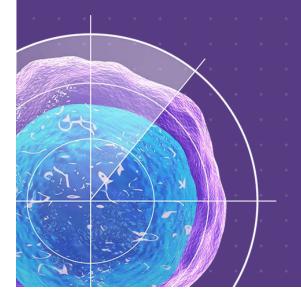


Sequencing treatment options in primary refractory DLBCL

Professor Andrew Davies

University of Southampton, Southampton, UK



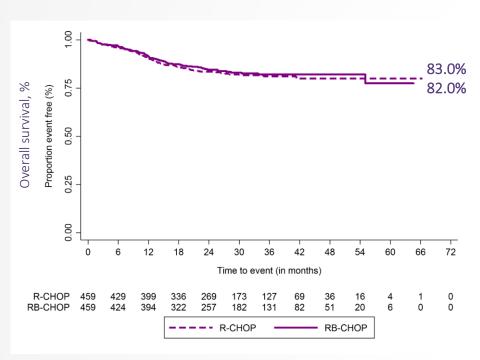
Disclosures

	Research funding	Consultancy
Celgene	V	٧
Gilead-Kite	٧	٧
Acerta/AstraZeneca	٧	٧
GSK	V	٧
Roche	V	٧
Janssen	V	٧
ADC Therapeutics	٧	٧
BioInvent	V	٧
Takeda	V	٧
Karyopharm Therapeutics	V	٧
Incyte		V

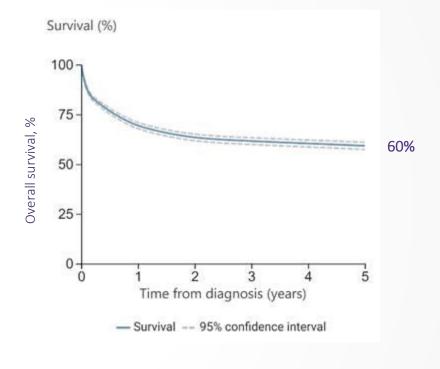
Female aged 72

- Weight loss, palpable neck, inguinal adenopathy
- Diffuse large B-cell lymphoma (NOS). GCB phenotype. High Ki67 (80–90%)
- No translocation of MYC, BCL2, or BCL6 by FISH. Not double expressor.
- Mutation panel: BCL2^{mut}, CREBP^{mut}
- Nodal disease above and below the diaphragm with BM involvement
- Increased LDH (×4.4 ULN)
- Stage IVB; high IPI
- R-CHOP ×4 with disease progression. Primary progressive disease
- BM remains positive; high LDH

DLBCL is a curable disease... but many patients are failed by our current therapies

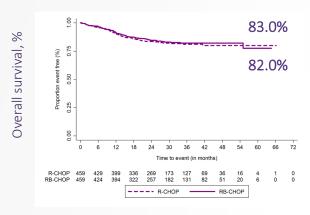


Davies A, et al. Lancet Oncol. 2019;20:649-62.

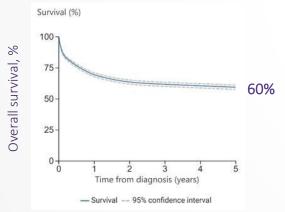


Haematological Malignancy Research Network (HMRN). Survival statistics. https://hmrn.org/statistics/survival.

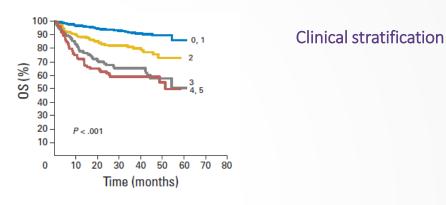
DLBCL is a curable disease... but many patients are failed by our current therapies



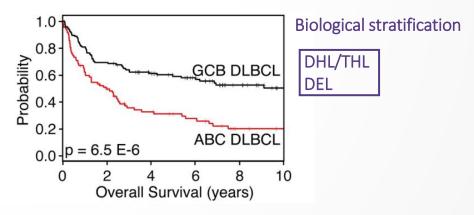
Davies A, et al. Lancet Oncol. 2019;20:649-62.



Haematological Malignancy Research Network (HMRN). Survival statistics. https://hmrn.org/statistics/survival.



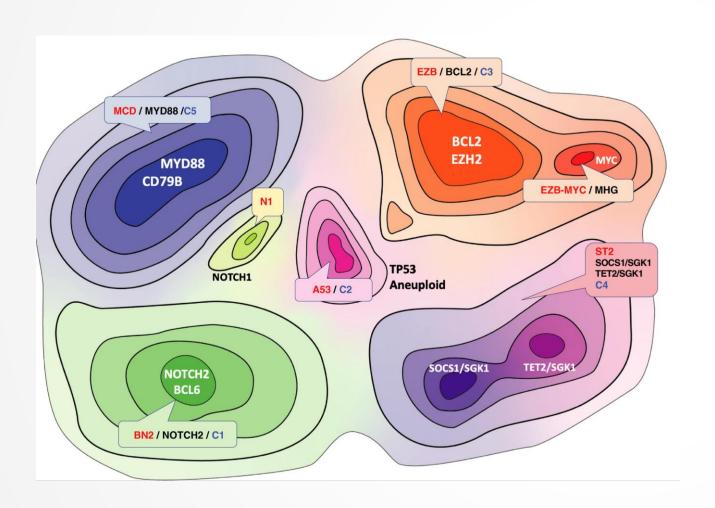
Ziepert M, et al. J Clin Oncol. 2010;28:2373-2380.

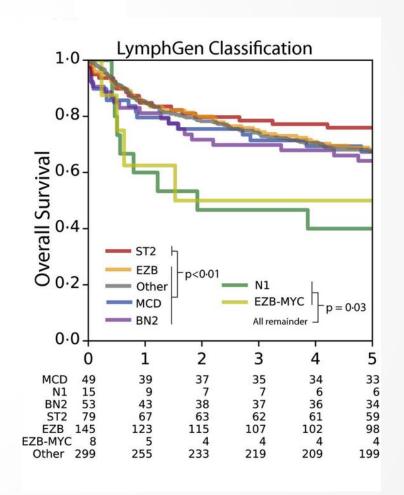


Wright G, et al. Proc Natl Acad Sci. 2003;100(17):9991-9996.

