



THE UNIVERSITY OF
CHICAGO
MEDICINE &
BIOLOGICAL
SCIENCES



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SYMPOSIUM**

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chicagolymphoma.com

Disclosure

Jason Westin

I have the following relevant financial relationships to disclose:

Consultant for: **Novartis, BMS, Kite/Gilead, Genentech, Astra Zeneca, Morphosys, Curis, Amgen**

Speaker's Bureau for: NA

Grant/Research support from: **Novartis, BMS, Kite/Gilead, Genentech, Astra Zeneca, Morphosys, Curis, Amgen, 47, Unum**

Stockholder in: NA

Honoraria from: NA

Employee of: NA

I will discuss the following off label use and/or investigational use in my presentation: IoncaT

Non-Immunotherapy Options for R/R DLBCL

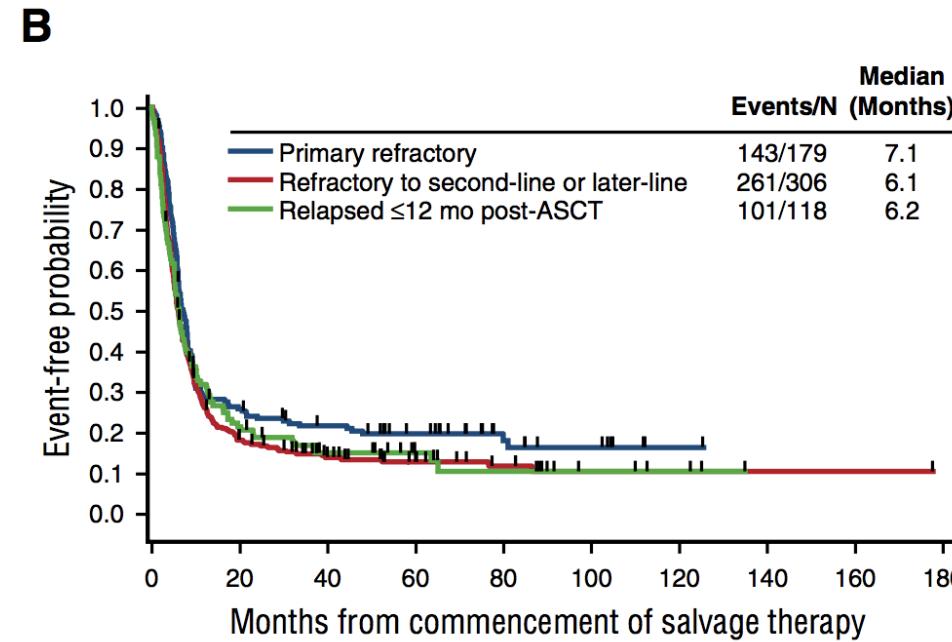
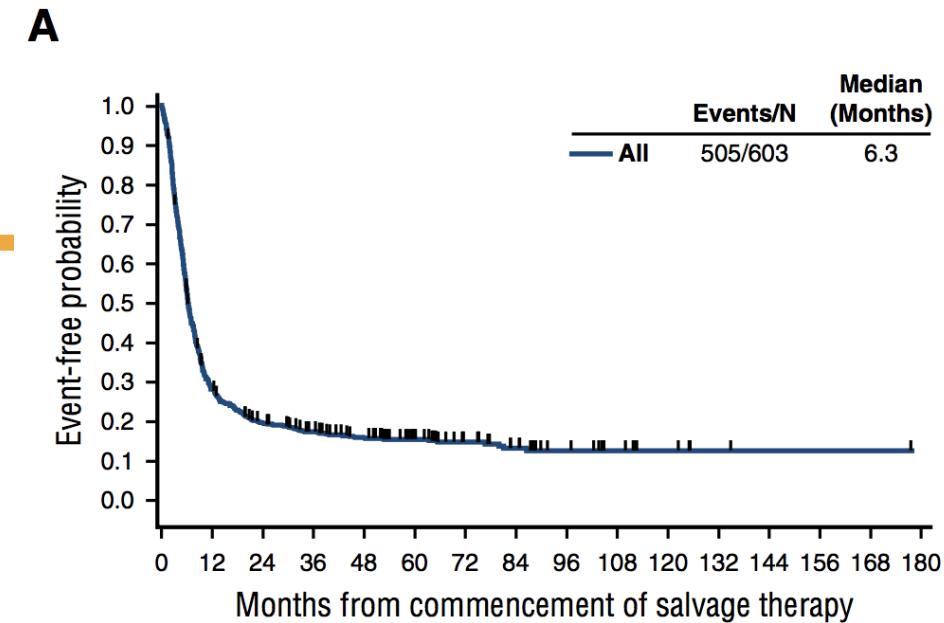
Jason Westin, MD, MS, FACP
Director, Lymphoma Clinical Research
MD Anderson Cancer Center

Outline

- Unmet need
- Antibody-drug conjugate
- Monoclonal Ab
- Small Molecules
- Novel combinations
- Future directions

Unmet Need

- ~30,000 new DLBCL diagnoses/year in US
- 2/3 cured with 1L therapy
- Of 10,000 with R/R DLBCL:
 - Half eligible for AutoSCT = 5000
 - Half of those respond = 2500
 - Half of those have durable response = 1250
- Of 8750 not cured with 2L chemo, ~20% getting CAR T-cell
- ~7000 R/R DLBCL patients each year need new approaches



Unmet Need

- The standard approach for 'non-immunotherapy options' historically have been palliative, not curative
- Chemotherapy regimens often used in a chemotherapy resistant disease



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SUGGESTED TREATMENT REGIMENS^{a,b}
An FDA-approved biosimilar is an appropriate substitute for rituximab.

Second-line and Subsequent Therapy^{d,i,j} (intention to proceed to transplant)

- Preferred regimens (in alphabetical order)
 - DHAP (dexamethasone, cisplatin, cytarabine) ± rituximab
 - DHAX (dexamethasone, cytarabine, oxaliplatin) ± rituximab
 - GDP (gemcitabine, dexamethasone, cisplatin) ± rituximab or (gemcitabine, dexamethasone, carboplatin) ± rituximab
 - ICE (ifosfamide, carboplatin, etoposide) ± rituximab
 - ESHP (etoposide, methylprednisolone, cytarabine, cisplatin) ± rituximab
 - GemOx (gemcitabine, oxaliplatin) ± rituximab
 - MINE (mesna, ifosfamide, mitoxantrone, etoposide) ± rituximab

Second-line and Subsequent Therapy^{d,i,j} (non-candidates for transplant)

- Preferred regimens (in alphabetical order)
 - GemOx ± rituximab
 - Polatuzumab vedotin ± bendamustine ± rituximab (after ≥2 prior therapies)^{k,l}
- Other recommended regimens (in alphabetical order)
 - CEPP (cyclophosphamide, etoposide, prednisone, procarbazine) ± rituximab - PO and IV
 - CEOPI (cyclophosphamide, etoposide, vincristine, prednisone) ± rituximab
 - DA-EPOCH ± rituximab
 - GDP ± rituximab or (gemcitabine, dexamethasone, carboplatin) ± rituximab
 - Gemcitabine, vinorelbine ± rituximab (category 3)
 - Rituximab
 - Tafasitamab^p ± lenalidomide
- Useful in certain circumstances
 - Brentuximab vedotin for CD30+ disease
 - Bendamustine^k ± rituximab (category 2B)
 - Ibrutinib^m (non-GCB DLBCL)
 - Lenalidomide ± rituximab (non-GCB DLBCL)

Third-line and Subsequent Therapy (including patients with disease progression after transplant or CAR T-cell therapy)^q

- Selinexor (only after at least two lines of systemic therapy)^q

^a See references for regimens [BCEL-C 3 of 4](#) and [BCEL-C 4 of 4](#).

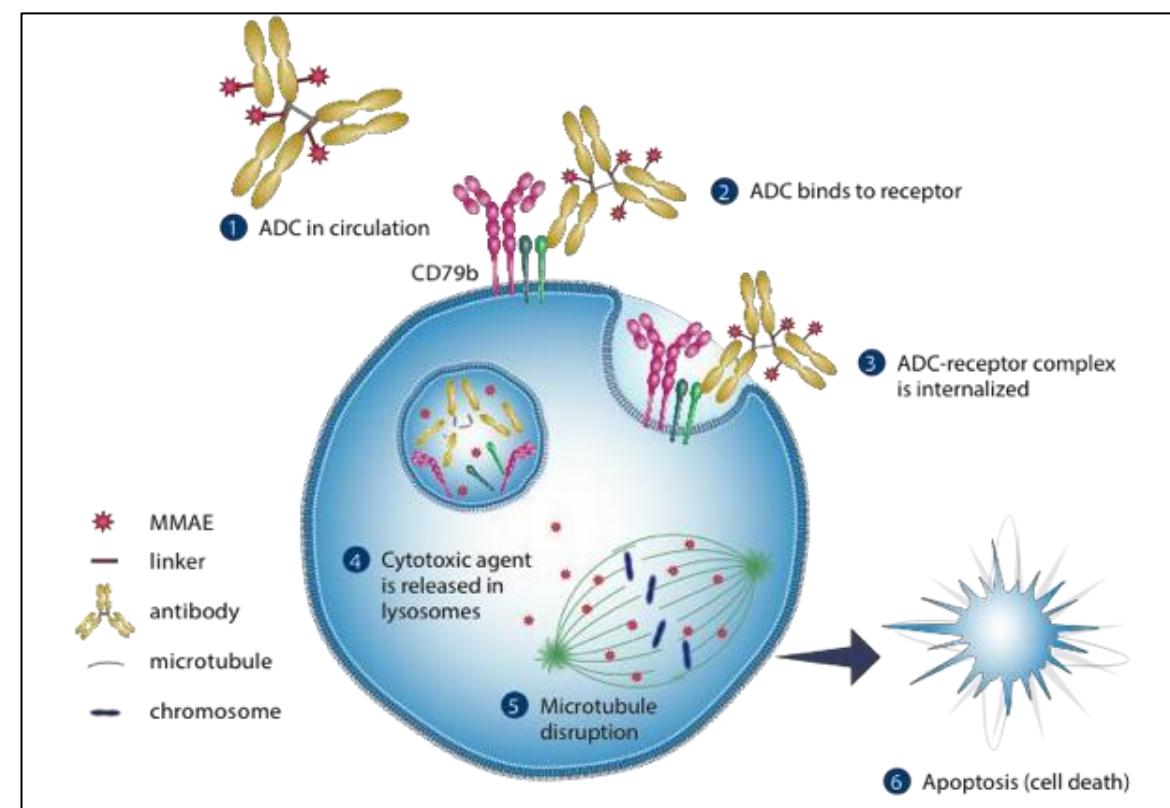
^b Rituximab and hyaluronidase human injection for subcutaneous use may be substituted for rituximab after patients have received the first full dose of rituximab by intravenous infusion. This substitution cannot be made for rituximab used in combination with ibritumomab tiuxetan.

Non-Immunotherapy Non-Chemotherapy Options

- Polatuzumab
- Tafasitamab + Lenalidomide
- Ibrutinib + Lenalidomide
- Selinexor

Antibody Drug Conjugates

- Brentuximab Vedotin (CD30)
- Polatuzumab Vedotin (CD79b)
- Loncastuximab Tesirine (CD19)*

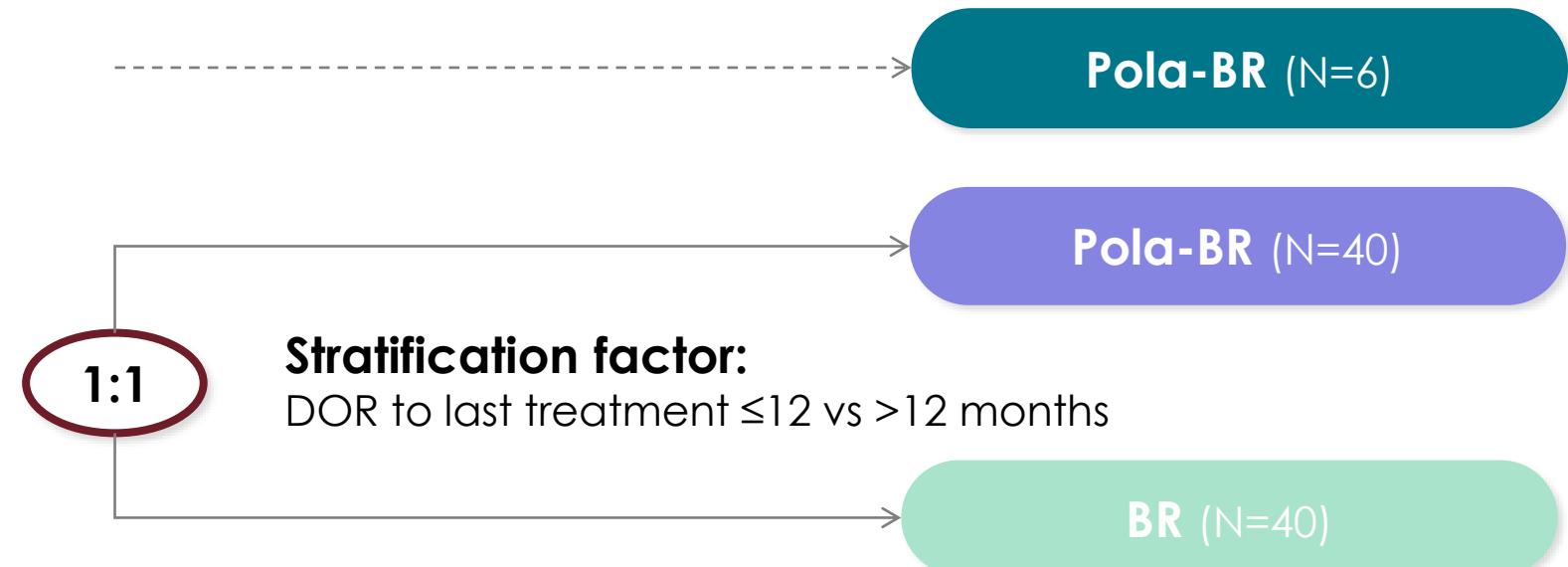


Polatuzumab Vedotin Plus BR in R/R DLBCL: Updated Results of a Phase 1b/2 Randomized Study

