

Addressing Current Questions and Controversies in the Management of Hodgkin and Non-Hodgkin Lymphoma — What Clinicians Want to Know

*Part 2 of a 3-Part CME Friday Satellite Symposium and Virtual Event Series
Preceding the 64th ASH Annual Meeting*

Friday, December 9, 2022

3:15 PM – 5:15 PM CT

Faculty

Jonathan W Friedberg, MD, MMSc

Brad S Kahl, MD

David G Maloney, MD, PhD

Loretta J Nastoupil, MD

Sonali M Smith, MD

Moderator

Neil Love, MD

Faculty



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Co-Leader, Cancer Service Line
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Medical Director
Cellular Immunotherapy and the Bezos Family
Immunotherapy Clinic
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Fred Hutchinson Cancer Center
Professor of Medicine, Division of Oncology
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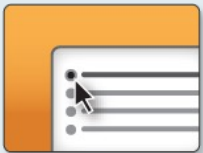
Moderator
Neil Love, MD
Research To Practice

Clinicians in the Meeting Room

Networked iPads are available.



Review Program Slides: Tap the Program Slides button to review speaker presentations and other program content.



Answer Survey Questions: Complete the pre- and postmeeting surveys.



Ask a Question: Tap Ask a Question to submit a challenging case or question for discussion. We will aim to address as many questions as possible during the program.



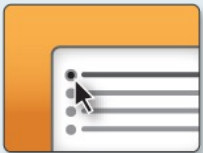
Complete Your Evaluation: Tap the CME Evaluation button to complete your evaluation electronically to receive credit for your participation.

For assistance, please raise your hand. Devices will be collected at the conclusion of the activity.

Clinicians Attending via Zoom



Review Program Slides: A link to the program slides will be posted in the chat room at the start of the program.



Answer Survey Questions: Complete the pre- and postmeeting surveys.



Ask a Question: Submit a challenging case or question for discussion using the Zoom chat room.



Get CME Credit: A CME credit link will be provided in the chat room at the conclusion of the program.

About the Enduring Program

- The live meeting is being video and audio recorded.
- The proceedings from today will be edited and developed into an enduring web-based video/PowerPoint program.
An email will be sent to all attendees when the activity is available.
- To learn more about our education programs, visit our website, www.ResearchToPractice.com



Addressing Current Questions and Controversies in the Management of Multiple Myeloma — What Clinicians Want to Know

*Part 3 of a 3-Part CME Friday Satellite Symposium and Virtual Event Series
Preceding the 64th ASH Annual Meeting*

Friday, December 9, 2022

7:00 PM – 9:00 PM CT (8:00 PM – 10:00 PM ET)

Faculty

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Rafael Fonseca, MD
Sagar Lonial, MD

Robert Z Orlowski, MD, PhD
Noopur Raje, MD

Moderator

Neil Love, MD



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Research To Practice CME Planning Committee Members, Staff and Reviewers

Planners, scientific staff and independent reviewers for Research To Practice have no relevant conflicts of interest to disclose.

Dr Friedberg — Disclosures

No relevant conflicts of interest to disclose.

Dr Kahl — Disclosures

No relevant conflicts of interest to disclose.

Dr Maloney — Disclosures

Advisory Committee	Chimeric Therapeutics, Genentech, a member of the Roche Group
Consulting Agreements	Bristol-Myers Squibb Company, Caribou Biosciences Inc, Celgene Corporation, Gilead Sciences Inc, Incyte Corporation, Juno Therapeutics, a Celgene Company, Kite, A Gilead Company, Legend Biotech, Lilly, Mustang Bio, Novartis, Umoja Biopharma
Contracted Research	Celgene Corporation, Juno Therapeutics, a Celgene Company, Kite, A Gilead Company, Legend Biotech

Dr Nastoupil — Disclosures

Advisory Committee	Bristol-Myers Squibb Company, Genentech, a member of the Roche Group, Janssen Biotech Inc, Kite, A Gilead Company, Novartis, Takeda Pharmaceuticals USA Inc
Contracted Research	Bristol-Myers Squibb Company, Caribou Biosciences Inc, Epizyme Inc, Genentech, a member of the Roche Group, Genmab, IGM Biosciences Inc, Janssen Biotech Inc, Kite, A Gilead Company, Novartis, Takeda Pharmaceuticals USA Inc
Data and Safety Monitoring Board/Committee	Denovo Biopharma, Genentech, a member of the Roche Group, MEI Pharma Inc, Takeda Pharmaceuticals USA Inc

Dr Smith — Disclosures

Consulting Agreements	Bristol-Myers Squibb Company, Gilead Sciences Inc, MorphoSys
Contracted Research	Acerta Pharma — A member of the AstraZeneca Group, Bristol-Myers Squibb Company, Celgene Corporation, Curis Inc, Epizyme Inc, Forty Seven Inc, Genentech, a member of the Roche Group, Karyopharm Therapeutics, Pharmacyclics LLC, an AbbVie Company, Portola Pharmaceuticals Inc, TG Therapeutics Inc
Nonrelevant Financial Relationship	Spouse is employed at Caris Life Sciences

Addressing Current Questions and Controversies in the Management of Hodgkin and Non-Hodgkin Lymphoma — What Clinicians Want to Know

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Moderator

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Agenda

Module 1: Diffuse Large B-Cell Lymphoma (DLBCL) — Dr Friedberg

Module 2: Follicular Lymphoma (FL) — Dr Nastoupil

Module 3: Hodgkin Lymphoma (HL) — Dr Smith

Module 4: Chimeric Antigen Receptor (CAR) T-Cell Therapy for Non-Hodgkin Lymphoma — Dr Maloney

Module 5: Mantle Cell Lymphoma (MCL) — Dr Kahl

Agenda

Module 1: Diffuse Large B-Cell Lymphoma (DLBCL) — Dr Friedberg

▶ *Real World Cases and Questions*

Module 2: Follicular Lymphoma (FL) — Dr Nastoupil

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Module 4: Chimeric Antigen Receptor (CAR) T-Cell Therapy for Non-Hodgkin Lymphoma — Dr Maloney

▶ *Real World Cases and Questions*

Module 5: Mantle Cell Lymphoma (MCL) — Dr Kahl

▶ *Real World Cases and Questions*

Module 1: Diffuse Large B-Cell Lymphoma (DLBCL)

— Dr Friedberg

Case Presentation: 62-year-old woman with DLBCL with renal and subcutaneous involvement



Dr Erik Rupard (West Reading, Pennsylvania)



**Dr Tina Bhatnagar
(Wheeling, West Virginia)**

**Case Presentation: Otherwise healthy
86-year-old woman with an orbital mass
diagnosed with Stage IE DLBCL**



**Dr Yanjun Ma
(Murfreesboro, Tennessee)**

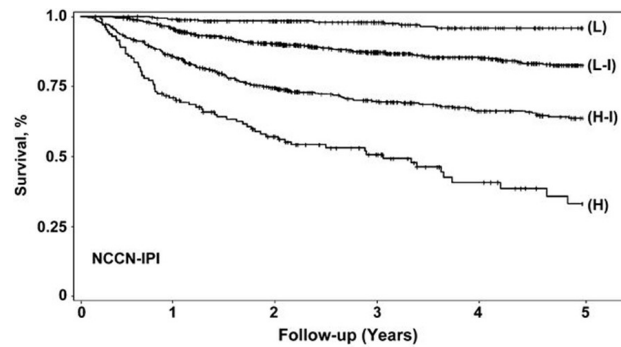
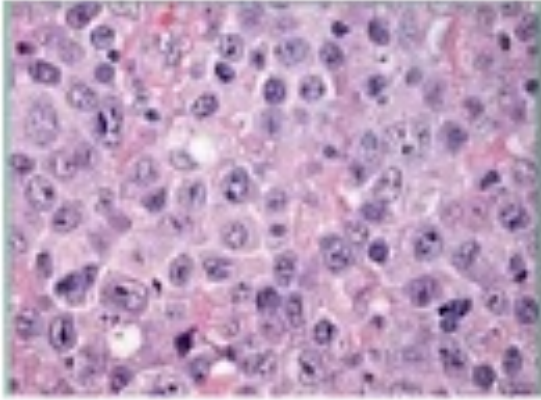
**Case Presentation: 81-year-old man with
Stage IIIB DLBCL, GCB type and LVEF 35%-40%
due to prior MI and CAD**

Therapy of Diffuse Large B-cell Lymphoma (DLBCL)

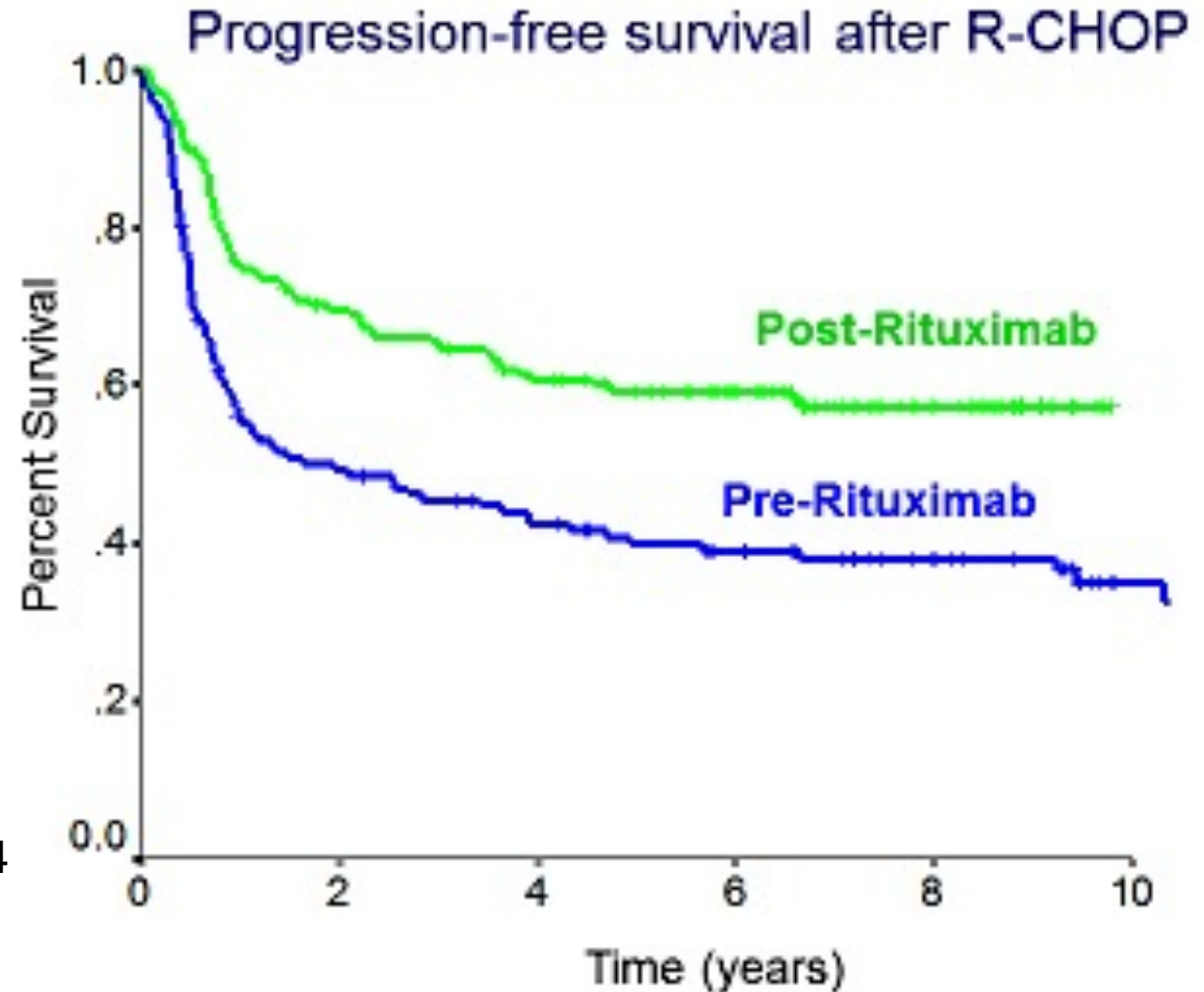
Jonathan W. Friedberg M.D.



RCHOP has been the “standard” therapy of DLBCL



Zhou et al, *Blood* 123: 837, 2014

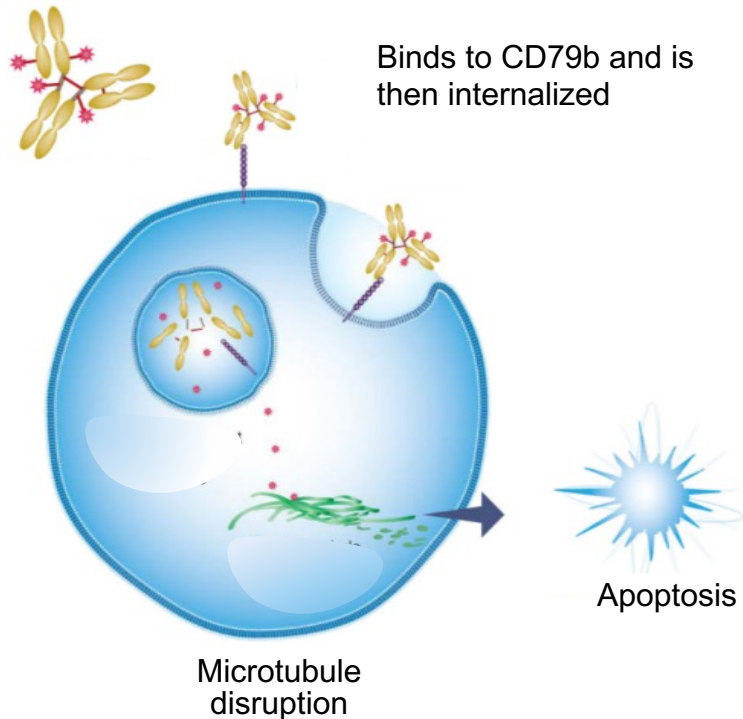


Updated from Sehn, L et al, *J Clin Oncol* 23:5027, 2005

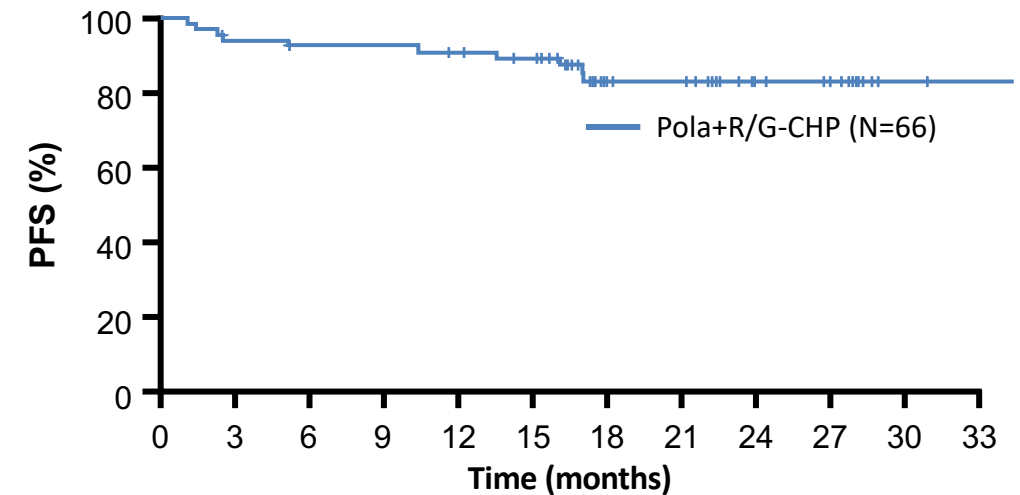
Polatuzumab vedotin is an ADC targeting CD79b

CD79b is ubiquitously expressed on DLBCL cells

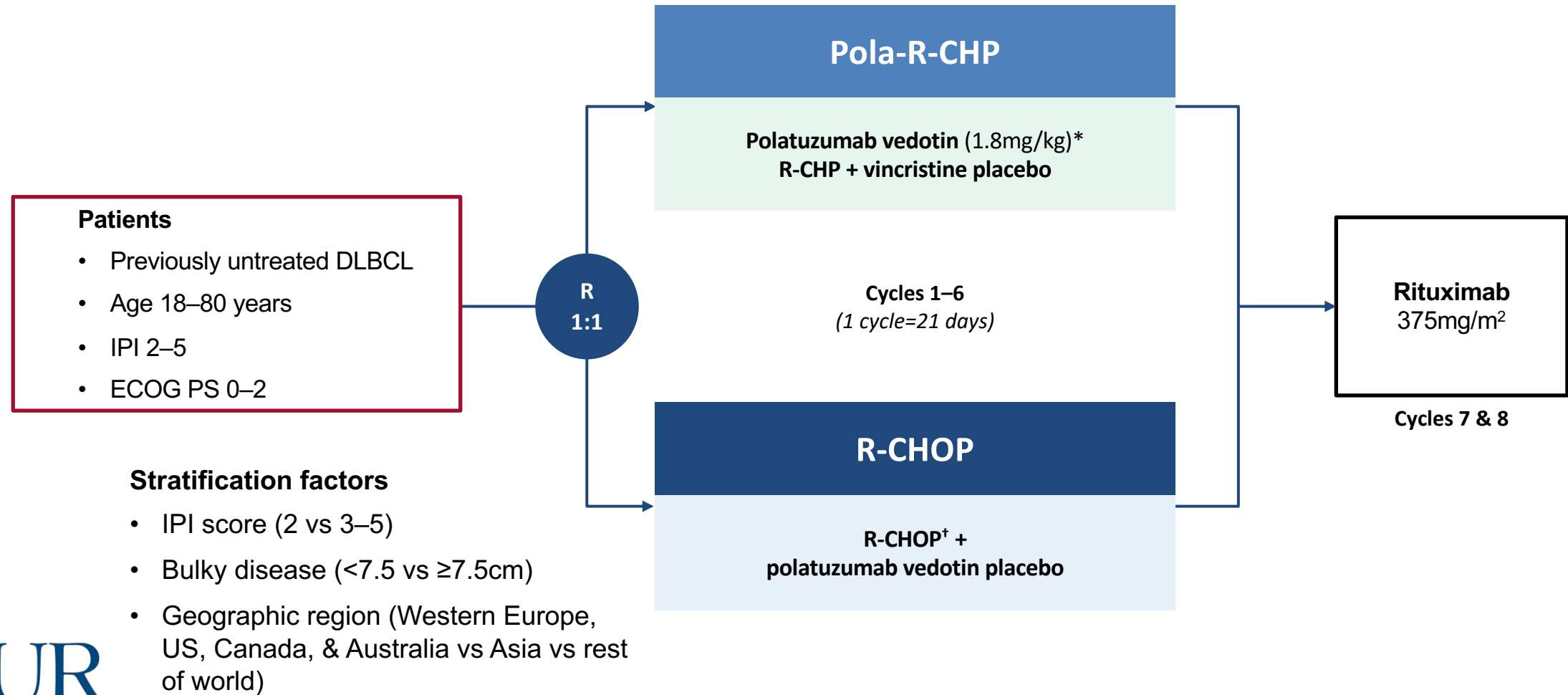
Polatuzumab vedotin



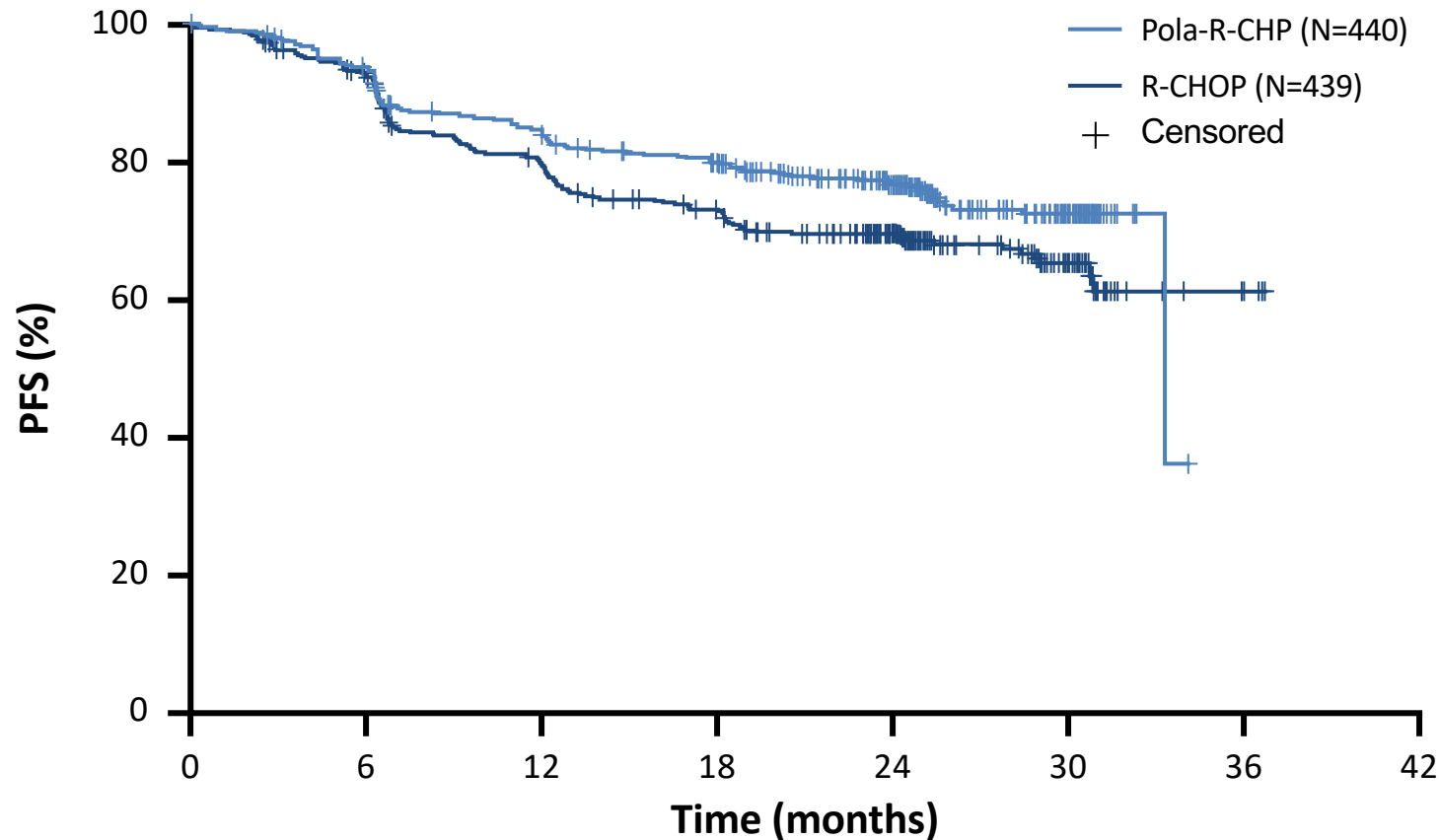
PFS after Pola+R/G-CHP in first-line DLBCL



