New data in upfront and relapsed aggressive B cell lymphoma

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Disclosures

Consulting advice:

Sutro, Epizyme, BMS/Celgene, Bayer, Gilead/Kite, GenMab, Genentech/Roche, Abbvie, Incyte, Janssen, Eisai, Mustang Bio, Second Genome



Diffuse large B cell lymphoma

- Most common lymphoma
- Median age 60, usually with advanced stage disease
- Practical objective of treatment cure (70%)
- Reasonably good clinical prognostic tools
 - IPI (Age, PS, LDH, Extranodal, Stage = IPI 0-5)
- Most patients treated same (R-CHOP x 6 cycles)
- AutoSCT standard for chemosensitive relapsed disease
- CAR-T, novel agents/combinations in rel/ref setting

When have we frequently treated patients with DLBCL with something other than R-CHOP x 6?

Double hit subtype (MYC, BCL2, BCL6 translocations)

Primary mediastinal

HIV associated

Testicular

Limited stage (? 4 cycles)

CNS

Elderly (mini-R-CHOP)

What's new in DLBCL from ASH 2021?

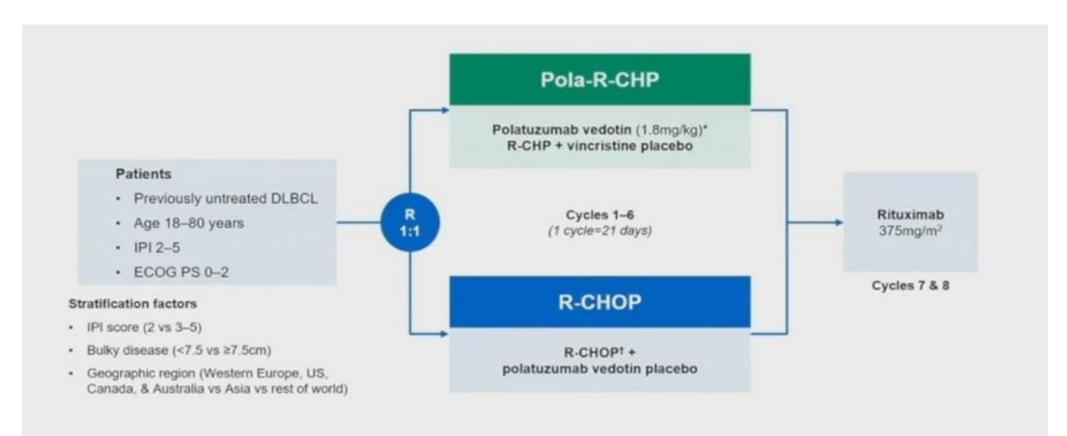
New upfront therapy for subset of patients

CAR-T as second line therapy

Bispecific antibodies



R-CHOP vs Polatuzumab-R-CHP in DLBCL (IPI 2-5) Tilly et al, NEJM 2021



*IV on Day 1; ¹R-CHOP: IV rituximab 375mg/m², cyclophosphamide 750mg/m², doxorubicin 50mg/m², and vincristine 1.4mg/m² (max. 2mg) on Day 1, plus oral prednisone 100mg once daily on Days 1–5. IPI, International prognostic index; ECOG PS, Eastern Cooperative Oncology Group performance status; R, randomized.

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R-CHOP vs Polatuzumab-R-CHP in DLBCL

Tilly et al, NEJM 2021

Characteristic	Pola-R-CHP (N=440)	R-CHOP (N=439)
Median age (range) — yr	65 (19–80)	66 (19–80)
Age category — no. (%)		
≤60 yr	140 (31.8)	131 (29.8)
>60 yr	300 (68.2)	308 (70.2)
Female sex — no. (%)	201 (45.7)	205 (46.7)
Geographic region — no. (%)†		
Western Europe, United States, Canada, and Australia	302 (68.6)	301 (68.6)
Asia	81 (18.4)	79 (18.0)
Rest of world	57 (13.0)	59 (13.4)
Ann Arbor stage — no. (%)‡		
l or ll	47 (10.7)	52 (11.8)
III or IV	393 (89.3)	387 (88.2)
No. of extranodal sites — no. (%)		
0 or 1	227 (51.6)	226 (51.5)
≥2	213 (48.4)	213 (48.5)
Bulky disease — no. (%)†∬	193 (43.9)	192 (43.7)