Phase 1b
Safety Run-in

Phase 2
Randomization

Treatment administered every 21 days x 6 cycles



Key eligibility criteria

- DLBCL with ≥1 prior therapy
- HSCT ineligible (prior auto-HSCT >100 days from C1D1 allowed)
- Excluded: FL grade 3b, transformed iNHL, CNS lymphoma
- Excluded: prior allogeneic HSCT

- **Polatuzumab vedotin:** 1.8 mg/kg, day 2 in cycle 1 then day 1 in each subsequent cycle
- **Rituximab (R):** 375 mg/m² day 1 in each cycle
- **Bendamustine (B):** 90 mg/m² days 2-3 in cycle 1, then day 1-2 in each subsequent cycle

Polatuzumab-BR: Efficacy

INV-Assessed Updated Efficacy Outcomes ^a	Phase 1b	Phase 2 Randomized	
	Pola-BR (N=6)	BR (N=40)	Pola-BR (N=40)
Median DOR, mo^{b,c} (95% CI)	44.6 (NE, NE)	4.1 (2.6, 12.7)	12.7 (5.8, 27.9)
HR (95% CI)	-	0.42 (0.19, 0.91); <i>P</i> =0.0245	
Median PFS, mo (95% CI)	24.3 (1.8, 46.7)	2.0 (1.5, 3.7)	7.5 (4.9, 17.0)
HR (95% CI)	-	0.33 (0.2, 0.56); <i>P</i> <0.0001	
Median OS, mo (95% CI)	NE (5.6, NE)	4.7 (3.7, 8.3)	12.4 (9.0, 32.0)
HR (95% CI)	-	0.41 (0.24, 0.71); <i>P</i> =0.0011	

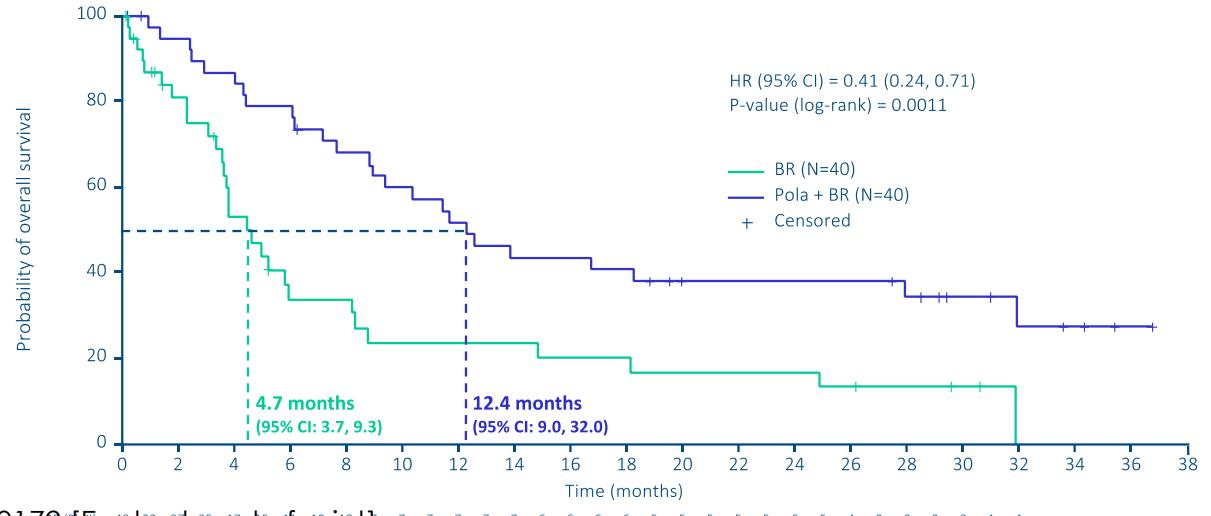
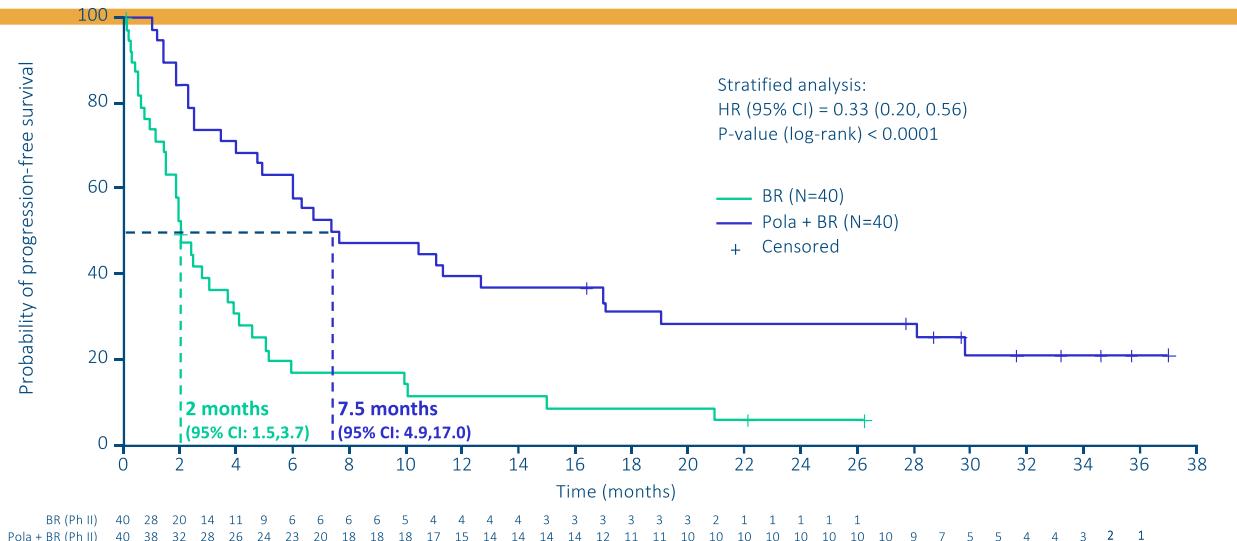
NE: Not estimable.

^aHR and p-values based on stratified analysis.

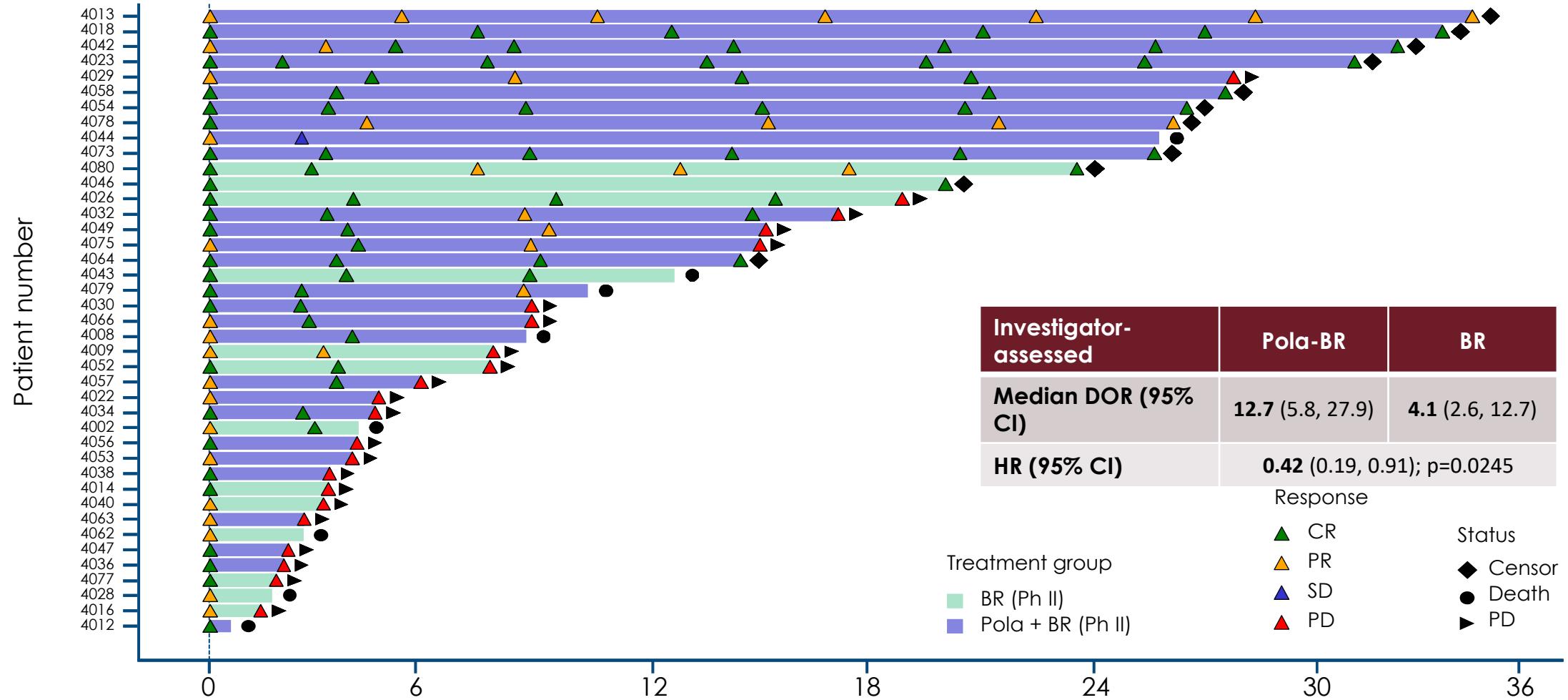
^bAll responding patients: pola-BR n=28; BR n=13.

^cMedian DOR (95% CI) by INV after censoring for consolidative therapy: pola-BR 10.3 months (5.8, NE); BR: 3.3 months (2.6, 18.9).

Sehn L, et al. ASH 2019.



Polatuzumab-BR: Phase 2 Randomized DOR (INV-Assessed)



Polatuzumab + BR: Phase 2 Trial Results

Response Rate and Duration of Response

End of Treatment Response by IRC	Pola + BR (N=40)	BR (N=40)	Hazard Ratio
ORR	45.0%	17.5%	-
CR	40.0%	17.5%	-
PR	5.0%	0%	-
mDoR, mo (IRC) (95% CI)	12.6 (7.2, NE)	7.7 (4.0, 18.9)	0.47 (0.19, 1.14) p=not significant

Safety Results

Adverse Events	Pola + BR (n=39)	BR (n=39)
Neutropenia (Grade 3-4)	46.2%	33.3%
Thrombocytopenia (Grades 3-4)	41.0%	23.1%
Peripheral neuropathy	43.6%	7.7%
Diarrhea	38.5%	28.2%

IRC, independent review committee; mDoR, median duration of response; NE, not evaluable.

Polatuzumab works – but with Bendamustine?