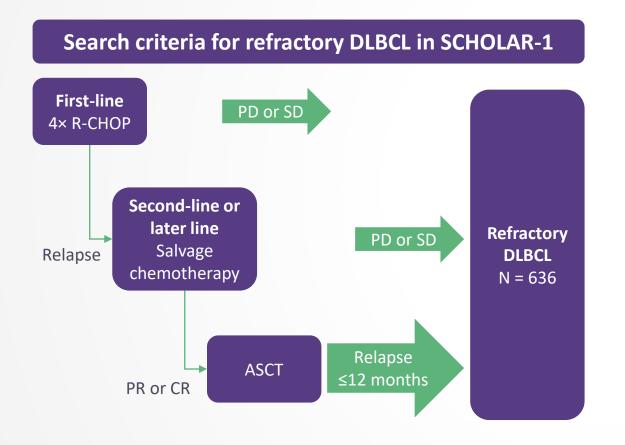
ABC, activated B-cell; DEL, double-expressor lymphoma; DHL, double-hit lymphoma; DLBCL, diffuse large B-cell lymphoma; GCB, germinal centre B-cell; OS, overall survival; R-CHOP, rituximab + cyclophosphamide + doxorubicin + vincristine + prednisone; RB-CHOP, rituximab + bendamustine + cyclophosphamide + doxorubicin + vincristine + prednisone; THL, triple-hit lymphoma.

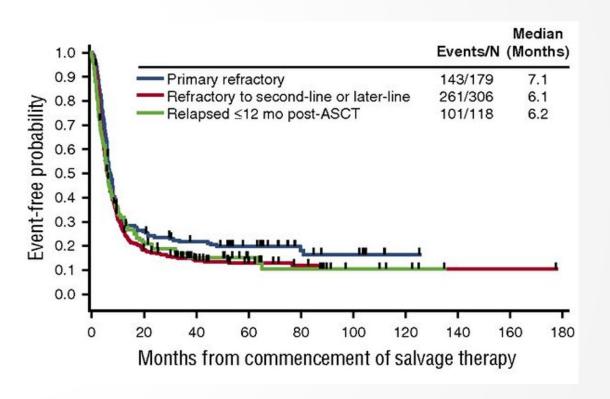
Insights from molecular heterogeneity?



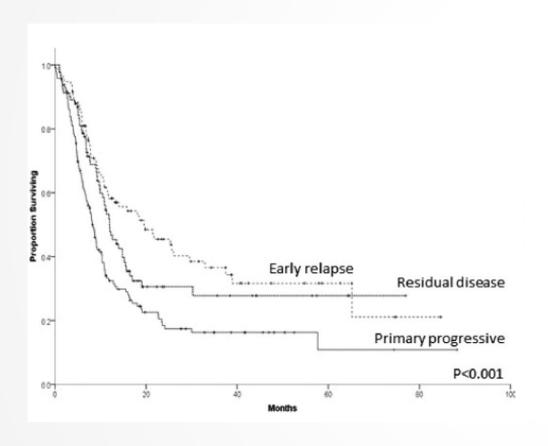


Outcomes in refractory DLBCL: results from the international SCHOLAR-1 study





Patterns of primary refractory disease



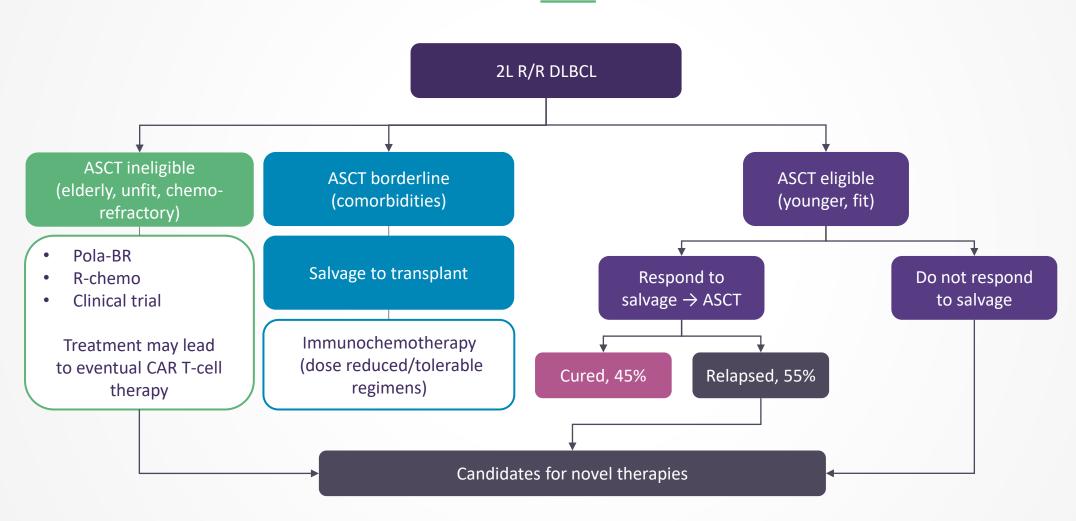
- In refractory disease, the tendency is to have the same treatment paradigm as relapsed DLBCL
- Data are from the same studies: R/R patients

2-year OS

- Primary progressive (PD by or on Week 6 after completing CIT), 19%
- Residual disease (PR or SD after ≥5 cycles of CIT),
 31%
- Early relapse (achieve a CR then PD <6 months following completion of CIT), 46%

CIT, chemoimmunotherapy; CR, complete response; DLBCL, diffuse large B-cell lymphoma; OS, overall survival; PD, progressive disease; PR, partial response; R/R, relapsed/refractory; SD, stable disease. Costa L, et al. *Am J Hematol.* 2017;92(2):161-170.

Current treatment algorithm: 2L setting^{1,2}

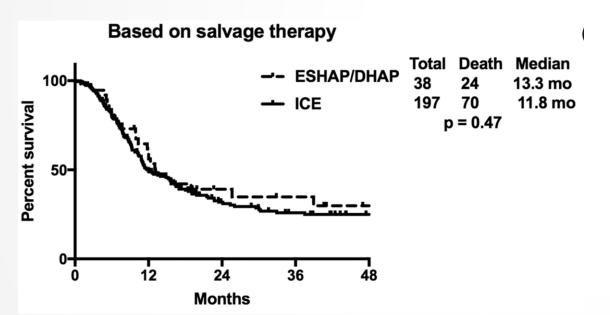


2L, second line; ASCT, autologous stem cell transplantation; CAR, chimeric antigen receptor; CR, complete response; DLBCL, diffuse large B-cell lymphoma; OS, overall survival; PD, progressive disease; Pola-BR, polatuzumab vedotin + bendamustine + rituximab; R-chemo, rituximab + chemotherapy; R/R, relapsed/refractory; SD, stable disease.

