

ALGORITMO TERAPEUTICO LINFOMI B DIFFUSI A GRANDI CELLULE

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STRUTTURA COMPLESSA DI EMATOLOGICA PRESIDIO OSPEDALIERO DI TREVISO

HIGHLIGHTS IN EMATOLOGIA TREVISO, 22-23 NOVEMBRE 2024

Disclosures of Piero Maria Stefani

Company name	Research support	Employee	Consultant	Stockholder	Speakers bureau	Advisory board	Other
INCYTE					X		
GENTILI					X		
JANSSEN					X		
GILEAD					X		
EUSAPHARMA					X		
TAKEDA					x	Х	
ROCHE					X	X	

Diffuse Large B-Cell Lymphoma. LH. Sehn, G. Salles. N Engl J Med. 2021 March 04; 384(9): 842–858.

1.00-Probability of Survival 0.75-0.50-Time to progression 0.25-Progression-free survival Overall survival 0.00-2 8 10 0 9 Years

Outcomes of Patients with DLBCL

R-CHOP: ANCORA LO STANDARD?



POLARIX Study design overview



*Western Europe, United States, Canada and Australia vs Asia vs Rest of World. BICR, blinded independent central review; CR, complete response; ECOG PS, Eastern Cooperative Oncology Group performance status; EFSerficaev, event-free survival for efficacy causes (time from randomization to the earliest occurrence of disease progression/relapse, death due to any cause, initiation of any non-protocol specified anti-lymphoma treatment, or biopsy-confirmed residual disease after treatment completion); EOT, end of treatment; INV, investigator; IPI, International Prognostic Index; LYSA, Lymphoma Study Association; PET, positron emission tomography; Q21D, every 21 days; R, randomization; R-CHP, rituximab plus cyclophosphamide, doxorubicin, prednisone.

Polatuzumab Vedotin in Previously Untreated Diffuse Large B-Cell Lymphoma

Tilly H, et al. New Engl J Med 2022;386:351-63



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Table 2. Efficacy (Intention-to-Treat Population).				
Variable	Pola-R-CHP (N = 440)	R-CHOP (N=439)	Hazard Ratio (95% CI)	P Value
Progression-free survival*				
Patients who died or had progression or relapse — no. (%)	107 (24.3)	134 (30.5)	0.73 (0.57-0.95)	0.02
Earliest event — no.				_
Death	19	20		
Progression or relapse	88	114		
Estimate at 1 year (95% CI) — %	83.9 (80.4-87.4)	79.8 (75.9-83.6)		
Estimate at 2 years (95% CI) — %	76.7 (72.7-80.8)	70.2 (65.8-74.6)		
Event-free survival*				_
Patients who died, had progression or relapse, or had other events — no. (%)†	112 (25.5)	138 (31.4)	0.75 (0.58-0.96)	0.02
Earliest event — no.				
Death	18	20		
Progression or relapse	86	106		
Other†	8	12		
Estimate at 2 years (95% CI) — %	75.6 (71.5-79.7)	69.4 (65.0-73.8)		
Response status at treatment completion:				
Overall response — no. (%)	376 (85.5)	368 (83.8)		
Complete response	343 (78.0)	325 (74.0)		
Partial response	33 (7.5)	43 (9.8)		
Stable disease — no. (%)	8 (1.8)	6 (1.4)		
Progressive disease — no. (%)	22 (5.0)	28 (6.4)		
Not evaluated or data missing — no. (%)	34 (7.7)	37 (8.4)		
Overall survival				_
Patients who died — no. (%)	53 (12.0)	57 (13.0)	0.94 (0.65-1.37)	0.75
Estimate at 2 years (95% CI) — %	88.7 (85.7-91.6)	88.6 (85.6-91.6)		
Disease-free survival§				
No. of patients who could be evaluated¶	381	363		
Patients who died or had relapse — no. (%)	62 (16.3)	79 (21.8)	0.70 (0.50-0.98)	
Earliest event — no.				
Death	8	13		
Relapse	54	66		

* Events of progression or relapse were assessed by the investigator.

† Other events are subsequent therapy for lymphoma or biopsy-confirmed residual disease after treatment.

* Response was assessed by an independent central review committee.

§ Events of relapse were assessed by the investigator.

Patients who had a best response of complete response at any time during the trial could be evaluated for disease-free survival; see Table S3.

Safety: common adverse events



Table 3. Adverse Events during the Treatment Period (Safety Population).*					
Adverse Event	Pola-R-CHP (N=435)		R-CHOP (N = 438)		
	Any Grade	Grade 3 or 4	Any Grade	Grade 3 or 4	
		number of pati	ents (percent)		
Peripheral neuropathy†	230 (52.9)	7 (1.6)	236 (53.9)	5 (1.1)	
Nausea	181 (41.6)	5 (1.1)	161 (36.8)	2 (0.5)	
Neutropenia	134 (30.8)	123 (28.3)	143 (32.6)	135 (30.8)	
Diarrhea	134 (30.8)	17 (3.9)	88 (20.1)	8 (1.8)	
Anemia	125 (28.7)	52 (12.0)	114 (26.0)	37 (8.4)	
Constipation	125 (28.7)	5 (1.1)	127 (29.0)	1 (0.2)	
Fatigue	112 (25.7)	4 (0.9)	116 (26.5)	11 (2.5)	
Alopecia	106 (24.4)	0	105 (24.0)	1 (0.2)	
Decreased appetite	71 (16.3)	5 (1.1)	62 (14.2)	3 (0.7)	
Pyrexia	68 (15.6)	6 (1.4)	55 (12.6)	0	
Vomiting	65 (14.9)	5 (1.1)	63 (14.4)	3 (0.7)	
Febrile neutropenia	62 (14.3)	60 (13.8)	35 (8.0)	35 (8.0)	
Headache	56 (12.9)	1 (0.2)	57 (13.0)	4 (0.9)	
Cough	56 (12.9)	0	53 (12.1)	0	
Decreased weight	55 (12.6)	4 (0.9)	52 (11.9)	1 (0.2)	
Asthenia	53 (12.2)	7 (1.6)	53 (12.1)	2 (0.5)	
Dysgeusia	49 (11.3)	0	57 (13.0)	0	

Tilly H, et al. New Engl J Med 2022

OS remained similar between treatment arms



No new safety signals have been identified with longer follow-up compared with the primary analysis

Tilly H, et al. N Engl J Med 2022;386:351–63. Herrera AF. et al. ASH 2022. Oral presentation 542

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		Pola (N	a-R-CHP (=440)	R- (N	CHOP =439)								
Baseline Risk Factors	Total N	n	2-year Rate	n	2-year Rate	Hazard Ratio	95% Wald Cl	Pola-R-CHP Better	R-CHOP Better	Polatu	zumab Vedotii	n in Previously	
Age group ≤60 >60	271 608	140 300	74·1 77·9	131 308	71-9 69-5	0·9 0·7	(0·6 to 1·5) (0·5 to 0·9)			Untreated	Diffuse Large	B-Cell Lympho	ma
Sex Male Female	473 406	239 201	75·9 77·7	234 205	65-9 75-2	0·7 0·9	(0·5 to 0·9) (0·6 to 1·4)						
ECOG PS 0-1 2	737 141	374 66	78·4 67·2	363 75	71-2 65-0	0·8 0·8	(0-6 to 1-0) (0-5 to 1-4)		-	Be	est overall	response	
IPI score IPI 2 IPI 3–5	334 545	167 273	79·3 75·2	167 272	78-5 65-1	1·0 0·7	(0.6 to 1.6) (0.5 to 0.9)	-		¹⁰⁰		_	
Bulky disease Absent Present	494 385	247 193	82·7 69·0	247 192	70-7 69-7	0.6 1.0	(0-4 to 0-8) (0-7 to 1-5)			80 -			
Geographic region Western Europe, United States, Canada, and Australia	603	302	78.6	301	72.0	0.8	(0·6 to 1·1)		4	8 ⁷⁰			
Asia Rest of world	160 116	81 57	74.3 70.8	79 59	65.6 67.3	0.6 0.9	(0-4 to 1-5) (0-6 to 1-5)		H	• ⁰⁰	CP	CP	
Ann Arbor stage I–II III IV	99 232 548	47 124 269	89·1 80·7 72·6	52 108 279	85·5 73·6 66·1	0.6 0.8 0.8	(0-2 to 1-8) (0-5 to 1-3) (0-6 to 1-1)			atien 0 - 05	ÖK		
Baseline LDH ≤ULN >ULN	300 575	146 291	78·9 75·4	154 284	75-6 67-2	0·8 0·7	(0.5 to 1.3) (0.5 to 1.0)			30			
No. of extranodal sites 0–1 ≥2	453 426	227 213	80·2 73·0	226 213	74-5 65-8	0·8 0·7	(0-5 to 1-1) (0-5 to 1-0)			20 • 10 •			
Cell-of-origin GCB ABC Unclassified Unknown	352 221 95 211	184 102 44 110	75-1 83-9 73-0 73-8	168 119 51 101	76-9 58-8 86-2 64-3	1.0 0.4 1.9 0.7	(0.7 to 1.5) (0.2 to 0.6) (0.8 to 4.5) (0.4 to 1.2)	• O		o 🚣	Pola=R∞CHP	R-CHOP	-
Double expressor by IHC DEL Non DEL Unknown	290 438 151	139 223 78	75-5 77-7 76-0	151 215 73	63·1 75·7 69·8	0.6 0.9 0.8	(0-4 to 1-0) (0-6 to 1-3) (0-4 to 1-5)	0			(N=440)	(N=439)	
Double- or triple-hit lymphoma Yes No Unknown	45 620 214	26 305 109	69-0 76-8 78-5	19 315 105	88·9 70·3 66·4	3·8 0·7 0·6	(0-8 to 17-6) (0-5 to 1-0) (0-4 to 1-1)		• •	Subgroup An	alysis of Investigator-a	ssessed PFS (ITT Populat	tion).
							0-	25	1 5	5		Tilly H, et al. New Engl J Med 20	J22;38f