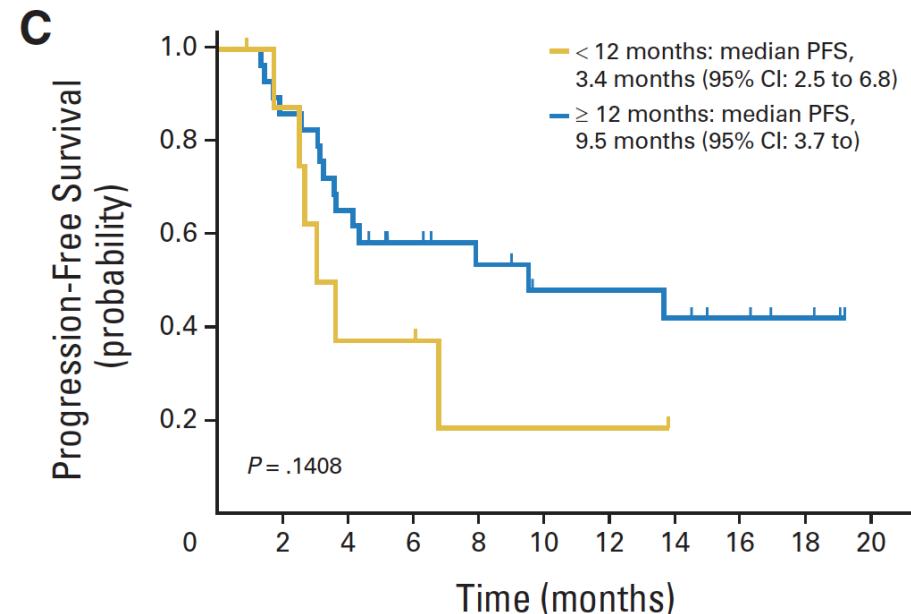
Multicenter Phase II Study of Bendamustine Plus Rituximab in Patients With Relapsed or Refractory Diffuse Large B-Cell Lymphoma

Ken Ohmachi, Nozomi Niitsu, Toshiki Uchida, Seok Jin Kim, Kiyoshi Ando, Naoki Takahashi, Naoto Takahashi, Naokuni Uike, Hyeon Seok Eom, Yee Soo Chae, Takashi Terauchi, Ukihide Tateishi, Mitsuaki Tatsumi, Won Seog Kim, Kensei Tobinai, Cheolwon Suh, and Michinori Ogura

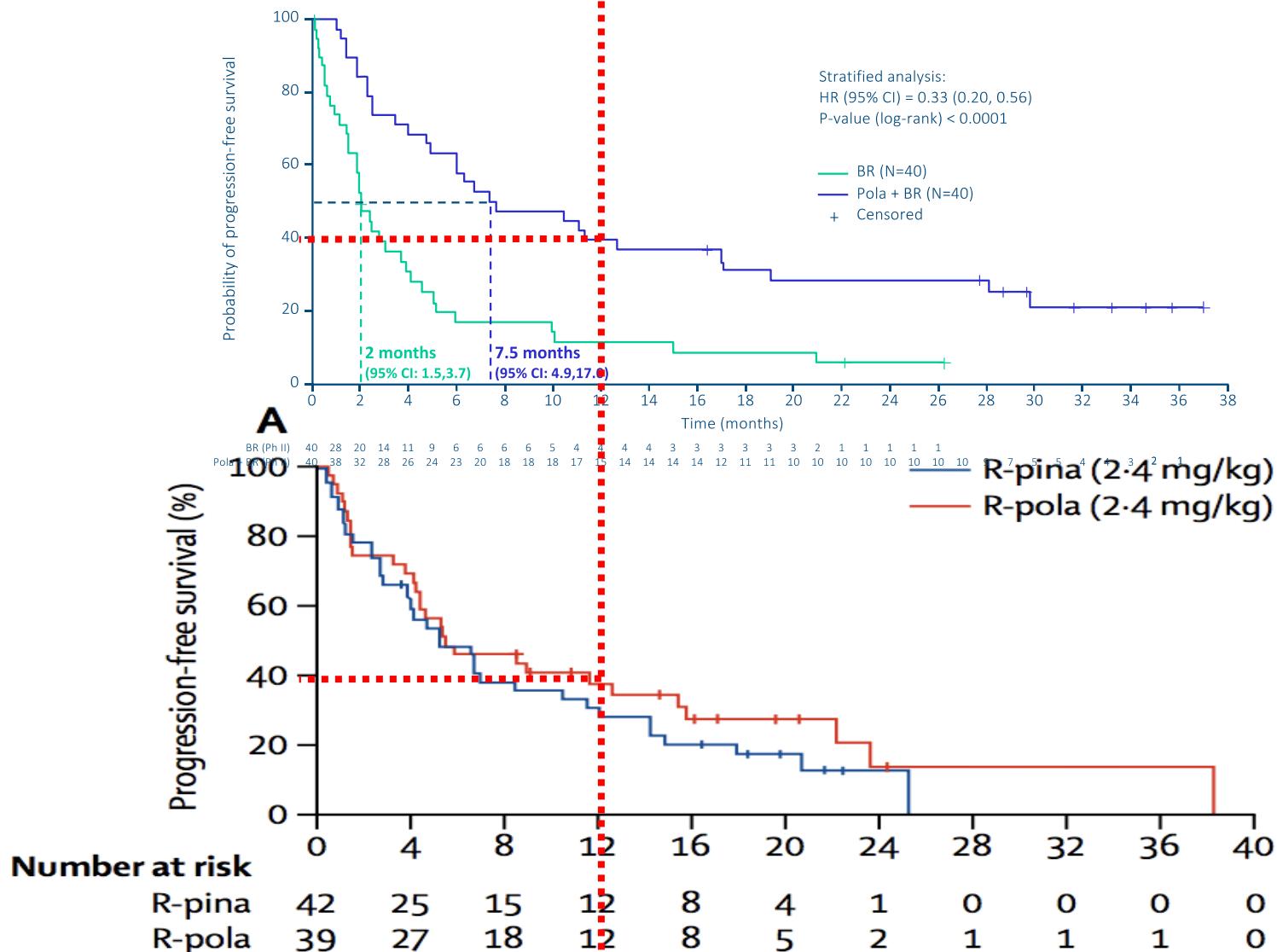
Table 3. Treatment Response to Bendamustine Plus Rituximab

Variables	No.	Tumor Response					ORR			CR Rate					
		CR No.	CR %	PR No.	PR %	SD No.	SD %	PD No.	PD %	NE No.	NE %	%	95% CI	%	95% CI
No. of patients	59	22	37.3	15	25.4	10	16.9	10	16.9	2	3.4	62.7	49.1 to 75.0	37.3	25.0 to 50.9
Age, years ($P = 1.000$ with respect to the ORR)															
≥ 65	37	14	37.8	9	24.3	6	16.2	7	18.9	1	2.7	62.2	44.8 to 77.5	37.8	22.5 to 55.2
< 65	22	8	36.4	6	27.3	4	18.2	3	13.6	1	4.5	63.6	40.7 to 82.8	36.4	17.2 to 59.3
No. of prior regimens ($P = .027$, 1 v 2, 1 v 3, 2 v 3 with respect to the ORR)															
1	38	16	42.1	12	31.6	3	7.9	5	13.2	2	5.3	73.7	56.9 to 86.6	42.1	26.3 to 59.2
2	13	4	30.8	3	23.1	4	30.8	2	15.4	0	0.0	53.8	25.1 to 80.8	30.8	9.1 to 61.4
3	8	2	25.0	0	0.0	3	37.5	3	37.5	0	0.0	25.0	3.2 to 65.1	25.0	3.2 to 65.1
Relapse after ASCT	8	3	37.5	2	25.0	2	25.0	1	12.5	0	0.0	62.5	24.5 to 91.5	37.5	8.5 to 75.5
Elapsed time since prior treatment, months ($P = .036$ with respect to the ORR)															
< 12	9	0	0.0	4	44.4	1	11.1	2	22.2	2	22.2	44.4	13.7 to 78.8	0	0 to 33.6
≥ 12	29	16	55.2	8	27.6	2	6.9	3	10.3	0	0.0	82.8	64.2 to 94.2	55.2	35.7 to 73.6
Lactate dehydrogenase ($P = .060$ with respect to the ORR)															
$< \text{ULN}$	26	13	50.0	7	26.9	4	15.4	2	7.7	0	0.0	76.9	56.4 to 91.0	50.0	29.9 to 70.1
$\geq \text{ULN}$	33	9	27.3	8	24.2	6	18.2	8	24.2	2	6.1	51.5	33.5 to 69.2	27.3	13.3 to 45.5

Abbreviations: ASCT, autologous stem-cell transplantation; CR, complete response; NE, not evaluated; ORR, overall response rate; PD, progressive disease; PR, partial response; SD, stable disease; ULN, upper limit of normal.

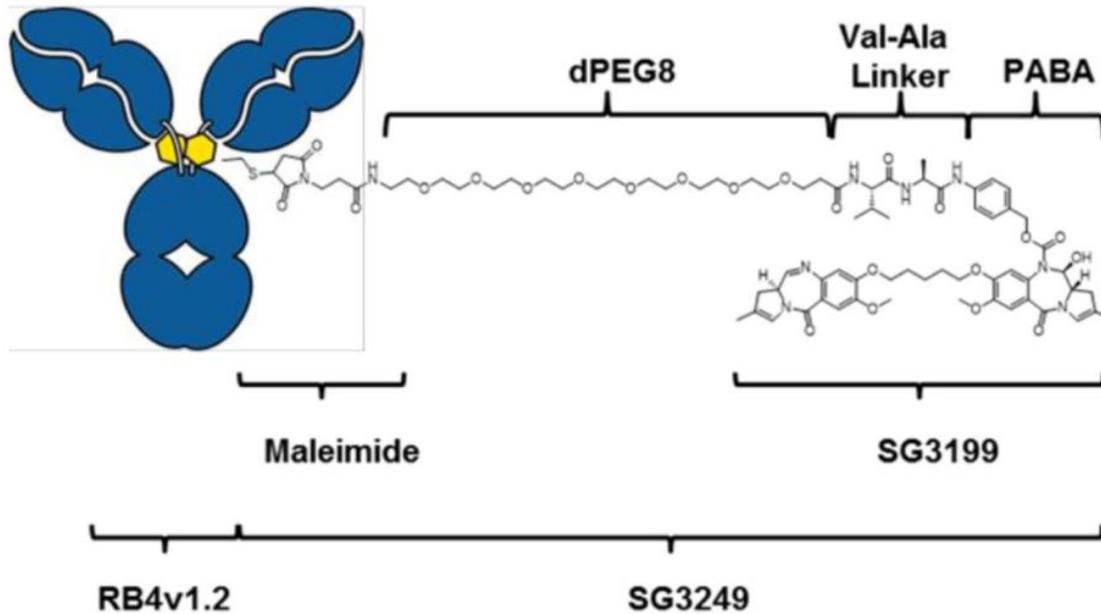


What if the trial was BR vs PBR vs PR?



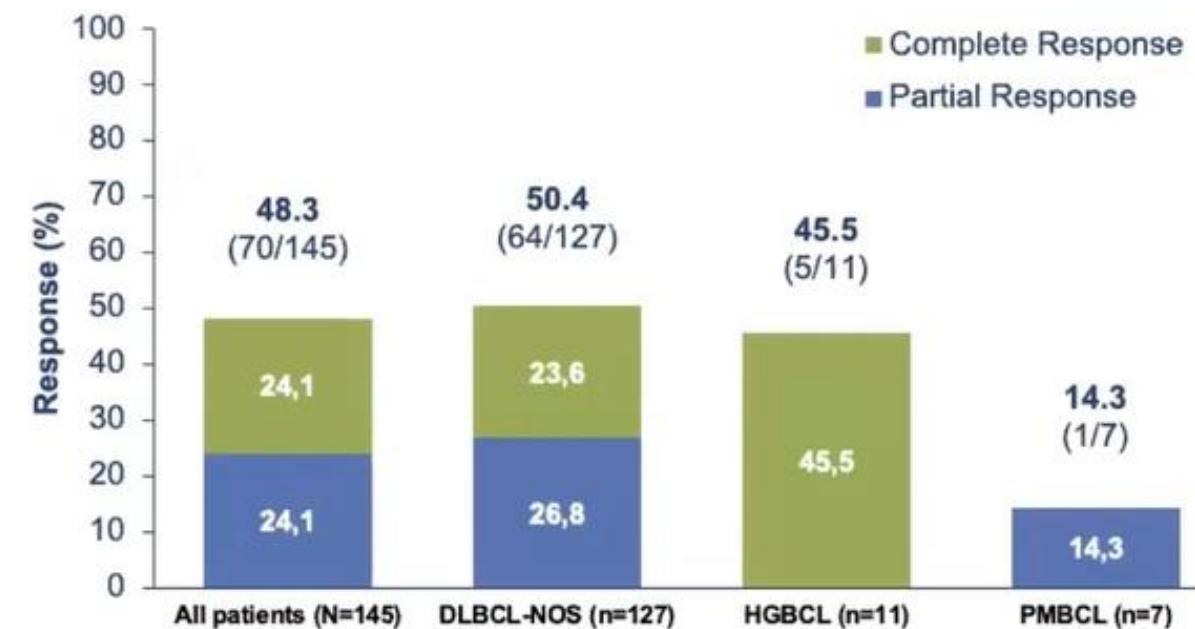
Loncastuximab Tesirine (ADCT-402)