1. Sarkozy C, Sehn LH. *Ann Lymphoma*. 2019;3:10. 2. Sehn L, Gascoyne RD. *Blood*. 2015;125:22-32.

Response to reinduction therapy in primary refractory disease (REFINE study)

Response	DHAP/ESHAP (n = 38)	ICE (n = 197)	p value
ORR (CR + PR)	18 (47)	99 (50)	0.85
CR	9 (24)	44 (22)	0.67

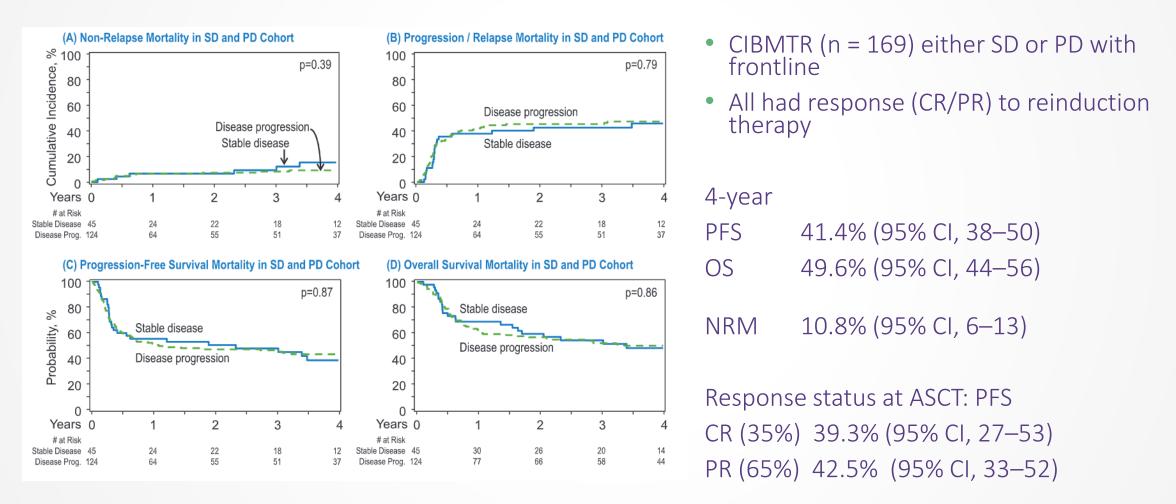


- Probably no difference in reinduction regimen in those with primary treatment failure
- Definition: Relapse within 6 months of upfront chemoimmunotherapy (R-CHOP), primary progressive disease, or stable disease as best response after upfront therapy

CR, complete response; DHAP, dexamethasone + high-dose cytarabine + cisplatin; ESHAP, etoposide methylprednisolone + high-dose cytarabine + cisplatin; ICE, ifosfamide + carboplatin + etoposide; mo, months; ORR, overall response rate; OS, overall survival; PD, progressive disease; Pola-BR, polatuzumab vedotin + bendamustine + rituximab; PR, partial response; R-chemo, rituximab + chemotherapy; R-CHOP, rituximab + cyclophosphamide + doxorubicin + vincristine + prednisone; R/R, relapsed/refractory; SD, stable disease.

Badar T, et al. *Leuk Lymphoma*. 2019;60(4):940-946.

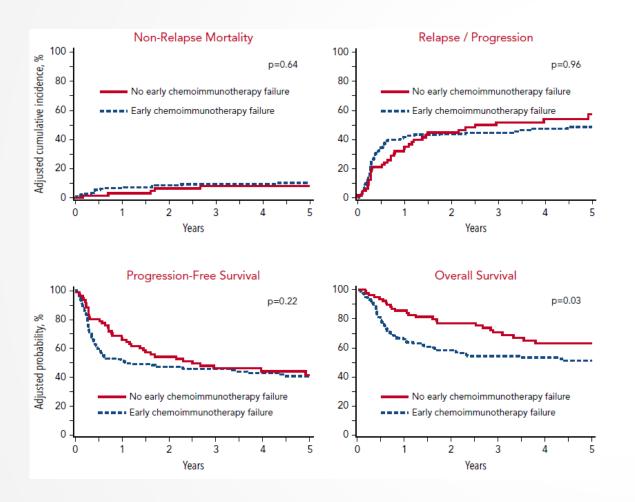
Primary refractory disease: Durable control may be achieved with an ASCT if response to reinduction therapies



ASCT, autologous stem cell transplantation; CI, confidence interval; CIBMTR, Center for International Blood and Marrow Transplant Research; CR, complete response; NRM, non-relapse mortality; OS, overall survival; PD, progressive disease; PFS, progression-free survival; PR, partial response; SD, stable disease.

Bal S, et al. *Transplant Cell Ther.* 2021;27(1):55.e1-55.e7.

Should ASCT be offered to patients in PET+ PR?^{1,2}



- CIBMTR (n = 249) relapsed DLBCL PET+ PR
- Included early chemotherapy failures (relapse within 12 months; n = 182)
 - 79% were primary refractory

5-year

PFS 41%

OS 51%

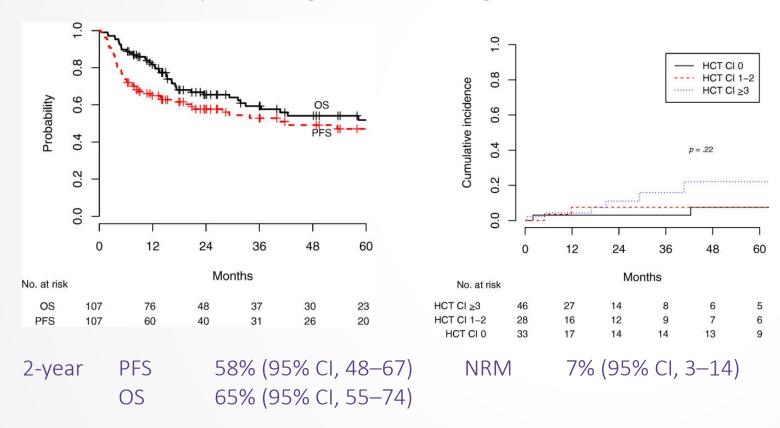
Cures with low NRM/modest cost

ASCT, autologous stem cell transplantation; CIBMTR, Center for International Blood and Marrow Transplant Research; DLBCL, diffuse large B-cell lymphoma; NRM, non-relapse mortality; OS, overall survival; PET, positron emission tomography; PFS, progression-free survival; PR, partial response; SD, stable disease.