Tilly H, et al. New Engl J Med 2022;386:351-63

PFS benefit with Pola-R-CHP vs R-CHOP was maintained with longer follow-up



Tilly H, et al. N Engl J Med 2022;386:351-63.

Herrera AF, et al. ASH 2022. Oral presentation 542.

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 Salles. Oral Presentation ASH 2024 abstract #469

ITT population. Pola-R-CHP: 440; R-CHOP: 439. Expanded population. Pola-R-CHP: 500; R-CHOP: 500. In the global ITT population (mFU 60.9 months): 5-year PFS: 64.2% vs. 59.1% with Pola-R-CHP vs R-CHOP. 5-year OS: 82.2% vs. 79.6% 5-year DFS: 71.3% vs 65.5%.

In the expanded population (mFU 60.5 m): 5-year PFS 63.1% vs. 59.1% with Pola-R-CHP vs R-CHOP. 5-year OS 82.2% vs. 79.0% with Pola-R-CHP vs R-CHOP, with no statistically significant difference. 5-year DFS 69.4% vs 65.1%.

Safety profiles were comparable with Pola-R-CHP vs R-CHOP.

The number of pts requiring subsequent systemic lymphoma therapy was 106 (21%) vs 145 (29%) with Pola-R-CHP vs R-CHOP.

The cumulative incidence of lymphoma-related death at 5 years was 9.1% vs 12.2% for Pola-R-CHP vs R-CHOP. **Conclusions:** Extended 5-year follow-up of POLARIX demonstrated sustained and significant PFS and DFS benefits for pts receiving Pola-R-CHP vs R-CHOP. **These outcomes confirm Pola-R-CHP as a standard of care for pts with previously untreated intermediate- or high-risk DLBCL.**

Pola-RCHP scheda AIFA

DLBCL IPI 3

BLOCCHI:

- ECOG >3
- NEUROPATIA G>1
- Coinvolgimento SNC
- FL G3b
- Indolente trasformato
- Epatopatia: Child-Pugh B e C
- Presenza di malattia cardiovascolare o polmonare clinicamente grave

Smart Start: Rituximab, Lenalidomide, and Ibrutinib in Patients With Newly Diagnosed Large B-Cell Lymphoma

Jason Westin, MD, MS¹; R. Eric Davis, MD¹; Lei Feng, MS²; Fredrick Hagemeister, MD¹; Raphael Steiner, MD¹; Hun Ju Lee, MD¹;



Supplemental Figure 1 Legend: A cycle of therapy was 21 days. Therapy on cycle 1 and 2 consisted of rituixinal 578mg/m2. Iv on day 1, bindlinb 550mg constrained to 420mg constrained value (r58 sectors old), and lenationaide 25mg construdays 1-10 (RLI). Therapy on cycles 3 – 8 consisted of RLI with either CHOP (cyclophosphamide 750mg/m2 / von day 1, doxonubicis. 50mg/m2 / von days 1-4, Prednisone 100mg oraily days 1-5, vincristine 0.4mg/m2/day 1 <-0.01thuous days 1-4, Prednisone 100mg oraily days 1-4, V continuous days 1-4, Prednisone 100mg oraily days 1-4, V continuous days 1-4, Prednisone 100mg oraily days 1-4, V continuous days 1-4, Prednisone 100mg oraily days 1-4, V continuous days 1-4, Prednisone 100mg oraily days 1-4, V continuous days 1-4, Prednisone 100mg oraily days 1-4, V continuous days 1-4, Prednisone 100mg oraily days 1-4, V continuous days 1-4, Prednisone 100mg oraily days 1-4, V continuous days 1-4, Prednisone 100mg oraily days 1-4, V continuous days 1-4, Prednisone 100mg oraily days 1-4, V continuous days 1-4, Prednisone 100mg oraily days 1-4, V continuous days 1-4, Prednisone 100mg oraily days 1-4, V continuous days 1-4, Prednisone 100mg oraily days 1-4, V continuous days 1-4, Prednisone 100mg oraily days 1-4, V continuous days 1-4, Prednisone 100mg oraily days 1-4, Prednisone 100mg orai



60 patients non-GCB DLBCL

single-arm phase II trial of rituximab, lenalidomide, and ibrutinib (RLI) with the sequential addition of chemotherapy RESULTS The median age was 63.5 years (range, 29-83 years) with 28% age 70 years or older. R-IPI identified 42% as HR, and 62% were DE.

The ORR after two cycles of RLI was 86.2%, and the complete response rate at the end of RLI- chemotherapy

was 94.5%.

With a mFU of 31 months, the PFS and OS were at 91.3% and 96.6% at 2 years, respectively.



J Clin Oncol 41:745-755. © 2022 by American Society of Clinical Oncology

Smart Stop: Lenalidomide, Tafasitamab, Rituximab, and Acalabrutinib Alone and with Combination Chemotherapy for the Treatment of Newly Diagnosed Diffuse Large B-Cell Lymphoma, Jason Westin, (ASH 2023 oral presentation #856)



52 patients

The median age was 61 years (range: 32-85) 67% of patients have poor risk R-IPI, 77% had advanced stage 83% had the non-GCB subtype and 17% had the GCB subtype of DLBCL.

After 4 cycles of LTRA, the ORR is 100% and the CRR is 64%. After an additional 2 cycles of LTRA-CHOP, the ORR is 100% and the CRR is 95%.

At end of all therapy, the CRR is 100% To date, no patient has progressive lymphoma-47% of patients experienced rash (13% grade 3), and 40% of patients required a dose reduction of lenalidomide.

Conclusions: The Smart Stop trial demonstrates that combination of lenalidomide, tafasitamab, rituximab, and acalabrutinib is highly effective as an initial chemotherapy-free combination in patients with newly diagnosed DLBCL, and may allow for a response adapted reduction in chemotherapy.