R-CHOP vs Polatuzumab-R-CHP in DLBCL

Tilly et al, NEJM 2021

ECOG performance status score — no. (%)¶		
0 or 1	374 (85.0)	363 (82.7)
2	66 (15.0)	75 (17.1)
Lactate dehydrogenase level — no. (%)		
Normal	146 (33.2)	154 (35.1)
Elevated	291 (66.1)	284 (64.7)
IPI score — no. (%)†**		
2	167 (38.0)	167 (38.0)
3 to 5	273 (62.0)	272 (62.0)
Median time from initial diagnosis to treatment initiation (IQR) — days	26 (16.0–37.5)	27 (19.0–41.0)
Cell of origin — no./total no. <mark>(%)†</mark> †		
Germinal-center B-cell–like subtype	184/330 (55.8)	168/338 (49.7)
Activated B-cell–like subtype	102/330 (30.9)	119/338 (35.2)
Unclassified	44/330 (13.3)	51/338 (15.1)
Double-expressor lymphoma — no./total no. (%)††	139/362 (38.4)	151/366 (41.3)
Double-hit or triple-hit lymphoma — no./total no. (%)††	26/331 (7.9)	19/334 (5.7)

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R-CHOP vs Polatuzumab-R-CHP in DLBCL - Toxicity

Tilly et al, NEJM 2021

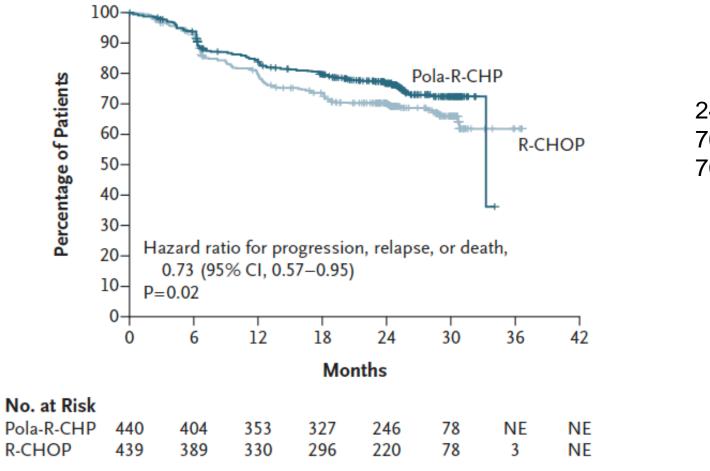
Adverse Event	Pola-R-CHP (N=435)		R-CH0 (N=43	
	Any Grade	Grade 3 or 4	Any Grade	Grade 3 or 4
		number of pa	tients (percent)	
Peripheral neuropathy†	230 (52.9)	7 (1.6)	236 (53.9)	5 (1.1)
Nausea	181 (41.6)	5 (1.1)	161 (36.8)	2 (0.5)
Neutropenia	134 (30.8)	123 (28.3)	143 (32.6)	135 (30.8)
Diarrhea	134 (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



R-CHOP vs Polatuzumab-R-CHP in DLBCL - PFS

Tilly et al, NEJM 2021

A Investigator-Assessed Progression-free Survival



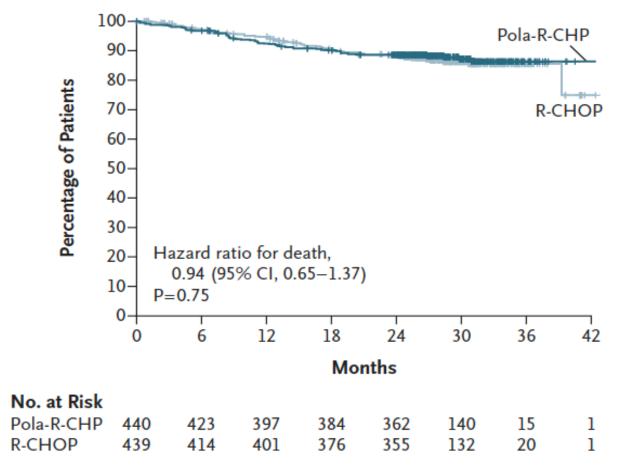
24 mo PFS: 76.7% Pola-R-CHP 70.2% R-CHOP



R-CHOP vs Polatuzumab-R-CHP in DLBCL - OS

Tilly et al, NEJM 2021

D Overall Survival



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R-CHOP vs Polatuzumab-R-CHP in DLBCL - Subgroups

Tilly et al, NEJM 2021

			a-R-CHP 1=440)		-CHOP 1=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
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)	1	
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)	F	
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)	, 	
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)		
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)		
Geographic region Western Europe, United States, Canada, and Australia	603	302	78.6	301	72.0	0.8	(0·6 to 1·1)	-	н
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)		

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R-CHOP vs Polatuzumab-R-CHP in DLBCL – Subgroups

Tilly et all, NEJM 2021

			-R-CHP =440)		HOP 439)					
	Total N	n	2-year Rate	n 2	2-year Rate	Hazard Ratio	95% Wald Cl	Pola-R-CHP Better	R-CHOP Better	
	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)			_
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)			
No. of extranodal sites 0–1 ≥2	453 426	227 213		226 213	74-5 65-8	0·8 0·7	(0.5 to 1.1) (0.5 to 1.0)			
Cell-of-origin GCB ABC Unclassified Unknown	352 221 95 211	184 102 44 110	83·9 73·0	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)			-
Double expressor by IHC DEL Non DEL Unknown	290 438 151	139 223 78		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)			
Double- or triple-hit lymphoma Yes No Unknown	45 620 214	26 305 109		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)		• •	
							0	-25	1 :	1 5

