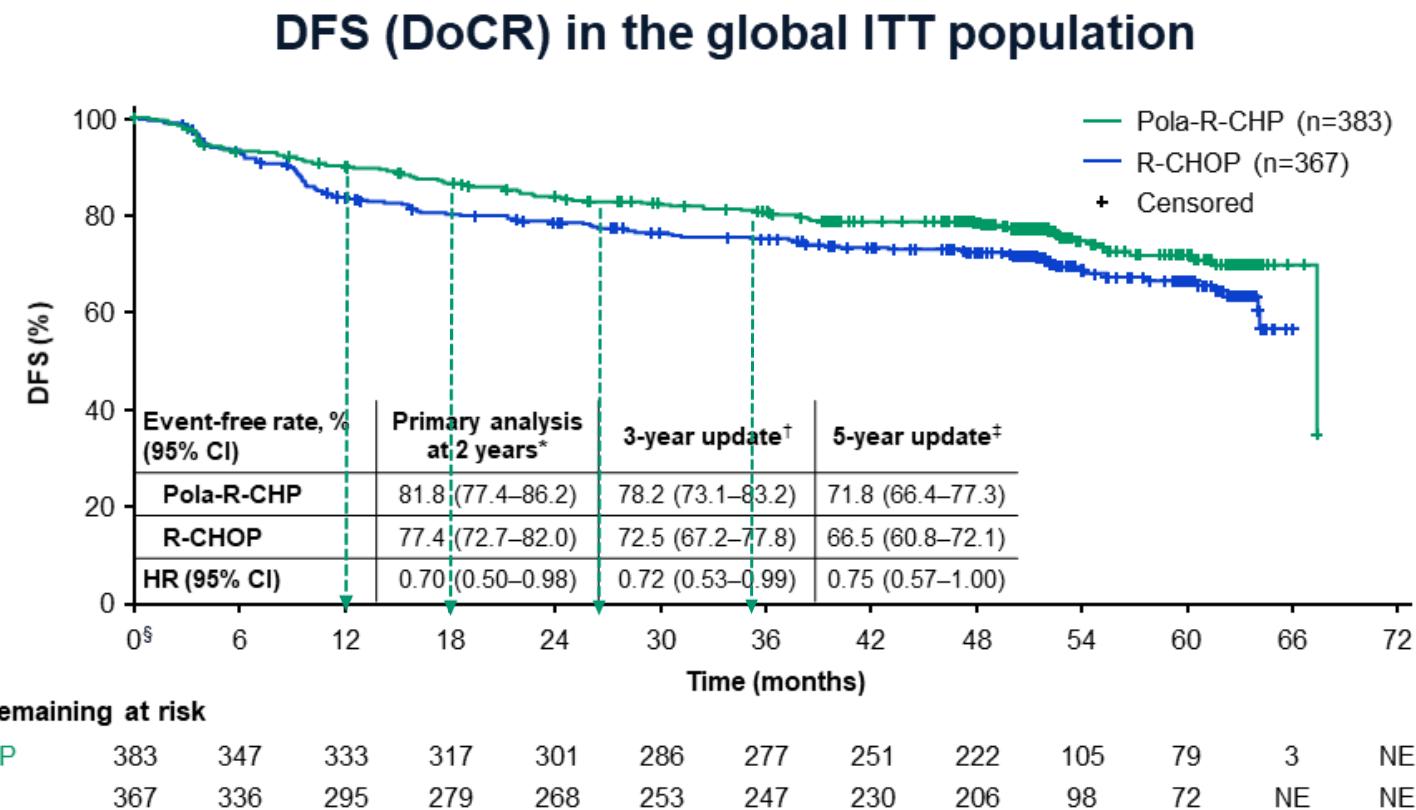
3rd Line

CAR-T Naive	CAR-T Failure	CAR-T Ineligible/not-available	Clinical study
CAR-T Axicel/Lisocel			
Bispecific Antibodies (Glofitamab, Epcoritamab)			
Loncastuximab Tesirine			
Tafa-Len			

A. Pinto (2025 - Personal view)



Complete remission obtained after Pola-R-CHP treatment is maintained with 5-year follow-up



Complete remissions are durable and sustained with longer follow-up.