ESCALADE (ACE-LY-312): Phase 3, Randomized, Double-Blind Study of Acalabrutinib With R-CHOP in Subjects With Previously Untreated Non-GCB Subtype DLBCL (NCT04529772)



Key Inclusion Criteria

- Adults ≥18y and ≤75y
- Histologically documented DLBCL (confirmation of non-GCB subtype by centralized gene expression profiling)
- No prior treatment for DLBCL
- ECOG PS 0-2
- Stage II–IV disease
- IPI score of 1–5

Key Exclusion Criteria

- Known CNS lymphoma or leptomeningeal disease
- Primary mediastinal lymphoma
- High-grade B-cell lymphoma with MYC and BCL2 and/or BCL6 rearrangements
- History of indolent lymphoma or CLL
- · History of, or ongoing confirmed PML
- Significant cardiovascular diseas

Study start date: October 8, 2020 Estimated study completion date:

Key Trial Dates

February 5, 2027

Current status: Recruiting

Stratification: IPI3/aaIPI2 vs IPI4-5/aaIPI3, Region

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FRONTMIND

A Phase 3, multicenter, randomized, trial comparing the efficacy and safety of Tafasitamab plus Lenalidomide in addition to R-CHOP versus R-CHOP in previously untreated high-intermediate and high-risk patients DLBCL



and D15 of each cycle +25mg/day lenalidomide (D1-D10) Previously untreated + R-CHOP x 6 cycles q21 days DLBCL and HGBL End of Treatment n≈440 patients • Age ≥ 18 to 80 Screening IPI 3-5 + aaIPI 2-3 R • ECOG 0-2 1:1 Diagnosis to tx interval ≤ 28 days Control Arm: · Candidate for R-Tafasitamab placebo D1, D8 CHOP and D15 of each cycle + lenalidomide placebo (D1-D10) + R-CHOP x 6 cycles q21 days $n \approx 440$

PI : Umberto Vitolo

FONDAZIONE ITALIANA LINFOMI



Stratification Factors

IPI 2 vs IPI 3-5
bulky disease defined as one lesion ≥7.5 cm (present vs absent)

Primary EP: PFS with 2-year follow-up (IRC)

Key Secondary EPs*: PFS in IPI 3-5 (IRC), OS, EFS_{efficacy} (IRC) **Selected Secondary EPs** (no adjustment for multiplicity): PFC (INV), ORR, DOR, DOCR, DFS, safety, PK, PROs, ctDNA

Exploratory: Biomarkers

Dickinson M, et al. ASCO 2023, doi:10.1200/JCO.2023.41.16_suppl.7549 https://classic.clinicaltrials.gov/ct2/show/study/NCT06047080

Study NCT06047080. ClinicalTrials.gov website

Epcoritamab + R-CHOP as first line therapy in High-Risk DLBCL

Study design: EPCORE NHL-2 arm 1

Arm 1 of EPCORE NHL-2, a phase 1b/2, open-label, multicenter trial, is evaluating the safety and antitumor activity of SC epcoritamab + standard R-CHOP for 6 cycles of 21 days, followed by epcoritamab monotherapy for a total of 1 year, in adults with previously untreated DLBCL with high-risk features^a



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IMMUNOTERAPIA CELLULARE



CAR T vs. SoC in 2^a linea per i DLBCL R/R - EFS



Cross-study comparisons cannot be made due to differences in study designs, endpoint definitions and patient populations 1.Locke FL, et al. ASH 2021 (Abstract 2). 2. Locke FL, et al. N Engl J Med 2022; 3. Abramson R, et al. Blood 2022. 4. Bishop MR, et al. ASH 2021 (Abstract LBA6). 5. Bishop MR, et al. N Engl J Med 2022. Axicabtagene ciloleucel è rimborsato in italia per il trattamento di pazienti adulti con DLBCL e linfoma primitivo del mediastino a grandi cellule B (PMBCL) refrattari o recidivanti, dopo due o più linee di terapia sistemica

CAR T-cell therapy vs. SoC in 2L DLBCL - Safety

	ZUMA-7		TRANS	SFORM	BELINDA	
	SoC	Axi-Cel	SoC	Liso-cel	SoC	Tisa-cel
Ν	168	170	91	92	160	162
Grade 3–5 AEs	83%	91%	87%	92%	84%	90%
Grade 3–5 haematological toxicity Anaemia Thrombocytopenia Neutropenia Febrile neutropenia	39% 57% 41% 27%	30% 15% 69% 2%	49% 64% 51% 24%	49% 49% 80% 15%	57% 47% 39% 25%	33% 32% 40% 13%
Grade 3–5 infections	11%	14%	21%	15%	15%	17%
Prolonged cytopenias	19%	29%	3%	43%	N/A	N/A
CRS Grade 1–2						
Grade 3–5		86%		48%		53.7%
Onsel / Duration (median)		3 / 7 d		5 / 4 d		4.9% N/A
Neurological events Grade 1–2						
Grade 3–5	19%	39%		7%		8.4%
Onset / Duration (median)	1% 23 / 23 d	21% 7/9d		4% 11 / 6 d		1.9% N/A
Toxic deaths (due to AEs)	2 (1%)	7ª (4%)	2 (2%)	1 (1%)	13 (8.1%)	10 (6.2%)

ZUMA 7: Axi vs. SOC in first relapse

s Imholf GW, et al. / Clin Oncol. 2017;35:544-551). * «40% for those with prior rituxim atic; LICL, large B-cell lymphoma; R/R, relapsed/refractory; SOC, standard of care. Westin et al. ICML 2023 Abstract



Survival Benefit Favoring Axi-Cel Was Similar Across Key Prespecified Subgroups

	Axi-Cel		SOC				(95%	% CI)
No	of Patients	s With Eve	nts/Tota	I No.		Hazard Ratio	LCI	UCI
Overall*	82/180	9	5/179	-	←	0.726	0.540	0.977
Age								
<65 y	56/129	64	/121		•	0.779	0.541	1.120
≥65 y	26/51	3	1/58	H	i+ι-	0.691	0.401	1.190
Response to first-line therapy at randomization								
Primary refractory disease	66/133	73	2/131	F	•	0.773	0.553	1.080
Relapse ≤12 mo after initiation or completion of first-line therapy	16/47	2	3/48		+++	0.586	0.308	1.116
Second-line age-adjusted IPI								
0 or 1	37/98	41	0/100	⊢	i	0.842	0.538	1.317
2 or 3	45/82	5	5/79	-	H-I	0.647	0.436	0.962
Prognostic marker according to central laboratory								
HGBL, double-hit	14/32	1	4/25	—	↓	0.716	0.330	1.553
Double-expressor lymphoma	26/57	3	3/62		↓	0.729	0.435	1.221
		0.1	0.2	0.5	1	2		
				Avi-Cel F	Retter Stand	ard Care Better		

* Dashed vertical line is shown at 0.726, which is the overall survival hazard ratio for death among all patients in the axi cel ann versus the SOC ann. Axi cel, axicaltagene cloleuce; HGBL, high-grade 8-cell \mmphoma; IPL International Prognostic Index; (CL, lower confidence interval; SOC, standard of care; UCL, upper confidence interva

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TRANSFORM: Liso vs. SOC in first relapse

Patient demographics and baseline disease characteristics by prior response status (ITT set)

	Refr	actory	Rela	osed
	Liso-cel arm (n = 67)	SOC arm (n = 70)	Liso-cel arm (n = 25)	SOC arm (n = 22)
Male, n (%)	34 (51)	47 (67)	10 (40)	14 (64)
Age, median (range), y	61 (21-74)	56 (26-75)	56 (20-71)	65 (28-72)
LBCL types,* n (%)				
DLBCL NOS	39 (58)	34 (49)	14 (56)	16 (73)
HGBCL with rearrangements in MYC and BCL2, BCL6, or both ^b	18 (27)	19 (27)	4 (16)	2 (9)
PMBCL	5 (7)	7 (10)	3 (12)	2 (9)
DLBCL transformed from any indolent lymphoma	4 (6)	7 (10)	3 (12)	1 (5)
THRBCL	1 (1)	3 (4)	0	1 (5)
FL3B	0	0	1 (4)	0
LBCL subtype based on cell of origin, n (%)				
GCB	36 (54)	32 (46)	9 (36)	8 (36)
ABC, non-GCB	12 (18)	23 (33)	9 (36)	6 (27)
ECOG PS, n (%)				
0	32 (48)	40 (57)	16 (64)	17 (77)
1	35 (52)	30 (43)	9 (36)	5 (23)
sAAIPI, n (%)				
0 or 1	42 (63)	40 (57)	14 (56)	15 (68)
2 or 3	25 (37)	30 (43)	11 (44)	7 (32)
LDH ≥ 500 U/L	7 (10)	9 (13)	3 (12)	2 (9)
SPD > 50 cm ²	6 (9)	9 (13)	4 (16)	1 (5)



PFS in the overall study population: NR (95% CI, 12.6–NR) versus 6.2 months (95% CI, 4.3–8.6); HR, 0.400; 95% CI, 0.261–0.615; P < 0.0001¹

Most common TEAEs by prior response status (safety set)

	Refra	Refractory		osed
	Liso-cel arm (n = 67)	SOC arm (n = 69)	Liso-cel arm (n = 25)	SOC arm (n = 22)
Any-grade TEAE, n (%)	67 (100)	68 (99)	25 (100)	22 (100)
TEAEs ≥ 30% in any liso-cel subgroup arm, n (%)				
Neutropenia	56 (84)	39 (57)	20 (80)	11 (50)
Anemia	48 (72)	46 (67)	14 (56)	16 (73)
Thrombocytopenia	40 (60)	52 (75)	15 (60)	14 (64)
CRS	33 (49)	0	12 (48)	0
Nausea	32 (48)	40 (58)	17 (68)	13 (59)
Fatigue	26 (39)	26 (38)	11 (44)	11 (50)
Headache	24 (36)	15 (22)	16 (64)	6 (27)
Pyrexia	21 (31)	18 (26)	7 (28)	5 (23)
Constipation	20 (30)	19 (28)	10 (40)	5 (23)
Dizziness	14 (21)	8 (12)	8 (32)	5 (23)