POLARIX: A randomized double-blinded study



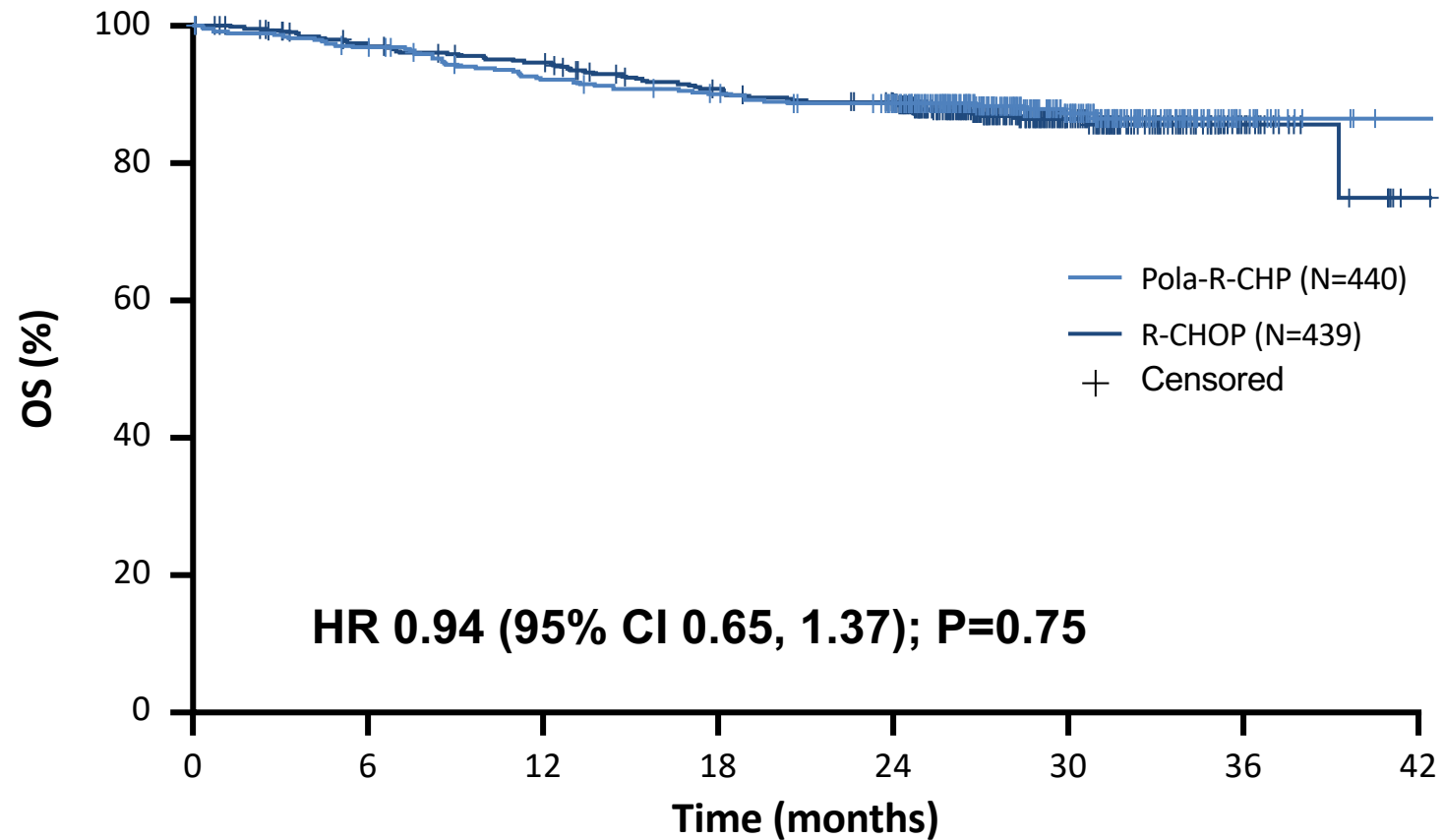
POLARIX Primary endpoint: Progression-free survival



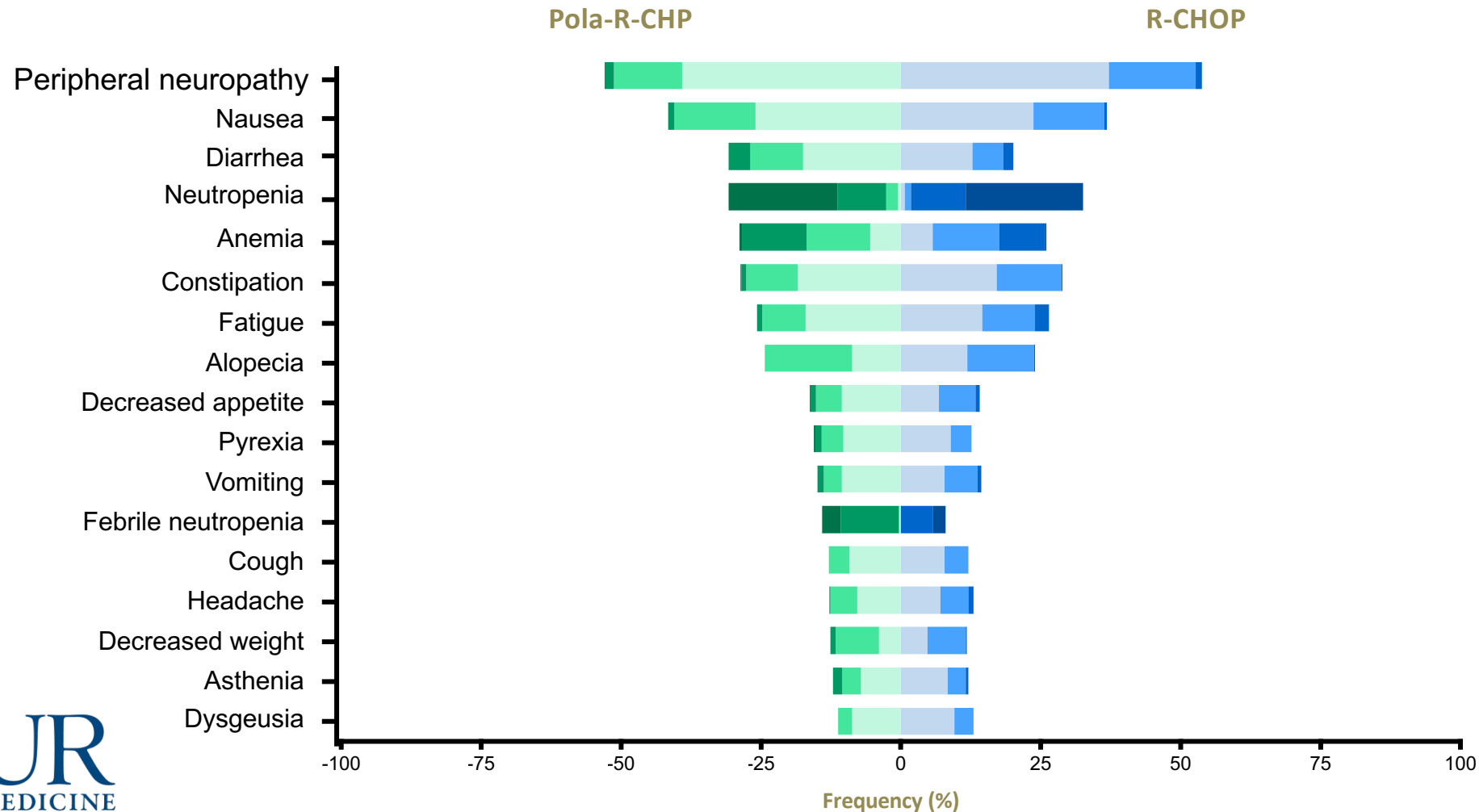
HR 0.73 ($P < 0.02$)

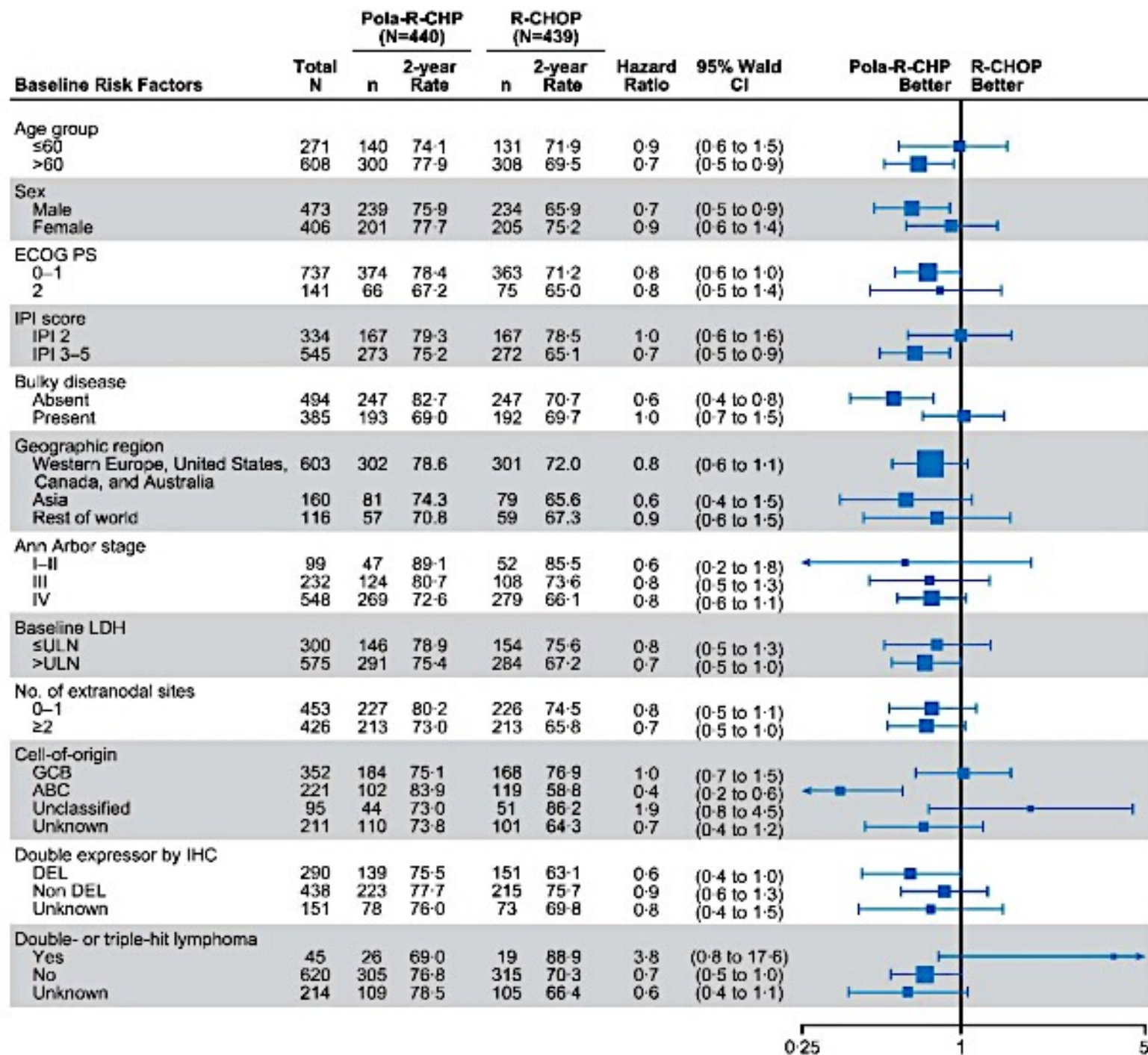
- **24-month PFS:**
76.7% with Pola-R-CHP
70.2% with R-CHOP
($\Delta = 6.5\%$)

Overall survival: POLARIX trial



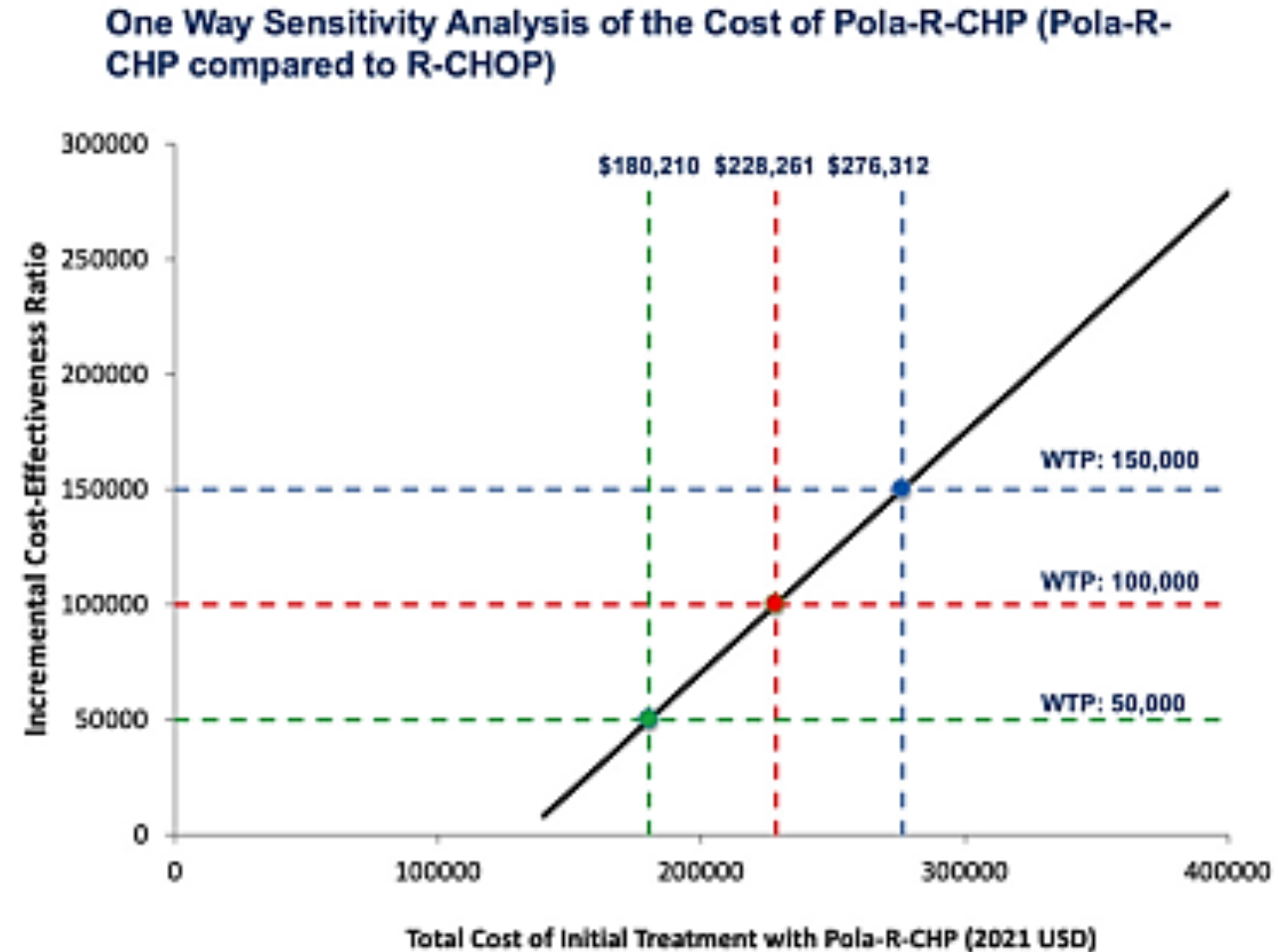
Common adverse events: POLARIX trial





Cost effectiveness of R-Pola-CHP depends upon long-term outcomes

- Routine use of R-Pola-CHP will add significantly to health expenditures.
- Markov Model
 - Threshold 150K/QALY
 - If 5 year PFS > 66%, then cost-effective
- Identifications of subgroups that have maximal benefit would improve cost-effectiveness.



Should R-Pola-CHP replace RCHOP?

Strengths:

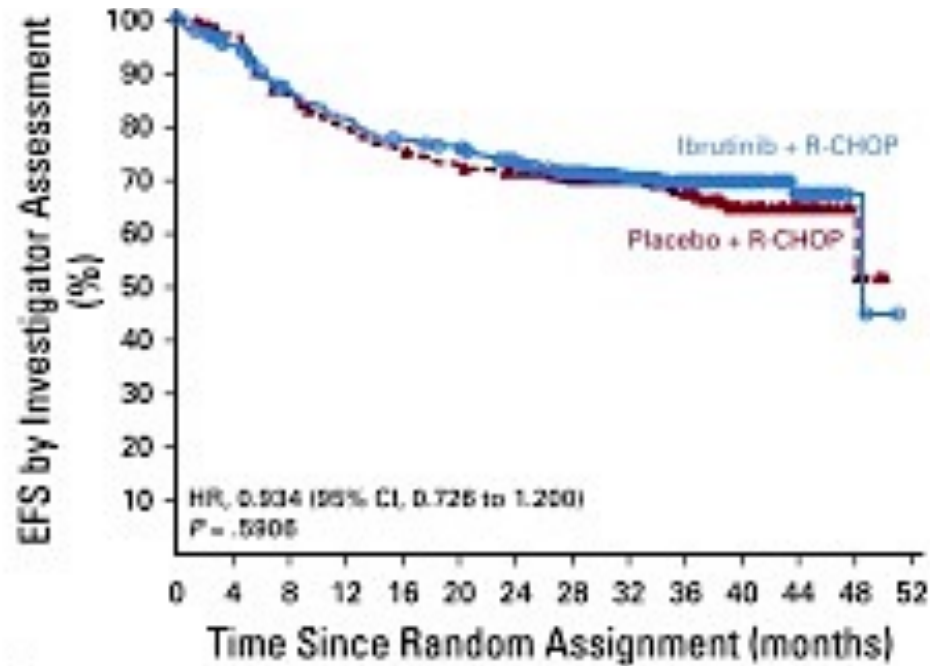
- Enhanced PFS with median follow-up of more than two years: likely cures.
- No toxicity differences; double-blind design
- Higher risk patients appeared to disproportionately benefit
- Borderline cost-effective when considering costs (financial and physical) of salvage therapy

Concerns:

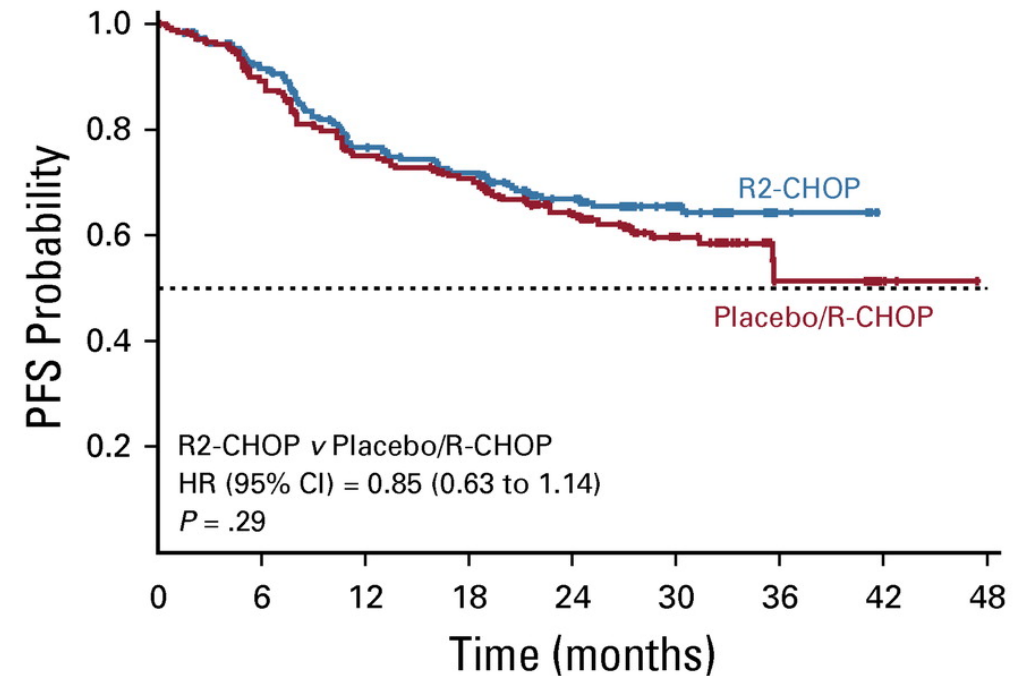
- Relatively small (6%) PFS difference at two year benchmark
- Certain subsets (GCB, double hit) appear to not benefit
- Expensive
- Uncertain impact on outcome of salvage treatments
- No overall survival benefit (yet)