1. Shah N, et al. *Blood*. 2021;137(10):1416-1423. 2. *Oncologist*. 2020;25(Suppl 1):S10-S11.

Should we challenge the assumption that ASCT is too toxic in the elderly?

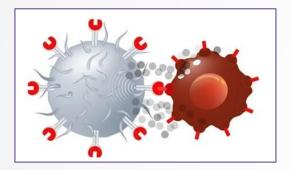
Outcomes for patients aged >70 receiving ASCT (DLBCL n = 63; 59%)



- Patient selection
- Optimising supportive care
- Use of comprehensive geriatric assessment methodologies
- Trajectory of functional recovery
- Individualised choices/shared decisions

ASCT, autologous stem cell transplantation; CIBMTR, Center for International Blood and Marrow Transplant Research; DLBCL, diffuse large B-cell lymphoma; HCT CI, hematopoietic cell transplantation-specific comorbidity index; NRM, non-relapse mortality; OS, overall survival; PET, positron emission tomography; PFS, progression-free survival. Sun L, et al. *Oncologist*. 2018;23(5):624-630.

Approved CD19-directed CAR T cells in DLBCL*



McKenzie S. CAR-T cell toxicity and safety profiles. https://www.news-medical.net/health/CAR-T-Cell-Toxicity-and-Safety-Profiles.aspx. 2019.

	Axicabtagene ciloleucel ¹	Tisagenlecleucel ²	Lisocabtagene maraleucel ³
Construct	Anti-CD19-CD28-CD3z	Anti-CD19-41BB-CD3z	Anti-CD19-41BB-CD3z
Vector	Retrovirus	Lentivirus	Lentivirus
T-cell manufacturing	Bulk	Bulk	Defined doses CD4, CD8
Dose	2×10^6 /kg (max. 2×10^8)	$0.1-6.0 \times 10^8$ /kg	1.0×10^{8} /kg
Bridging therapy	None allowed in pivotal trial	92%	59%
Lymphodepletion	Flu/Cy 30/500 mg/m²/day ×3 days	Flu/Cy 25/250 mg/m²/day ×3 days or bendamustine	Flu/Cy 30/300 mg/m ² /day ×3 days
Approval status	EMA approved Adult: R/R DLBCL,† R/R PMBCL FDA approved Adult: R/R DLBCL, R/R HGBCL, R/R transformed FL, R/R PMBCL	EMA approved Paediatric: R/R ALL Adult: R/R DLBCL† FDA approved Paediatric: R/R ALL Adult: R/R DLBCL, R/R HGBCL, R/R transformed FL	FDA approved Adult R/R DLBCL (including DLBCL arising from indolent lymphoma), high-grade B-cell lymphoma, primary mediastinal large B-cell lymphoma, and follicular lymphoma Grade 3B Not EMA approved

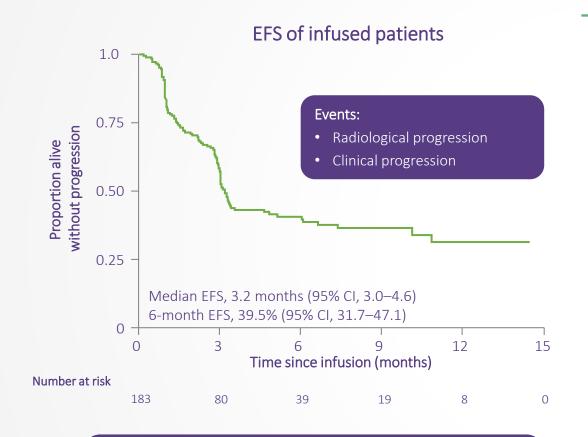
ALL, acute lymphocytic leukaemia; HGBCL, high-grade B-cell lymphoma; CAR, chimeric antigen receptor; Cy, cyclophosphamide; EMA, European Medicines Agency; FDA, U.S. Food and Drug Administration; FL, follicular lymphoma; Flu, fludarabine; PMBCL, primary mediastinal large B-cell lymphoma.

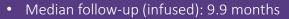
^{*}The purpose of this slide is to summarise data; no comparison is intended.

[†]Including high-grade BCL and transformed FL.

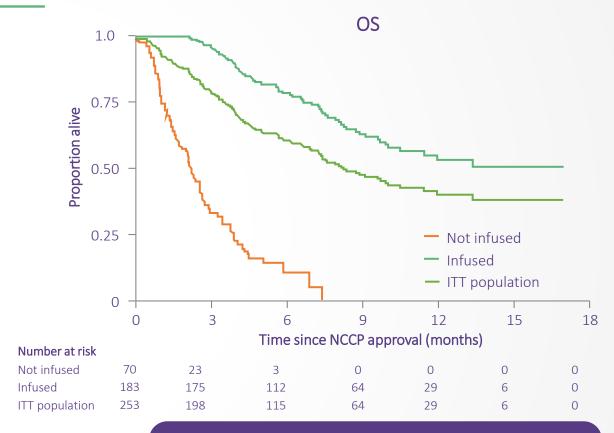
^{1.} Locke FL, et al. Lancet Oncol. 2019;20:31-42. 2. Schuster SJ, et al. N Engl J Med. 2019;380:45-56. 3. Abramson JS, et al. Lancet. 2020;396:839-852.

UK NCCP: Achieving benefit in a real-world population





- 97/183 patients have progressed
- 39/97 are alive with a median of 137 days since progression (IQR, 63–248)

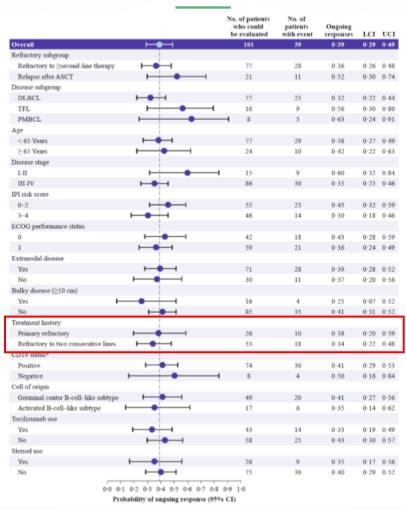


Median OS

- Infused: 13.4 months (95% CI, 9.7–NR)
- ITT population: 8.1 months (95% CI, 7.0–10.0)
- Not infused: 2.2 months (95% CI, 1.6–2.7)

CI, confidence interval; EFS, event-free survival; IQR, interquartile range; ITT, intent to treat; NCCP, National CAR-T Clinical Panel; NR, not reached; OS, overall survival. Kuhnl A, et al. Abstract #S243; 25th EHA Annual Congress. Jun 12, 2020; Virtual.