- Incidences of grade 3–4 TEAEs were mostly similar between liso-cel-treated patients with refractory or relapsed disease, except anemia (57% vs 40%, respectively)
- Results were consistent with the overall TRANSFORM population

Response rates per IRC by prior response status (ITT set)



CR rates favored liso-cel over SOC in both subgroups, consistent with the overall study population (liso-cel, 74% [95% CI, 63.7-82.5] vs SOC, 43% [95% CI, 33.2-54.2]; P < 0.0001),¹ though differences between treatment arms were larger in patients with refractory disease

PFS per IRC by prior response status (ITT set)

CART per DLBCL RR in III linea

Anti-CD19 CAR-T Cell Therapies in R/R 3rd line LBCL (2)

	KTE-C19 Axi-cel	CTL019 Tisagenlecleucel	JCAR017 Liso-cel	
Vector	Gammaretroviral	Lentiviral	Lentiviral	
Costimulatory domain	CD28	4-1BB	4-1BB	
Disease state	DLBCL, TFL, PMBCL	DLBCL, TFL	DLBCL, PMBCL, T-iNHL, FL3B	
ORR	84%	54%	73%	
CR Rate	58%	40%	53%	
Median follow-up (months)	27	32	12	
Median PFS (months)	5.9	2.9	6.8	
Median DOR (months)	NR	NR	NR	
		44.4	01	

CD19 CART in \geq 3rd line LBCL: comparison with "SoC"







Neelapu SS et al, Blood 2023

BLOCCHI AIFA A PRESCRIVIBILITA' CAR-T

- Sdr. di Richter e PCNSL (solo Axi)
- ECOG >2
- a/cGVHD
- ASCT < 12 m
- Precedente terapia anti-CD19
- Assente espressione di CD19 dopo terapia anti-CD19
- Localizzazione attiva CNS
- Epilessia nei 3 mesi precedenti
- Uso concomitante di anticorpi monoclonali anti-EGFR (solo Liso)
- trombosi nei 6 mesi precedenti
- neutrofili < 1.000/mcl, linfociti < 100/mcl, piastrine < 75.000/mcl, emoglobina < 8 g/dl

- patologia autoimmune con danno d'organo terminale o trattata con terapia sistemica immunosoppressiva o disease modifying nei due anni precedenti
- Cr Cl < 60 ml/min (Cr Cl >30 ml/min solo Liso)
- AST e ALT >2,5 volte il limite superiore normale per età, bilirubina > 1,5 mg/dl o > 3 nei pazienti affetti da sindrome di Gilbert
- frazione di eiezione < 50%, (frazione di eiezione < 45% solo Tisa)
- dispnea > 1, sO₂ < 92% in aria ambiente, versamento pericardico.

Patient monitoring key moments for 2L CAR-T usage



Validation of the ΔSUV_{max} for Interim PET Interpretation in Diffuse Large B-Cell Lymphoma on the Basis of the GAINED Clinical Trial

Emmanuel Itti



CONCLUSION

Assessment of interim metabolic response by –Menton 2011 criteria is quite reproducible and translatable to routine practice. However, we recommend the use of the ΔSUV_{max} alone for interim PET evaluation in DLBCL as many patients with PET-negative scan results and interim SUV_{max} of greater than 5.0 are considered to have PET-positive scan results when Menton 2011 is used. These special cases demonstrate similar or better outcome when using the ΔSUV_{max} alone and better agreement between local and central readers. The only situation where ΔSUV_{max} is less than 10.0.



FIGURE 2. Kaplan-Meier estimates of progression-free survival according to metabolic response at PET2 and PET4 using Menton 2011 criteria (per protocol) (A) and ΔSUV_{max} alone (post hoc analysis) (B).

J Nucl Med 2023; 64:1706-1711

Tafasitamab for patients with relapsed or refractory diffuse large B-cell lymphoma: final 5-year efficacy and safety findings in the phase II L-MIND study

Johannes Duell, Haematologica | 109 February 2024



Tx: tafa 12 mg/kg IV/lena 25 mg d1-21 for up to 12 cycles (28d) -> tafasitamab monotherapy (once every 2 weeks) in patients with SD or better, until progressive disease.

Characteristics	Primary analysis	3-year follow-up	Final 5-year data	5-year data for patients with 1 prior line of therapy,	5-year data for patients with ≥2 prior lines of
				N=40	therapy, N=40
Data cut-off date	Nov 30, 2018	Oct 30, 2020	Nov 14, 2022	Nov 14, 2022	Nov 14, 2022
Best ORR, N (%)	48 (60.0)	46 (57.5)	46 (57.5)	27 (67.5)	19 (47.5)
[95% Cl]	[48.4-70.9]	[45.9-68.5]	[45.9-68.5]	[50.9-81.4]	[31.5-63.9]
CR rate, N (%)	34 (42.5)	32 (40.0)	33 (41.3)	21 (52.5)	12 (30.0)
[95% Cl]	[32.0-54.0]	[29.2-51.6]	[30.4-52.8]	[36.1-68.5]	[16.6-46.5]
PR rate, N (%)	14 (17.5)	14 (17.5)	13 (16.3)	6 (15.0)	7 (17.5)
[95% Cl]	[10.0-28.0]	[9.9-27.6]	[8.9-26.2]	[5.7-29.8]	[7.3-32.8]
Median DoR in months	21.7	43.9	NR	NR	NR
[95% Cl]	[21.7-NR]	[26.1-NR]	[33.8-NR]	[9.1-NR]	[26.1-NR]
Median PFS in months	12.1	11.6	11.6	23.5	7.6
[95% Cl]	[5.7-NR]	[6.3-45.7]	[5.7-45.7]	[7.4-NR]	[2.7-45.5]
Median OS in months	NR	33.5	33.5	NR	15.5
[95% CI]	[18.3-NR]	[18.3-NR]	[18.3-NR]	[24.6-NR]	[8.6-45.5]

Tafasitamab for patients with relapsed or refractory diffuse large B-cell lymphoma: final 5-year efficacy and safety findings in the phase II L-MIND study

Johannes Duell,



Haematologica | 109 February 2024

RE-MIND: Comparing Tafasitamab - Lenalidomide (L-MIND) with a Real-world Lenalidomide Monotherapy Cohort in Relapsed or Refractory Diffuse Large B-cell Lymphoma. Zinzani PL. Clin Cancer Res 2021;27:6124–34



Improved Efficacy of Tafasitamab plus Lenalidomide versus Systemic Therapies for Relapsed/Refractory DLBCL: RE-MIND2, an Observational Retrospective Matched Cohort Study. Nowakowski GS. Clin Cancer Res 2022;28:4003–17



In conclusion, a significant clinical advantage in OS was observed in the cohort treated with tafasitamab plus lenalidomide in a clinical trial versus matched observational cohorts treated with pooled systemic therapies, BR, and R-GemOx. In the context of current treatments, these data further highlight the clinical value of the tafasitamab plus lenalidomide combination in patients with R/R DLBCL.