Rational agents targeting ABC DLBCL have single agent activity, but do not improve outcome when added to RCHOP

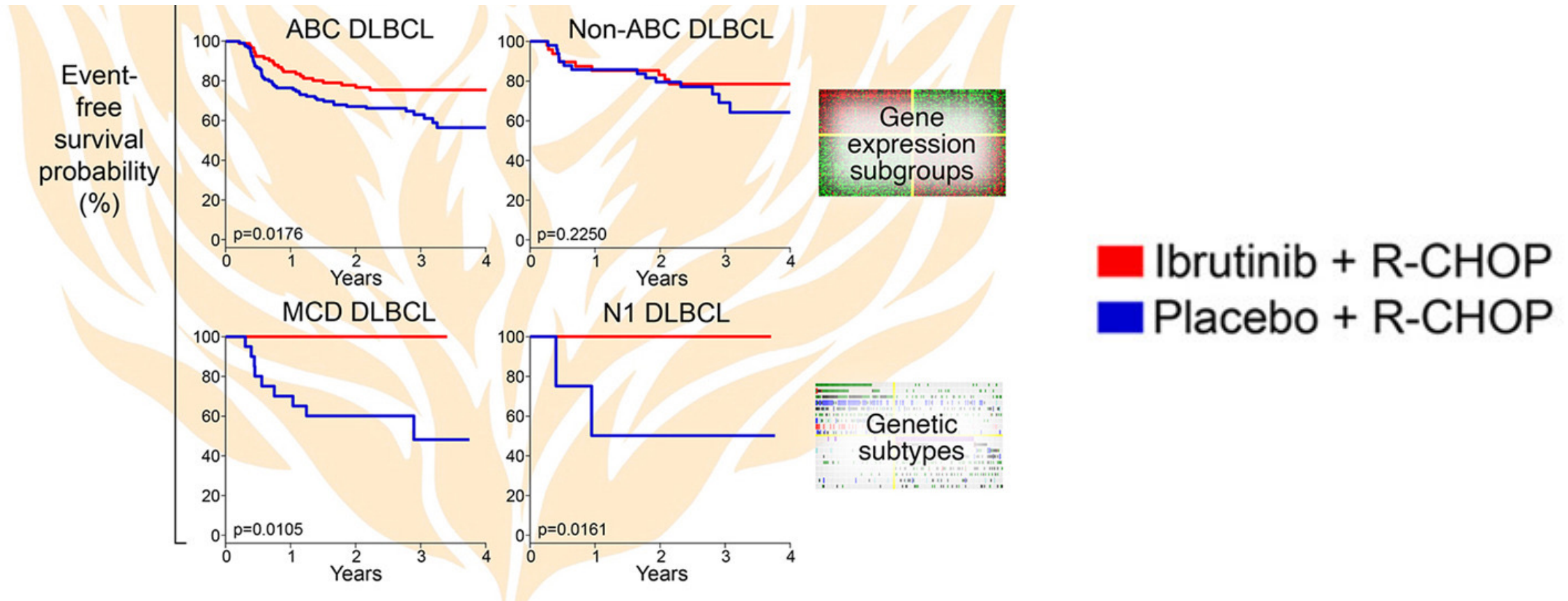
Ibrutinib



Lenalidomide



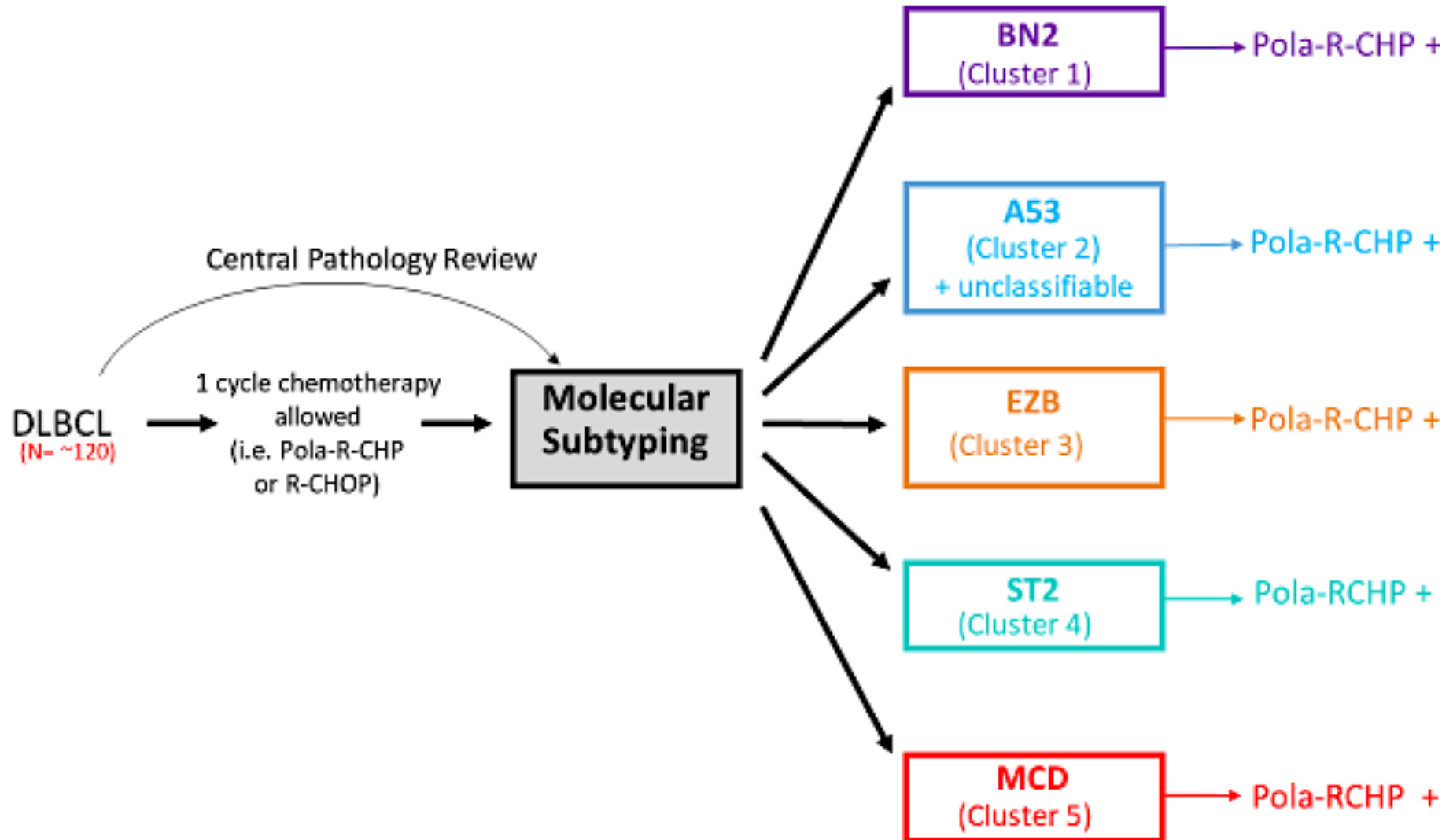
Sequencing reveals further heterogeneity of DLBCL: Analysis of phase III PHOENIX trial



Ongoing trials

- Tafasitamab/Lenalidomide + RCHOP vs. RCHOP (high int and high risk)
- Acalabrutinib + RCHOP vs. RCHOP (nonGCB; < age 70)
- Epcoritamab + RCHOP vs. RCHOP (pending; IPI 2-5)
- Elderly studies:
 - Azacitidine + RminiCHOP vs. RminiCHOP (SWOG S1918; > age 75)
 - Mosunetuzumab +/- polatuzumab
 - Loncastuximab + rituximab

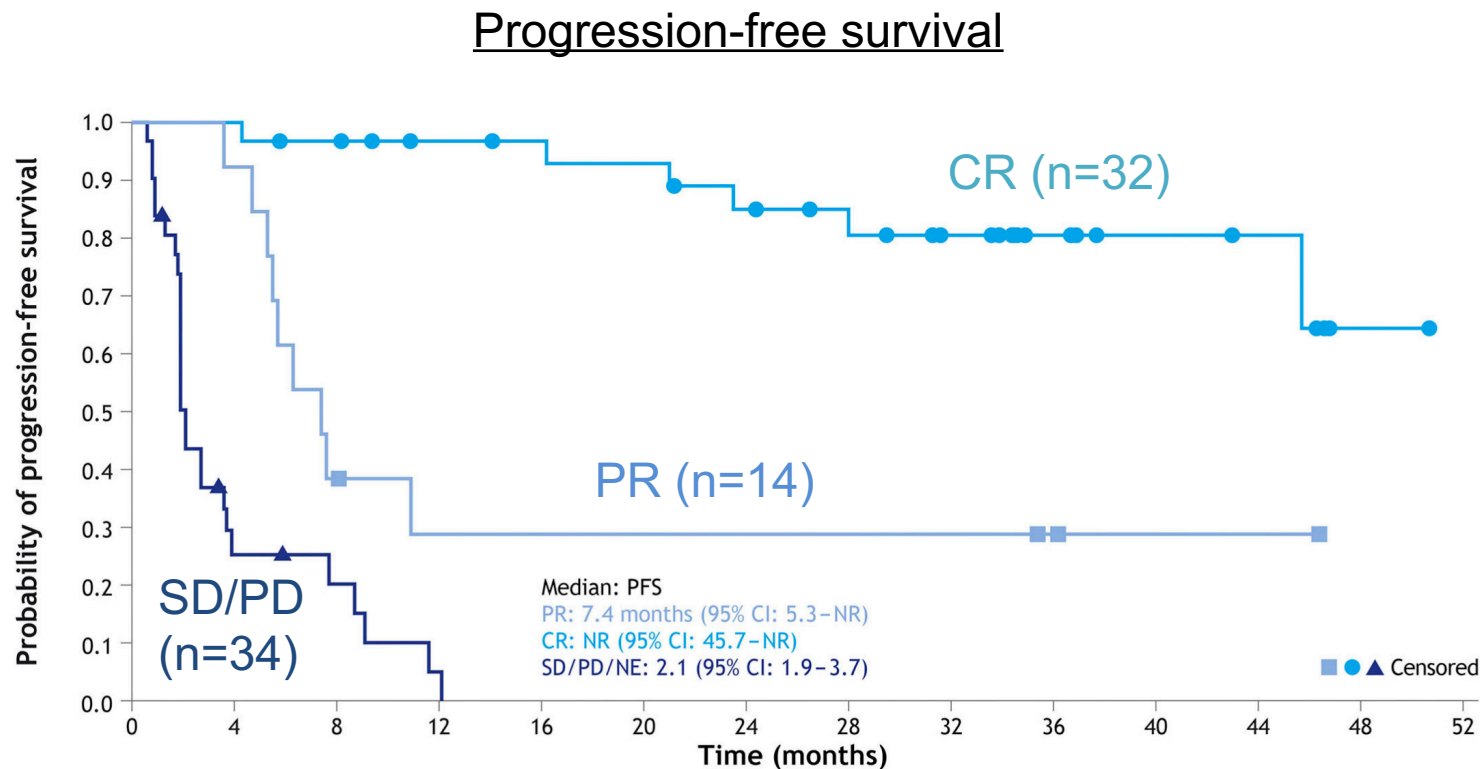
The future: ECOG trial concept



Relapsed/Refractory Diffuse Large B-cell Lymphoma (DLBCL)

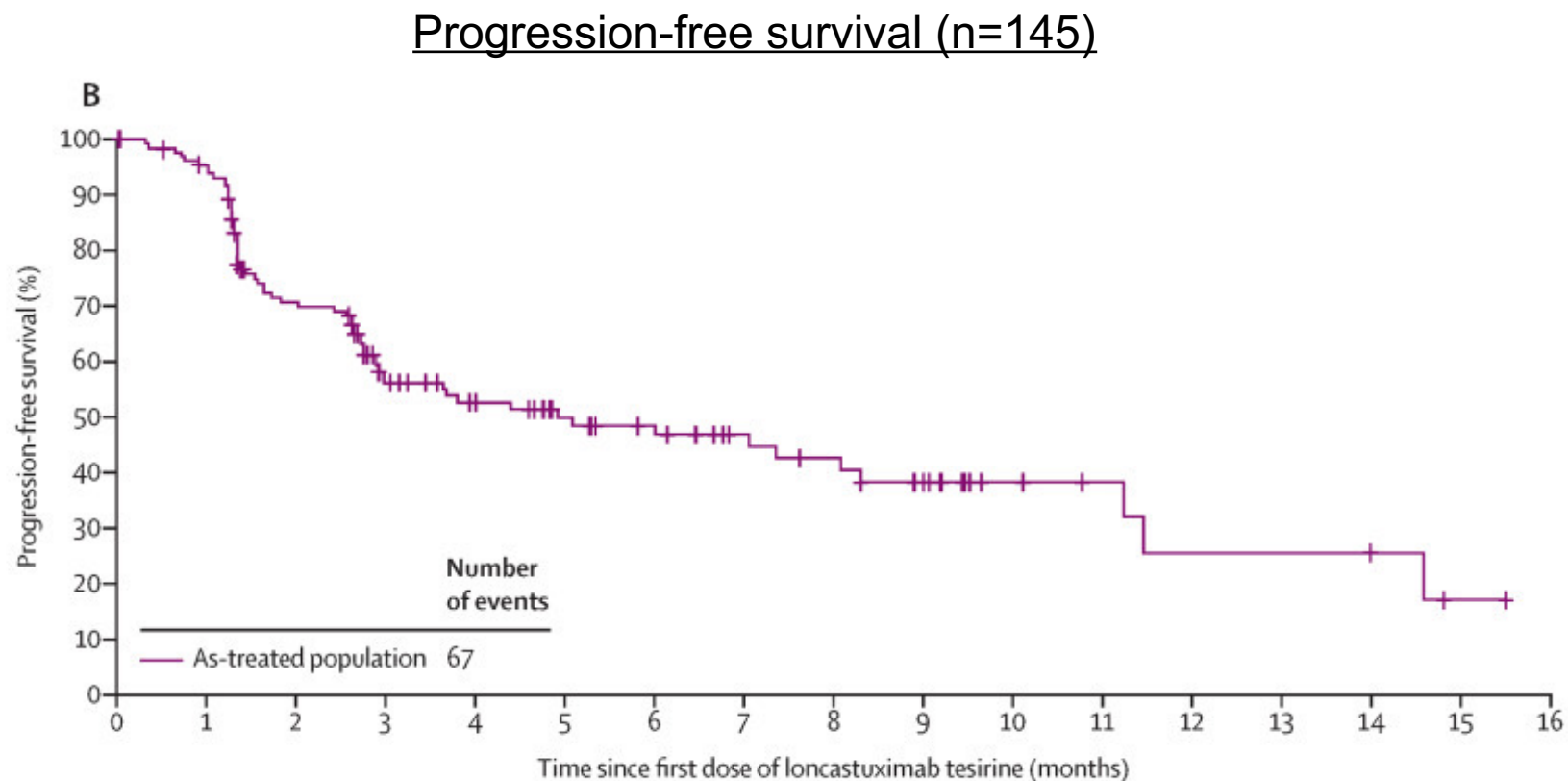
Tafasitamab (anti-CD19) + Lenalidomide pivotal trial

- 12 months combined therapy, then tafasitamab alone q 2 weeks
- ORR 57%; CR 40%
- Median OS 33 months
- Key adverse events
 - Neutropenia, infections
 - 42 deaths; 31 from PD



Loncastuximab (CD19 ADC) pivotal trial

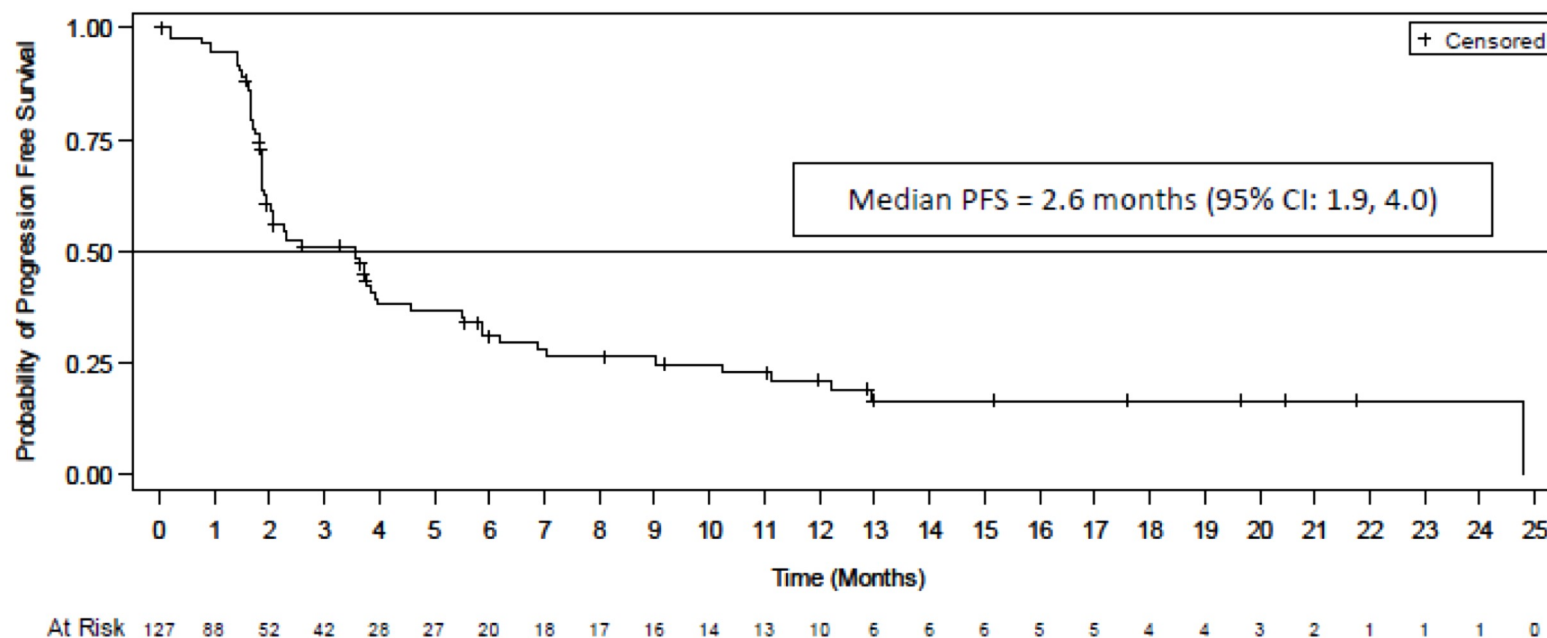
- 12 months q 3 weeks
- ORR 46%; CR 19%
- Key adverse events
 - Neutropenia, infections
 - Increased GGT
 - Edema/effusions
 - Dose delays common



Selinexor (exportin-1) pivotal trial

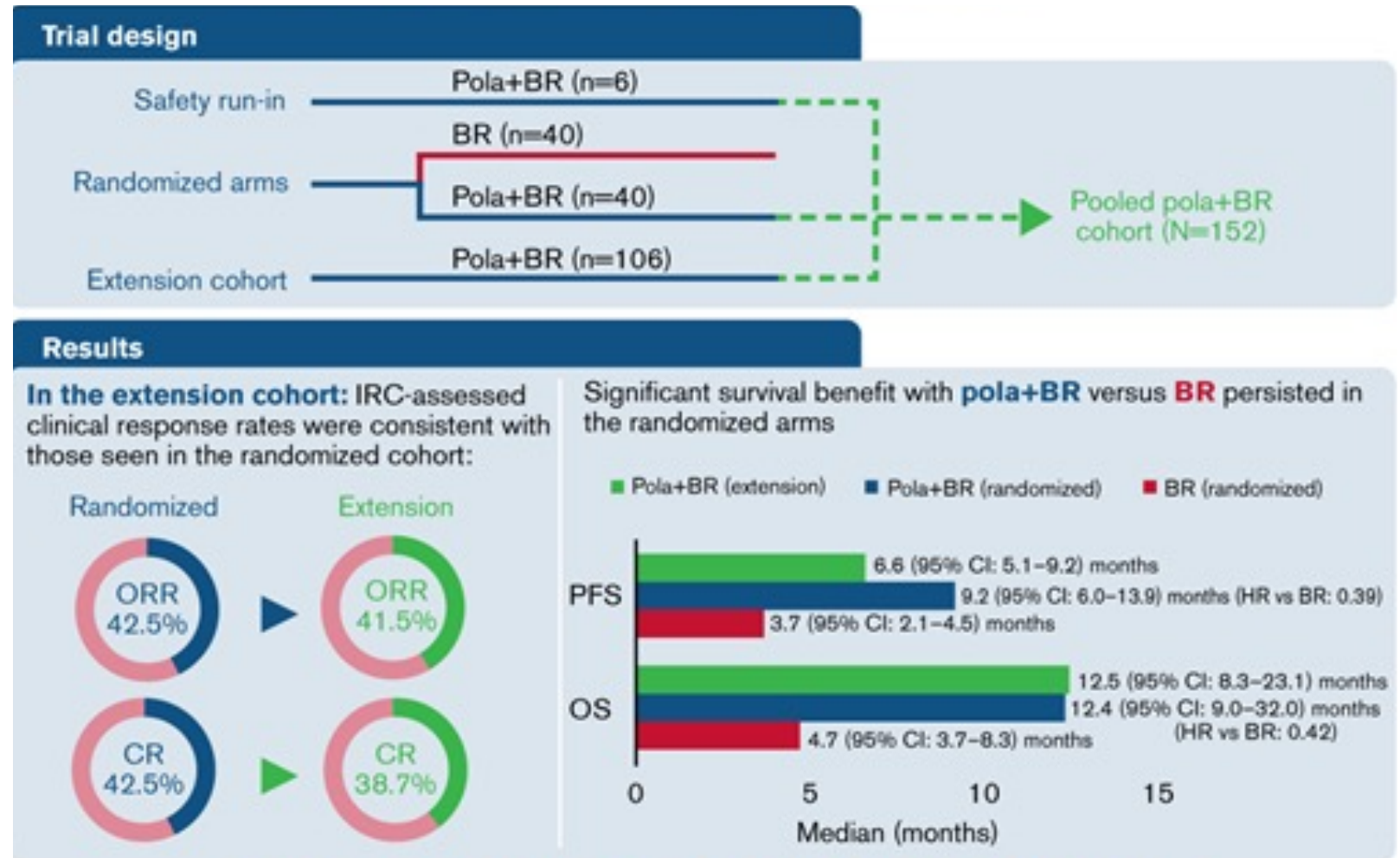
- Oral therapy twice weekly
- ORR 28%; CR 12%
- Key adverse events
 - Neutropenia, thrombocytopenia
 - Fatigue
 - Nausea
 - Dose delays common