Anti-CD19 Ab

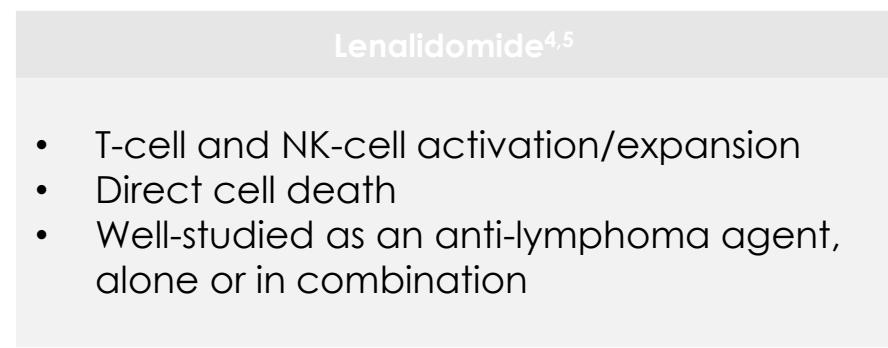
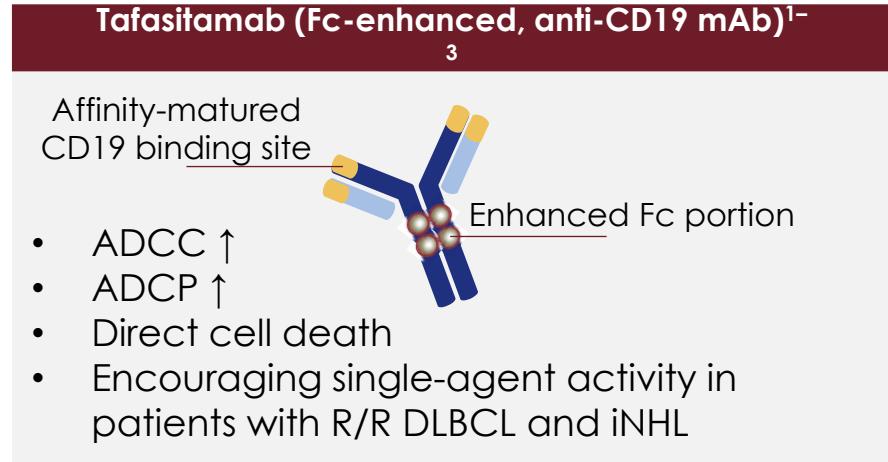
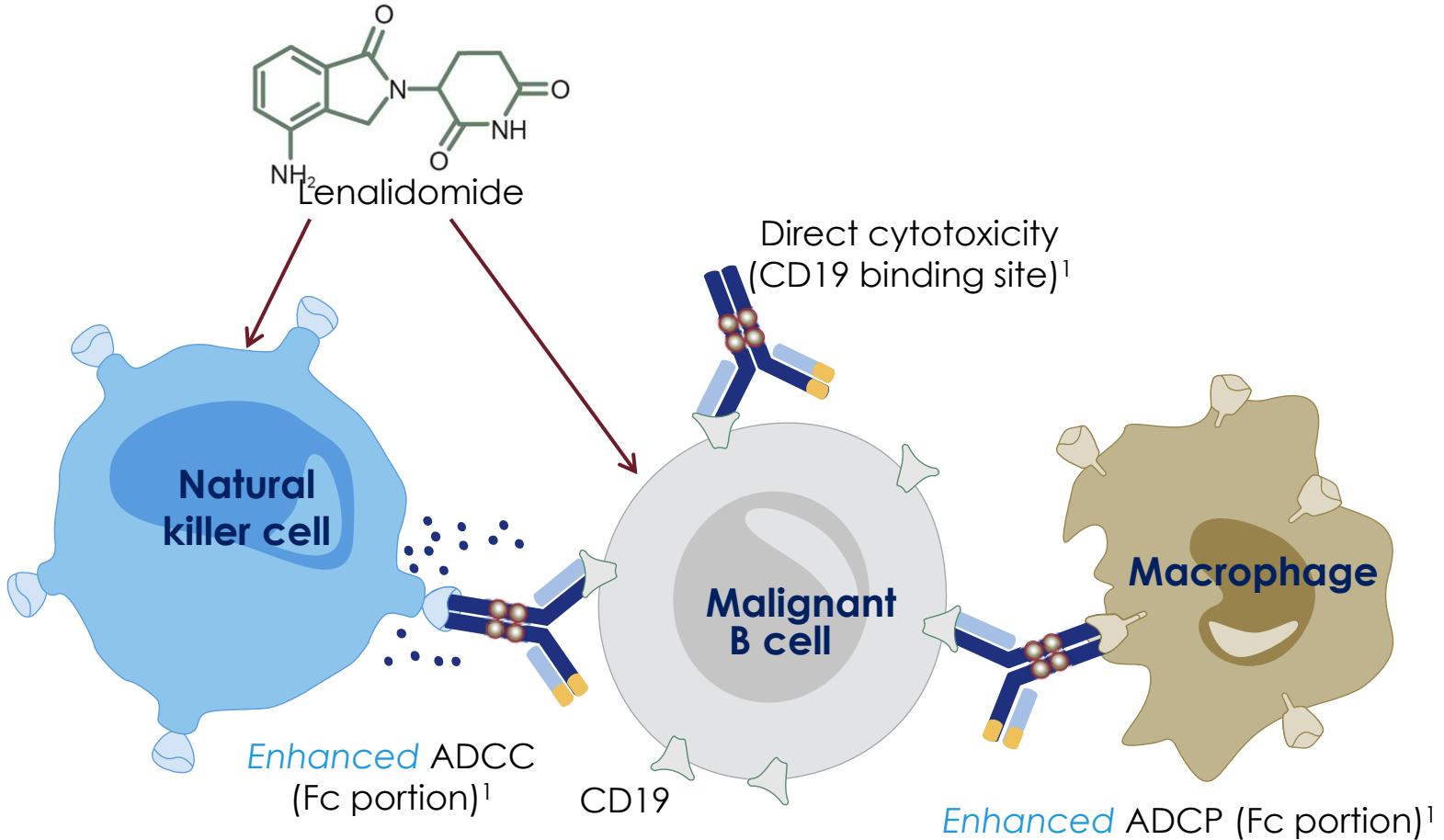


Loncastuximab tesirine comprises a humanized anti-CD19 Ab stochastically conjugated to a potent PBD dimer toxin¹

Loncastuximab tesirine binds to CD19 antigen on the tumor cell surface



Tafasitamab (MOR208) and Lenalidomide (LEN)

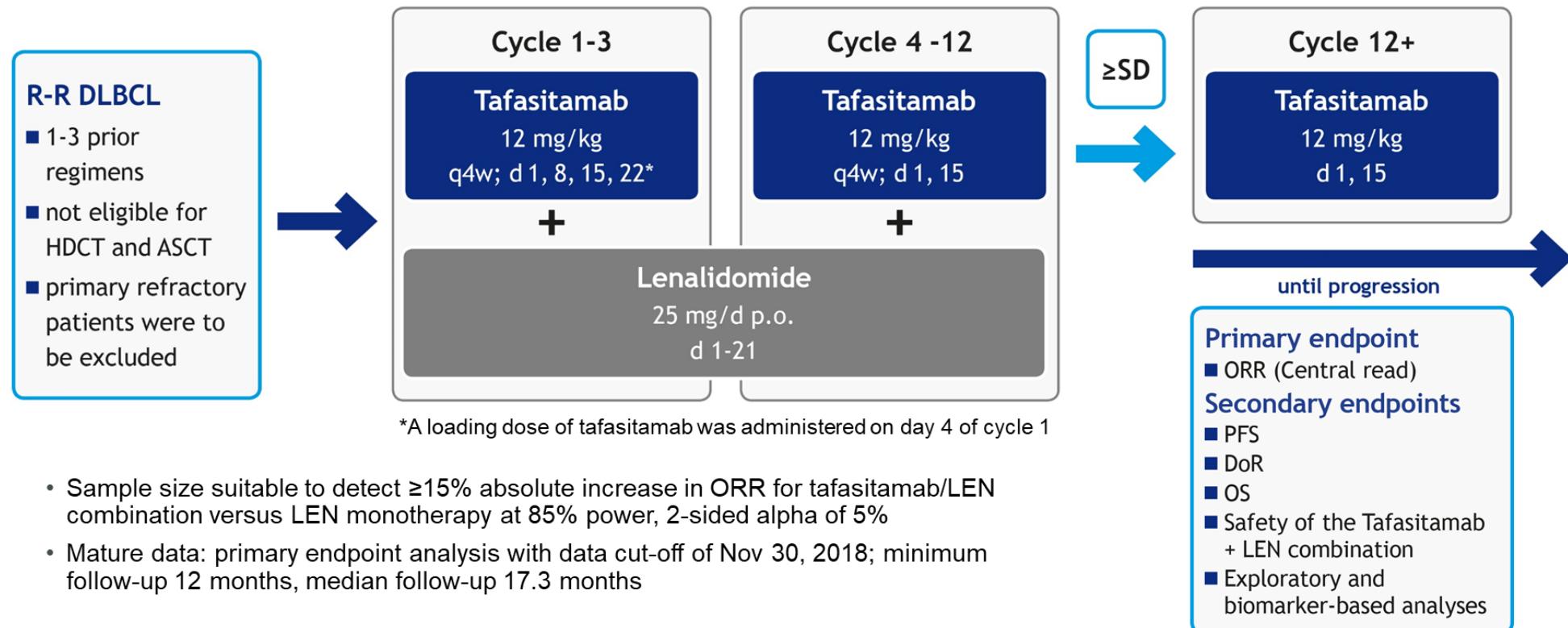


ADCC, antibody-dependent cellular cytotoxicity; ADCP, antibody-dependent cellular phagocytosis; iNHL, indolent non-Hodgkin's lymphoma; NK-cell, natural killer cell.

1. Horton HM et al. *Cancer Res* 2008;68(19):8049-57; 2. Woyach JA et al. *Blood* 2014;124(24):3553-60; 3. Jurczak W et al. *Ann Oncol* 2018;29(5):1266-72; 4. Witzig TE et al. *Ann Oncol* 2015; 26(8):1667-77; 5. Czuczmar MS et al. *Clin Cancer Res* 2017;23(15):4127-37.

L-MIND Study Design

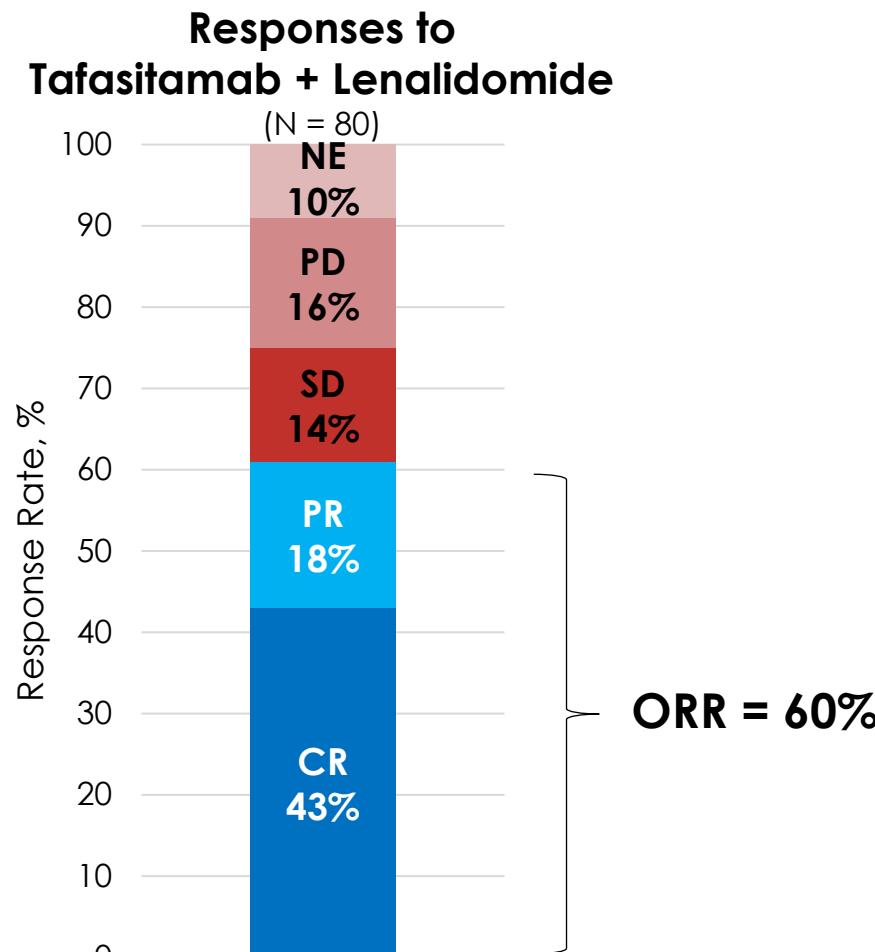
Phase 2, single-arm, open-label, multicenter study (NCT02399085)



L-MIND: Baseline Characteristics

Characteristic	Specification	N = 81
Age, years	Median	72 (62-76)
Sex, n (%)	Male	44 (54%)
Ann Arbor stage at screening, n (%)	III or IV	61 (75%)
IPI score at screening, n (%)	0-2 (low and low-intermediate risk) 3-5 (intermediate-high and high risk)	40 (49%) 41 (51%)
Lactate dehydrogenase concentrations at screening, n (%)	Elevated Within reference range	45 (56%) 36 (44%)
Previous lines of systemic therapy , n (%)	Median (range) 1 2 >3	2 (1-4) 40 (50%) 35 (43%) 6 (7%)
Primary refractory, n (%)	Yes	15 (19%)
Refractory to most recent previous therapy, n (%)	Yes	36 (44%)
Previous ASCT, n (%)	Yes	9 (11%)
Cell of origin by immunohistochemistry, n (%)	Germinal center B cell Non-germinal center B cell Unknown	38 (47%) 21 (26%) 22 (27%)

L-MIND: Objective Response Rate (Primary Endpoint)