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Implications of POLARIX study

Positive trial (6.5% benefit in PFS), no OS benefit in IPI 2-5 DLBCL patients

Generally comparable toxicity

Older, male patients, higher risk and ABC subtype benefitted most

Saves 6.5% (1 of 15 patients) from relapse and more therapy

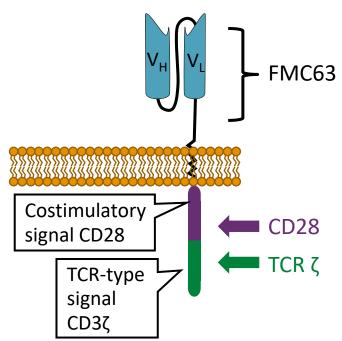
6 doses x \$15,669/dose/80kg pt x 15 patients

= \$1.4 million/relapse saved

CD19-directed CAR T-cell products

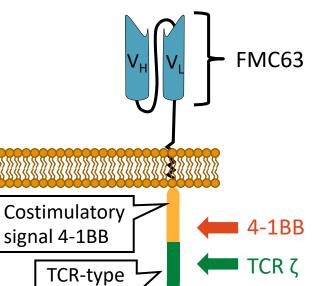
Axicabtagene ciloleucel (Axi-cel)

- CD28 costimulation
- Second generation



Tisagenlecleucel (Tisa-cel)

- 4-1BB costimulation
- Second generation

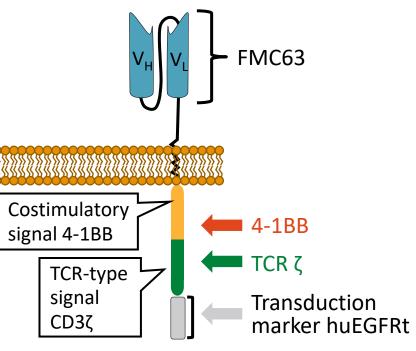


signal

CD3ζ

Lisocabtagene maraleucel (Liso-cel)

- 4-1BB costimulation
- Second generation



van der Stegen. Nat Rev Drug Discov. 2015;14:499.

CD19-directed CAR T-cell products: Indications

Axicabtagene ciloleucel (Axi-cel)

- R/R large B-cell lymphoma after ≥2 lines of therapy
 - DLBCL, FL 3B, Transformed; after induction chemo, salvage chemo ± auto PSCT, or not a candidate
- R/R FL after ≥2 lines of systemic therapy (accelerated approval)

Tisagenlecleucel (Tisa-cel)

- R/R large B-cell lymphoma after ≥2 lines of therapy
 - DLBCL, FL 3B, Transformed FL/DLBCL; after induction chemo, salvage chemo ± auto PSCT, or not a candidate
- Patients aged 25 years or younger with B-cell precursor
 ALL that is refractory or at least second relapse

Lisocabtagene maraleucel (Liso-cel)

- R/R large B-cell lymphoma after ≥2 lines of therapy,
 - DLBCL, FL 3B, Transformed FL/DLBCL; after induction chemo, salvage chemo ± auto PSCT, or not a candidate

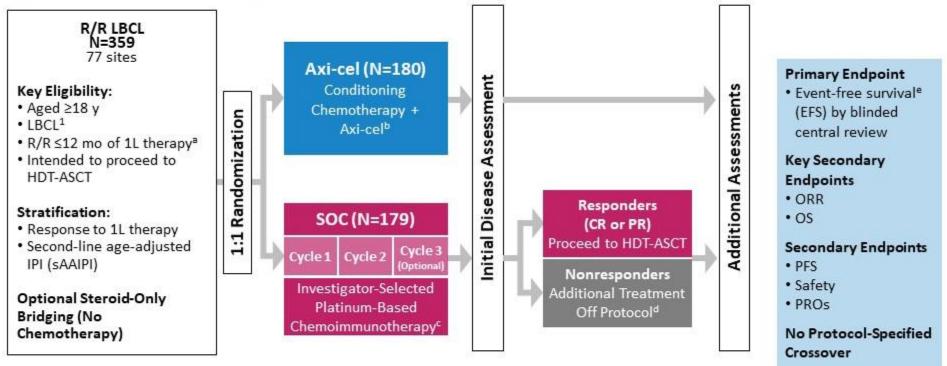
Brexucabtagene autoleucel: CAR T-cell therapy approved for mantle cell lymphoma (after chemoimmunotherapy and a BTK inhibitor, ± auto PSCT failure)

Others in clinical trials or many combinations with other agents or in earlier high risk DLBCL Axicabtagene ciloleucel PI. Brexucabtagene autoleucel PI. Lisocabtagene maraleucel PI. Tisagenlecleucel PI.