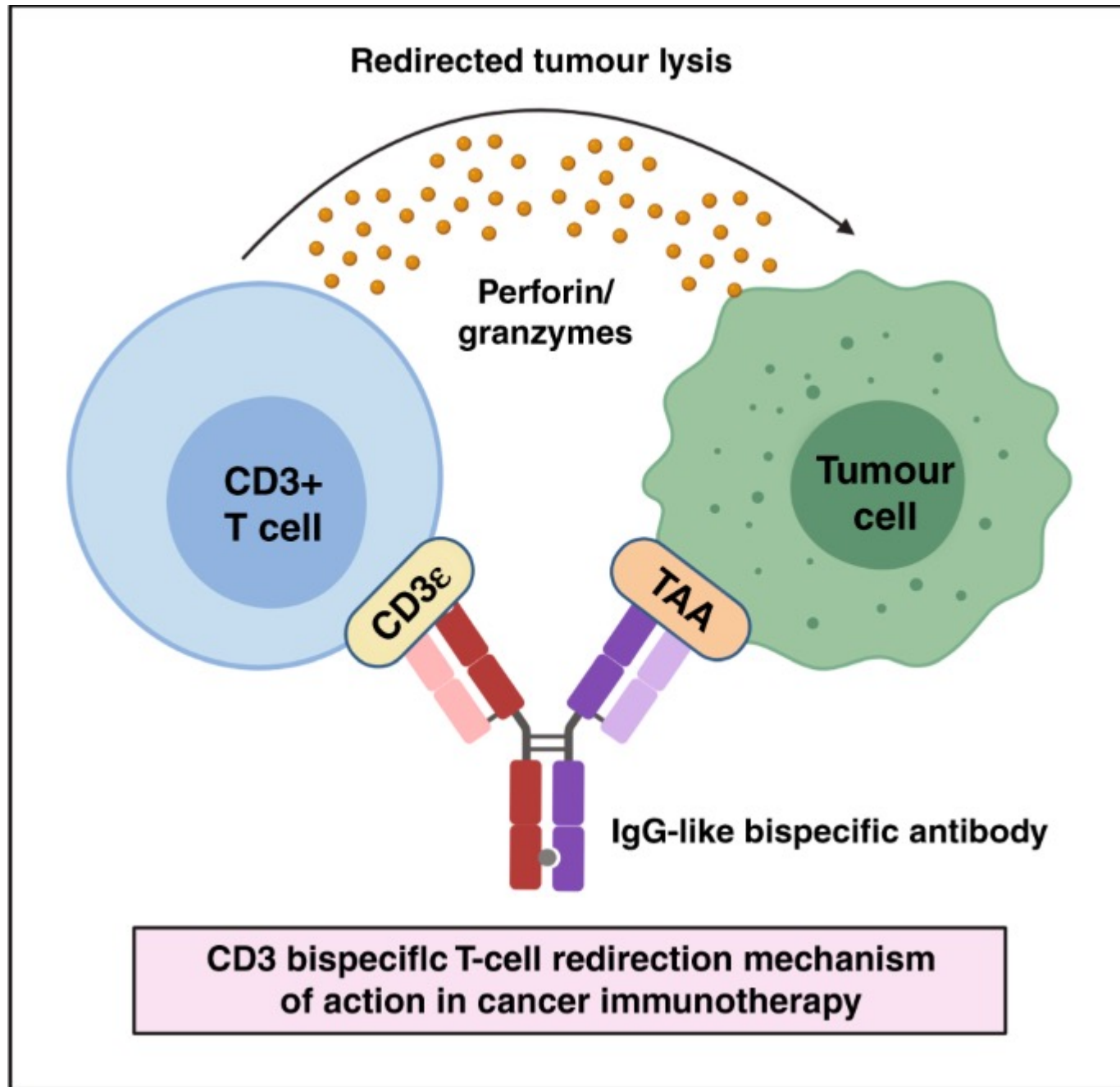
Progression-free survival (n=127)



Bendamustine/rituximab +/- polatuzumab (CD79b ADC)

- 6 cycles of therapy
- ORR and CRs
 - BR: 18%;
 - BR/pola: 42%
- Key adverse events
 - Neutropenia, anemia, thrombocytopenia
 - Increased GGT

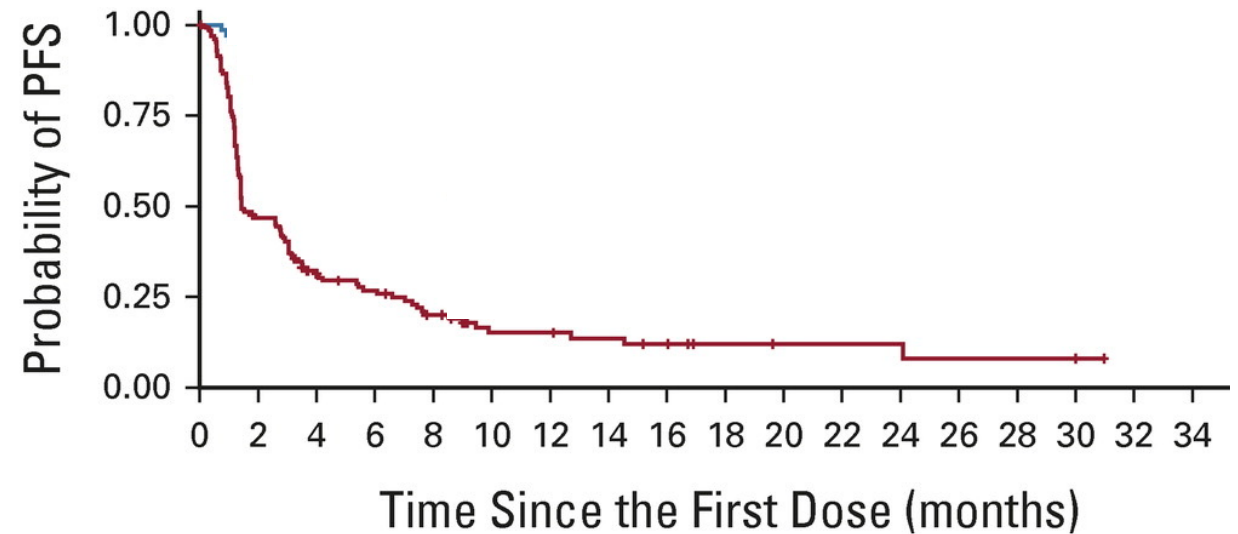




Mosunetuzumab experience

- 82 patients with DLBCL; additional patients with transformed and mantle cell lymphoma.
- ORR 35%; CR 19%
- Key adverse events
 - Neutropenia
 - CRS (low grade; cycle 1)
 - Diarrhea

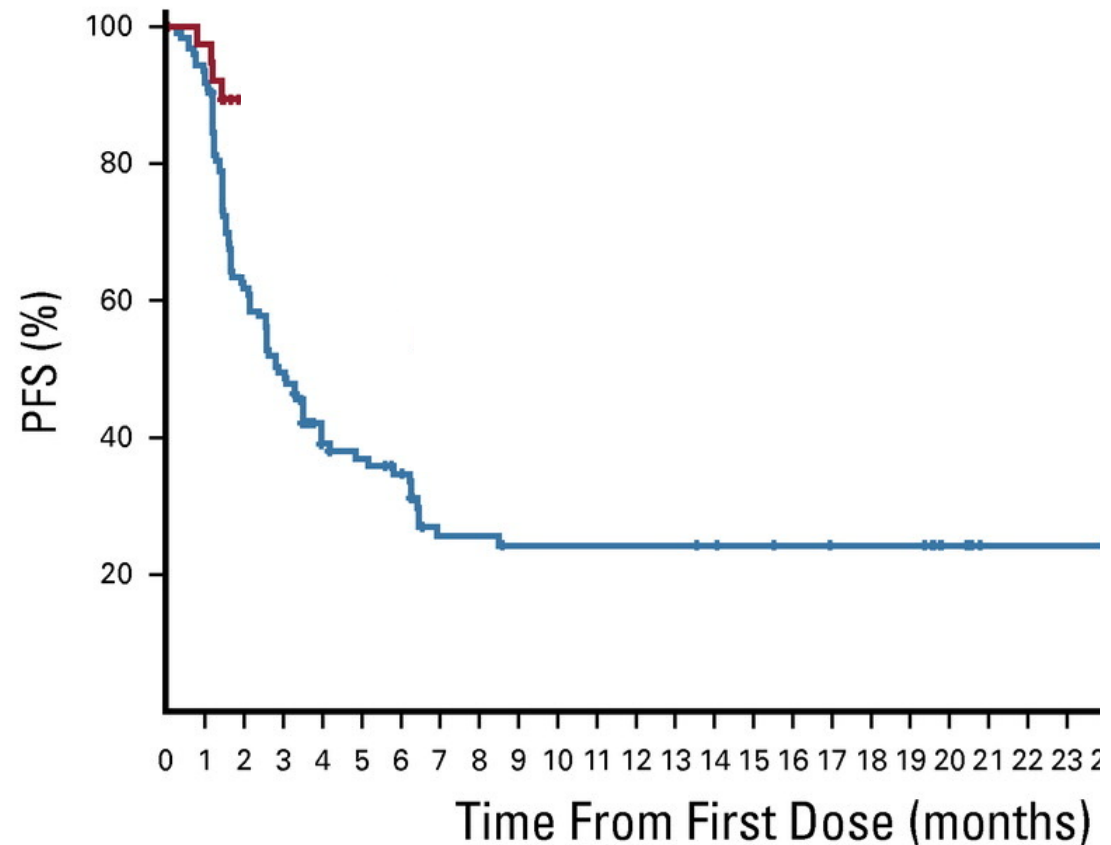
Progression-free survival (n=129)



Glofitamab experience

- 73 patients with DLBCL; additional patients with transformed and mantle cell lymphoma.
- ORR 48%; CR 39%
- Key adverse events
 - Neutropenia
 - CRS (low grade; cycle 1)
 - 2 cases of neurotoxicity

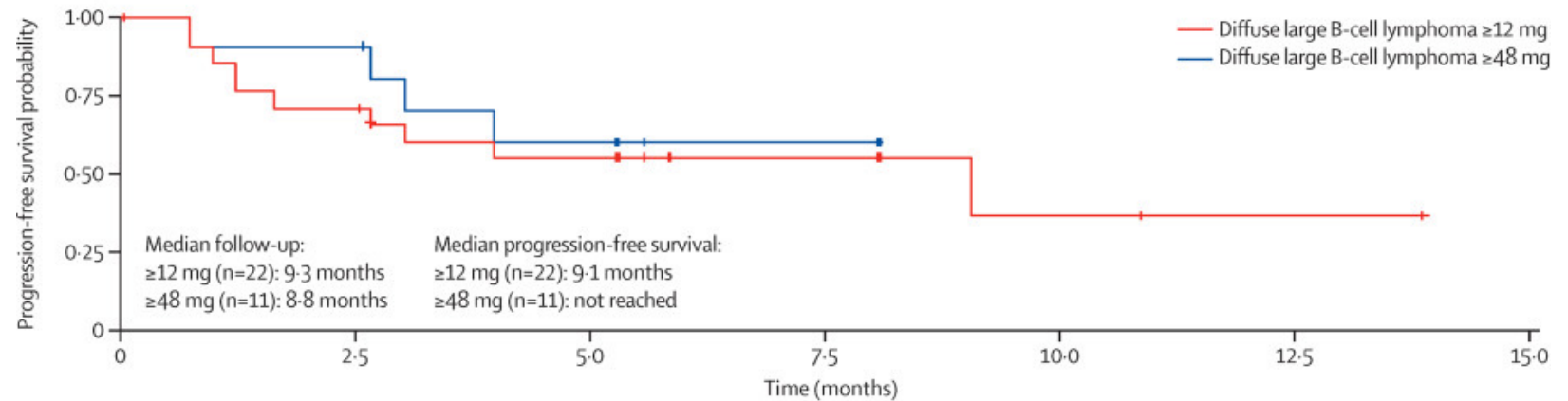
Progression-free survival (n=127)



Epcoritamab experience

- Subcutaneous administration
- ORR 68%; CR 45%
- Key adverse events
 - Fever
 - CRS
 - Injection site reactions

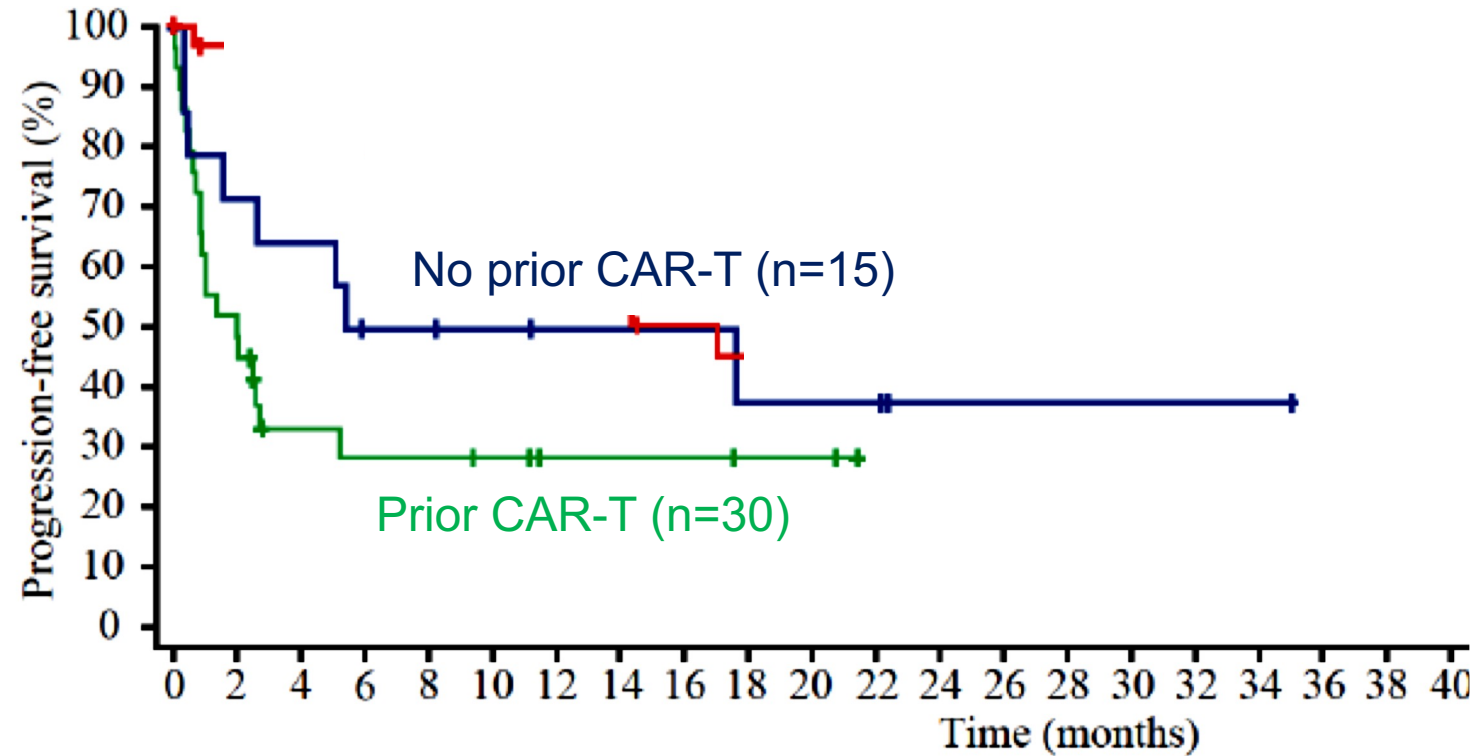
Progression-free survival (n=22)



Odronextamab experience

- ORR: 53% no CAR-T; 33% post CAR-T
- Key adverse events
 - Anemia
 - Fever, CRS
 - Infections

Progression-free survival (n=45)



Some key ASH abstracts on bispecifics in DLBCL

- 737 Glofitamab + RCHOP
- 441 Glofitamab relapses rare after CR
- 443 Epcoritamab + RDAx/C as salvage therapy
- 444 Odronextamab in relapsed/refractory DLBCL
- 738 Mosunetuzumab monotherapy for elderly patients with DLBCL

Discussion Question

Outside of a clinical trial setting, what is your usual third line systemic therapy for an elderly patient with DLBCL after RCHOP followed by tafasitamab/lenalidomide who is not eligible for aggressive treatment?

Loncastuximab tesirine

Selinexor

Polatuzumab vedotin/BR

Other

Module 2: Follicular Lymphoma (FL) — Dr Nastoupil

Case Presentation: 69-year-old man with progressive Grade I/II follicular lymphoma after observation for many years

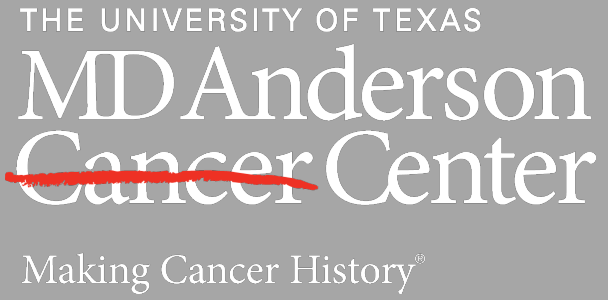


Dr Neil Morganstein (Summit, New Jersey)

Case Presentation: 60-year-old woman with Grade II follicular lymphoma, s/p BR and maintenance rituximab



Dr Jennifer Dallas (Charlotte, North Carolina)



Follicular Lymphoma

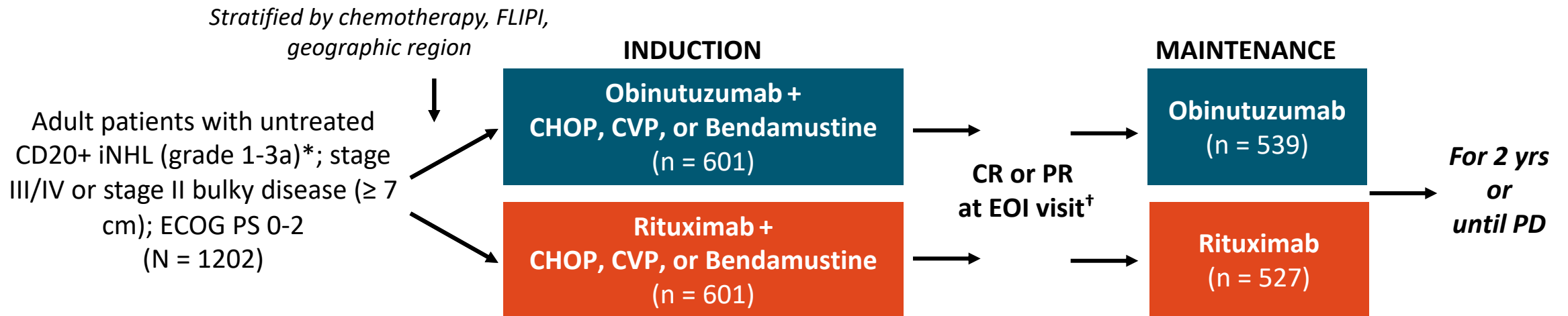
Loretta J. Nastoupil, MD

UT MD Anderson Cancer Center

lnastoupil@mdanderson.org

GALLIUM: Frontline Obinutuzumab-Based vs Rituximab-Based Chemoimmunotherapy

- International randomized, open-label phase III study
 - Obinutuzumab was designed to achieve enhanced therapeutic activity compared with rituximab



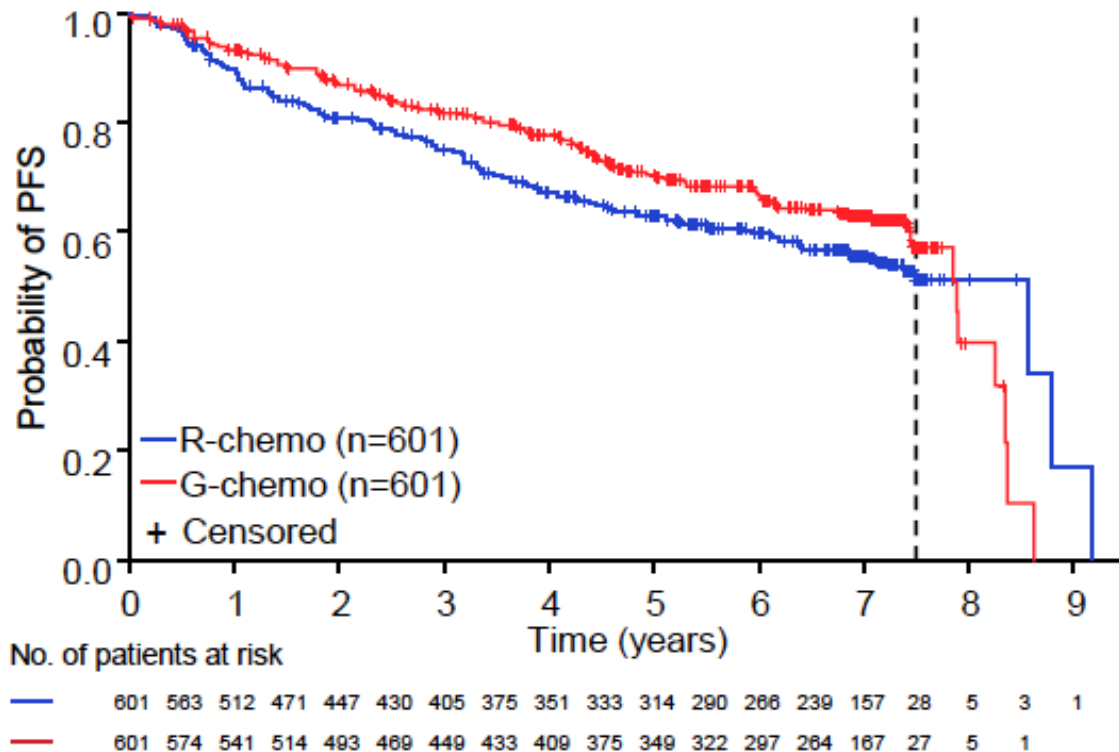
*All data presented for patients with FL, although study also enrolled patients with MZL (randomized separately).