Long-term efficacy in refractory patients



ASCT, autologous stem cell transplant; DLBCL, diffuse large B-cell lymphoma; ECOG, Eastern Cooperative Oncology Group performance status; IPI, International Prognostic Index; LCI, lower confidence interval; No., number; PMBCL, primary mediastinal large B-cell lymphoma; TFL, transformed follicular lymphoma; UCI, upper confidence interval.

*CD19 status was determined by histologic score for the 82 patients with available samples.

Locke et al. Lancet Oncol. 2019;20(1):31-42 [Supplementary data, Figure S4].

Should we instead proceed to a CAR T-cell therapy?

- The superiority of CAR-T over ASCT has not been shown in those with relapsed chemosensitive DLBCL
- CAR-T clearly works at time of ASCT relapse, but the reverse sequence is not generally considered feasible
- Difficult to deliver further therapies for patients that relapse post CAR-T

Phase III second line studies

- ZUMA-7: Axi-cel (NCT03391466)
- BELINDA: Tisagen (NCT03570892)
- TRANSFORM: Liso-cel (NCT03570892)

CAR T-cell therapies in those with moderate impairment of physiology

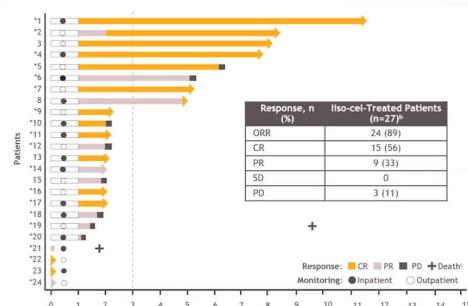
	TRANSCEND NHL 001 ¹	ZUMA-1 ^{2,3}	JULIET ⁴
	Lisocabtagene maraleucel	Axicabtagene ciloleucel	Tisagenlecleucel
Creatinine clearance	>30 mL/min	>60 mL/min	≥60 mL/min
LVEF	≥40%	≥50%	≥45%
Secondary CNS involvement	Yes	No	No
ECOG	0/1/2 (ECOG 2 added in 2017 protocol amendment)	0/1	0/1
Minimum ALC	No minimum	≥100/µL	>300/mm ³ and absolute CD3+ T cells >150/mm ³

ALC, absolute lymphocyte count; CNS, central nervous system; ECOG, Eastern Cooperative Oncology Group; LVEF, left-ventricular ejection fraction.

1. Abramson JS, et al. *Lancet*. 2020;396:839-852 (incl. suppl.) 2. Neelapu SS, et al. *N Engl J Med*. 2017;377:2531-2544 (incl. suppl.) 3. ClinicalTrials.gov. clinicaltrials.gov/ct2/show/NCT02348216. Updated Mar 23, 2021. Accessed Mar 2021. 4. Schuster SJ, et al. *N Engl J Med*. 2019;380:45-56 (incl. suppl.).

Pilot study: Patients ineligible for ASCT

- Age ≥70 years (68%)
- ECOG PS 2 (28%) or impaired organ function (24%)
- 24% ≥2 criteria
- 48% refractory to last therapy



- All patients achieved an early objective response by Day 30
- 10 of 12 patients who had a CR with ≥1 follow-up assessment remain in CR
- Median follow-up for response was 5 months
- Kaplan-Meier-estimated probability of continued response:
 - 63% (95% CI, 37-81) at 3 months
 - 53% (95% CI, 25-75) at 6 months
- Treatments received after progression included:
 - Pembrolizumab (n=2)
 - Rituximab + chemotherapy (n=1)

CR, complete response; DOR, duration of response; ORR, overall response rate; PD, progressive disease; PR, partial response; SD, stable disease.
*Patients met ≥1 prognosis risk factor and ≥1 TNE criterion.

Duration of Response (Months)

*n=24. *Responses were calculated based on patients who had Day 29 response assessment data entered in the clinical database or who died/discontinued study before Day 29 prior to the data cut. *The third death is not shown because the patient never responded.

Abstract \$244

Start of DOR

Considered non-transplant eligible but perhaps CAR-T eligible?

NCCN guidelines 2021¹

Second-line and subsequent therapy (non-candidates for transplant)

Preferred regimens (in alphabetical order)

- GemOx ± rituximab
- Polatuzumab vedotin ± bendamustine ± rituximab

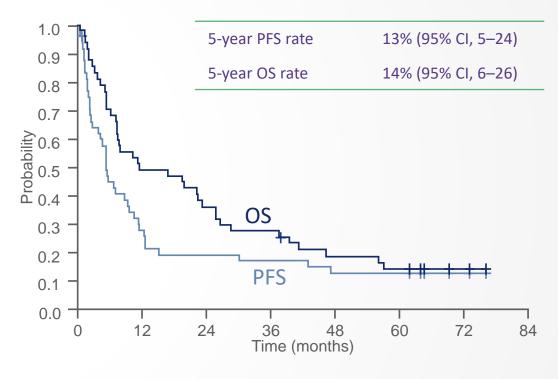
Other recommended regimens (in alphabetical order)

- CEPP (cyclophosphamide, etoposide, prednisone, procardazine) ± rituximab
 PO and IV
- CEOP (cyclophosphamide, etoposide, vincristine, prednisone) ± rituximab
- DA-EPOCH ± rituximab
- GDP ± rituximab or (gemcitabine, dexamethasone, carboplatin) ± rituximab
- Gemcitabine, vinorelbine ± rituximab (category 3)
- Rituximab
- Tafasitamab + lenalidomide

Useful in certain circumstances

- Brentuximab vedotin for CD30+ disease
- Bendamustine ± rituximab (category 2B)
- Ibrutinib (non-GCB DLBCL)
- Lenalidomide ± rituximab (non-GCB DLBCL)