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RE-MIND2: comparative effectiveness of tafasitamab plus lenalidomide versus polatuzumab vedotin/bendamustine/ rituximab (pola-BR), CAR-T therapies, and lenalidomide/rituximab (R2) based on real-world data in patients with relapsed/refractory diffuse large B-cell lymphoma

Grzegorz S. Nowakowski¹ • Dok Hyun Yoon² · Patrizia Mondello³ · Erel Joffe³ · Anthea Peters⁴ · Isabelle Fleury⁵ · Annals of Hematology (2023) 102:1773–1787



Fig.3. ORR and CR rate for tafasitamab plus lenalidomide versus pola-BR, R2, and CAR-T therapies. Abbreviations: *CAR-T*, CD19 chimeric antigen receptor T-cell therapy; *CI*, confidence interval; *CR*, complete response; *LEN*, lenalidomide; *ORR*, overall response rate; *pola-BR*, polatuzumab vedotin + bendamustine + rituximab; *R2*, rituximab + lenalidomide



Loncastuximab tesirine in relapsed/refractory diffuse large B-cell lymphoma: long-term efficacy and safety from the phase II LOTIS-2 study Paolo F. Caimi, Haematologica | 109 April 2024

Enrolment period: August 2018 – Sept 2019

145 patients were enrolled in US, UK, Italy, Switzerland Screening **Treatment period** Follow-up period (≤3 period (≤28 d) ≤1 year years) End of treatmen Lonca as a 30-min IV infusion on day 1 of each cycle Q3W Relapsed / Visits approximately refractory every 12 weeks DLBCL 150 µg/kg 75 µg/kg **First 2 cycles** Cvcle 3 onwards* Lonca beyond 1 year allowed if patient benefiting clinically

- Patients received oral dexamethasone premedication per protocol
- Disease assessment by central independent review using PET-CT at baseline, W6, W12, then Q9W until EOT During the follow-up period, patients who discontinued Lonca for reasons other than PD or initiation of other anti-cancer therapy except SCT had imaging performed every 12 weeks until 1 year from EOT, then every 6 months, until progression up to 3 years from EOT
- Data cut-offs: •
 - Primary analysis: April 6, 2020³, median follow-up of 7.3 months⁴
 - Follow-up analysis: March 1, 2021, median follow-up of 7.8 months⁵
 - Final analysis: September 15, 2022, median follow-up of 7.8 months⁴

* Patients continued on treatment for up to one year or until disease relapse or progression, unacceptable toxicity, death, major protocol deviation, pregnancy, or patient, investigator, or sponsor decision. † If agreed with the sponsor. d, days; DLBCL, diffuse large B-cell lymphoma; EOT, end of treatment; IV, intravenous; Lonca, loncastuximab tesirine; PD, progressive disease; PET-CT, positron emission tomography-computed tomography; Q3W, every 3 weeks; Q9W, every 9 weeks; SCT, stem cell transplantation; W, week.

1. ClinicalTrials.gov NCT03589469 2. LOTIS-2 study protocol 2019 3. Caimi et al. Lancet Oncol 2021 4. Caimi et al. Haematologica 2023 5. Zinzani et al. ICML 2021.

Loncastuximab tesirine in relapsed/refractory diffuse large B-cell lymphoma: long-term efficacy and safety from the phase II LOTIS-2 study

Paolo F. Caimi, Haematologica | 109 April 2024



All patients (N=64)

	All-treated N=145	Best response of CR N=36	Patients with CR who were event-free ≥1 year N=16	Patients with CR who were event-free ≥2 years N=11
Sex, N (%)				0.404.00
Female	60 (41.4)	22 (61.1)	13 (81.3)	9 (81.8)
Age in years, N (%) Median (range) <65 ≥65 to <75 ≥75	66.0 (23-94) 65 (44.8) 59 (40.7) 21 (14.5)	67.5 (45-94) 13 (36.1) 15 (41.7) 8 (22.2)	71.0 (53-84) 3 (18.8) 7 (43.8) 6 (37.5)	70.0 (53-82) 3 (27.3) 5 (45.5) 3 (27.3)
Race, N (%) White Black or African American Asian Other	130 (89.7) 5 (3.4) 3 (2.1) 7 (4.8)	34 (94.4) 1 (2.8) 0 1 (2.8)	15 (93.8) 0 0 1 (6.3)	11 (100) 0 0 0
ECOG score, N (%) 0 1 2	58 (40.0) 78 (53.8) 9 (6.2)	19 (52.8) 14 (38.9) 3 (8.3)	9 (56.3) 6 (37.5) 1 (6.3)	7 (63.6) 3 (27.3) 1 (9.1)
Histology,ª N (%) DLBCL, NOS HGBCL ^b Primary mediastinal DLBCL	128 (88.3) 10 (6.9) 7 (4.8)	31 (86.1) 5 (13.9) 0	11 (68.8) 5 (31.3) 0	8 (72.7) 3 (27.3) 0
Transformed DLBCL, N (%)	30 (20.7)	7 (19.4)	4 (25.0)	2 (18.2)
Double/triple hit, N (%) Double hit Triple hit	12 (8.3) 3 (2.1)	5 (13.9) 0	5 (31.3) 0	3 (27.3) 0
Stage, N (%) I-II III-IV	33 (22.8) 112 (77.2)	9 (25.0) 27 (75.0)	3 (18.8) 13 (81.3)	2 (18.2) 9 (81.8)
Prior systemic therapies, N (%) Median (range) 2 prior lines >3 prior lines >3 prior lines	3.0 (2-7) 63 (43.4) 34 (23.4) 48 (33.1)	3.0 (2-7) 15 (41.7) 5 (13.9) 16 (44.4)	2.0 (2-7) 10 (62.5) 2 (12.5) 4 (25.0)	2.0 (2-7) 8 (72.7) 1 (9.1) 2 (18.2)
Refractory, N (%) Primary refractory Refractory to last therapy	29 (20.0) 89 (61.4)	5 (13.9) 11 (30.6)	2 (12.5) 5 (31.3)	0 4 (36.4)
Prior SCT, N (%)	24 (16.6)	8 (22.2)	1 (6.3)	1 (9.1)
Prior CAR T therapy, N (%)	14 (9.7)	3 (8.3)	2 (12.5)	0

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Loncastuximab tesirine in relapsed/refractory diffuse large B-cell lymphoma: long-term efficacy and safety from the phase II LOTIS-2 study

Paolo F. Caimi, Haematologica | 109 April 2024

	All-treated population N=145 (95% CI)	Best response of CR N=36 (95% CI)
Median DOR in months	13.4 (6.9-NR)	NR
Probability % of maintaining response at 12 months	54.7 (37.9-68.8)	82.8 (59.9-93.3)
Probability % of maintaining response at 24 months	44.6 (27.9-60.0)	72.4 (48.1-86.8)
Median DOR in months	4.9 (2.9-8.3)	NR
Probability % of maintaining PFS at 12 months	33.5 (23.3-44.0)	82.9 (60.0-93.3)
Probability % of maintaining PFS at 24 months	25.9 (16.2-36.7)	72.5 (48.2-86.8)
Median DOR in months	9.5 (6.7-11.5)	NR
Probability % of maintaining OS at 12 months	39.0 (30.7-47.1)	77.1 (59.4-87.9)
Probability % of maintaining OS at 24 months	29.5 (22.0-37.4)	68.2 (50.0-81.0)
Median DOR in months Probability % of maintaining RFS at 12 months Probability % of maintaining RFS at 24 months		NR 83.2 (60.5-93.5) 72.8 (48.5-87.0)

CI: confidence interval; CR: complete response; DOR: duration of response; NR: not reached; OS: overall survival; PFS: progression-free survival; RFS: relapse-free survival.

In conclusion, among heavily pretreated patients with R/R DLBCL in the pivotal LOTIS-2 study, Lonca continued to demonstrate durable responses with a manageable safety and tolerability profile in this long-term follow-up analysis. Further, a subset of 11 patients with CR remained event-free for \geq 2 years with no evidence of disease, no new anticancer treatment, and a median treatment-free duration of 27.7 months post-Lonca treatment.



Subset of patients with CR

GLOFITAMAB PLUS GEMCITABINE AND OXALIPLATIN (GLOFIT-GEMOX) FOR RELAPSED/REFRACTORY (R/R) DIFFUSE LARGE B-CELL LYMPHOMA (DLBCL): RESULTS OF A GLOBAL RANDOMIZED PHASE III TRIAL (STARGLO), EHA 2024; Abramson JS et al. oral presentation (abstract LB3438).

Random 2:1; 8 Glofit-GemOx + 4 Glofit vs. 8 R-GemOx (8 cycles). 274 pts DLBCL (Glofit-GemOx: 183; R-GemOx: 91);

62.8% > 1L and 102 >2L, 55.8% primary refractory disease.

STARGLO (GO41944; NCT04408638): study design



Abramson JS, et al. EHA 2024; Oral presentation (abstract#LB3438)

GLOFITAMAB PLUS GEMCITABINE AND OXALIPLATIN (GLOFIT-GEMOX) FOR RELAPSED/REFRACTORY (R/R) DIFFUSE LARGE B-CELL LYMPHOMA (DLBCL): RESULTS OF A GLOBAL RANDOMIZED PHASE III TRIAL (STARGLO), EHA 2024; Abramson JS et al. oral presentation (abstract LB3438).