[†]Patients with SD at EOI followed up to 2 yrs for PD.

- Primary endpoint: PFS by investigator in patients with FL
- Secondary endpoints: PFS by IRC, OS, DFS, DoR, TTNT, CR/ORR at EOI (\pm FDG-PET), safety

GALLIUM Final Analysis: PFS Benefit After 8 Years Follow-Up

PFS by INV



KM estimates became unreliable beyond 7.5 years, due to low numbers of patients at risk¹

Median observation time: 7.9 (0.0–9.8) years

INV-assessed PFS

Patients with event, n (%)

G-chemo
(n=601)

R-chemo
(n=601)

7-year PFS, %
(95% CI)

63.4
(59.0–67.4)

55.7
(51.3–59.9)

HR (95% CI)*

0.77 (0.64–0.93)

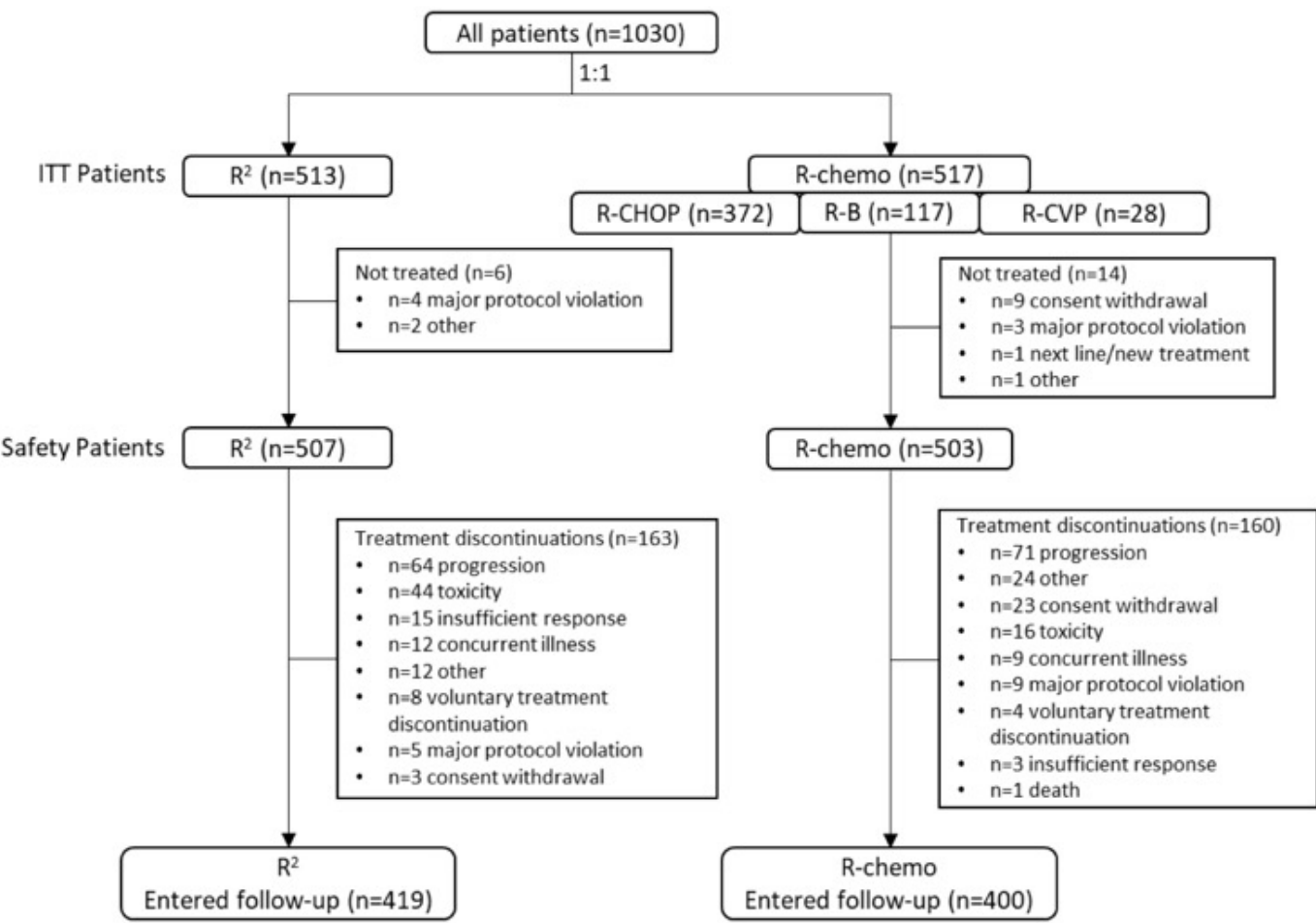
P-value

0.006

R = rituximab; G = obinutuzumab

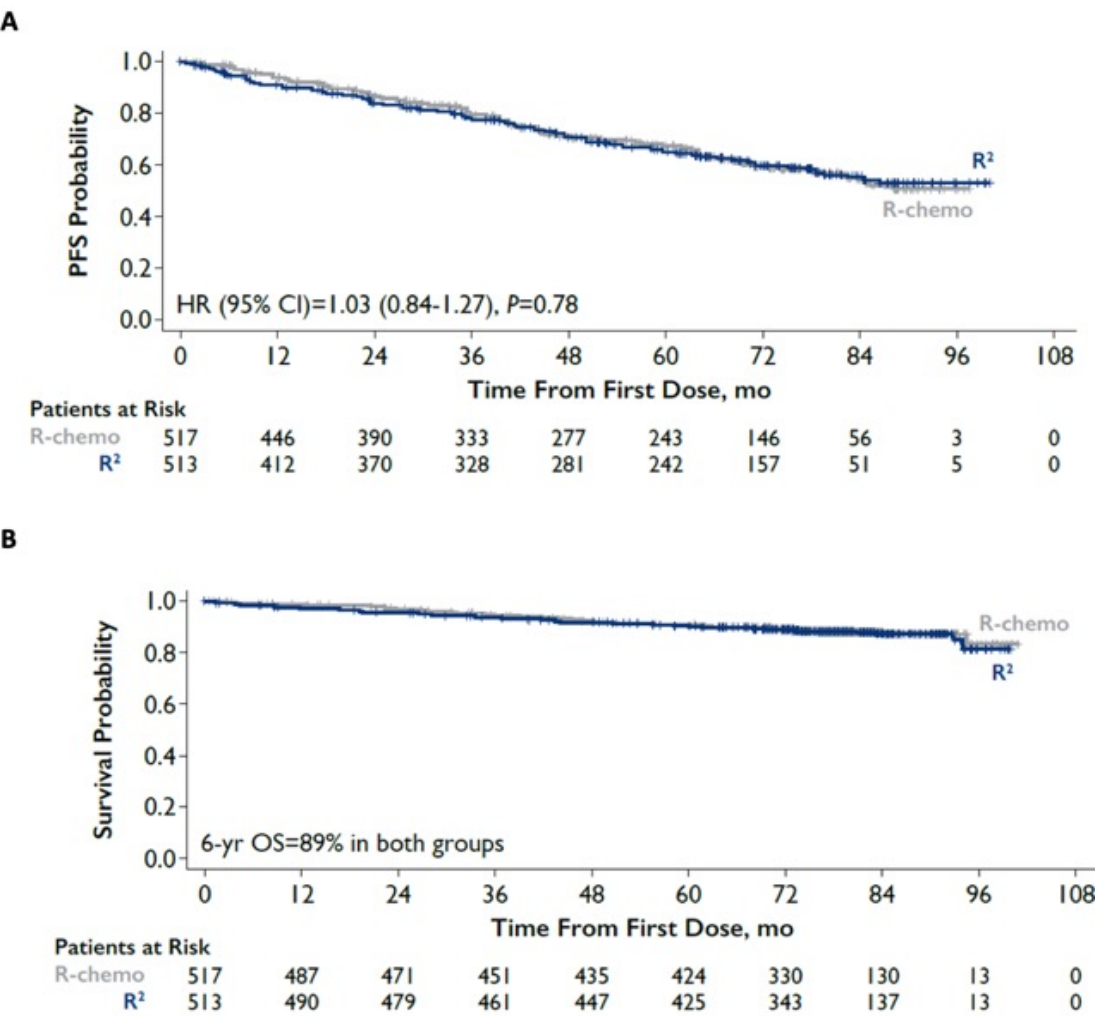
RELEVANCE: R2 vs. R-chemo in frontline FL, 6 year follow-up

Figure 1. Consort Diagram



Morschhauser et al. JCO 2022

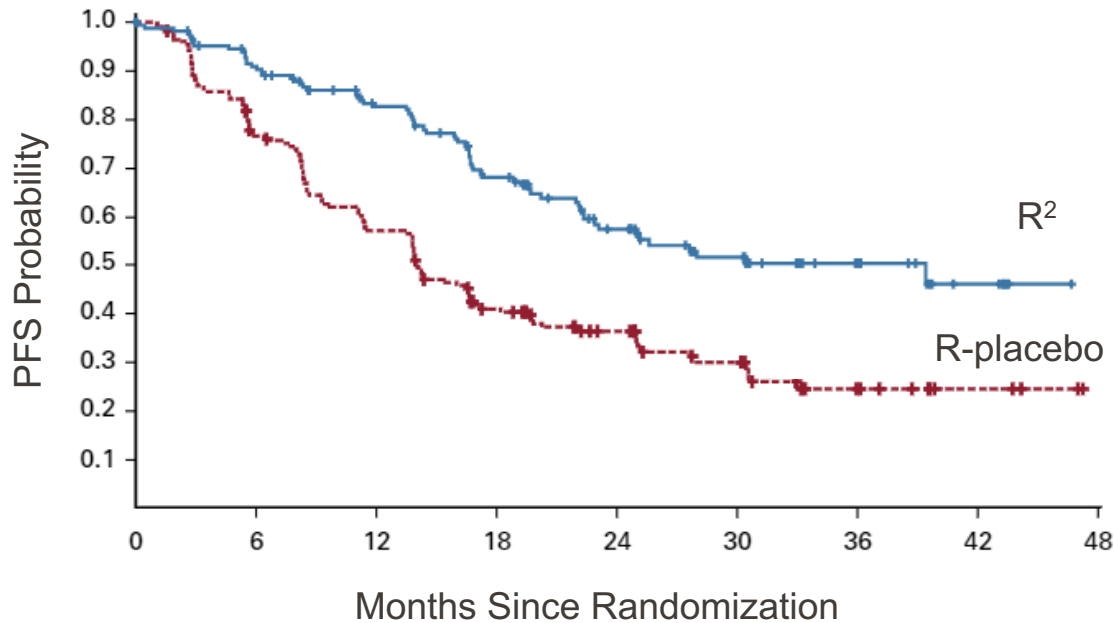
Figure 2. Progression-free Survival by IRC (A) and Overall Survival (B) in the Intention-to-Treat Population



AUGMENT: Rituximab + Lenalidomide vs. Rituximab+ placebo

Efficacy

Progression-Free Survival

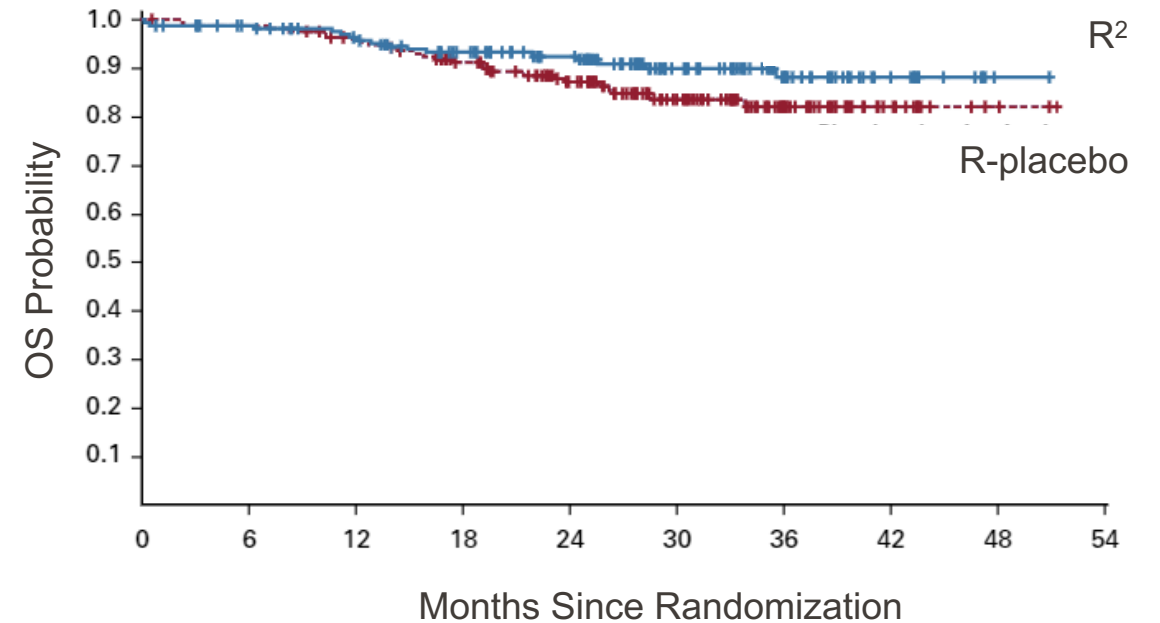


Median PFS by IRC

- R² = 39.4 months
- R-placebo = 14.1 months

HR = 0.46

Overall Survival

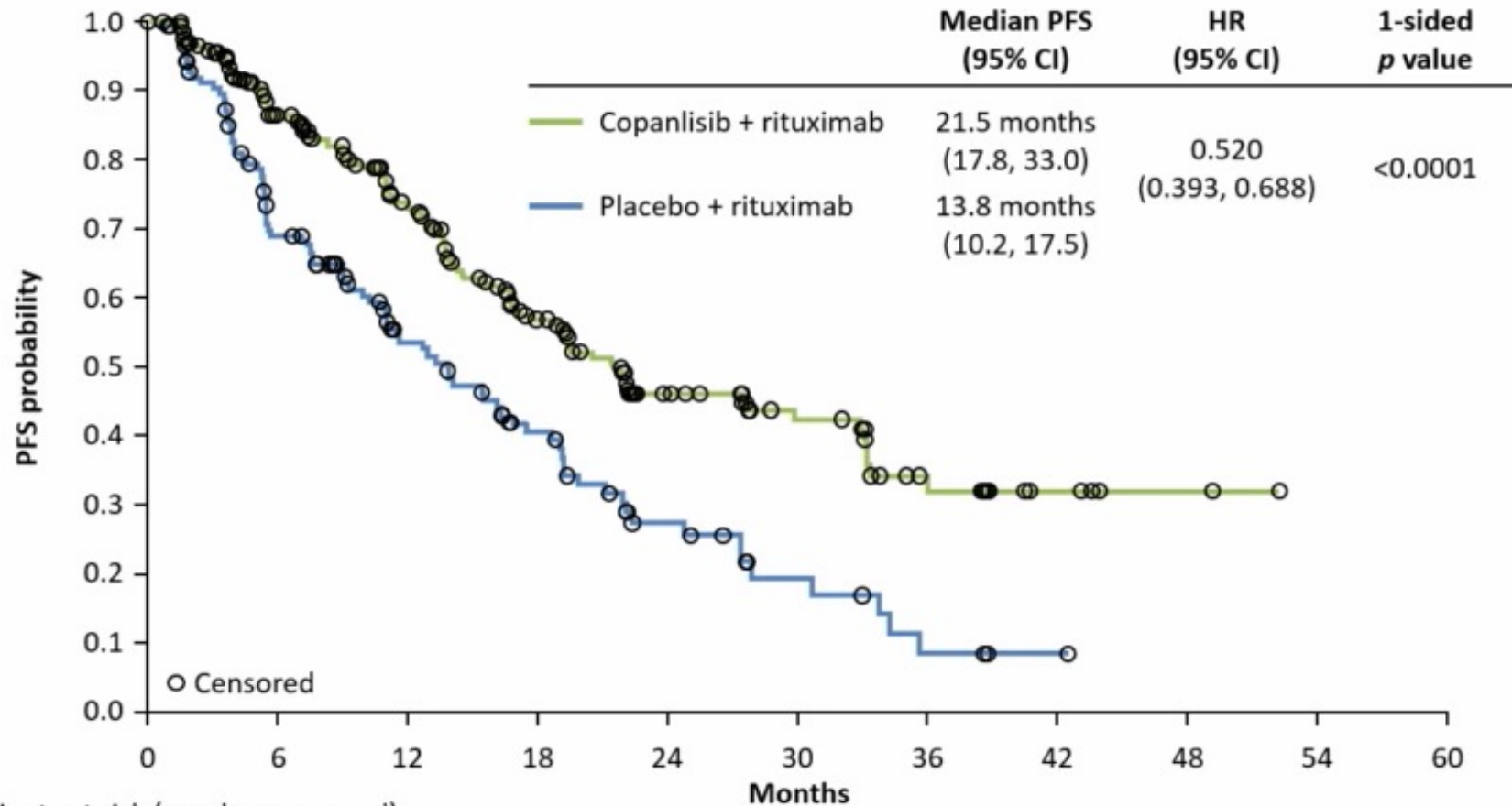


2-year OS

- R² = 93%
- R-placebo = 87%

Median follow-up 28.3 months

CHRONOS-3 in R/R iNHL: PFS



■ Median follow-up
of 19.2 months

Number of patients at risk (number censored)

Copanlisib + rituximab	307 (0)	204 (67)	146 (97)	88 (125)	49 (149)	31 (164)	15 (175)	6 (183)	2 (187)	0 (189)	0 (189)
Placebo + rituximab	151 (0)	85 (26)	53 (41)	33 (49)	16 (56)	8 (60)	3 (61)	1 (63)	0 (64)	0 (64)	0 (64)

PI3K Inhibitors: Emerging Agents

Zandelisib: Phase III COASTAL Study for FL and MZL

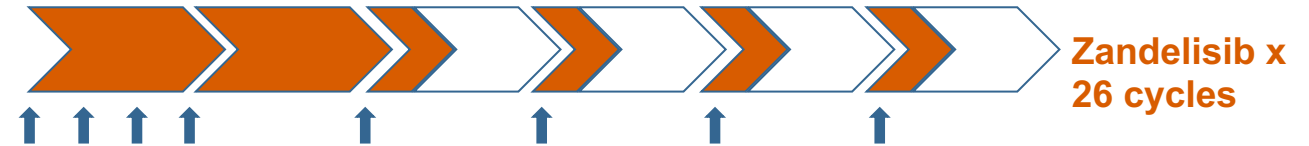
ELIGIBILITY CRITERIA

Major Inclusion Criteria

- Adult male or female subjects
- Histologically confirmed diagnosis of CD20-positive iNHL with histological subtype limited to:
 - FL Grades 1, 2, or 3a
 - MZL (splenic, nodal, or extra-nodal)
- R/R FL or MZL who received ≥ 1 prior line of therapy, which must have included an anti-CD20 antibody in combination with chemotherapy or lenalidomide
- At least one bi-dimensionally measurable lesion > 1.5 cm
- Adequate hematological, renal, and hepatic function
- Eastern Cooperative Oncology Group performance status score 0-1