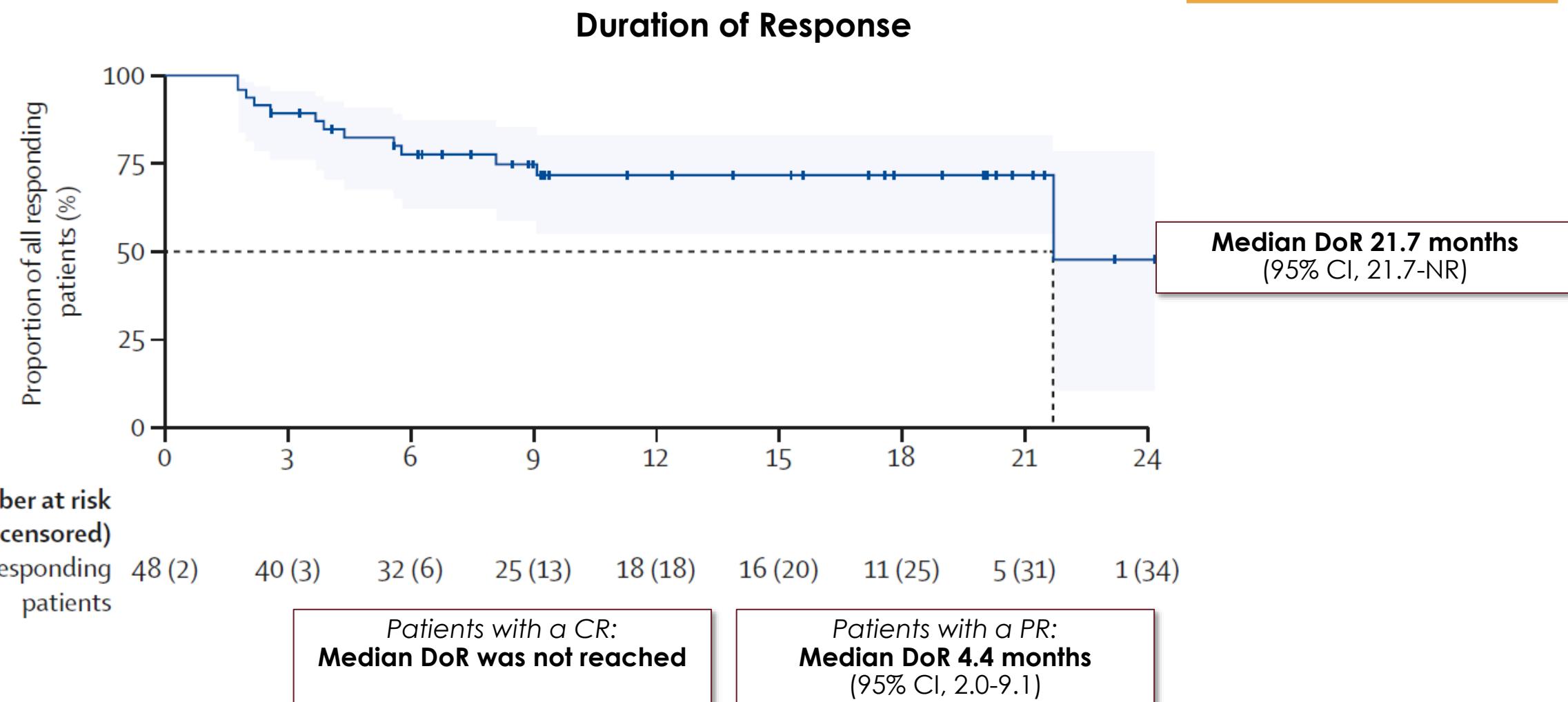


IRC-assessed response ^a	Patients treated with tafasitamab plus lenalidomide (N = 80) n (%; 95% CI)
Best objective response^a	
Complete response	34 (43%; 32-54)
Partial response	14 (18%; 10-28)
Stable disease	11 (14%; 7-23)
Progressive disease	13 (16%; 9-26)
Not evaluable	8 (10%; 4-19)
PET-confirmed complete response	30/34 (88%; 73-97)
Objective response (CR + PR)	48 (60%; 48-71)
Disease control (CR + PR + SD)	59 (74%; 63-83)

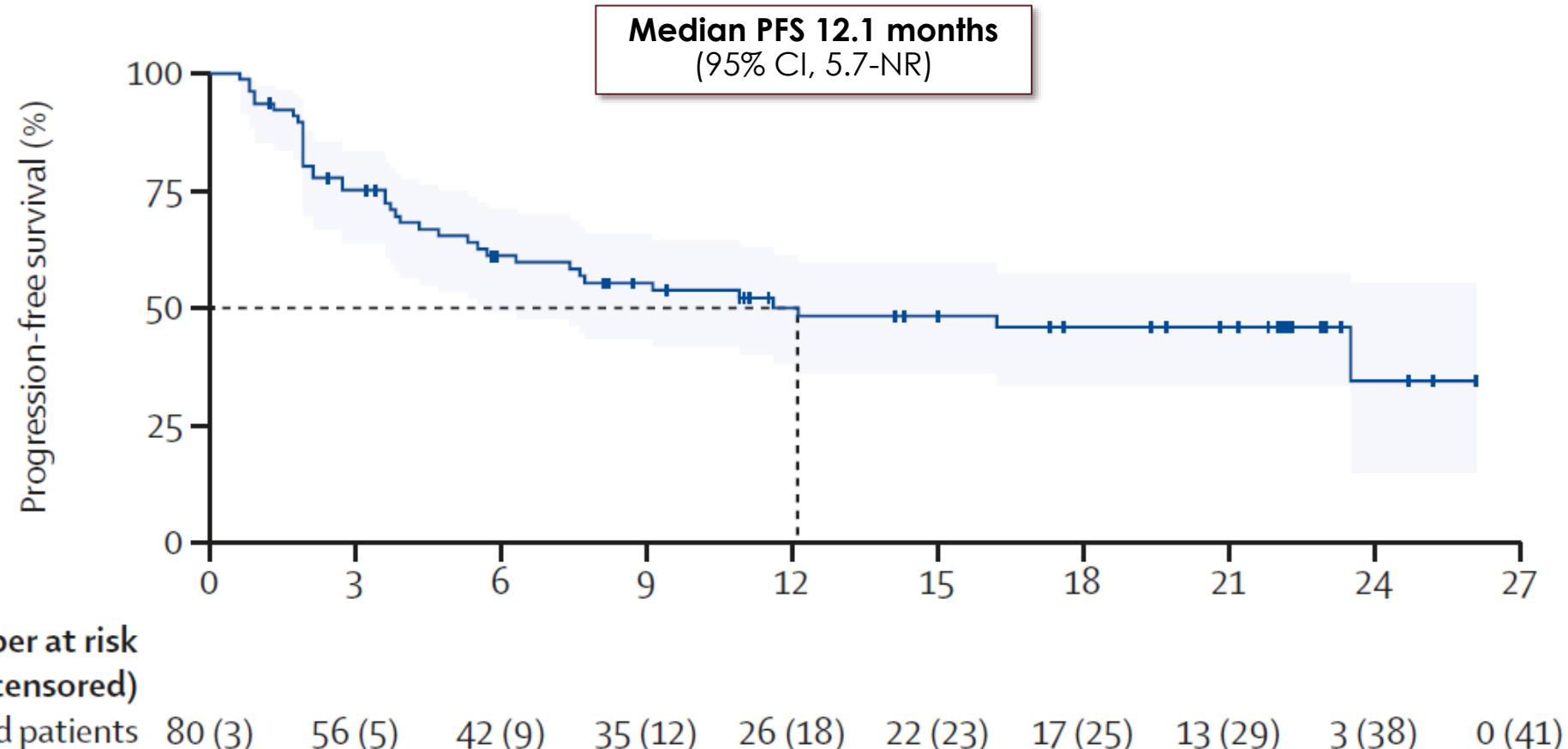
^a Best objective response according to independent radiology committee or clinical review committee.

PET, positron emission tomography.

L-MIND: Duration of Response



L-MIND: Progression-Free Survival^a



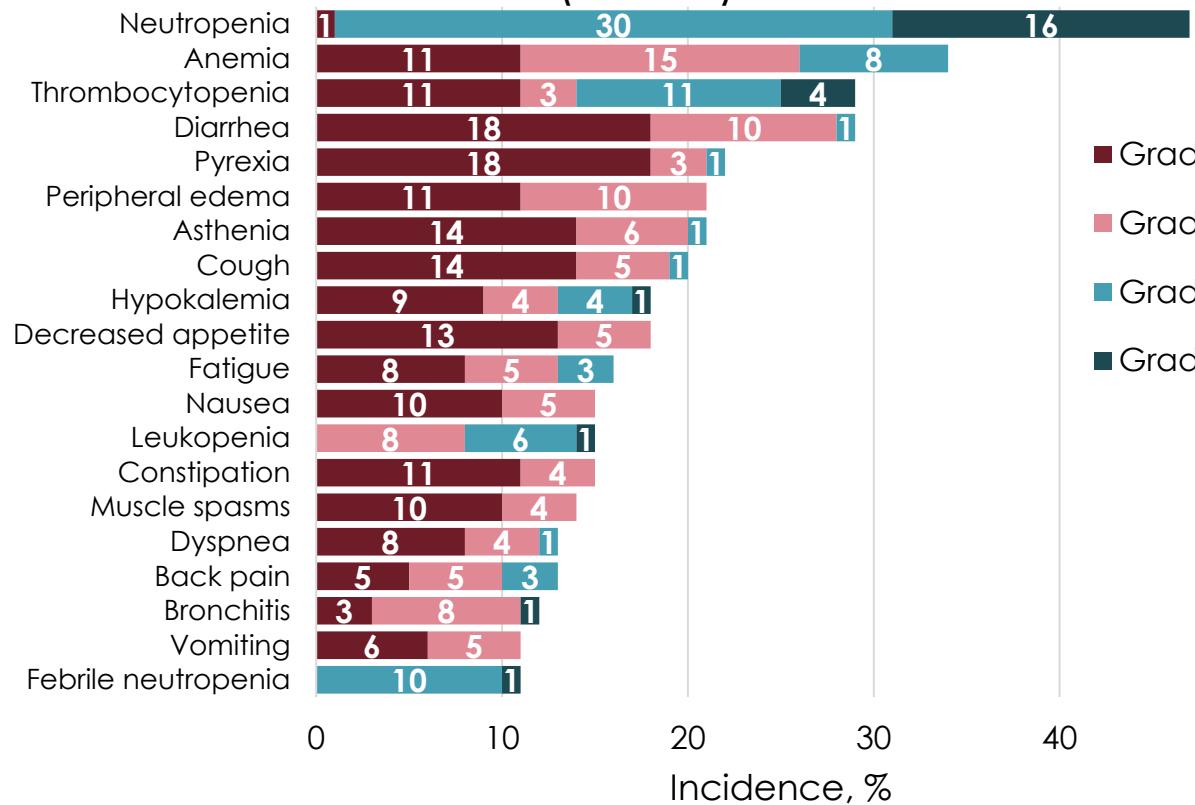
^a Median follow-up of 17.3 months.

L-MIND: Safety by Treatment Phase

AEs During Cycles 1-12

Before discontinuation of lenalidomide

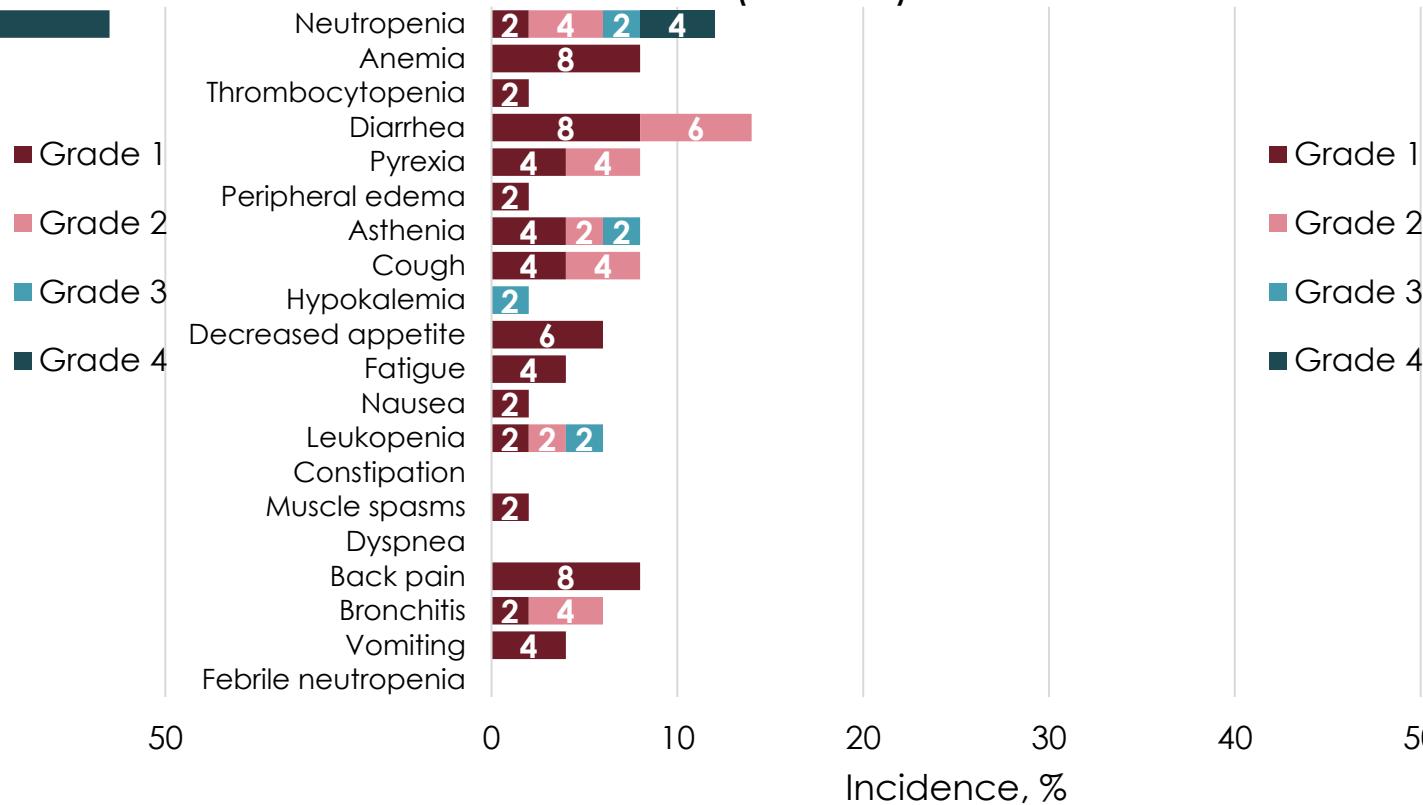
(N = 80)



AEs During Tafasitamab Monotherapy

After discontinuation of lenalidomide

(N = 51)



TEAEs, treatment-emergent adverse events.