40

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STARGLO: Overal Survival



Abramson JS, et al. EHA 2024; Oral presentation (abstract#LB3438)



STARGLO: Progression Free Survival

STARGLO: response rates



CR: 58.5%

Glofit-GemOx (n=183)

PR: 15.4%

CR: 25.3%

R-GemOx (n=91)



CR rate was statistically significant at primary analysis, with increased difference between treatment arms at the updated analysis

Abramson JS, et al. EHA 2024; Oral presentation (abstract#LB3438)

AE rates were higher with Glofit-GemOx versus R-GemOx, including Grade (Gr) 3–4 AEs (69.4 vs 36.4%). CRS: Gr 1: 31.4%, Gr 2: 10.5%, and Gr 3: 2.3%. ICANS 2.3%.

Glofit-GemOx demonstrated statistically significant and clinically meaningful benefit in OS, PFS, and CR rate over R-GemOx in ASCT-ineligible pts with R/R DLBCL.



Progression-free Survival According to Subtype



Combination Targeted Therapy in Relapsed Diffuse Large B-Cell Lymphoma

C. Melani, R. Lakhotia, S. Pittaluga, J.D. Phelan, D.W. Huang, G. Wright, J. Simard, J. Muppidi, C.J. Thomas,



CONCLUSIONS

Treatment with ViPOR was associated with durable remissions in patients with specific molecular DLBCL subtypes and was associated with mainly reversible adverse events. (Funded by the Intramural Research Program of the National Cancer Institute and the National Center for Advancing Translational Sciences of the National Institutes of Health and others; ClinicalTrials.gov number, NCT03223610.)

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GLI ANTICORPI BISPECIFICI



GLOFITAMAB

Single-arm pivotal Phase II expansion in patients with R/R DLBCL and ≥2 prior therapies¹



Endpoints

Primary: CR (best response) rate by IRC*

Key secondary: ORR rate,⁺ DoR, DoCR,⁺ PFS, and OS

*By PET-CT (Lugano criteria).¹†By IRC and investigator. BCL, B-cell lymphoma; CRS, cytokine release syndrome; CT, computed tomography; DLBCL, diffuse

large B-cell lymphoma; ECOG, European Cooperative Oncology Group performance status; FL, follicular lymphoma;

Gpt, obinutuzumab pretreatment; HGBCL, high-grade BCL; IRC, Independent Review Committee; NOS, not otherwise specified;

PET, positron emission tomography; PMBCL, primary mediastinal BCL.

Response rates

	All patients	R/R DLBCL/	Prior CAB-T		N=155
	(11-100)	trFL (N=132) ^{2†‡}	(N=52) [†]	Median PFS follow-up, mo (range)	12.6 (0–22)
ORR, n (%) [95% Cl]	80 (52) [43.5–	74 (56) [47.2–	26 (50) [35.8–	Median PFS, months (95% CI) [†]	4.9 (3.4–8.1)
CP rate = (9() [059(CI]	59.7]	64.7]	64.2]	6-month event-free rate, % (95% CI)	45.5 (37.2–53.8)
CH rate , fr (%) [95% CI]	62 (40) [32.2– 48.2]	58 (44) [35.3– 52.8]	19 (37) [23.6– 51.0]	12-month event-free rate, % (95% CI)	37.1 (28.5–45.8)
Median DOCR, months (95% CI)	26.9 (19.8– NR)	28.3 (19.8–NR)	22.0 (6.7–NR)	Median OS, months (95% CI) [†]	11.5 (7.9–15.7)
				12-month OS rate, % (95% CI)	49.8 (41.1–58.5)
24-month DOCR , % (95% Cl)	55.0 (41.1– 68.8)	56.2 (41.9– 70.4)	33.1(7.2–59.0)		
Median CR follow-up, months (range)	29.6 (0–39)	29.6 (0–39)	23.0 (0–33)		
Ongoing CRs, n/N (%)	34/62 (55)	32/58 (55)	10/19 (53)		

The IRC-assessed ORR/CR rate was 52/40%. After a median follow-up of 37.7 months in patients with a CR, mDOR CR was 29.8 months. In patients with a CR at EOT, the PFS and OS rates 2 years after EOT were 57% and 77%, respectively.

Hutchings M, et al. ASH 2023; oral presentation (abstract #433); ASH 2024; oral presentation (abstract #865).

Landmark analysis by response at Cycle EOT: Extended follow-up





Landmark PFS from EOT in patients with CR at EOT*	N=45	Landmark OS from EOT in patients with CR at EOT*	N=45	
Median PFS, months (95% CI)	24.0 (19.1–NE)	Median OS, months (95% CI)	NE (NE)	
18-month PFS rate, % (95% CI)	66.6 (51.0–82.2)	18-month OS rate, % (95% CI)	80.7 (68.6–92.8)	

Clinical cut-off date: September 4, 2023. Median time on study: 32.1 months (range: 0–43). *KM estimates. C, cycle; Cl, confidence interval; CR, complete response; EOT, end-of-treatment; NE, not estimable; NR, no response; PFS, progression-free survival; PR, partial response; OS, overall survival; RP2D, recommended Phase II dose.

Cytokine release syndrome



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

*CRS reported by ASTCT grade derived based on reported data and INV graded CRS according to Lee 2014 criteria.^{3,4} ASTCT, American Society for Transplantation and Cellular Therapy criteria; C, cycle; CAR-T, chimeric antigen receptor T-cell therapy; CCOD, clinical cut-off date; CRS, cytokine release syndrome; D, day; INV, investigator; RP2D, recommended Phase II dose.

Dickinson M, et al. ASCO 2022 oral presentation (abstract #7500);
 Dickinson M, et al. NEJM 2022;387:2220–31;
 Lee, at al. Blood 2014;124:188–95;
 Lee DW, et al. Biol Blood Marrow Transplant 2019;25:625–38.

Epcoritamab in relapsed/refractory large B-cell lymphoma: 2-year follow-up from the pivotal EPCORE NHL-1 trial

Catherine Thieblemont ()¹², Yasmin H. Karimi², Herve Ghesquieres³, Chan Y. Cheah⁴, Michael Roost Clausen⁵, David Cunningham⁶

Characteristic	LBCL (N = 157)	Characteristic	LBCL (N = 157)
Age, years, median (range)	64.0 (20-83)	Age, years, median (range)	64.0 (20-83)
Age group, years, No. (%)		Age group, years, No. (%)	
<65	80 (51.0)	<65	80 (51.0)
65 to <75	48 (30.6)	65 to <75	48 (30.6)
≥75	29 (18.5)	≥75	29 (18.5)
Male sex, No. (%)	94 (59.9)	Male sex, No. (%)	94 (59.9)
Race, No. (%)		Race, No. (%)	
White	78 (49.7)	White	78 (49.7)
Asian	30 (19.1)	Asian	30 (19.1)
Black or African American	0	Black or African American	0
Other	6 (3.8)	Other	6 (3.8)
Not reported	43 (27.4)	Not reported	43 (27.4)
ECOG performance status, ^a No. (%)		ECOG performance status, ^a No. (%)	
0	74 (47.1)	0	74 (47.1)
1	78 (49.7)	1	78 (49.7)
2	5 (3.2)	2	5 (3.2)

Leukemia; https://doi.org/10.1038/s41375-024-02410-8

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Catherine Thieblemont ¹², Yasmin H. Karimi², Herve Ghesquieres³, Chan Y. Cheah⁴, Michael Roost Clausen⁵, David Cunningham⁶

Primary refractory disease," No. (%)

Malignancy type, No. (%)		Ann Arbor stage, No. (%)		
DLBCL ^b	139 (88.5)	1/11	39 (24.8)	
De novo	97 (61.8)	Ш	22 (14.0)	
Transformed ^c	40 (25.5)	IV IPI. No. (%)	96 (61.1)	
Unknown	2 (1.3)	0-2	55 (35.0)	
High-grade B-cell lymphoma ^b	9 (5.7)	≥3	83 (52.9)	
Primary mediastinal large B-cell lymphoma	4 (2.5)	Unknown	1 (0.6)	
	- (2.0)	Not applicable	18 (11.5)	
Follicular lymphoma grade 3B	5 (3.2)	Time from initial diagnosis to first dose of	1.6 (0.0-28.4	
Central laboratory FISH analysis: double-hit/triple-	13 (8.3)	epcoritamab, years, median (range) ^d		
hit lymphoma (MYC and BCL2 and/or BCL6 rearrangement), No. (%)		Time from end of last therapy to first dose of epcoritamab, months, median (range)	2.4 (0-153)	
DLBCL cell of origin per local laboratory, No. (%)		Prior lines of antilymphoma therapy, median (range)	3.0 (2-11)	
Germinal center B cell	65 (41.4)	Prior lines of antilymphoma therapy, No. (%)		
Activated B cell/non-germinal center B cell	56 (35.7)	2	47 (29.9)	
Unknown	18 (11.5)	3	48 (30.6)	
		≥4	62 (39.5)	

disease,^e No. (%) 95 (60.5) Leukemia; https://doi.org/10.1038/s41375-024-02410-8