Major Exclusion Criteria

- Histologically confirmed diagnosis of FL Grade 3b or transformed disease
- Subjects who received both R + bendamustine and R + CHOP (or other anthracycline-containing regimen) as previous lines of therapy, and those who received only single-agent anti-CD20 mAb therapy as a prior line of treatment
- Prior therapy with PI3K inhibitors
- Ongoing or history of drug-induced pneumonitis
- Known lymphomatous involvement of the central nervous system
- Seropositive for or active viral infection with HBV, HCV, or HTLV-1



N = 534 participants

CD20 positive iNHL:

- FL Gr 1, Gr 2, or Gr 3a
 - MZL (splenic, nodal, or extra-nodal)
- ≥ 1 prior lines of therapy*

↑ R 375 mg/m² 4 x weekly in cycle 1,
then Day 1 of Cycles 3-6

➤ **Zandelisib** IDT of 60 mg/day on
Days 1-7 of each 28-day cycle

Rituximab + B (28 D cycles) x 6 or
Rituximab + CHOP (21 D cycles) x 6

Primary endpoints

PFS

Secondary endpoints

ORR, CRR, OS, TTNT, PFS2, PRO, Safety

BGB-3111-212 – ROSEWOOD STUDY



A Phase 2, Multicenter, Open-Label, Randomized Trial for Patients with Relapsed or Refractory Follicular Lymphoma

Eligibility

- Adult patients with histologically confirmed grade 1-3a FL
- Patients with R/R disease, previously treated with ≥ 2 prior systemic treatments including an anti-CD20 antibody and an appropriate alkylator-based combination therapy
- Measurable disease
- ECOG-PS 0-2
- Adequate organ functions
- No prior BTK inhibitor exposure

Stratification factors

- Number of prior lines
- Rituximab refractory status
- Geographic region

ARM A Zanubrutinib plus obinutuzumab N = 140

Until PD/unacceptable toxicity

ARM B Obinutuzumab N = 70

Option to crossover to arm A if PD/SD centrally confirmed at 12 months

Assuming $ORR_A = 0.55$ and $ORR_B = 0.30$, 210 patients will be enrolled in a 2:1 ratio to provide a power of approximately 91% in testing ORR_A versus ORR_B using a normal approximation to binomial distribution with a 2-sided significance level of 0.05 with continuity correction

Primary Endpoint:

ORR assessed by ICR according to Lugano classification

Secondary Endpoints:

- ORR assessed by investigator
- DOR and PFS determined by ICR review and investigator assessment
- Overall survival
- CR and CMR rate assessed by ICR and investigator assessment
- TTR assessed by ICR and investigator assessment
- Patient-reported outcome measured by EORTC QLQ-C30 and EQ-5D-5L questionnaires
- Safety/Tolerability
- Pharmacokinetics parameters (combination arm only)

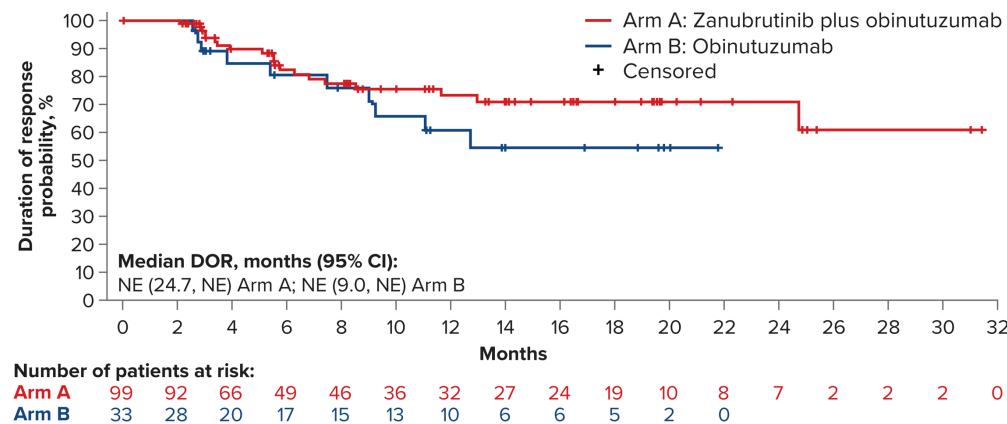
Exploratory Endpoint:

- ORR after crossover to arm A

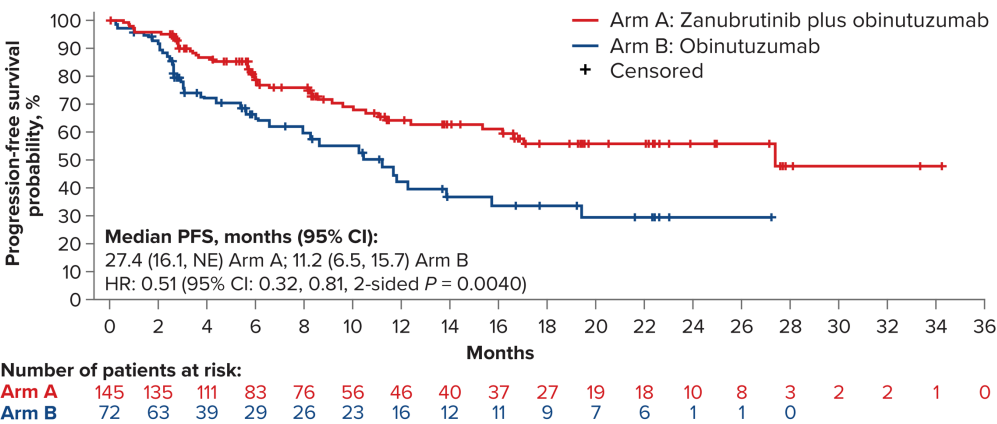
EFFICACY ENDPOINTS: ROSEWOOD STUDY

(ITT ANALYSIS SET)

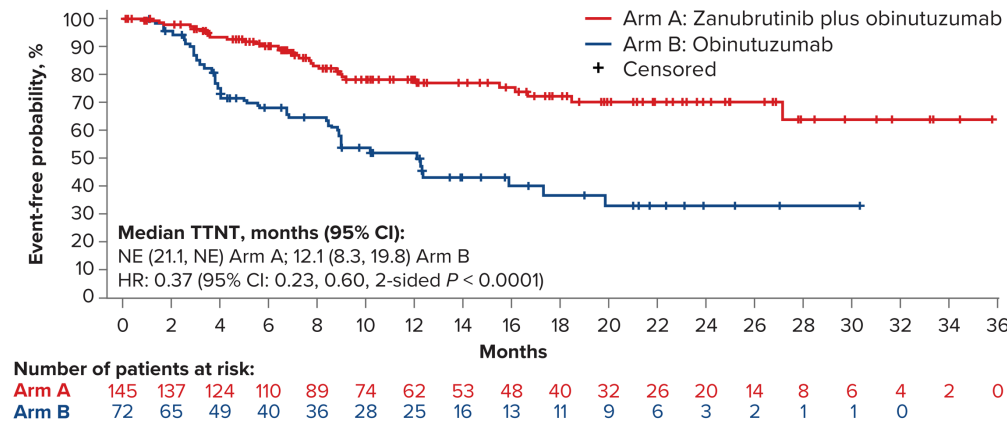
Duration of Response (IRC)



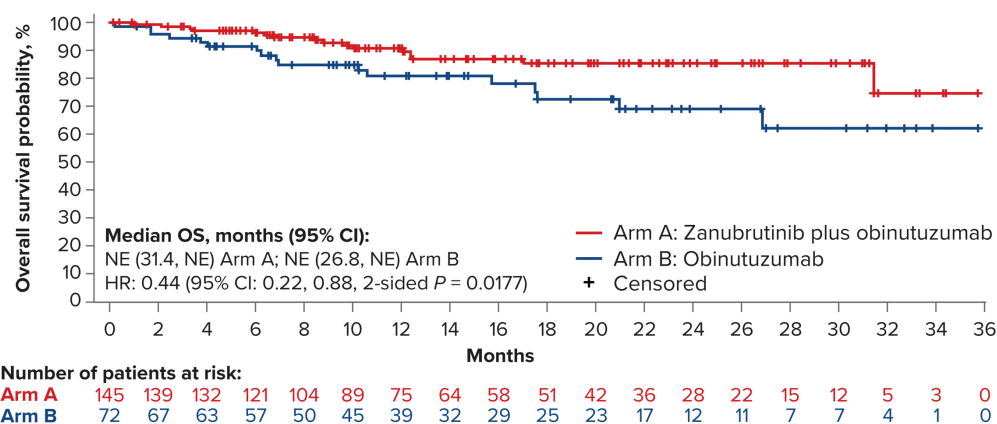
Progression-free survival (IRC)



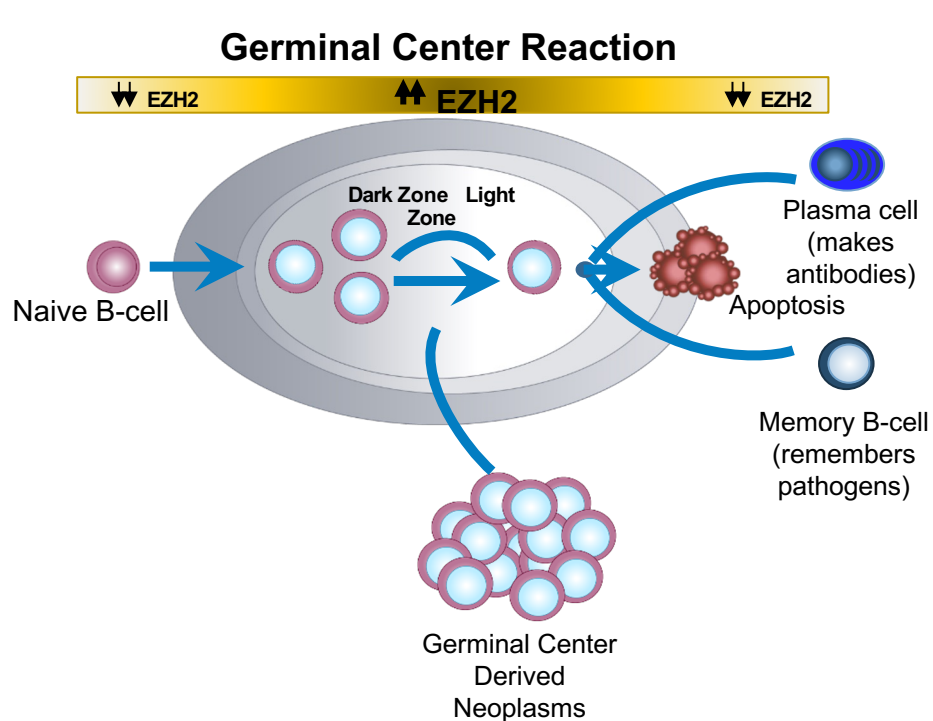
Time to Next Antilymphoma Treatment



Overall survival



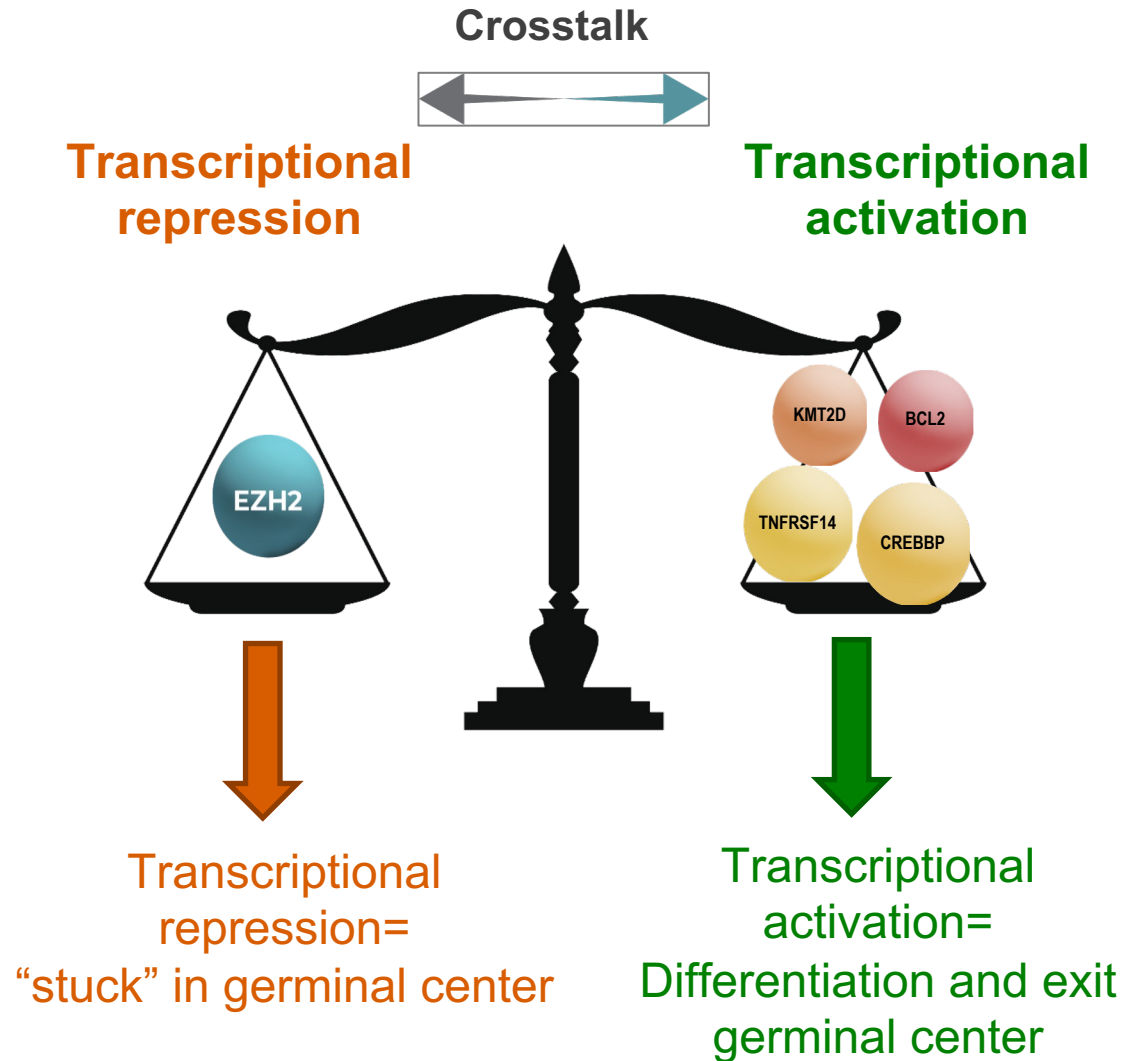
Tazemetostat: Follicular Lymphoma and *EZH2*



EZH2 an epigenetic regulator of gene expression and cell fate decisions¹

EZH2 is required for normal B-cell biology and germinal center formation²

- Oncogenic mutations in *EZH2* suppress exit from germinal state and “lock” B cells in this state thereby transforming into a cancer²



Tazemetostat for R/R FL

Phase 2, Open-Label, Multicenter Study

Response in the MT *EZH2* Cohort

Response in MT <i>EZH2</i> (n=45)	IRC	INV
ORR, n (%) [95% CI ^a]	31 (69) [53, 82]	35 (78) [63, 89]
CR, n (%)	6 (13)	4 (9)
PR, n (%)	25 (56)	31 (69)
SD, n (%)	13 (29)	10 (22)
PD, n (%)	1 (2)	0

- 44 of 45^b (98%) patients with evidence of tumor reduction, by IRC
- mPFS, 13.8 mos (95% CI, 10.7-22.0)

Response in the WT *EZH2* Cohort

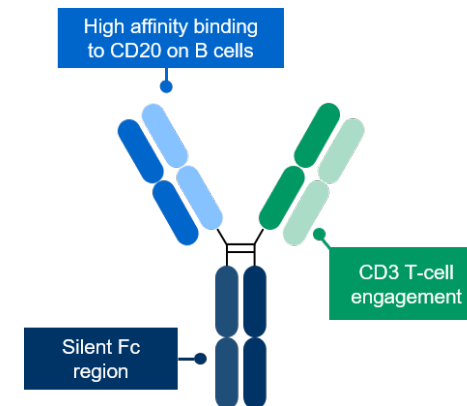
Response in WT <i>EZH2</i> (n=54)	IRC	INV
ORR, n (%) [95% CI ^a]	19 (35) [23, 49]	18 (33) [21, 48]
CR, n (%)	2 (4)	3 (6)
PR, n (%)	17 (31)	15 (28)
SD, n (%)	18 (33)	16 (30)
PD, n (%)	12 (22)	16 (30)
NE/missing/unknown,^b n (%)	5 (9)	4 (7)

- 37 of 49^c (69%) patients with evidence of tumor reduction, by IRC
- mPFS, 11.1 mos (95%CI, 3.7-`14.6)

^aBy Brookmeyer and Crowley method. ^b4 subjects with missing post-baseline values and 1 subject with poor image. ^cBest overall response based on Cheson (2007) criteria for lymphomas.

Mosunetuzumab: CD20xCD3 Bispecific

- Single-arm, pivotal Phase II expansion in patients with R/R FL and ≥ 2 prior therapies

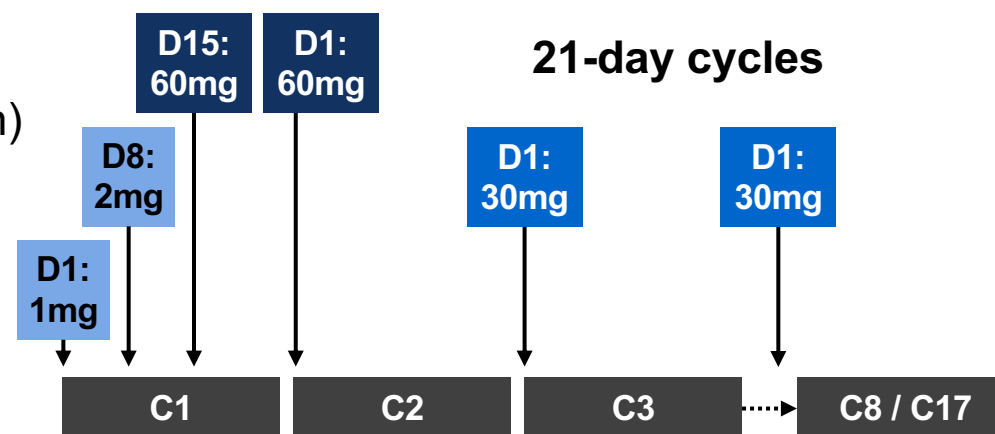


Key inclusion criteria

- FL (Grade 1–3a)
- ECOG PS 0–1
- ≥ 2 prior regimens, including
 - ≥ 1 anti-CD20 Ab
 - ≥ 1 alkylating agent

Mosunetuzumab administration

- Q3W intravenous administration
- C1 step-up dosing (CRS mitigation)
 - 8 cycles if CR after C8
 - 17 cycles if PR/SD after C8
- Fixed-duration treatment**
- No mandatory hospitalization**



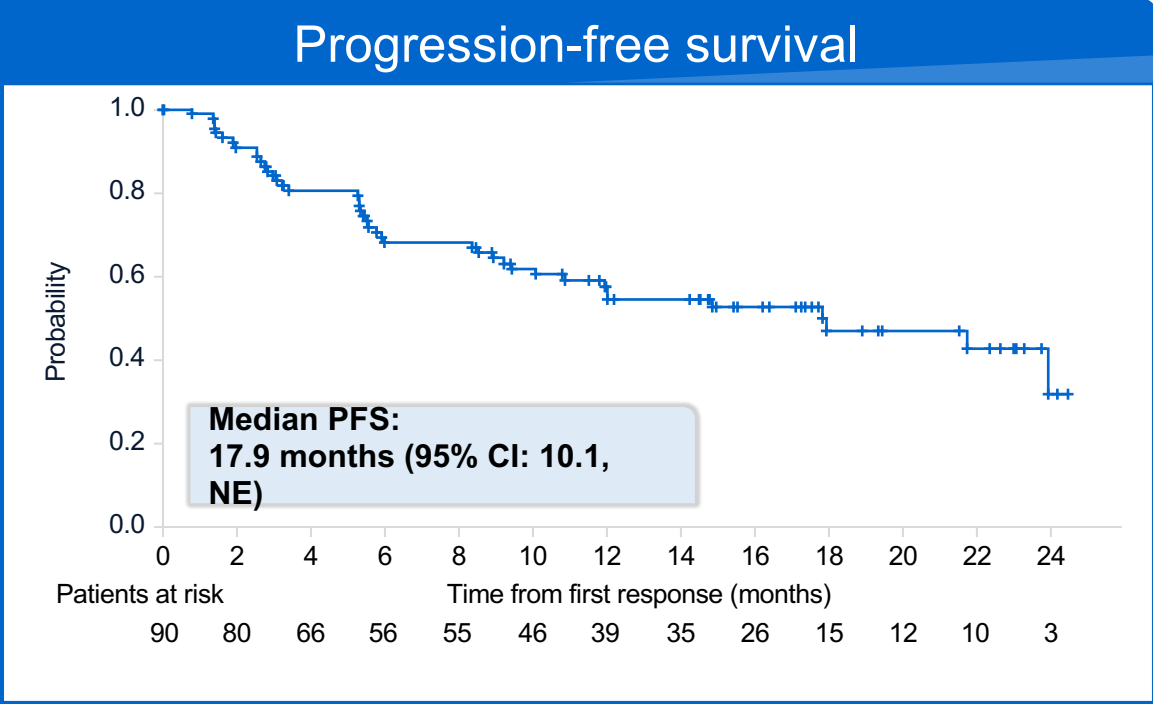
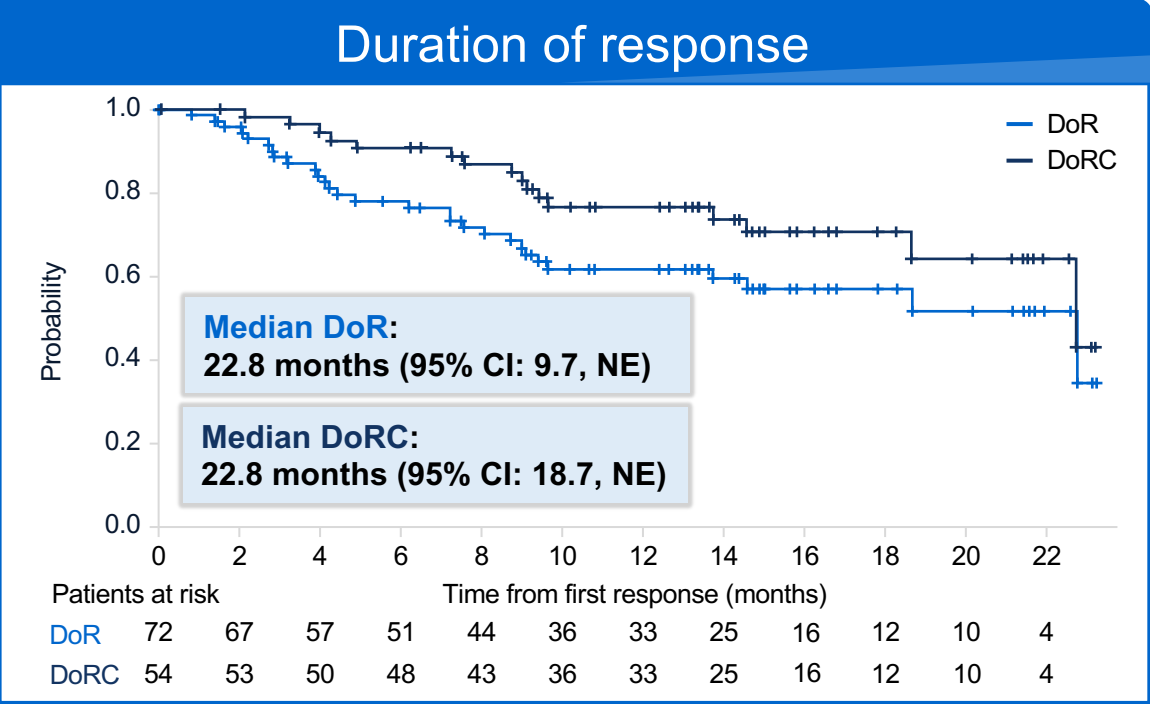
Endpoints