Axicabtagene Ciloleucel for 2nd line (<12m) relapsed DLBCL

Locke et al, NEJM 2021

ZUMA-7 Study Schema and Endpoints: Axi-cel Versus SOC as Second-Line Therapy in Patients With R/R LBCL



*Refractory disease was defined as no CR to 1L therapy; relapsed disease was defined as CR followed by biopsy-proven disease relapse <12 months from completion of 1L therapy. ^b Axi-cel patients underwent leukapheresis followed by conditioning chemotherapy with cyclophosphamide (500 mg/m²/day) and fludarabine (30 mg/m²/day) 5, 4, and 3 days before receiving a single axi-cel infusion (target intravenous dose, 2×10⁶ CAR T cells/kg). ^c Protocol-defined SOC regimens included R-GDP, R-DHAP, R-ICE, or R-ESHAP. ^d 56% of patients received subsequent cellular immunotherapy. ^a EFS was defined as time from randomization to the earliest date of disease progression per Lugano Classification, ² commencement of new lymphoma therapy, or death from any cause.

1. Swerdlow SH, et al. Blood. 2016;127:2375-2390. 2. Cheson BD, et al. J Clin Oncol. 2014;32:3059-3068.



Axicabtagene Ciloleucel for 2nd line (<12m) relapsed DLBCL Locke et al, NEJM 2021

Characteristic	Axi-cel (N = 180)	Standard Care (N=179)	Total (N = 359)
Age			
Median (range) — yr	58 (21-80)	60 (26-81)	59 (21–81)
≥65 yr — no. (%)	51 (28)	58 (32)	109 (30)
Male sex — no. (%)	110 (61)	127 (71)	237 (66)
Race or ethnic group — no. (%)†			
American Indian or Alaska Native	0	1 (1)	1 (<1)
Asian	12 (7)	10 <mark>(</mark> 6)	22 (6)
Black	11 (6)	7 (4)	18 (5)
Native Hawaiian or other Pacific Islander	2 (1)	1 (1)	3 (1)
White	145 (81)	152 (85)	297 (83)
Other	10 (6)	8 <mark>(</mark> 4)	18 (5)
Hispanic or Latino ethnic group — no. (%)†			
Yes	10 (6)	8 (4)	18 (5)
No	167 (93)	169 <mark>(</mark> 94)	336 (94)
Not reported	3 (2)	2 (1)	5 (1)
ECOG performance-status score of 1 — no. (%)‡	85 (47)	79 (44)	164 (46)
Disease stage — no. (%)			
l or ll	41 (23)	33 (18)	74 (21)
III or IV	139 (77)	146 <mark>(</mark> 82)	285 (79)
Second-line age-adjusted IPI of 2 or 3 — no. (%)§	82 (46)	79 (44)	161 (45)



Axicabtagene Ciloleucel for 2nd line (<12m) relapsed DLBCL Locke et al, NEJM 2021

Molecular subgroup according to central laboratory — no. (%) \P			
Germinal center B-cell–like	109 (61)	99 (55)	208 (58)
Activated B-cell–like	16 (9)	9 (5)	25 (7)
Unclassified	17 (9)	14 (8)	31 (9)
Not applicable	10 (6)	16 (9)	26 (7)
Missing data	28 (16)	41 (23)	69 (19)
Response to first-line therapy at randomization — no. (%)			
Primary refractory disease	133 (74)	131 (73)	264 (74)
Relapse at ≤12 mo after the initiation or completion of first-line therapy	47 (26)	48 (27)	95 (26)
Disease type according to central laboratory — no. (%)			
Diffuse large B-cell lymphoma	126 (70)	120 (67)	246 (69)
High-grade B-cell lymphoma, not otherwise specified	0	1(1)	1 (<1)
High-grade B-cell lymphoma, including rearrangement of <i>MYC</i> with <i>BCL2</i> or <i>BCL6</i> or both	31 (17)	25 (14)	56 (16)
Not confirmed or missing data	18 (10)	28 (16)	46 (13)
Other	5 (3)	5 (3)	10 (3)
Disease type according to the investigator — no. (%)			
Large B-cell lymphoma, not otherwise specified	110 (61)	116 (65)	226 (63)
T-cell– or histiocyte–rich large B-cell lymphoma	5 (3)	6 (3)	11 (3)
Epstein–Barr virus–positive diffuse large B-cell lymphoma	2 (1)	0	2 (1)
Large-cell transformation from follicular lymphoma	19 (11)	27 (15)	46 (13)