R-GemOx efficacy²

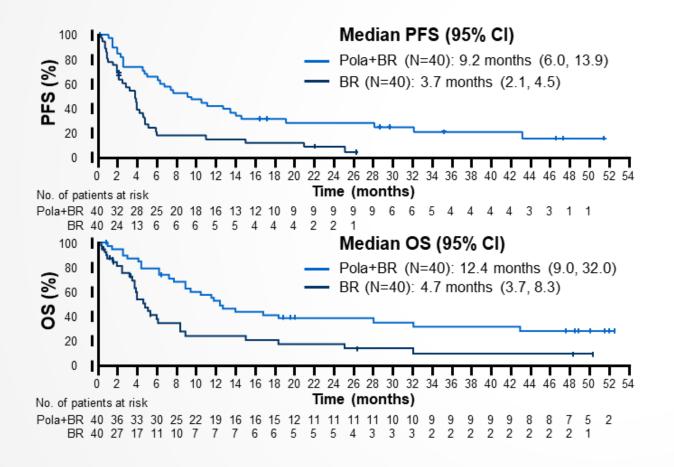


ORR, 61%; CR/CRu rate, 44%

CI, confidence interval; CR, complete response; CRu, unconfirmed complete response; DA-EPOCH, dose-adjusted etoposide phosphate + prednisone + vincristine sulfate + cyclophosphamide + doxorubicin hydrochloride; DLBCL, diffuse large B-cell lymphoma; ECOG PS, Eastern Cooperative Oncology Group performance status; GCB, germinal centre B-cell; GemOx, gemcitabine + oxaliplatin; IV, intravenous; ORR, overall response rate; OS, overall survival; PD, progressive disease; PFS, progression-free survival; PO, per os; PR, partial response; SD, stable disease.

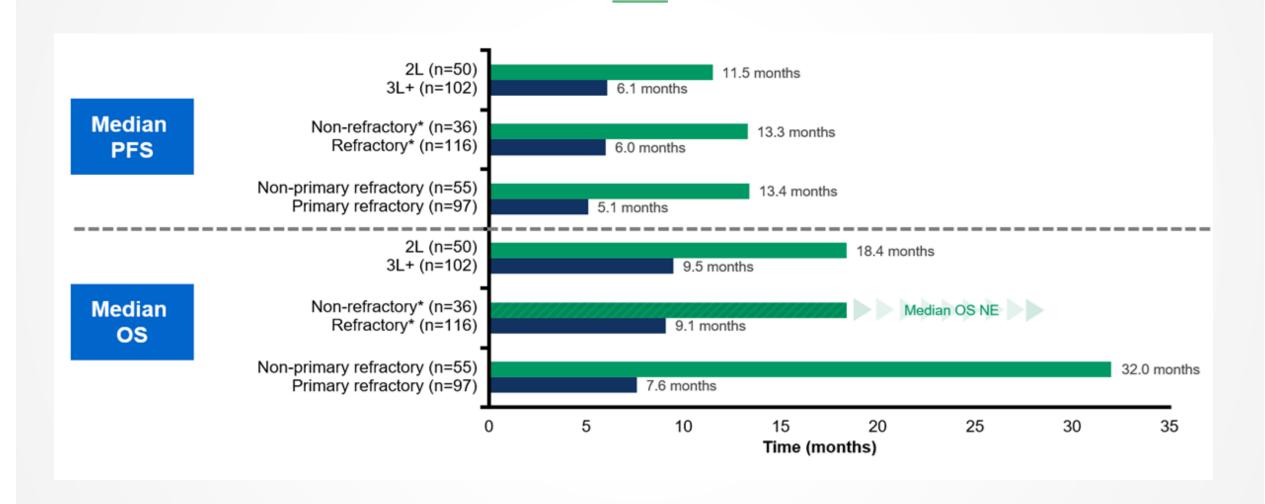
1. NCCN Guidelines Version 4. 2021. Diffuse large B-cell lymphoma. Accessed May 2021. 2. Mounier N, et al. *Haematologica*. 2013;98:1726-31.

Polatuzumab plus rituximab and bendamustine



 Caution with bendamustine if CAR T-cell therapy is an option

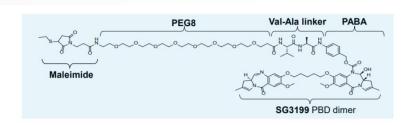
Efficacy in patients with primary refractory disease



Loncastuximab tesirine: CD19 ADC



Tesirine/ SG3249





n = 145.58% refractory to last therapy; median 3 (2–7) therapies

Eligibility criteria:

- R/R DLBCL (failed or intolerant to available standard therapy)
- ECOG PS 0-2
- If previous CD19-directed therapy received, must have a biopsy that shows CD19 expression after completion of the CD19-directed therapy

Exclusion criteria:

- Hypersensitivity to or positive serum human ADA to a CD19 antibody
- Previous therapy with ibrutinib (or other BTK inhibitors) or lonca
- Primary endpoint: CRR (Phase II)

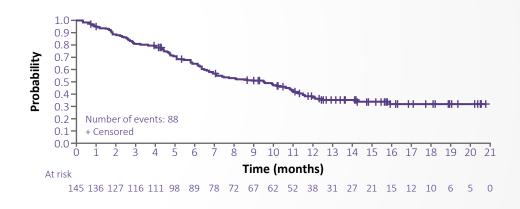
ADA, adenosine deaminase; ADC, antibody—drug conjugate; BTK, Bruton's tyrosine kinase; CRR, complete response rate; DLBCL, diffuse large B-cell lymphoma; ECOG PS, Eastern Cooperative Oncology Group performance status; Lonca; loncastuximab tesirine; R/R, relapsed/refractory.

Caimi P, et al. Poster #1183. 62nd ASH Annual Meeting and Exposition; Dec 2020; Virtual.

LOTIS-2 (Phase II single-arm study): Loncastuximab tesirine demonstrates promising clinical activity in 3L+ R/R DLBCL^{1,2}

Safety	
Any TEAE n (%)	143 (99)
Most common Grade ≥3, % Neutropenia Thrombocytopenia GGT increased Anaemia	26 18 17 10
Efficacy outcomes	% (95% CI)
ORR, % (95% CI) Double/triple-hit Transformed disease Primary refractory	% (95% CI) 48 (40–57) 33 (12–62) 45 (27–64) 38 (21–58)
ORR, % (95% CI) Double/triple-hit Transformed disease	48 (40–57) 33 (12–62) 45 (27–64)

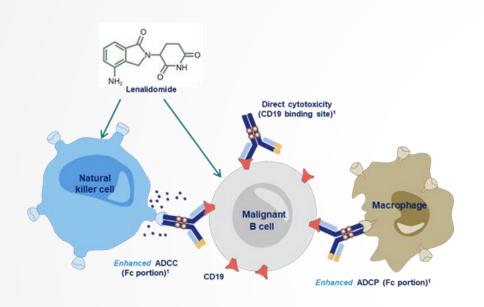
Median OS, 9.53 months (95% CI, 6.93–11.24)