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Epcoritamab in relapsed/refractory large B-cell lymphoma: 2-year follow-up from the pivotal EPCORE NHL-1 trial

Catherine Thieblemont 12, Yasmin H. Karimi², Herve Ghesquieres³, Chan Y. Cheah⁴, Michael Roost Clausen⁵, David Cunningham⁶

Characteristic	LBCL (N = 157)		Dos	se escalation* Expansion part
Refractory to last systemic therapy, ^e No. (%)	130 (82.8)	Objectives	Flat-dose epcoritan	nab administered in 28-day cycles until disease rression or unaccentable toxicity
Refractory to ≥2 consecutive lines of therapy, ^e No. (%)	118 (75.2)	Primary	Inclusion criteria [†]	60 mg (n=3)
Prior autologous stem cell transplant, No. (%)	31 (19.7)	 Maximum tolerated dose (MTD) Recommended Phase II dose (RP2D) 	B-NHL	(n=12) RP2D → FL
Relapsed within 12 months after prior autologous stem cell transplant, No. (%)	18 (11.5)		 Prior treatment with anti-CD20 mAbs ECOG PS 0–2 	24 mg (n=10) MCL
Prior CAR T-cell therapy, No. (%)	61 (38.9)	Secondary	 Measurable disease by CT, MRI, or PET/CT scan[‡] 	(n=7)
Progressed within 6 months of CAR T-cell therapy, No. (%)	46 (29.3)	 Safety/tolerability Anti-tumor activity 	Adequate renal, liver, and hematologic function	0.0128-3 mg (n=9) (n=23)
100				(1-27)



Leukemia; https://doi.org/10.1038/s41375-024-02410-8

Epcoritamab in relapsed/refractory large B-cell lymphoma: 2-year follow-up from the pivotal EPCORE NHL-1 trial

Catherine Thieblemont ¹², Yasmin H. Karimi², Herve Ghesquieres³, Chan Y. Cheah⁴, Michael Roost Clausen⁵, David Cunningham⁶

99 (63.1) [55.0-70.6]	Time to response months median	14 (10-84)			
63 (40.1) [32.4-48.2]	(range)	1.4 (1.0-0.4)	OS, ^c months, median (range) [95% CI]	18.5 (0.3 to 327+)	
36 (22.9) [16.6-30.3]	Time to CR, months, median (range)	2.6 (1.2-23.2)		[11]-27.7]	
5 (3.2)	PES, ^c months, median (range) [95% CI]	44 (0.0+ to 29.0+)	OS in the overall population, ^c %		
37 (23.6)	they make an interest of	[3.0-8.8]	(95% CI)		
16 (10.2)	PFS in the overall population. ⁶ %		Estimated OS rate at 12 mo	58.0 (49.7-65.4)	
17.3 (0.0+ to 27.8+)	(95% CI)		Estimated OS rate at 24 mo	44.6 (36.4-52.4)	
19.7-2031 DOR in complete responders, ^c % 95% (I)		Estimated PFS rate at 12 mo 39.9 (31.8-47.8)			
		Estimated PFS rate at 24 mo 27.8 (20.0-36.2)		05 1 (05 5 00 4)	
85.7 (73.4-92.6)	PES in complete responders. ⁶ %		Estimated OS rate at 12 mo	30.1 (82.5-38.4)	
	(95% CI)		Estimated OS rate at 24 mo	78.2 (65.4-86.7)	
64.4 (47.1-77.2)	Estimated PFS rate at 12 mo	87.6 (75.6-93.9)	OS in MRD-negative patients, ^c % (95% CI)		
	Estimated PFS rate at 24 mo	65.1 (48.4-77.6)	Estimated OS rate at 12 mo	94.4 (83.8-98.2)	
79.2 (65.5-87.9)	PFS in MRD-negative patients, ^c %		Estimated OS rate at 24 mo	77.7 (64.1-86.7)	
64.2 (47.5-76.8)	Estimated PFS rate at 12 mo	84.3 (71.0-91.8)			
	Estimated PFS rate at 24 mo	61.6 (43.6-75.3)			
	99 (63.1) [55.0-70.6] 63 (40.1) [32.4-48.2] 36 (22.9) [16.6-30.3] 5 (3.2) 37 (23.6) 16 (10.2) 17.3 (0.0+ to 27.8+) [9.7-26.5] 85.7 (73.4-92.6) 64.4 (47.1-77.2) 79.2 (65.5-87.9) 64.2 (47.5-76.8)	99 (63.1) [55.0–70.6] Time to response, months, median (range) 36 (22.9) [16.6–30.3] Time to CR, months, median (range) 5 (3.2) PFS, ^c months, median (range) [95% CI] 37 (23.6) PFS in the overall population, ^c % (95% CI) 16 (10.2) PFS in the overall population, ^c % (95% CI) 17.3 (0.0+ to 27.8+) PFS in the overall population, ^c % (95% CI) 85.7 (73.4–92.6) PFS in complete responders, ^c % (95% CI) 64.4 (47.1–77.2) Estimated PFS rate at 12 mo Estimated PFS rate at 12 mo Estimated PFS rate at 24 mo 79.2 (65.5–87.9) PFS in MRD-negative patients, ^c % (95% CI) 64.2 (47.5–76.8) Estimated PFS rate at 12 mo Estimated PFS rate at 12 mo Estimated PFS rate at 12 mo	99 (63.1) [55.0-70.6] Time to response, months, median 1.4 (1.0-8.4) 63 (40.1) [32.4-48.2] (range) 2.6 (1.2-23.2) 36 (22.9) [16.6-30.3] Time to CR, months, median (range) 2.6 (1.2-23.2) 5 (3.2) PFS, ^c months, median (range) [95% CI] 4.4 (0.0+ to 29.0+) [3.0-8.8] 16 (10.2) PFS in the overall population, ^c % (95% CI) 39.9 (31.8-47.8) 17.3 (0.0+ to 27.8+) [95% CI] 5.7 (73.4-92.6) 85.7 (73.4-92.6) PFS in complete responders, ^c % (95% CI) 39.9 (31.8-47.8) 64.4 (47.1-77.2) Estimated PFS rate at 12 mo 87.6 (75.6-93.9) 65.5-87.9) PFS in MRD-negative patients, ^c % (95% CI) 65.1 (48.4-77.6) 79.2 (65.5-87.9) PFS in MRD-negative patients, ^c % (95% CI) 84.3 (71.0-91.8) 64.2 (47.5-76.8) Estimated PFS rate at 12 mo 84.3 (71.0-91.8)	99 (63.1) [550-70.6] Time to response, months, median (range) 1.4 (1.0-8.4) OS, ^c months, median (range) [95% CI] 36 (22.9) [166-30.3] Time to CR, months, median (range) 2.6 (1.2-23.2) OS, ^c months, median (range) [95% CI] 5 (3.2) PFS, ^c months, median (range) [95% CI] 4.4 (0.0+ to 29.0+) [3.0-8.8] OS, ^c months, median (range) [95% CI] 16 (10.2) PFS in the overall population, ^c % (95% CI) 4.4 (0.0+ to 29.0+) [3.0-8.8] Stimated OS rate at 12 mo 17.3 (0.0+ to 27.8+) PFS in the overall population, ^c % (95% CI) Estimated PFS rate at 12 mo 39.9 (31.8-47.8) 85.7 (73.4-92.6) PFS in complete responders, ^c % (95% CI) Estimated PFS rate at 24 mo 27.8 (20.0-362) 64.4 (47.1-77.2) Estimated PFS rate at 12 mo 87.6 (75.6-93.9) OS in MRD-negative patients, ^c % (95% CI) 79.2 (65.5-87.9) PF5 in MRD-negative patients, ^c % (95% CI) Estimated PFS rate at 12 mo 84.3 (71.0-91.8) 64.2 (47.5-76.8) Estimated PFS rate at 12 mo 84.3 (71.0-91.8) Estimated OS rate at 24 mo	

The ORR/CR rate per INR were 59% and 41%; mFU was 37.1 mo, mDOR was 20.8 mo, mDOCR was 36.1 mo. mPFS was 4.2 mo; among complete responders, it was 37.3 mo. mOS was 18.5 mo; among complete responders, it was NR. At 36 mo PFS of complete responders 63% of complete responders remained alive (estimated). Vose; poster presentation ASH 2024 (abstract # 4480)