Axicabtagene Ciloleucel for 2nd line (<12m) relapsed DLBCL

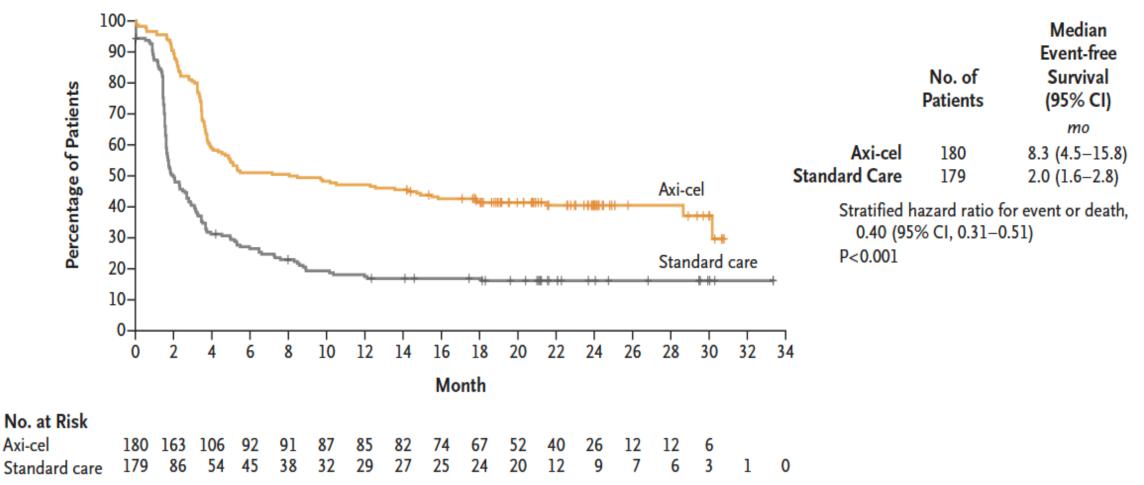
Locke et al, NEJM 2021

Event		i-cel 170)	Standard Care (N=168)		
	Any Grade	Grade ≥3	Any Grade	Grade ≥3	
Cytokine release syndrome — no. (%)	157 (92)	11 (6)	—	—	
Pyrexia — no./total no. (%)	155/157 (99)	14/157 (9)	—	_	
Hypotension — no./total no. <mark>(</mark> %)	68/157 (43)	18/157 (11)	—	_	
Sinus tachycardia — no./total no. (%)	49/157 (31)	3/157 (2)	_	_	
Chills — no./total no. (%)	38/157 (24)	0/157	—	_	
Hypoxia — no./total no. (%)	31/157 (20)	13/157 (8)	_	_	
Headache — no./total no. (%)	32/157 (20)	2/157 (1)	_	_	
leurologic event — no. (%)	102 (60)	36 (21)	33 (20)¶	1 (1)	
Tremor	44 (26)	2 (1)	1(1)	0	
Confusional state	40 (24)	9 (5)	4 (2)	0	
Aphasia	36 (21)	12 (7)	0	0	
Encephalopathy	29 (17)	20 (12)	2 (1)	0	
Paresthesia	8 (5)	1 (1)	14 (8)	0	
Delirium	3 (2)	3 (2)	5 (3)	1 (1)	



Axicabtagene Ciloleucel for 2nd line (<12m) relapsed DLBCL Locke et al, NEJM 2021