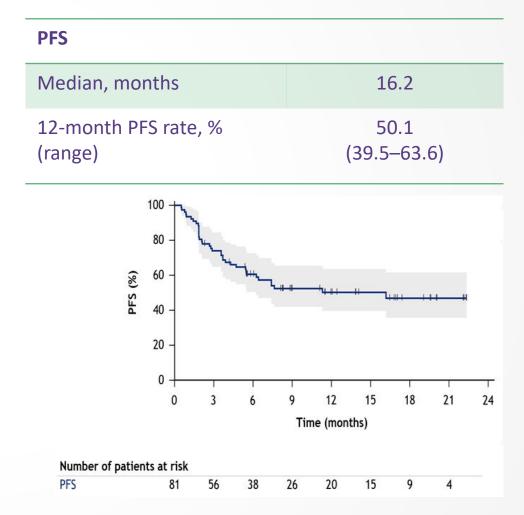
³L, third line; CI, confidence interval; CRR, complete response rate; DLBCL, diffuse large B-cell lymphoma; DOR, duration of response; GGT, gamma-glutamyl transpeptidase; NR, not reached; ORR, overall response rate; OS, overall survival; R/R, relapsed/refractory; TEAE, treatment-emergent adverse event.

^{1.} Caimi P, et al. Poster #1183. 62nd ASH Annual Meeting and Exposition. Dec 2020; Virtual. 2. ClinicalTrial.gov. https://clinicaltrials.gov/ct2/show/NCT03589469. Updated Apr 1, 2021. Accessed May 2021.

Tafasitamab and lenalidomide



- n = 81
- Important: Excluded primary refractory DLBCL, defined as no response to or PD during or within 6 months of frontline therapy; no DHL/THL



ADCC, antibody-dependent cellular cytotoxicity; ADCP, antibody-dependent cellular phagocytosis; DHL, double-hit lymphoma; PD, progressive disease; PFS, progression-free survival; THL, triple-hit lymphoma.

CD19-directed ADC therapy does not preclude future CD19-directed CAR T-cell therapy

		Patients (N = 14)
Age, median (ran	ge), y	58.5 (27–86)
Sex, n (%)	Male Female	11 (79) 3 (21)
Race, n (%)	White African American/Black	13 (93) 1 (7)
Lymphoma subty	rpe DLBCL* Transformed DLBCL	10 4
IPI at diagnosis, r	Low (0, 1) Low-intermediate (2) High-intermediate (3) Unknown Advanced stage (III/IV) at diagnosis	3 (21) 3 (21) 5 (36) 3 (21) 4 (29)
c-MYC rearrange	ment, n (%) Yes No Unknown	3 (21) 8 (57) 3 (21)
Median interval b	petween diagnosis and start of loncastuximab tesirine (range), mo	21.5 (6.8–258)
Best response to	loncastuximab tesirine, n (%) Complete response Partial response	1 (7) 5 (36)
,	not add up to 100 due to rounding. I mediastinal large B-cell lymphoma.	

ADC, antibody—drug conjugate; CAR, chimeric antigen receptor; CRS, cytokine release syndrome; DLBCL, diffuse large B-cell lymphoma; Flu/Cy, fludarabine/cyclophosphamide; ICANS; Immune effector cell-associated neurotoxicity syndrome; IPI, International Prognostic Index.

Thapa B, et al. *Blood Adv.* 2020;4(16):3850-3852.

		Patients (N = 14)
CD19 expression on	lymphoma cells after loncastuximab tesirine therapy, n (%) Positive Not checked	10 (71) 4 (29)
Median interval bet	ween loncastuximab tesirine and CAR T-cell therapy (range),	120 (22–600)
Additional therapy	between loncastuximab tesirine and CAR T-cell therapy, n (%) Yes* No	6 (43) 8 (57)
Disease status befo	re CAR T-cell therapy, n (%) Refractory disease Progressive disease Partial remission	5 (36) 8 (57) 1 (7)
Flu/Cy lymphodeple	tion, n (%)	14 (100)
Type of CAR T-cell t	herapy, n (%) Axicabtagene ciloleucel Tisagenlecleucel Investigational targeting CD19† JCAR017	5 (36) 2 (14) 4 (29) 3 (21)
Best response to CA	AR T-cell therapy, n (%) Complete response Partial response Refractory disease	6 (43) 1 (7) 7 (50)
CRS grade, n (%)	None 1 2 3	6 (43) 3 (21) 4 (29) 1 (7)
ICANS grade, n (%)	None 1 2 3 4	8 (57) 4 (29) 1 (7) 0 (0) 1 (7)

^{*}Additional therapy between loncastuximab tesirine and CAR T-cell therapy included radiation alone (n = 3), radiation, ifosphamide/vinblastine/etoposide (n = 1), radiation; rituximab/methotrexate (n = 1), lenalidomide, anti-CD47 antibody, ibrutinib (n = 1).

[†]One patient each received a CD19/CD22-directed CAR, and a CD19/CD20-directed CAR. Neither patient responded to CAR treatment.

CD20xCD3 bispecific antibodies in early clinical development for DLBCL

	Bispecific antibody	Descriptor	Formulation	Development phase (disease)
1:1 format	Mosunetuzumab ^{1,2,3}	Fully humanised, IgG1-like with modified Fc region	IV/SC	Phase I/II (R/R NHL, R/R FL)
	Odronextamab ^{2,4}	Hinge-stabilised, fully humanised, full-length IgG4 with a modified Fc region	IV	Phase I (R/R NHL, CLL, lymphoma); Phase II (R/R NHL)
	Epcoritamab ⁵	DuoBody full-length, human IgG1 with a silent Fc region	SC	Phase I/II (R/R NHL)
	Plamotamab ⁶	Humanised, IgG1-like with modified Fc region	IV	Phase I (R/R NHL, R/R CLL)
2:1 format	Glofitamab ^{2,7,8}	Fully humanised, IgG1-like with modified Fc region	IV	Phase I/II (R/R NHL) Phase III (R/R DLBCL)

CLL, chronic lymphocytic leukaemia; DLBCL, diffuse large B-cell lymphoma; Fc, fragment crystallisable; FL, follicular lymphoma; IgG1, immunoglobulin G1; IgG4, immunoglobulin G4; IV, intravenous; NHL, non-Hodgkin lymphoma; R/R, relapsed/refractory; SC, subcutaneous.