- Primary: CR (best response) rate by IRF* – assessed vs 14% historical control CR rate¹
- Secondary: ORR, DoR, PFS, safety and tolerability

*assessed by CT and PET-CT using Cheson 2007 criteria²; Ab, antibody; CR, complete response; CT, computed tomography; D, Day; DoR, duration of response; IRF, independent review facility; ORR, objective response rate; PET, positron emission tomography; PFS, progression-free survival; PR, partial response; Q3W, once every 3 weeks; SD, stable disease

1. Dreyling et al. J Clin Oncol 2017;35:3898–905
2. Cheson et al. J Clin Oncol 2007;25:579–86

Duration of response and progression-free survival

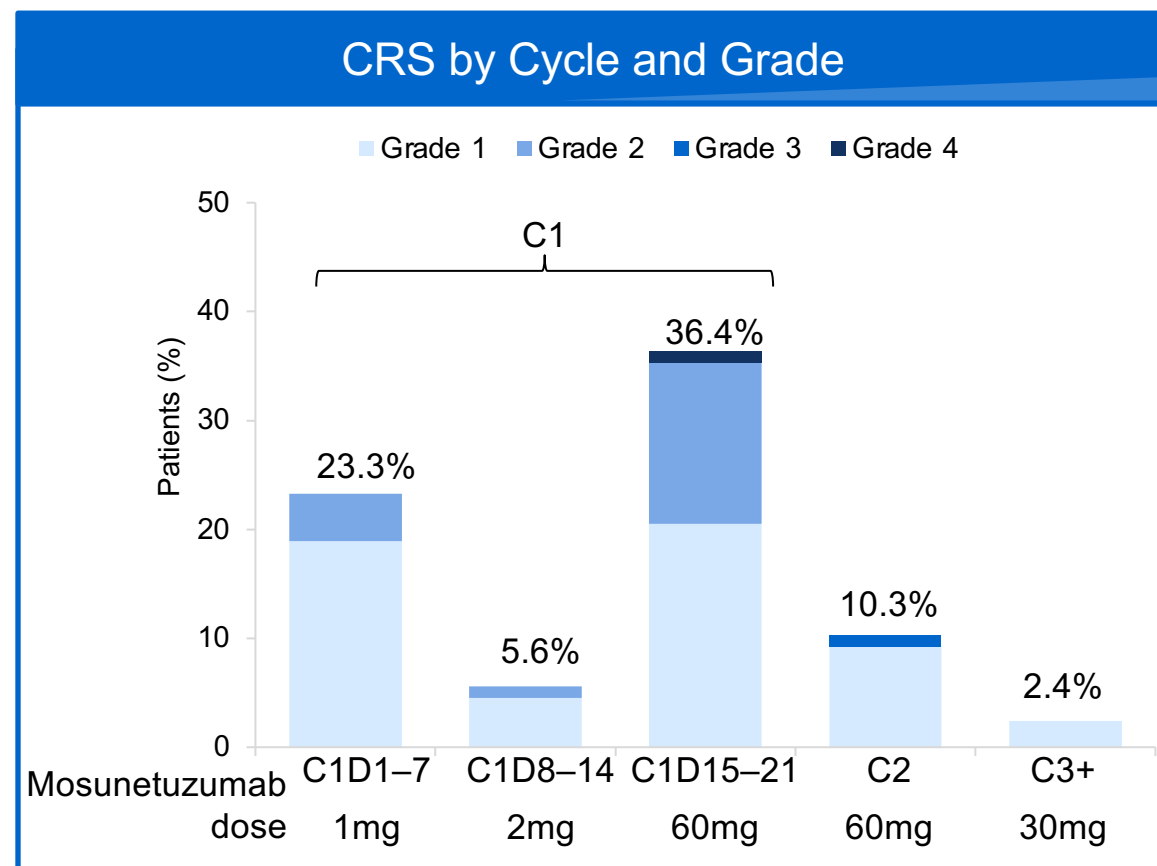


	DoR	DoRC
Median time to first response, mo (range)	1.4 (1.1, 8.9)	3.0 (1.1, 18.9)
12-month event-free rate, % (95% CI)	62% (50%, 74%)	76% (65%, 88%)
18-month event-free rate, % (95% CI)	57% (44%, 70%)	70% (57%, 84%)

DoRC, duration of response in complete responders; DoR, duration of response in responders; mo, month; NE, not estimable

Cytokine release syndrome

N (%)	N=90
CRS (any Grade)*	40 (44.4%)
Grade 1	23 (25.6%)
Grade 2	15 (16.7%)
Grade 3	1 (1.1%)
Grade 4	1 (1.1%)†
Median time to CRS onset, hours (range)	
C1D1	5.2 (1.2–23.7)
C1D15	26.6 (0.1–390.9)
Median CRS duration, days (range)	3 (1–29)
Corticosteroids for CRS management	10 (11.1%)



- CRS was predominately low Grade and in Cycle 1. All events resolved.**

*assessed using ASTCT criteria¹; †patient with leukemic phase FL

MOSUN+LENALIDOMIDE PHASE 1B

Key inclusion criteria

- CD20+ FL Grade 1–3a
- R/R to ≥ 1 prior chemo-immunotherapy regimen including an aCD20 antibody; prior lenalidomide allowed
- ECOG PS 0–2

Objectives

- Primary: safety and tolerability of M-Len
- Other: efficacy (response, durability of response) and pharmacokinetics

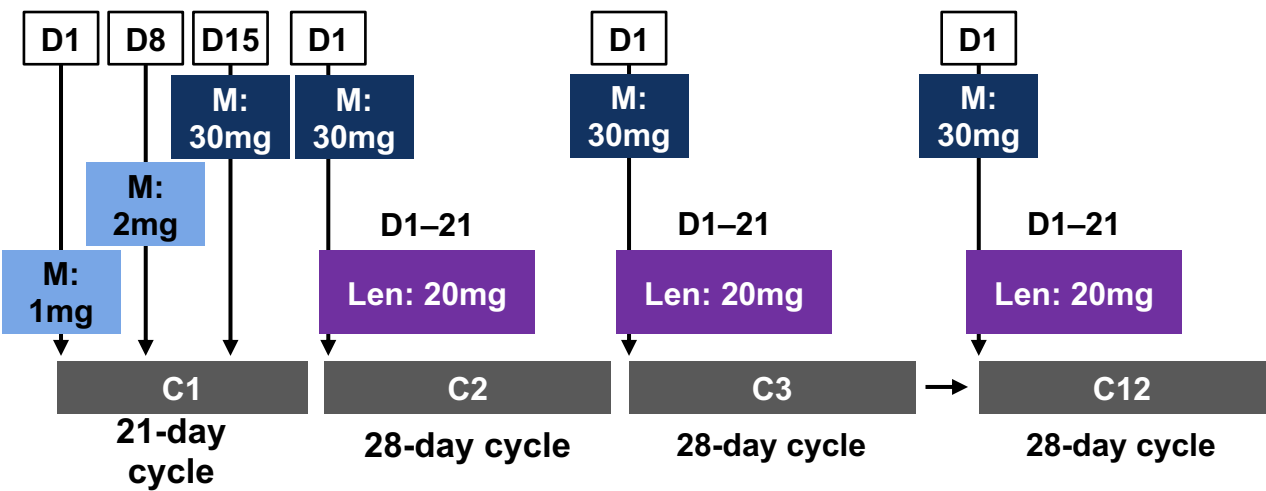
M-Len administration

Mosunetuzumab

- IV administration for 12 cycles (C1: Q3W; C2–12: Q4W)
- C1 step-up dosing (CRS mitigation)
- No mandatory hospitalization

Lenalidomide

- Oral administration for 11 cycles (C2–12)

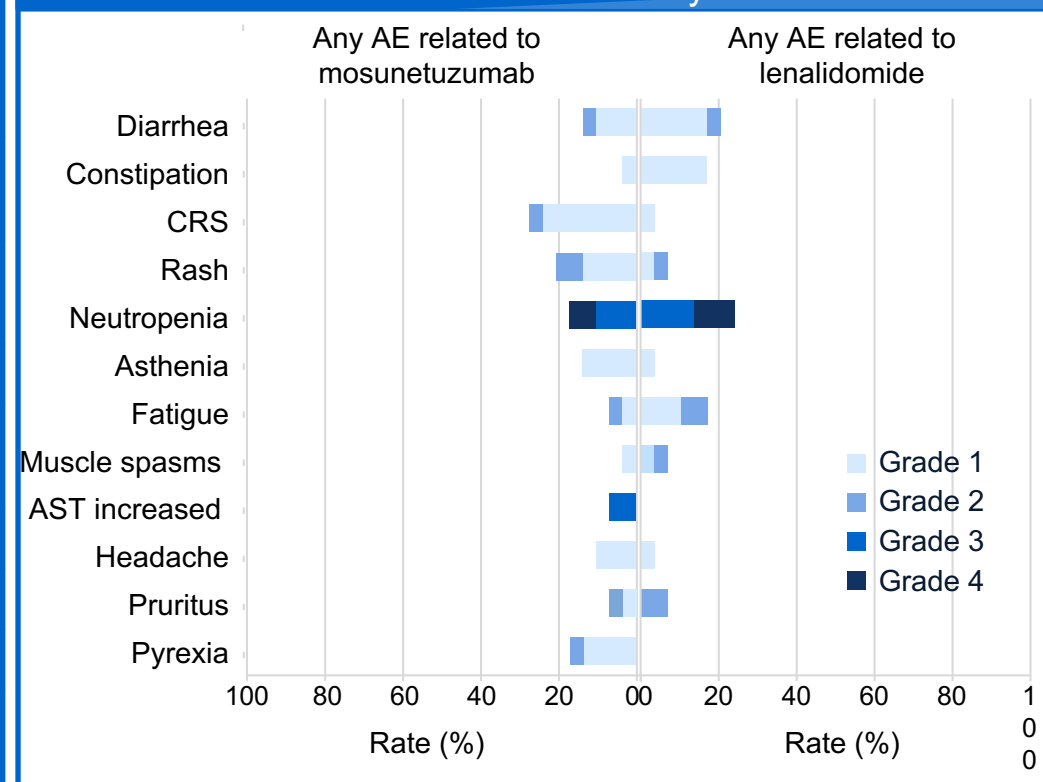


Adverse event summary

- Median duration of follow-up: 5.4 months (range: 3–12)

	N=29
AE	29 (100%)
Related to mosunetuzumab / lenalidomide	27 (93.1%) / 23 (79.3%)
Grade 3–4 AE	13 (44.8%)
Related to mosunetuzumab / lenalidomide	1 (3.4%) / 1 (3.4%)
Serious AE	9 (31.0%)
Related to mosunetuzumab / lenalidomide	6 (20.7%) / 1 (3.4%)
Grade 5 (fatal) AE	0
AE leading to mosunetuzumab / lenalidomide discontinuation	0 / 1 (3.4%)
AE leading to mosunetuzumab dose delay	6 (20.7%)
AE leading to lenalidomide dose reduction	2 (6.9%)
AE leading to lenalidomide temporary dose interruption	6 (20.7%)
AE leading to lenalidomide dose reduction AND temporary dose interruption	4 (13.7%)

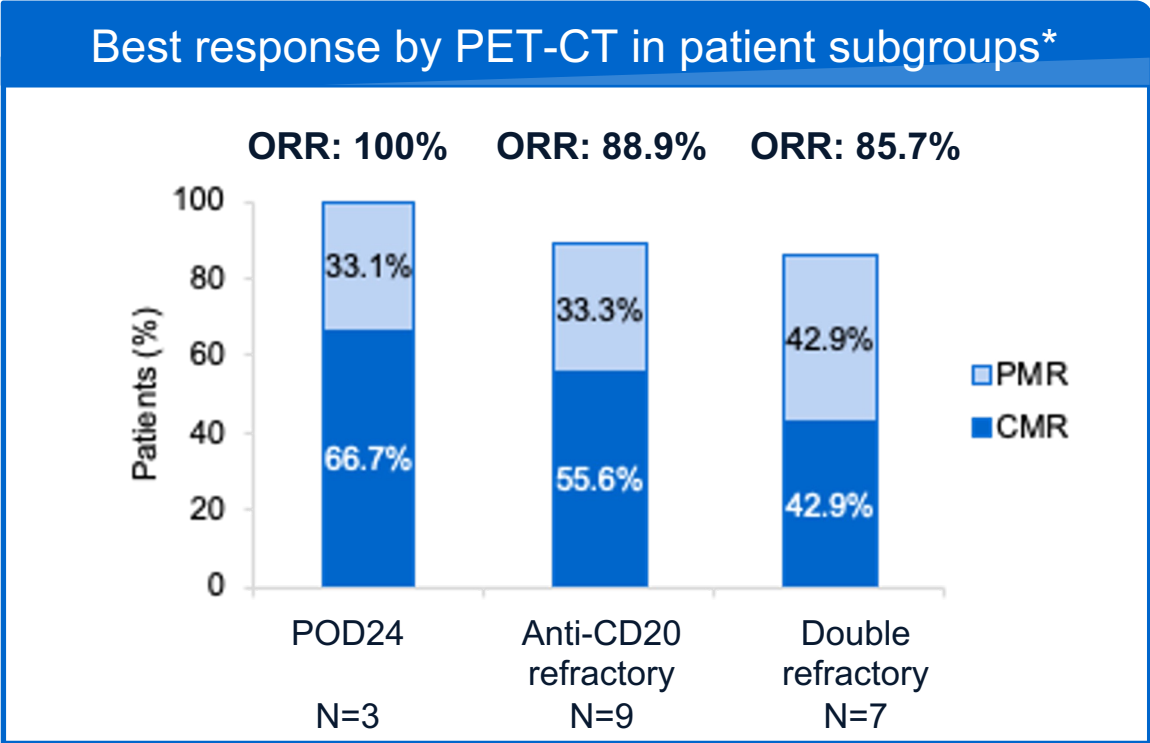
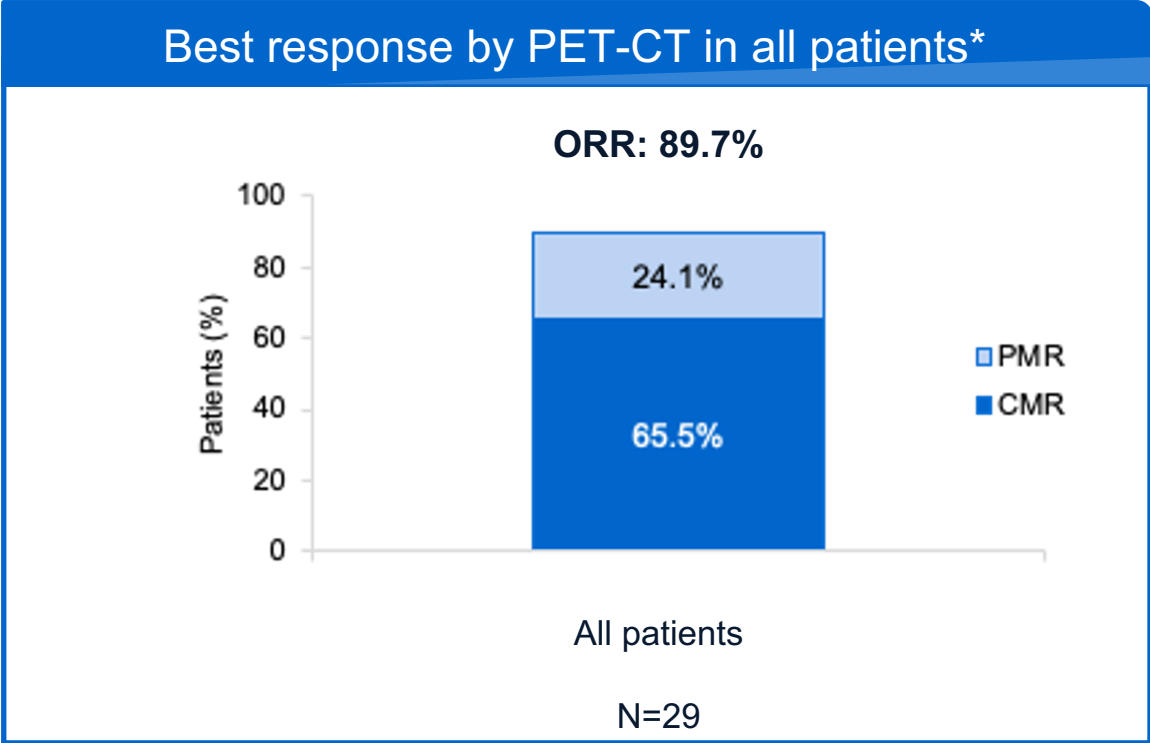
AEs with ≥15% incidence overall and corresponding rates of treatment-related events by Grade



- M-Len had a favorable safety profile. No AEs led to mosunetuzumab discontinuation.**

MOSUN+LEN PHASE 1B EFFICACY

- Median time to first / best response: 2.5 mo (range: 1.4–5.3) / 2.5 mo (range: 1.4–10.7)



- **High ORR and CMR rate in overall population and in patients with high-risk disease**

*assessed by investigators using Lugano 2014 criteria¹; CMR, complete metabolic response; mo, months; ORR, overall response rate; PET-CT, positron emission tomography-computed tomography; PMR, partial metabolic response

1. Cheson et al. J Clin Oncol 2014;32:3059–67

Bispecific Ab Epcoritamab + R2 in R/R FL

Phase I/II EPCORE NHL-2 Trial

N=74

- Adults with R/R CD20+ FL; grade 1-3A
- Stage II-IV
- Treatment needed based on symptoms or disease burden per GELF criteria
- Measurable disease by CT/MRI
- Adequate organ function
- ECOG PS 0-2

Dose Escalation (n = 6)

Cohort 2a
Epcoritamab 24 or 48 mg SC*
QW for C1-3, Q2W for C4-9,
Q4W for C10+
+
R² for C1-12[†]

Dose Expansion (n = 68)