Axicabtagene Ciloleucel for 2nd line (<12m) relapsed DLBCL

Locke et al, NEJM 2021

B Subgroup Analysis

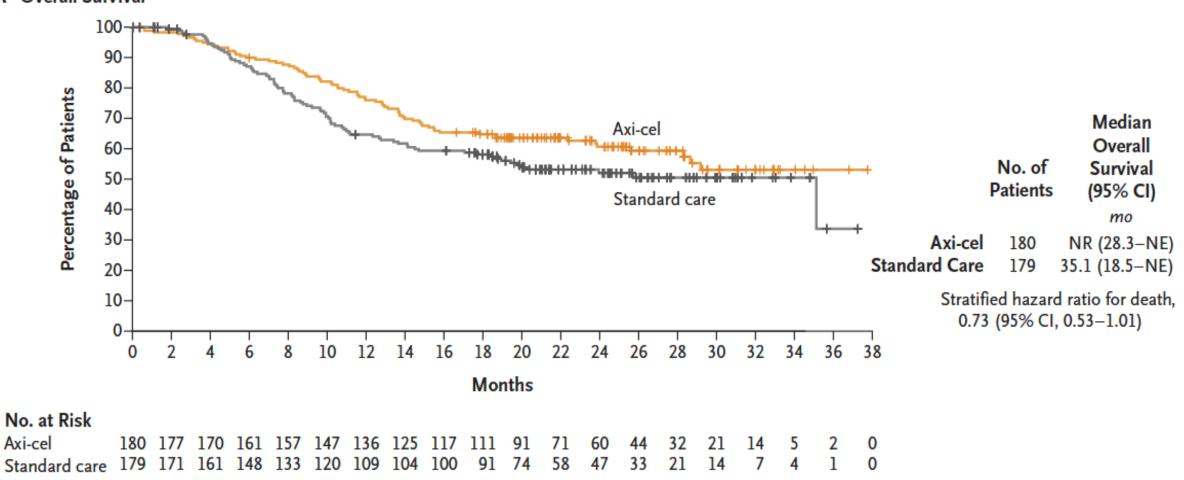
Subgroup	Axi-cel b. of patients	Standard Care with event/total no.	Hazard Ratio for E (95%)	
Overall	108/180	144/179	HeH	0.40 (0.31-0.51)
Age				
<65 yr	81/129	96/121	H H H	0.49 (0.36-0.67)
≥65 yr	27/51	48/58	⊢● −1	0.28 (0.16-0.46)
Response to first-line therapy at randomization				
Primary refractory disease	85/133	106/131	H#H	0.43 (0.32-0.57)
Relapse ≤12 mo after initiation or completion of first-line therapy	23/47	38/48	⊢ ●−1	0.34 (0.20–0.58)
Second-line age-adjusted IPI				
0 or 1	54/98	73/100	H H -1	0.41 (0.28-0.58)
2 or 3	54/82	71/79	⊢ ●	0.39 (0.27-0.56)
Prognostic marker according to central laboratory				
HGBL, double- or triple-hit	15/31	21/25	⊢ •−•	0.28 (0.14-0.59)
Double-expressor lymphoma	35/57	50/62	→	0.42 (0.27-0.67)
Molecular subgroup according to central laboratory				
Germinal center B-cell–like	64/109	80/99	H H	0.41 (0.29-0.57)
Activated B-cell–like	11/16	9/9	• • • • •	0.18 (0.05-0.72)
Unclassified	8/17	12/14		_
Disease type according to investigator				
DLBCL, not otherwise specified	68/110	97/116	H H I	0.37 (0.27-0.52)
Large-cell transformation from follicular lymphoma	10/19	24/27	→	0.35 (0.16-0.77)
HGBL, including rearrangement of MYC with BCL2 or BCL6 or both	1 23/43	18/27	⊢ •−-1	0.47 (0.24-0.90)
Disease type according to central laboratory				
DLBCL	79/126	95/120	H H H	0.44 (0.32-0.60)
HGBL, including rearrangement of MYC with BCL2 or BCL6 or both	15/31	21/26	⊢	0.28 (0.14-0.59)
		0.01	0.1 0.2 0.5 1.0 2.	0 5.0

Axi-cel Better Standard Care Better



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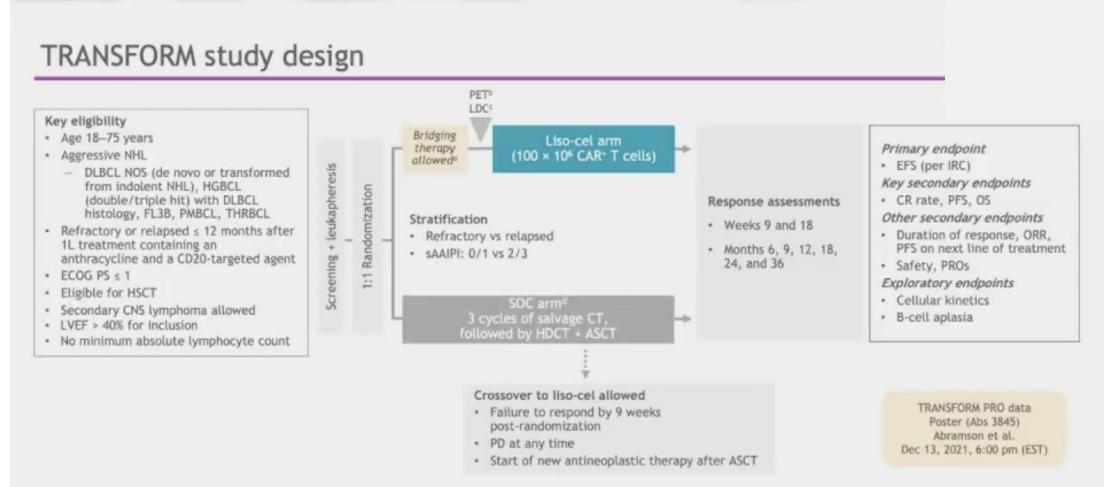




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Lisocabtagene maraleucel for 2nd line (<12m) relapsed DLBCL