Tafasitamab works, but with Lenalidomide?

Response Rates Based on IRAC Assessment (IWRC 1999)^a
 (mITT Population)

	Overall		Immunohistochemistry		
	Len	IC	Len	GCB	Len
n	n = 51	n	n = 23	n	n = 28
ORR, n (%)	14 (27.5)	6 (11.8)	6 (26.1)	3 (12.0)	8 (28.6)
[95% CI] ^b	[15.9-41.7]	[4.4-23.9]	[10.2-48.4]	[2.5-31.2]	[13.2-44.8]
P value ^c	0.079		0.279		
PFS, weeks	13.6	7.9	10.1	9.0	15.1
HR (95% CI)	0.64 (0.41-0.99)		0.82 (0.43-1.57)		0.55 (0.34-0.76)
P value	0.041		0.550		
OS, weeks	31.0	24.6	30.0	24.9	32.1
HR (95% CI)	0.91 (0.59-1.41)		1.23 (0.65-2.34)		0.95 (0.61-1.29)
P value	0.673		0.526		

^amITT population; defined as all randomized patients who had confirmed DLBCL and received at least one dose of study treatment.

^bExact CI based on binomial distribution.

^cP value derived from the Fisher exact test.

	All patients ^a (n = 45) n (%)	DLBCL (n = 32) n (%)
ORR, % (n)	15 (33%)	9 (28%)
CR	10 (22%)	7 (22%)
PR	5 (11%)	2 (6%)
SD	11 (24%)	9 (28%)
PD	15 (33%)	12 (37%)
Unevaluable	4 (9%)	2 (6%)

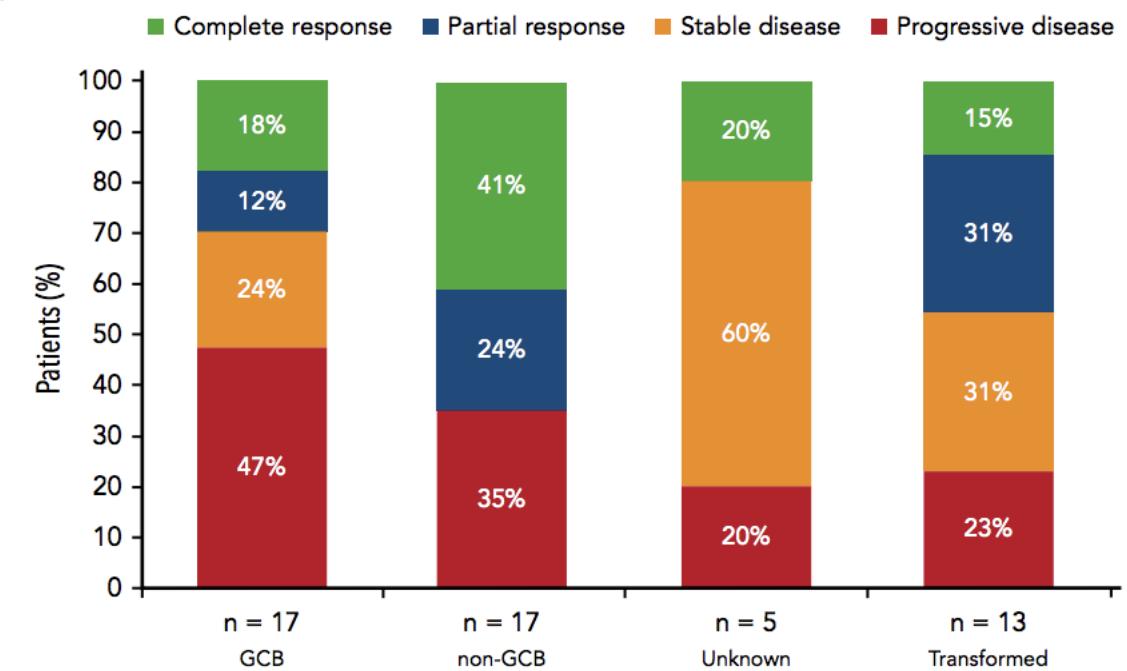
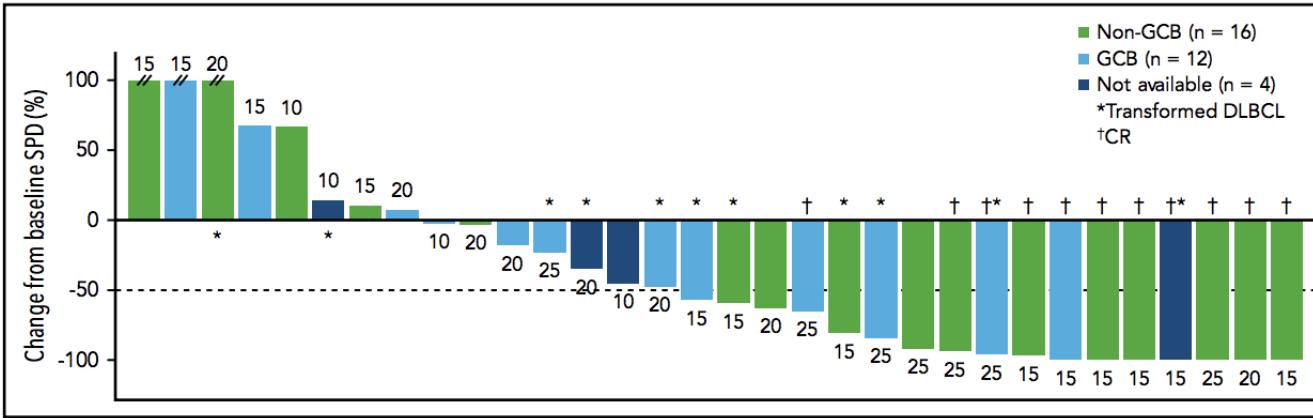
ABC, activated B-cell; IC, investigator's choice; IRAC, independent response assessment committee; IWRC, international workshop response criteria; mITT, modified intent-to-treat.

Lenalidomide + Ibrutinib + Rituximab in R/R DLBCL

CLINICAL TRIALS AND OBSERVATIONS

Ibrutinib plus lenalidomide and rituximab has promising activity in relapsed/refractory non–germinal center B-cell–like DLBCL

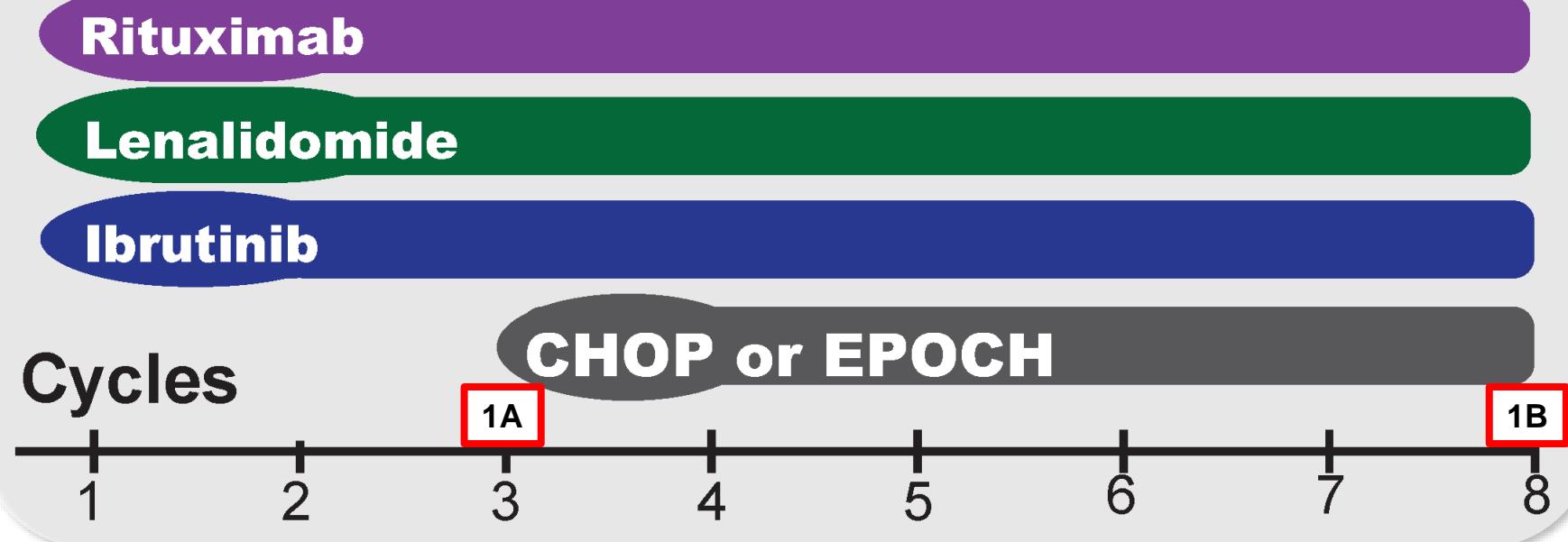
Andre Goy,¹ Radhakrishnan Ramchandren,² Nilanjan Ghosh,³ Javier Munoz,⁴ David S. Morgan,⁵ Nam H. Dang,⁶ Mark Knapp,⁷ Maria Delioukina,⁸ Edwin Kingsley,⁹ Jerry Ping,¹⁰ Darrin M. Beaupre,¹⁰ Jutta K. Neuenburg,¹⁰ and Jia Ruan¹¹



Lenalidomide + Ibrutinib + Rituximab in 1L DLBCL

- Phase II, single arm, single center, investigator-initiated trial

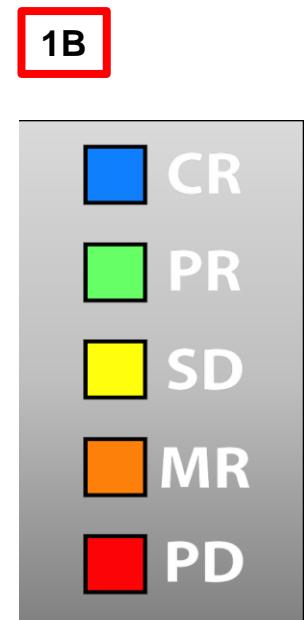
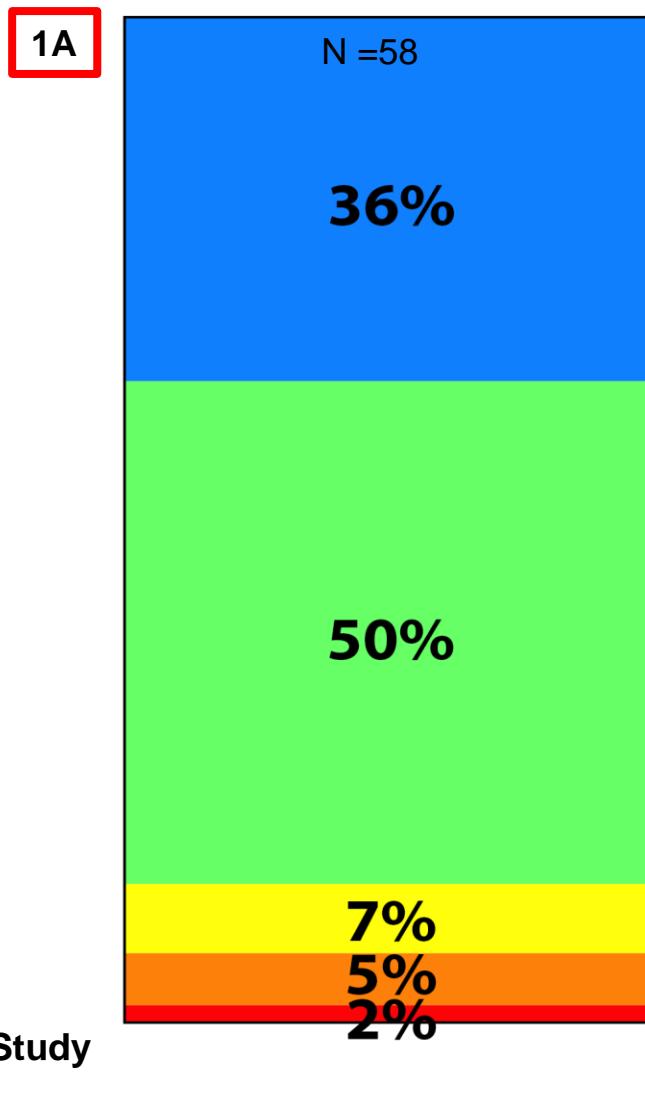
Smart Start Schema