Epcoritamab in relapsed/refractory large B-cell lymphoma: 2-year follow-up from the pivotal EPCORE NHL-1 trial

Catherine Thieblemont ¹², Yasmin H. Karimi², Herve Ghesquieres³, Chan Y. Cheah⁴. Michael Roost Clausen⁵. David Cunningham⁶



TREVISO, 22-23 NOVEMBRE 2024

Dual target dilemma: navigating epcoritamab vs. glofitamab in relapsed refractory diffuse large Bcell lymphoma

James A. Davis, Katelynn Granger, Alex Sakowski, Sara Goodwin, Amanda Herbst, Deidra Smith, Lindsey Hendrickson & Victoria R. Nachar EXPERT REVIEW OF HEMATOLOGY 2023, VOL. 16, NO. 12, 915–918

	Epcoritamab	Glofitamab
Mechanism of action	CD20/CD3 BsAb	CD20/CD3 BsAb
FDA approval REMS requirement Boxed warning	After failure of two or more lines of systemic therapy No CRS and ICANS	After failure of two or more lines of systemic therapy No CRS
Recommended admission duration during dose step-up	24-hour hospitalization after cycle 1 on day 15 (first 48 mg dose)	24-hour hospitalization during and after step-up dose 1 (cycle 1, day 8)
Cycle length and dosing schedule	Cycle length: 28 days Cycle 1: 5Q dose step-up: Day 1: 0.16 mg Day 8: 0.8 mg Days 15, 22: 48 mg Cycles 2-3: 48 mg 5Q days 1, 8, 15, 22 Cycles 4-9: 48 mg 5Q days 1, 15 Cycles 4-9: 48 mg 5Q day 1	Cycle length: 21 days Cycle 1: W loss they-up Day 1: obinutuzumab 1000 mg Day 8: 2.5 mg over 4 hours Day 15: 10 mg over 4 hours Cycle 2: 30 mg over 4 hours Cycles 3–12: 30 mg over 2 hours
Treatment duration Required pre- medications	Until disease progression of toxicity Antipyretic and antihistamine are recommended during cycle 1. Dexamethasone 15 mg ora/I/V or prednisone 100 mg is recommended during cycle 1 and for 3 days following dose for subsequent cycles if prior grade 2/3 CRS until CRS grade <2	Until disease progression, toxicity, or up to 12 cycles Antipyretic and antihistamine are recommended for all cycles. Dexamethasone 20 mg N is recommended for cycles 1–3 and subsequently if prior CRS.
Renal dose adjustment	No	No
Hepatic dose adjustment	No	No
Infection prophylaxis	PJP and consider herpes zoster	Consider PJP, herpes zoster, and CMV

Table 1	. Compa	rison of	f available	anti-CD20	bispecific	antibodies	for	DLBCI
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	Epcoritamab	Glofitamab
	(n = 157)	(n = 154)
Baseline characteristics		
Median age (range)	64 years (20-83)	66 years (21-90)
Median prior lines (range)	3 (2-11)	3 (2-7)
Non-Hodgkin lymphoma subtype, %		
DLBCL not otherwise specified	74	71
Transformed	28.8	18
High-grade BCL	5.7	7
Primary mediastinal BCL	2.5	4
ECOG P5 ≥ 2. %	3.2	0
Ann Arbor stage, %		
VII	24.8	22
	13.4	20
IV .	61.8	55
Missing data	0	2
International Prognostic Index. %	-	-
0-2	35	Not reported
23	52.2	
Double/Triple hit per FISH analysis %	13.1	Not reported
Prior ASCT, %	19.7	18
Prior CAR T-cell therapy, %	39	33
Primary refractory disease %	61	58
Adverse events		
CRS, all (grade ≥3)	5096 (2.596)	6396 (496)
Median onset of CRS, duration	20 hours, 48 hours	13 hours, 30 hours
ICANS, all (grade ≥3)	696 (0.696)	896 (396)
Infections, all (grades 3-4)	4596 (1596)	3896 (1596)
Neutropenia, all (grade ≥3)	21.7% (14.6%)	3896 (2796)
Thrombocytopenia, all (grade >3)	13.4% (5.7%)	2596 (896)
Tumor lysis syndrome, all (grade ≥3)	1.396 (1.396)	Not reported (1.9%)
Grade 5 adverse event	5.7%	596
Efficacy		
ORR	6396	5296
CR	3996	39%
MRD negativity rate	45.8%	Not reported
Median PFS	4.4 months (95% Cl. 3-7.9)	4.9 months (95% Cl. 3.4-8.1)
Median OS	NR (95% CI, 11.3-NR)	11.5 months (95% Cl, 7.9-15.7)
Median time to best response (range)	2.7 months (1.2-11.1)	1.4 months (95% Cl. 1.4-1.44)
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Long-Term Efficacy and Safety of Odronextamab in Relapsed/Refractory Diffuse Large B-Cell Lymphoma (DLBCL): Pooled Analysis from the ELM-1 and ELM-2 Studies Allan JN ; poster presentation ASH 2024 (abstract # 3118)

- Odronextamab IV/21. Rump-up con profilassi steroidea in corso del C1 seguito da 160 mg on G1, 8, e 15 del C2. Mantenimento: 320 mg/2 sett fino a progressione/tossicità. Pazienti in CR oltre 9 m passano a mantenimento ogni 4 sett.
- 187 pts; età media 65 aa.. (24–88); in media 3 linee precedenti, 32,1% post-CART. mFU: 23 m.
- ORR/CR per ICR: 50% e 31,6%, mDOR 10.5 mo, mDoCR: 36,6 mo, probabilità di mantenere CR a 36 m 51.0%
- CRS (52,9%), anemia (35,8%), iperpiressia (39,6%). ICANS solo 1 pt (Gr 2), infezioni >G3 24,6%.

CAR T cells as a second-line therapy for large B-cell lymphoma: a paradigm shift? Westin J and Sehn LH. Blood 2022;139(18):2737-46



LE OPZIONI PER APPROVAZIONE AIFA

Тх	I LINEA	II LINEA		III LINEA			
		<65-70	>70-75	<65-70	>70-75		
Pola	✓R-Pola-CHP DLBCL IPI 3-5	✓ R-Pola Ben	damustina DLB	CL R/R e non idonei a ASCT tranne PRECEDENTE CAR T entro 100 gg e risposta a precedente Benda > 12 m,			
ASCT	×	\checkmark	×	✓ ×			
Axicel	×	✓ DLBCL e HG NHL refrattario entro 12 m o R/R >2L					
Lisocel	×	×	×	\checkmark DLBCL e HG NHL in R/R >2L, PMDLBCL			
Tisacel	×	×	×	✓ DLBCL incluso HG NHL in recidiva o refrattario >2L			
Tafasitamab	×	✓ DLBCL R/R e non idonei a ASCT tranne HG, PMDLBCL, > 3 linea, PRECEDENTE CAR T o altri trattamenti anti-CD19, localizzazione SNC, diatesi trombofilica					
Loncastuximab	×	×	×	✓ DLBCL NOS, HG e trasformati tranne_CD19 non espresso dopo terapia anti-CD19, GVHD, Bulky localizzazione SNC, neuropatia > G1			
Glofitamab	×	×	×	 ✓ DLBCL NOS dopo la II linea tranne <100 gg da ASCT, precedente terapia con bispecifico, precedente AlloSCT, coinvolgimento SNC HLH o leucoencefalopatia multifocale progressiva (solo Glofitamab), Malattia autoimmune che richiede immunosoppressione permanente (solo Epcoritamab), ClCr <30 ml/min, Child-Pugh B e C 			
Epcoritamab	×	×	×				

CONCLUSIONI e UNMET NEED

- Implementare la diagnostica molecolare in particolare per HG-NHL.
- Il piano di cura nelle varie fasi e nel «lungo» termine deve comprendere le valutazioni di concomitanti rimborsabilità AIFA anche in funzione dell'andamento clinico (es. PET dopo il IV ciclo e/o entro i 12 mesi).
- compatibilmente con età, comorbidità, logistica, disponibilità del caregiver, patient priority.
- seguire l'evoluzione dei processi registrativi per le singole opzioni e/o associazioni terapeutiche.
- quali opzioni per DLBCL RR over 75 aa. e/o unfit to ASCT/CART dopo la 1L?
- disponibilità trials attivi con arruolamento aperto, usi compassionevoli.
- RUOLO dei CENTRI HUB della REV anche come attività di COUNSELING ???