Kamdar et al, ASH 2021

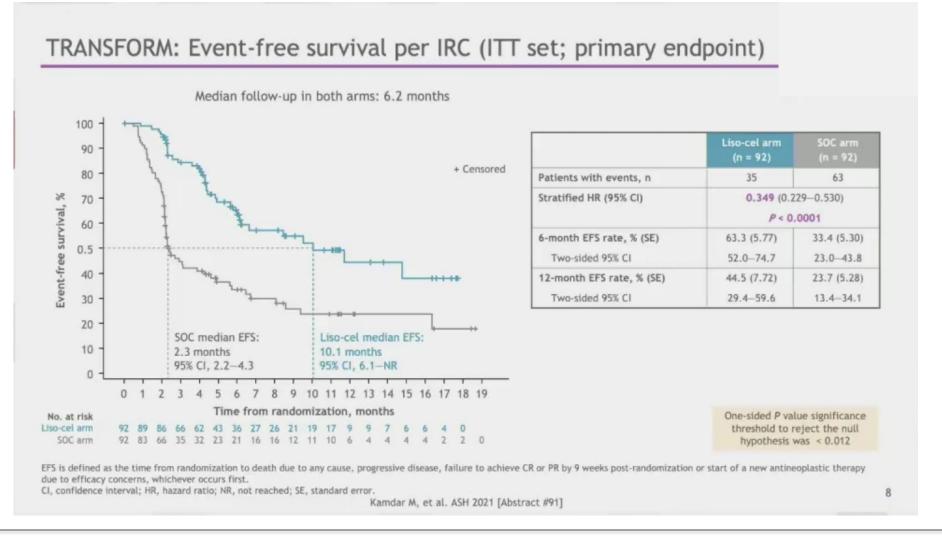


 EFS is defined as time from randomization to death due to any cause, progressive disease, failure to achieve CR or PR by 9 weeks post-randomization, or start of a new antineoplastic therapy, whichever occurs first

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Lisocabtagene maraleucel for 2nd line (<12m) relapsed DLBCL

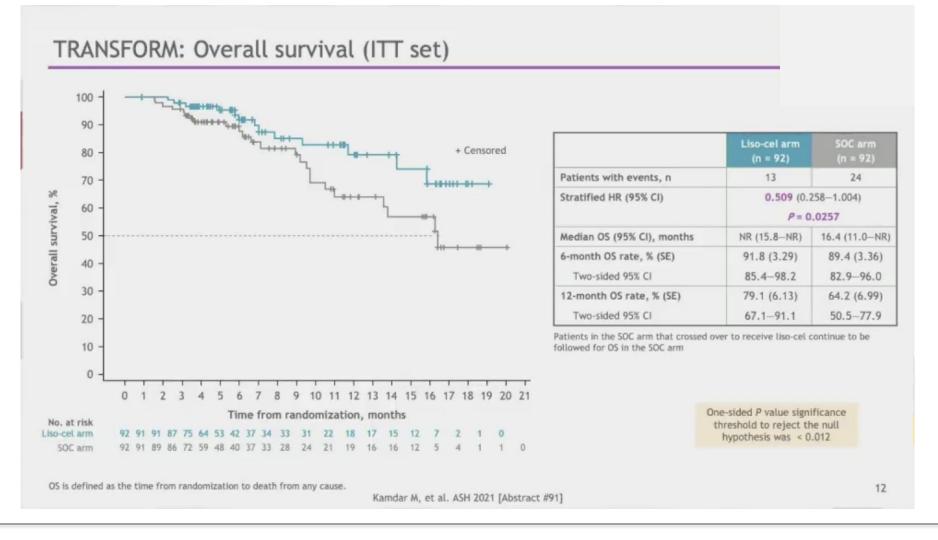
Kamdar et al, ASH 2021



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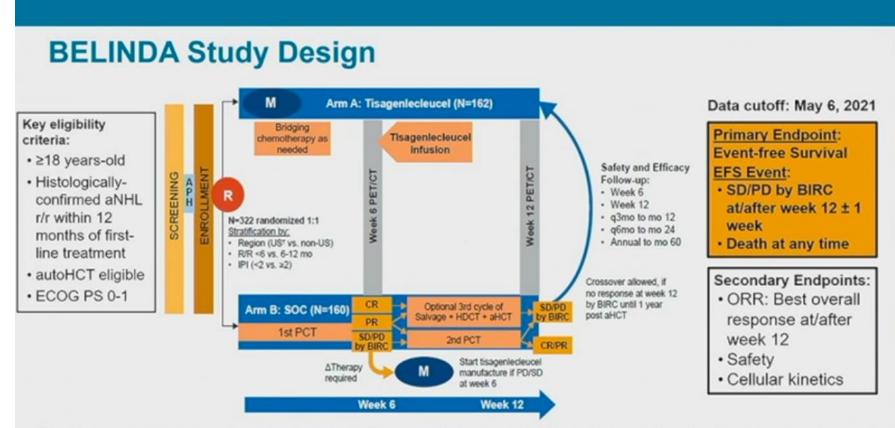
Lisocabtagene maraleucel for 2nd line (<12m) relapsed DLBCL

Kamdar et al, ASH 2021



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Tisagenlecleucel for 2nd line (<12m) relapsed DLBCL Bishop et al, NEJM 2021



aHCT, autologous hematopoietic cell transplantation; aNHL, aggressive non-Hodgkin lymphoma; APH, leukapheresis; BIRC, blinded independent review committee; CR, complete response; CT, computed tomography; ECOG PS, Eastern Cooperative Oncology Group performance status; EFS, event-free survival; HDCT, high-dose chemotherapy; IPI, International Prognostic Index; M, manufacturing; ORR, overall response rate; OS, overall survival; PCT, platinum-based immunochemotherapy; PD, progressive disease; PET, positron emission tomography; PR, partial response; q3mo, every 3 months; q6mo, every 6 months; R, randomization; SD, stable disease; SOC, standard of care; US, United States.