- Primary Objectives
 - 1A: To determine the ORR at the end of 2 cycles of RLI alone
 - 1B: To determine the CR rate at the end of RLI x 2 + RLI combined with chemotherapy x 6

Overall Response

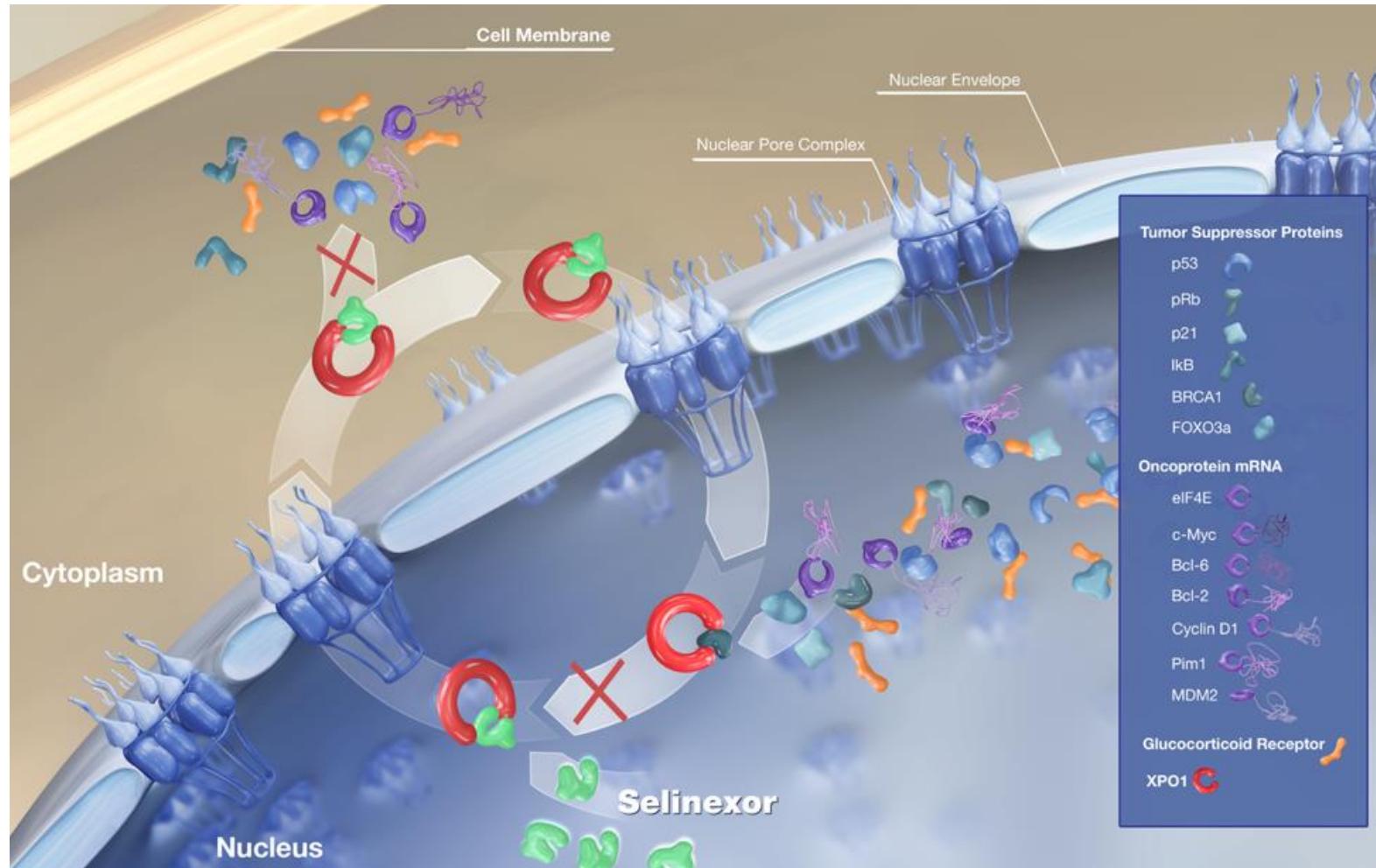
RLI 2 Cycles



ITT ORR 98%
1 scan and off therapy
CR 92.3% (n=52)
PR 5.8% (n=3)
PD 1.9% (n=1)

1 Death in PR

Selinexor

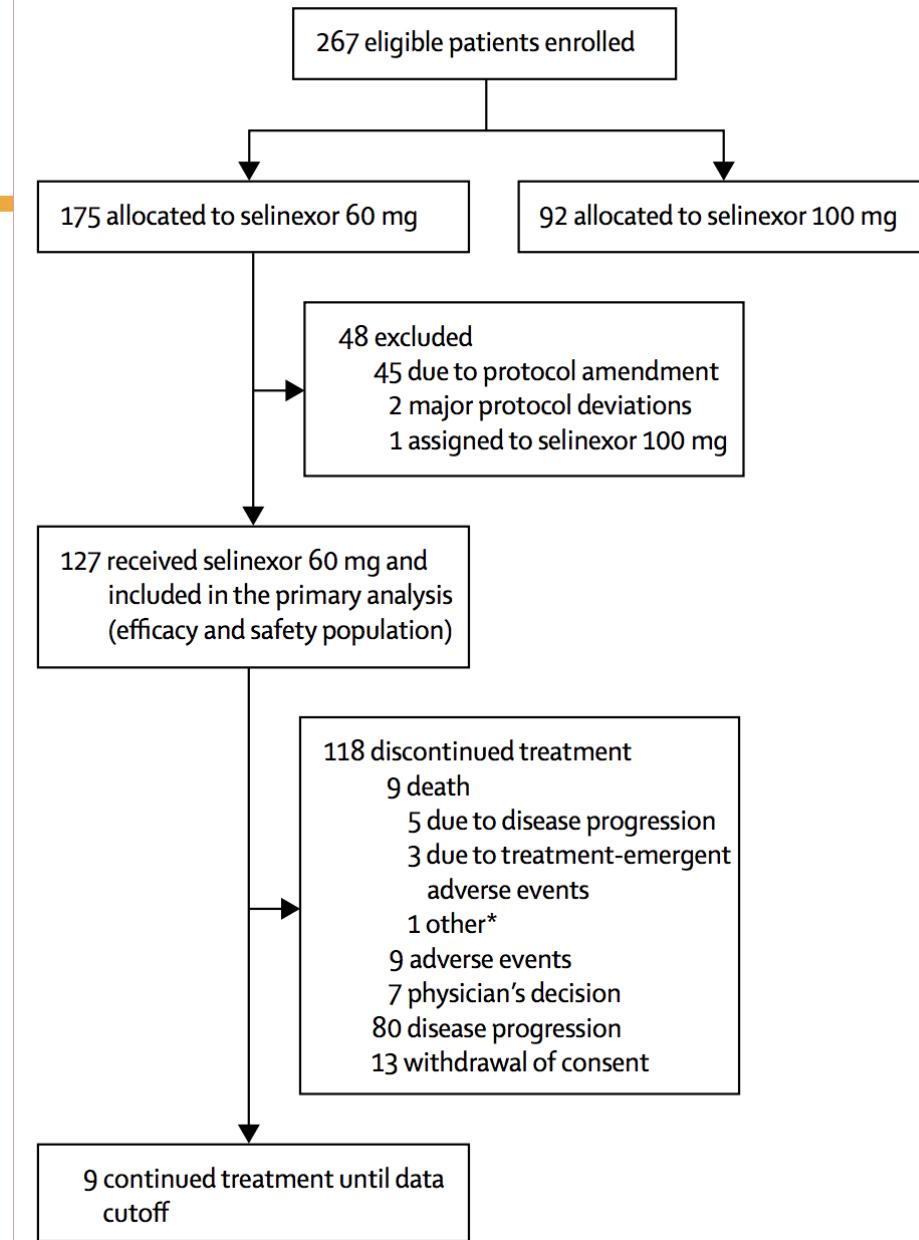


Selinexor

Selinexor in patients with relapsed or refractory diffuse large B-cell lymphoma (SADAL): a single-arm, multinational, multicentre, open-label, phase 2 trial

Nagesh Kalakonda*, Marie Maerevoet*, Federica Cavallo, George Follows, Andre Goy, Joost S P Vermaat, Olivier Casasnovas, Nada Hamad, Josée M Zijlstra, Sameer Bakhshi, Reda Bouabdallah, Sylvain Choquet, Ronit Gurion, Brian Hill, Ulrich Jaeger, Juan Manuel Sancho, Michael Schuster, Catherine Thieblemont, Fátima De la Cruz, Miklos Egyed, Sourav Mishra, Fritz Offner, Theodoros P Vassilakopoulos, Krzysztof Warzocha, Daniel McCarthy, Xiwen Ma, Kelly Corona, Jean-Richard Saint-Martin, Hua Chang, Yosef Landesman, Anita Joshi, Hongwei Wang, Jatin Shah, Sharon Shacham, Michael Kauffman, Eric Van Den Neste, Miguel A Canales

- Patients whose most recent systemic anti-DLBCL therapy induced a partial response or complete response had to have at 60 days or more elapsed since the end of that therapy.
- All other patients, had to have at least 14 weeks (98 days) elapsed since the end of their most recent systemic anti-DLBCL therapy



Selinexor Against Diffuse Aggressive Lymphoma (SADAL): Open-Label, Phase 2 Study Design

Key eligibility criteria

- Patients with de novo or t-DLBCL
- R/R DLBCL
- Not eligible for ASCT or post ASCT
- 2-5 prior treatment regimens
- Platelet count >75,000/mm³
- CrCl <30 mL/min – excluded

Oral Selinexor

60 mg BIW

Days 1, 3 – 28 day cycle

**Treatment until PD or
intolerable toxicity**

Response assessed every 8
weeks per Cheson 2014

**mITT Population for all
Analysis and Safety
(≥Protocol Version 6 patients)**

Objectives

- **Primary Endpoint:** Overall response rate (ORR): Independent Central Radiological Review (ICRR); Lugano Classification (2014)
- **Secondary Endpoints:** Duration of response (DOR), Overall survival (OS), Safety

Modified Intent to Treat (mITT) Population: All patients who were randomized to the **60 mg Arm**

SADAL: Patient and Disease Characteristics

Patient Characteristics, n (%)		(N=127)
Median age, years (range)		67 (35-87)
Age distribution	<70 years	70 (55)
	≥70 years	57 (45)
Sex	Female	52 (41)
	Male	75 (59)
ECOG PS	0	55 (43)
	1	58 (46)
	2	13 (10)
	3	1 (0.8)
CrCl, mL/min	<30	2 (1.6)
	30 - <60	32 (25)
	≥60	93 (73)
LDH > 2xULN	Yes	16 (13)
	No	108 (85)
	Missing	3 (2.4)

Disease Characteristics, n (%)		(N=127)
Median time since last disease progression event, weeks (range)		7.9 (1.9-406.3)
Disease type	De novo DLBCL	94 (74)
	Transformed DLBCL	31 (24)
	Missing	2 (1.6)
DLBCL histology	GCB	59 (47)
	Non-GCB	63 (50)
	Not-classified	5 (3.9)
Double or triple expressor		26 (21)
Prior regimens	Median (range)	2 (2-5)
	2	75 (59)
	≥3	52 (41)
Previous autologous stem-cell transplant		38 (30)
Refractory to last prior therapy ^a		91 (72)
Progressed <1 year of first DLBCL therapy ^b		66 (52)
R/R <1 year post last SCT		21 (17)

^aDefined as best response of <PR, or progressive disease within 6 months (if not ASCT) or 12 months if ASCT from the most recent systemic treatment regimen.

^bProgressed during or within 1 year of the end of their first systemic treatment for DLBCL.