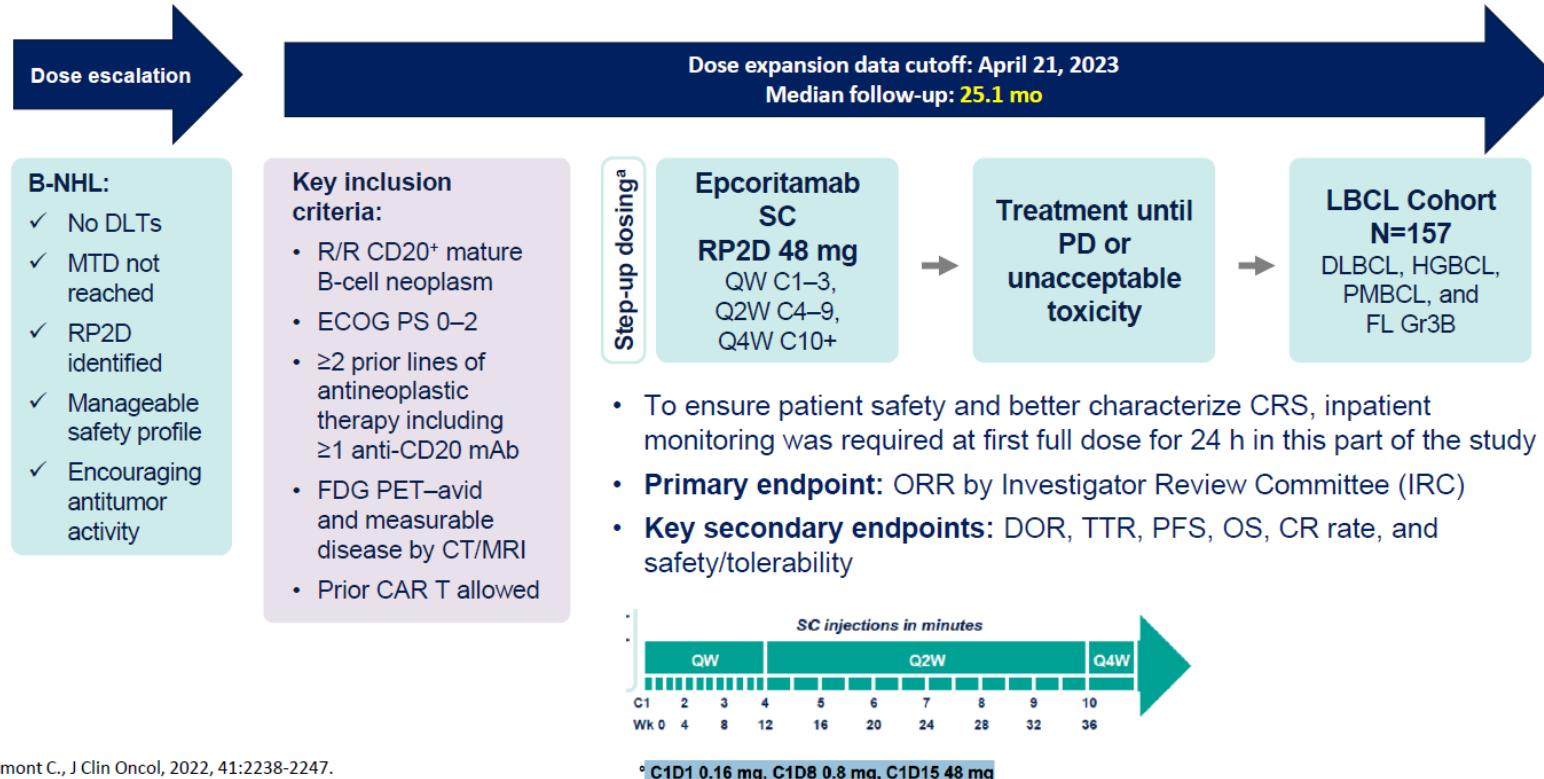
*Data cut-off: June 28, 2021; †Data cut-off: June 15, 2022; ‡Data cut-off: July 5, 2024; §CR assessment occurred at the 0-month timepoint.

CR, complete remission; DFS, disease-free survival; DoCR, duration of complete remission.



Salles G et al, Oral Presentation ASH 2024 (abstract #469).

Epcoritamab in aggressive LBC



Thieblemont C, J Clin Oncol, 2022, 41:2238-2247.



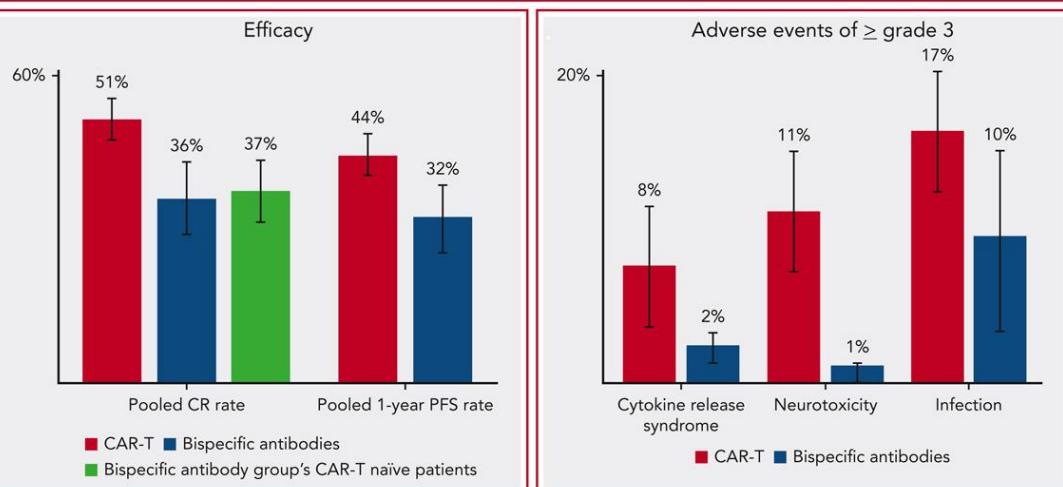
CAR-T: e la storia continua...migliorando



Roma, 9 Aprile 2025

Comparison of CAR T-Cell Therapy and Bispecific Antibodies As Third-Line or Later Treatment for Diffuse Large B-Cell Lymphoma (DLBCL): A Meta-Analysis

CAR-T cell therapy: 10 studies including 742 patients
Bispecific antibodies: 6 studies including 605 patients



Conclusion: In patients with relapsed/refractory DLBCL, CAR-T cell therapy has demonstrated superior efficacy compared to bispecific antibodies, although with a higher incidence of severe adverse effects.

Kim et al. DOI: 10.1182/blood.2023023419

blood
Visual
Abstract



CAR-T: e la storia continua...migliorando



Roma, 9 Aprile 2025