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Tisagenlecleucel for 2nd line (<12m) relapsed DLBCL Bishop et al, NEJM 2021

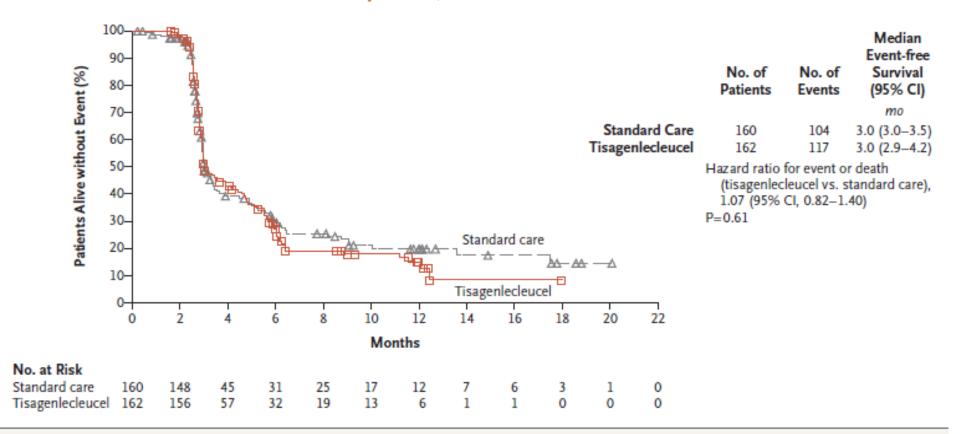


Figure 2. Kaplan-Meier Plot of Event-free Survival.

An event was defined as progressive disease or stable disease on or after day 71 or death at any time (i.e., event-free survival at a given time point represents the estimated percentage of patients who had a complete or partial response at this time point among all ran-

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Differences of EFS definitions in second line CAR-T studies

EFS definitions in Phase-3 trials of CAR-T vs SOC in transplant eligible patients with aggressive B-cell lymphoma

	ZUMA-7	TRANSFORM	BELINDA
EFS	 Disease progression Death from any cause New therapy started SD as best response within days from randomization 	 Disease progression Death from any cause New therapy started Not achieving CR/PR by weeks. 	 SD or PD at or after week 12 Death (any time)
EFS TIME	From randomization	From randomization	From randomization

CR, complete response; PR, partial response; SD, stable disease; PD, progressive disease.

Locke, F. ASH21 (#2)

Kamdar, M. ASH21 (#91)

Bishop, M. ASH21 (#LBA-6)

Pere Barba



Summary of second line CAR-T studies

Randomized trials of CAR T-cells vs. SOC in 2nd line transplant-eligible DLBCL with primary refractory disease or relapse within 1 year of 1st line therapy

	ZUMA-7	TRANSFORM	BELINDA
CAR T-cell	Axicabtagene Ciloleucel	Lisocabtagene Maraleucel	Tisagenlecleucel
n	359	184	322
% infused in CAR arm	94%	98%	96%
Median EFS	8.3 mo vs. 2 mo	10.1 mo vs. 2.3 mo	3 mo vs. 3 mo
Hazard ratio	0.398 (<i>P</i> <0.0001)	0.349; (<i>P</i> < 0.0001)	1.07 (<i>P</i> =0.69)
Median follow-up	25 months	6 months	10 months
CR rate	65% vs 32%	66% vs 39%	28% vs 28%
Grade ≥3 CRS/NT	6% / 21%	1% / 4%	5% / 3%
	Locke, et al. Abstract 2	Kamdar, et al. Abstract 91	Bishop, et al. Abstract LBA-6

Toby Eyre



Implications of second line CAR-T studies

In patients with chemoresistant disease (short first remission), more chemo (and AutoSCT) is not effective

Why different outcome in BELINDA study with Tisagenlecleucel?

- chemotherapy bridging (sicker patients), additional chemo cycles for standard group, longer time (52d) to get CAR-T (and 25.9% pre-infusion PD), different agent, less lymphodepletion, event definitions

CAR-T will be SOC for those with PD < 1 year

- for practical reasons seems likely there will still be 2nd line chemo for many patients

AutoSCT remains SOC for those with later relapses



Conclusions

Polatuzumab + R-CHP a new option for patients with newly diagnosed DLBCL (IPI 2-5)

CAR-T option for second line DLBCL therapy in patients with relatively chemo-refractory disease (response < 12 mo)

Bispecifics of interest in recurrent DLBCL (and other subtypes)