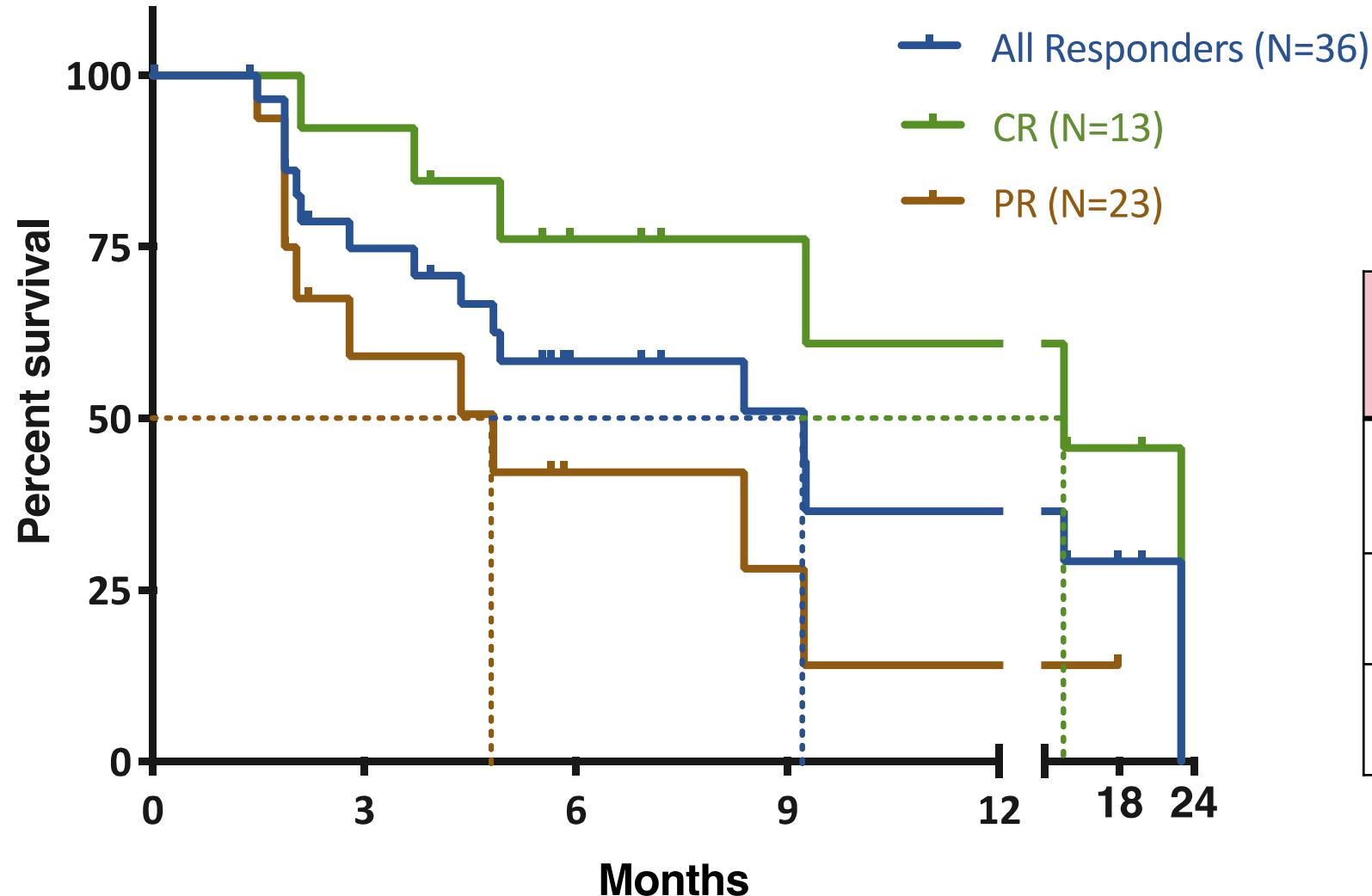
SADAL: Response Rates

Response and DOR (N=127)	Response per IRC, n (%) ^a	Median DOR per IRC, months (95% CI) ^c
ORR ^b [95% CI]	36 (28.3) [20.7, 37.0]	9.3 months (4.8, 23.0)
CR	15 (11.8)	23.0 months (10.4, 23.0)
PR	21 (16.5)	4.4 months (2.0, NE)
SD	11 (8.7)	N/A
PD/NE	80 (63.0)	N/A

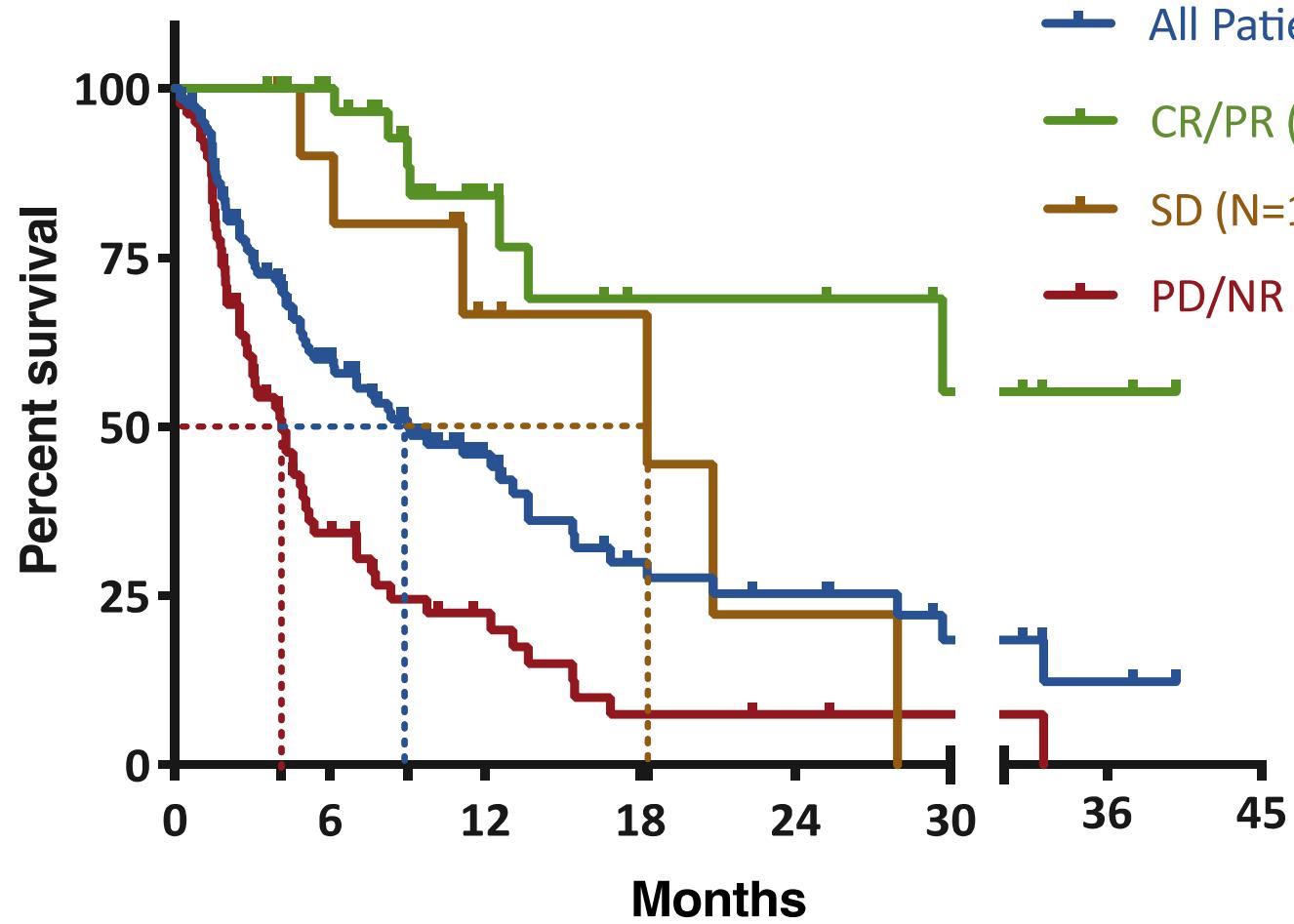
- Median time to response: 1.8 months (range: 1.5 – 6.4)

^aResponses were adjudicated according to the Lugano 2014 Criteria by an Independent Radiologic Committee (IRC) and confirmed by an Independent Oncologist Reviewer. The Deauville criteria (a 5-point scale) was used to grade response using PET-CT. PET-CT results were prioritized over CT results. ^bIncludes CR + PR. ^cMedian follow up 11.1 months

SADAL: Duration of Response (DOR)



SADAL: Overall Survival (OS)



Category	Median OS (months)	95% CI
All Patients	9.1	(6.2 – 13.7)
CR/PR Patients	Not Reached	(13.7 – NE)
SD Patients	18.3	(11.1 – 28.0)
PD/NR Patients	4.3	(3.0 – 5.2)

SADAL: Treatment-Related Adverse Events

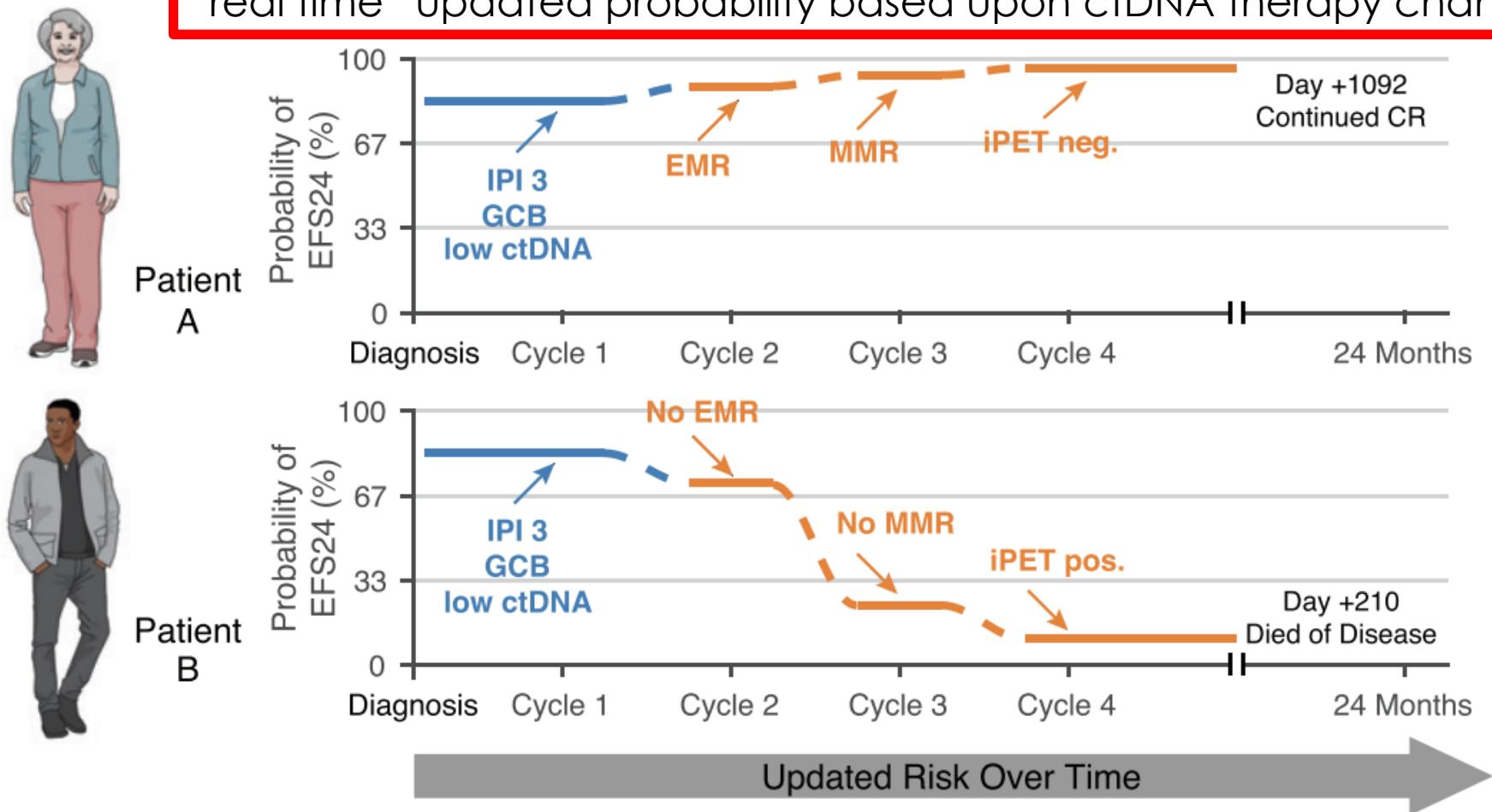
Treatment-Related AEs, n (%)		Selinexor 60 mg BIW mITT Population (N=127)				
		Grade 1	Grade 2	Grade 3	Grade 4	Total
Hematologic	Thrombocytopenia	6 (4.7)	10 (7.9)	35 (27.6)	15 (11.8)	66 (52.0)
	Anemia	3 (2.4)	18 (14.2)	16 (12.6)	1 (0.8)	38 (29.9)
	Neutropenia	1 (0.8)	6 (4.7)	17 (13.4)	9 (7.1)	33 (26.0)
Gastrointestinal	Nausea	31 (24.4)	28 (22.0)	8 (6.3)	--	67 (52.8)
	Anorexia	20 (15.7)	19 (15.0)	5 (3.9)	--	44 (34.6)
	Vomiting	25 (19.7)	6 (4.7)	2 (1.6)	--	33 (26.0)
	Diarrhea	14 (11.0)	8 (6.3)	4 (3.1)	--	26 (20.5)
	Dysgeusia	12 (9.4)	3 (2.4)	--	--	15 (11.8)
	Constipation	10 (7.9)	4 (3.1)	--	--	14 (11.0)
	Fatigue	19 (15.0)	17 (13.4)	12 (9.4)	--	48 (37.8)
Constitutional	Asthenia	5 (3.9)	11 (8.7)	3 (2.4)	--	19 (15.0)
	Weight Loss	10 (7.9)	17 (13.4)	--	--	27 (21.3)

- No related grade 5 AEs were reported in the mITT population
- Side effects were generally reversible and managed with dose modifications and/or standard supportive care

Future Directions

C CIRI-DLBCL - Naive Bayes Approach

"real time" updated probability based upon ctDNA therapy changes



Conclusions

- Although CAR T-cell is a game changer, Non-Immunotherapy approaches for R/R DLBCL patients show promise
- Polatuzumab, Tafasitamab + Lenalidomide, and Selinexor recently approved by the FDA
- Clinical trials remain the best weapon

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jwestin@mdanderson.org