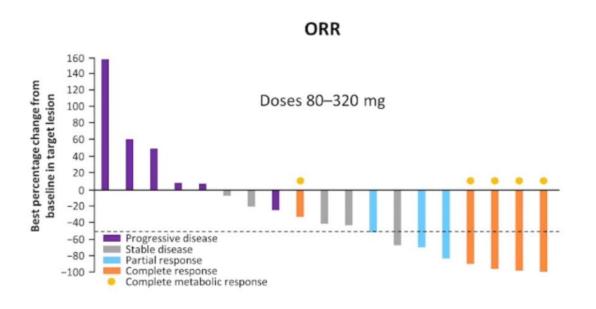
1. Sun LL, et al. Sci Transl Med. 2015;7:287ra701. 2. Bacac M, et al. Oncoimmunol. 2016;5:e1203498. 3. Matasar M, et al. Poster #2096. 62nd ASH Annual Meeting and Exposition; Dec 2020; Virtual. 4. Smith EJ, et al. Sci Rep. 2015;5:1. 5. Lugtenburg P, et al. Blood. 2019;134(supplement_1):758. 6. Patel K, et al. Blood. 2019;134 (Supplement_1):4079. 7. Hutchings M, et al. Oral abstact #403. 62nd ASH Annual Meeting and Exposition; Dec 2020; Virtual. 8. ClinicalTrials.gov. https://www.clinicaltrials.gov/ct2/show/NCT04408638. Updated Apr 28, 2021.

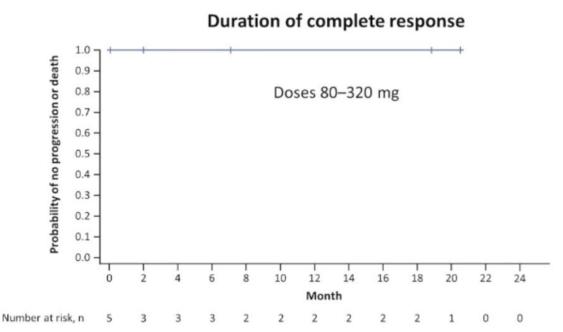
Odronextamab in R/R DLBCL: Post CAR-T

ORR: 33% (n=8/24); CR rate: 21% (n=5/24)

CRs appear durable; median DoCR not reached

• 100% of CRs are ongoing,* for up to 20 months



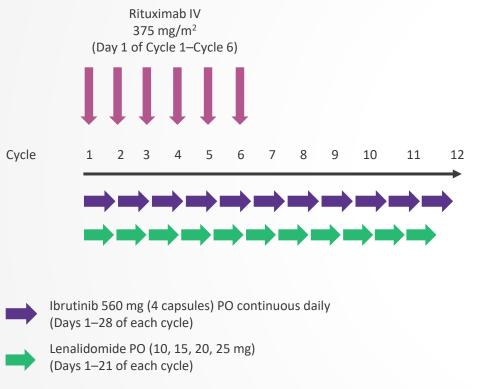


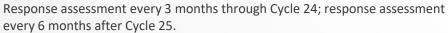
Data cut-off: Oct 14, 2020.

Response per investigator assessment according to Lugano criteria. Median duration of follow up is 3 months (range, 0-22).

*At time of last tumor assessment.

Ibrutinib plus lenalidomide and rituximab: Activity in R/R non–GCB DLBCL







CR, complete response; DLBCL, diffuse large B-cell lymphoma; GCB, germinal centre B-cell-like; IV, intravenous; PD, progressive disease; PO, per os; PR, partial response; R/R, relapsed/refractory; SD, stable disease.

Selinexor (XPO1 inhibitor) in R/R DLBCL (SADAL study – NCT02227251)

R/R DLBCL (N = 127)

Excluded if CrCl <30 mL/min

2–5 prior regimens

Not eligible for ASCT

Platelet count >75,000/mm³

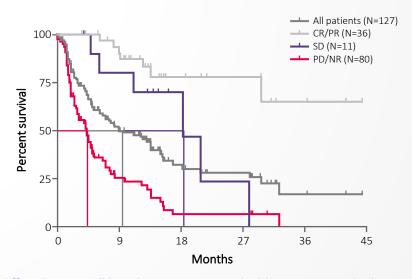
Selinexor

60 mg twice-weekly (Days 1 and 3 of 28-day cycle) until PD or intolerable toxicity

Primary endpoint: ORR

N = 127	Grade 1–2	Grade 3	Grade 4	
Most co	mmon haemato	logical AEs, %		
Thrombocytopenia	16	31	15	
Anaemia	21	21	1	
Neutropenia	6	16	9	
Most common non-haematological AEs, %				
Nausea	52	6	0	
Fatigue	36	11	0	
Decreased appetite	33	4	0	

Efficacy outcomes	N = 127
ORR, %	28
CR, %	12
Median OS, months (95% CI) CR SD PD/NR	9.1 (6.6–15.1) NE (29.7–NE) 18.3 (11.1–28.0) 4.3 (3.0–5.4)

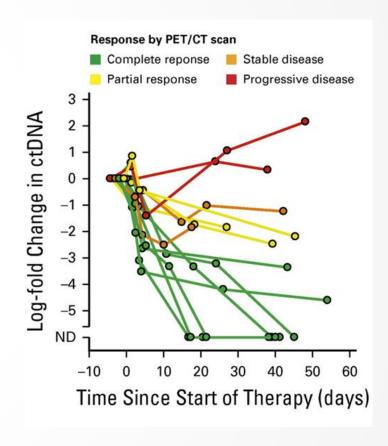


AE, adverse event; ASCT, autologous stem cell transplantation; CR, complete response; CrCl, creatinine clearance; DLBCL, diffuse large B-cell lymphoma; NE, not evaluable; NR, not reached; ORR, overall response rate; PD, progressive disease; R/R relapsed/refractory; SD, stable disease.

Kalakonda N, et al. *Lancet Haematol.* 2020;7:e511-22.

Conclusions

- Outcomes for primary refractory DLBCL are poor in the rituximab era
- Early indicators of failure (ctDNA and PET) with effective interventions
- Results from conventional chemotherapeutic approaches are disappointing
- Cellular therapies may be of clear value in some
- ADC combine high specificity of a mAb with potent cytotoxic
- Ongoing design of new agents... multiple trials assessing combinations
- Much still to be understood regarding sequencing, bridging...



Kurtz DM, et al. J Clin Oncol. 2018;36(28):2845-2853.