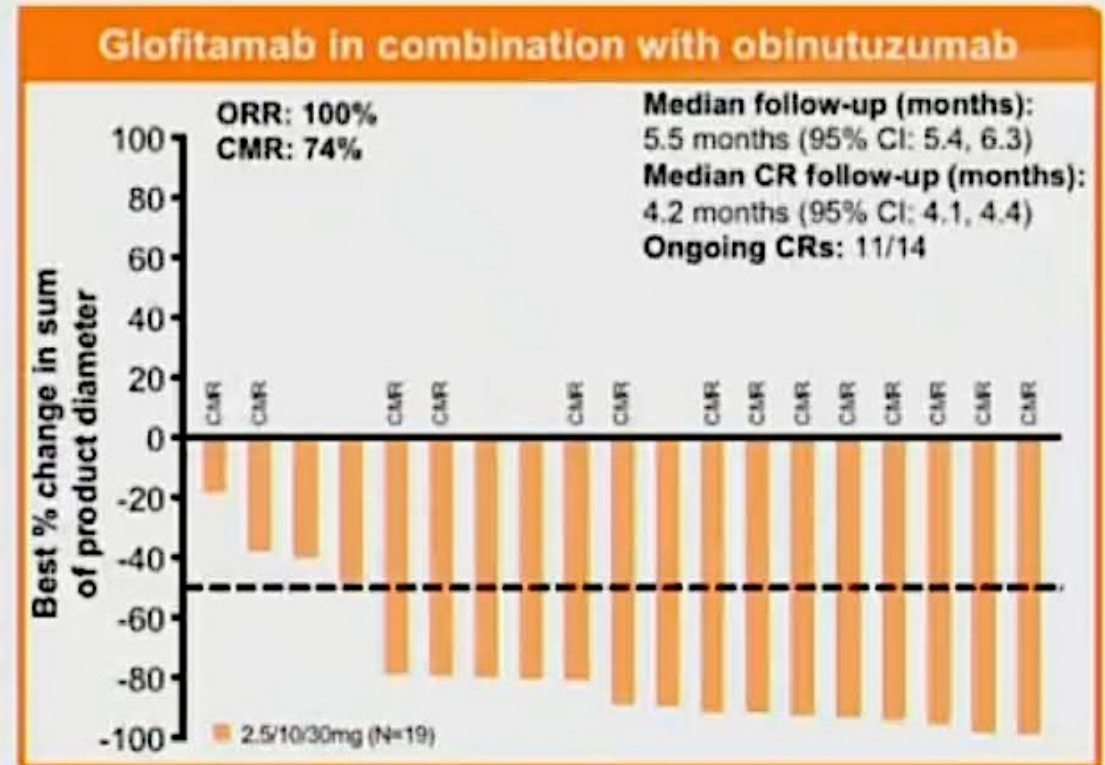
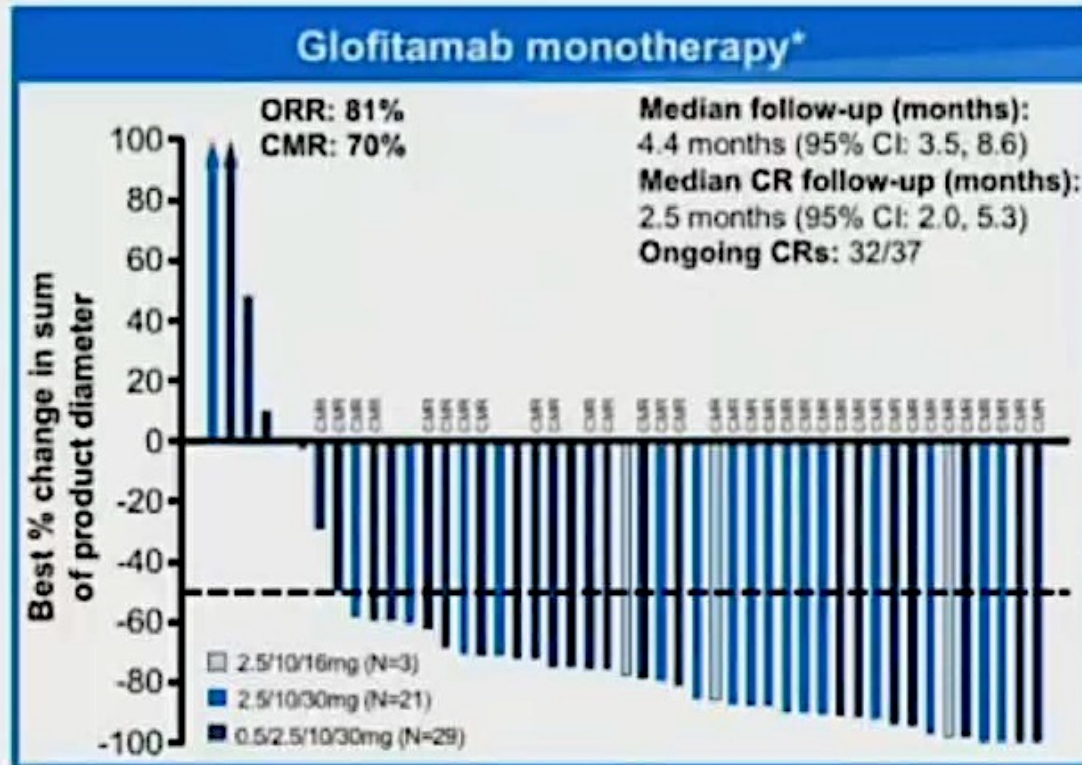
Cohort 2a
Epcoritamab 48 mg SC*
QW for C1-3, Q2W for C4-9, Q4W for C10+
+
R² for C1-12[†]

Cohort 2b
Epcoritamab 48 mg SC*
QW C1-2, Q4W for C3+
+
R² for C1-12[†]

Best Overall Response,* n (%)	Arm 2a		Arm 2b
	At Any Time (n = 28 [†])	At 6 Wk (n = 27)	At 6 Wk (n = 28)
ORR	28 (100)	25 (93)	26 (93)
• CMR	27 (96)	19 (70)	17 (61)
• PMR	1 (4)	6 (22)	9 (32)
SD	0	2 (7)	1 (4)
PD	0	0	1 (4)

- Half of patients experienced CRS, which was predominantly low grade and resolved in all cases
- 1 patient experienced ICANS (grade 2) that resolved

Phase I/II Study of Glofitamab as Monotherapy or in Combination with Obinutuzumab for R/R FL



• Deep responses observed across glofitamab dosing regimens; most complete responses were ongoing

- Myelosuppression was more common with the combination
- CRS rates were high and comparable, and cases were mainly low grade

Conclusions

- Outcomes for the majority of patients with FL are favorable.
- Balancing the goals of therapy with patient specific characteristics generally informs treatment selection given the number of therapies available.
- An unmet need is identifying optimal sequencing of therapy or predictive biomarkers.
- The goal of treatment is to achieve a normal life expectancy without negatively impacting quality of life.

Discussion Question

Outside of a clinical trial setting, what is your usual third line systemic therapy for a patient with follicular lymphoma who received BR followed by R²?

Copanlisb

Tazemetostat

Tazemetostat but only EZH2-mutated

Other

Update on Zandelisib Development Outside of Japan

Press Release – December 5, 2022

“Today [it was] announced that after receiving the most recent guidance from a late November meeting with the US Food and Drug Administration (FDA), the companies are discontinuing global development of zandelisib outside of Japan for B-cell malignancies. [The company] is continuing the ongoing clinical trials including Phase 2 MIRAGE study evaluating Japanese patients with relapsed or refractory indolent B-cell non-Hodgkin lymphomas and will explore the potential for a submission to Japanese health authorities based on data from the MIRAGE and TIDAL clinical trials.

‘Based on the most recent guidance received from the FDA at a late November meeting, we have jointly decided to discontinue development of zandelisib outside of Japan. We are very disappointed to share this decision in light of our belief in the potential of zandelisib to benefit patients and meet the ongoing need for new options to treat relapsed or refractory indolent non-Hodgkin lymphomas,’ said Daniel P Gold, PhD, president and chief executive officer. ‘However, in light of FDA’s guidance, we no longer believe clinical development can be completed within a time period that would support further investment, or with sufficient certainty of the regulatory requirements to justify continued global development efforts.’”

Module 3: Hodgkin Lymphoma (HL) — Dr Smith

Case Presentation: 80-year-old woman with newly diagnosed classical Hodgkin lymphoma

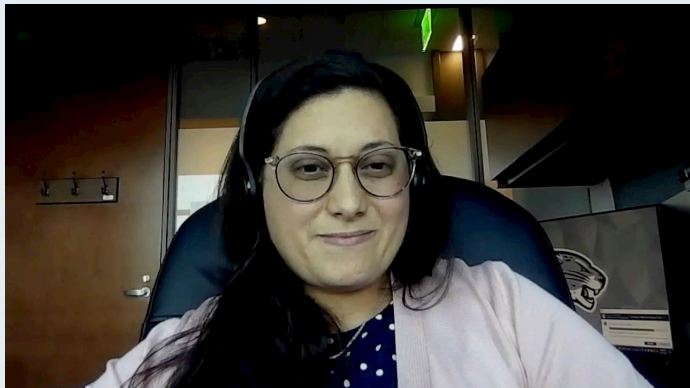


Dr KS Kumar (Trinity, Florida)



**Dr Susmitha Apuri
(Lutz, Florida)**

Case Presentation: 37-year-old woman with newly diagnosed classical Hodgkin lymphoma



**Dr Amany Keruakous
(Augusta, Georgia)**

Case Presentation: 60-year-old man with newly diagnosed Stage IV classical Hodgkin lymphoma who receives BV + AVD



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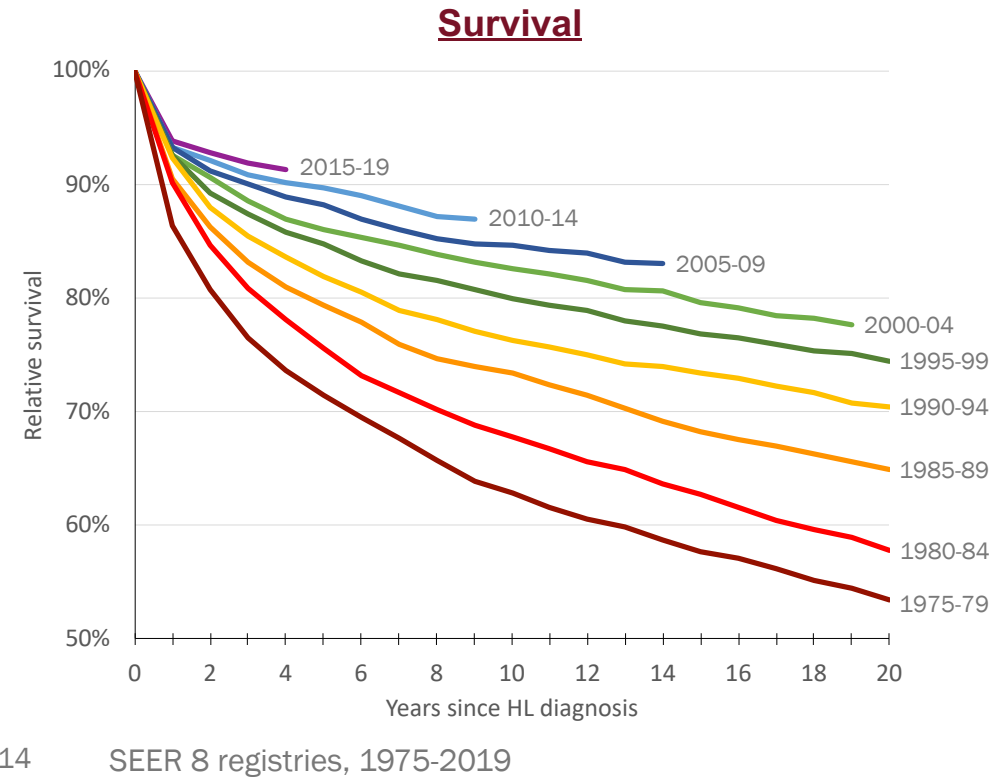
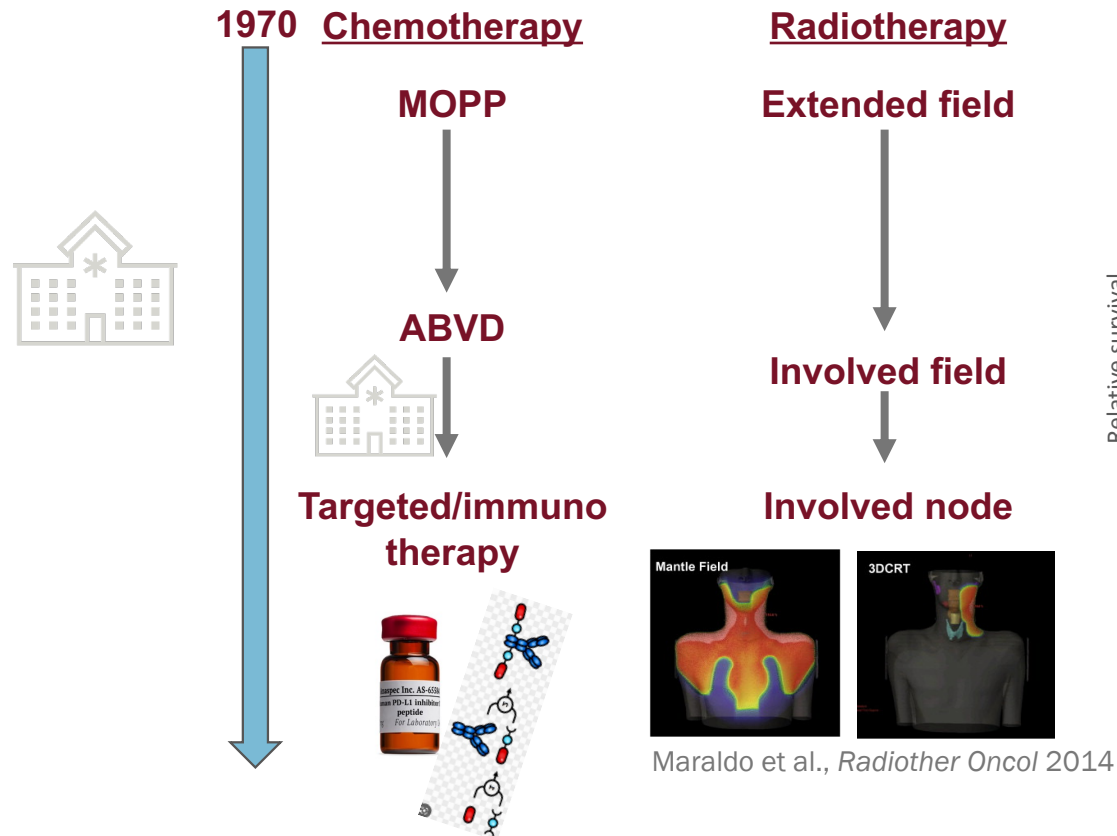
HODGKIN LYMPHOMA

Sonali M. Smith, MD FASCO
Elwood V. Jensen Professor of Medicine
Chief, Section of Hematology/Oncology
Co-Leader, Cancer Service Line
The University of Chicago

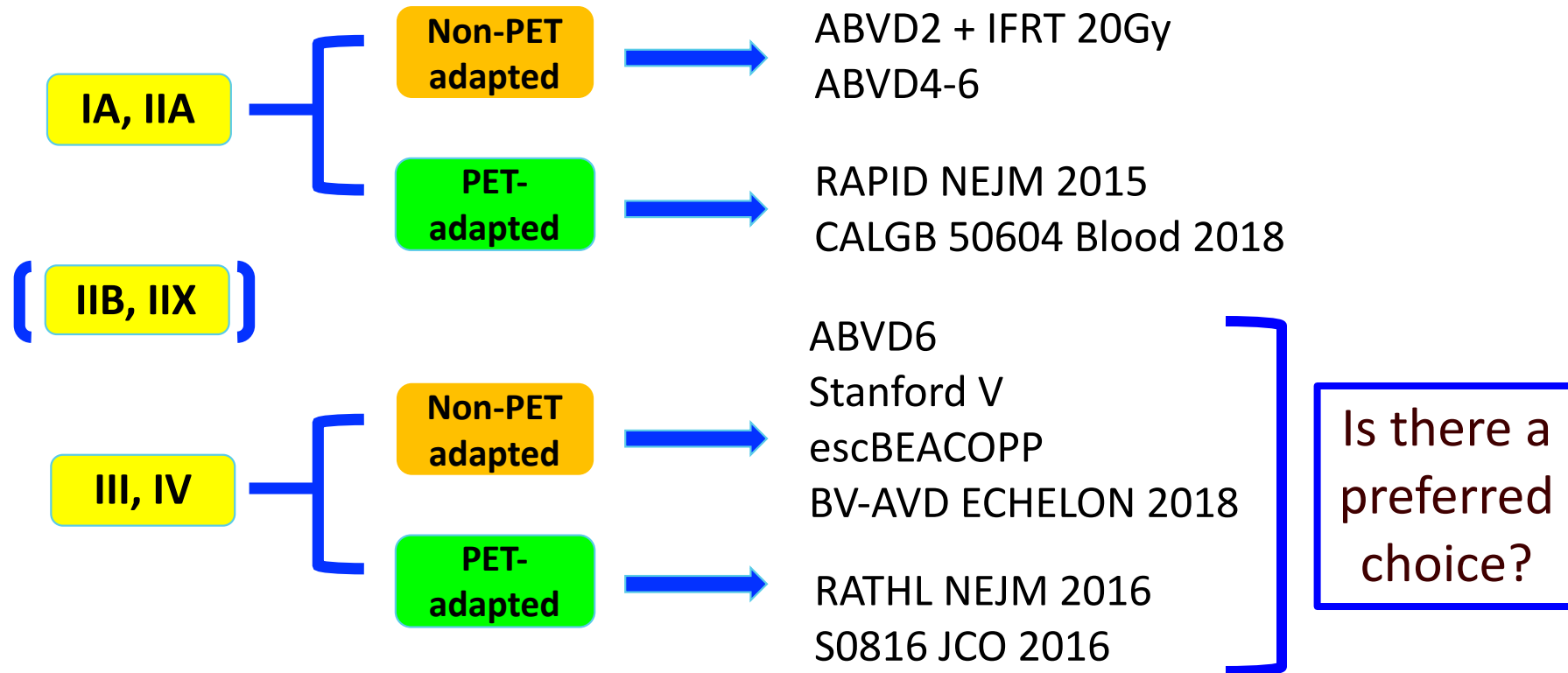
Hodgkin Lymphoma

- Long-term follow-up from the Phase III ECHELON-1 trial of first-line brentuximab vedotin (BV) with AVD for advanced classical HL
- Early findings with BV-based therapy for early-stage, unfavorable-risk HL
- Available data with BV for older patients with newly diagnosed advanced HL
- Mechanism of action of and available efficacy and safety findings with camidanlumab tesirine for patients with R/R HL
- Other promising investigational strategies for patients with HL (eg, novel immunotherapeutic strategies, CAR T-cell therapy)

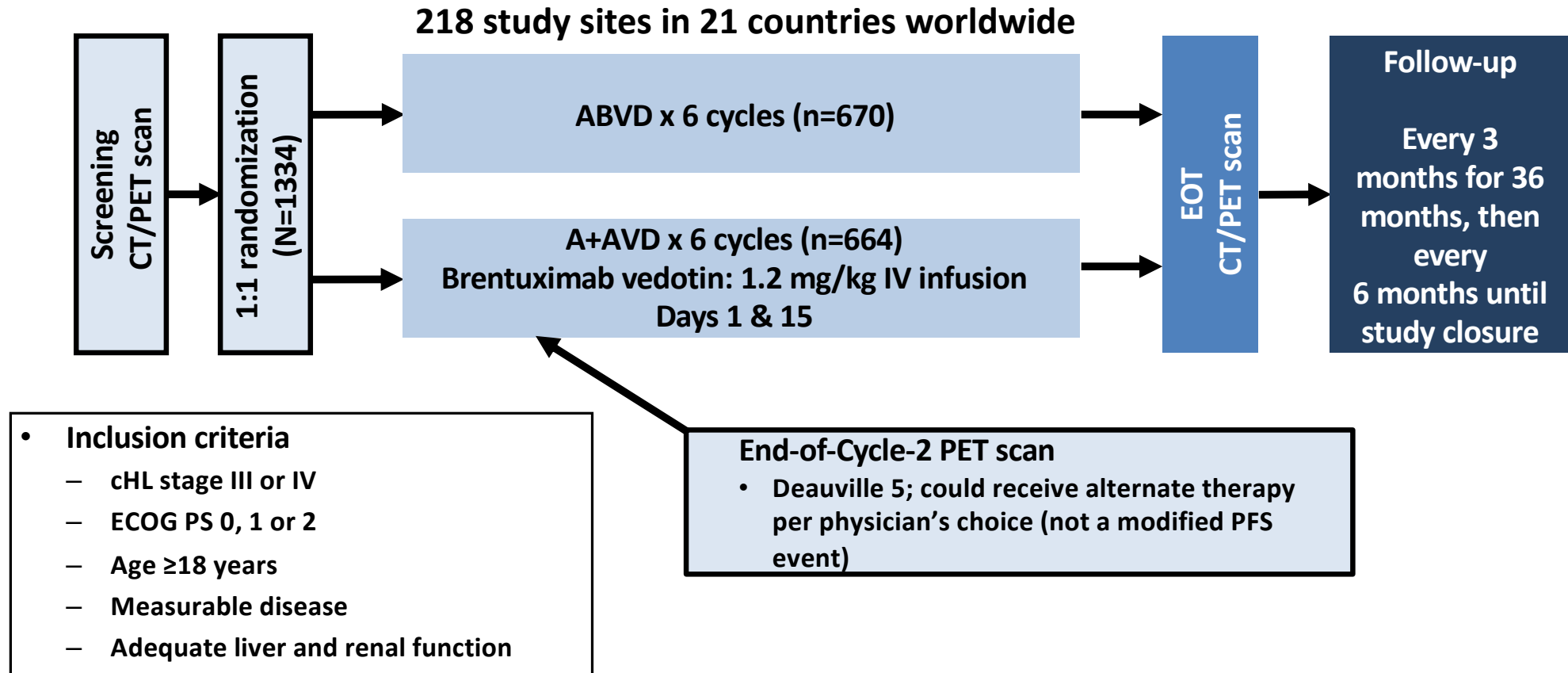
Evolution of Hodgkin Lymphoma Treatment



Hodgkin lymphoma: frontline standard treatment approach can be PET-adapted or non PET-adapted



ECHELON-1: BV-AVD vs. ABVD (not PET-adapted)

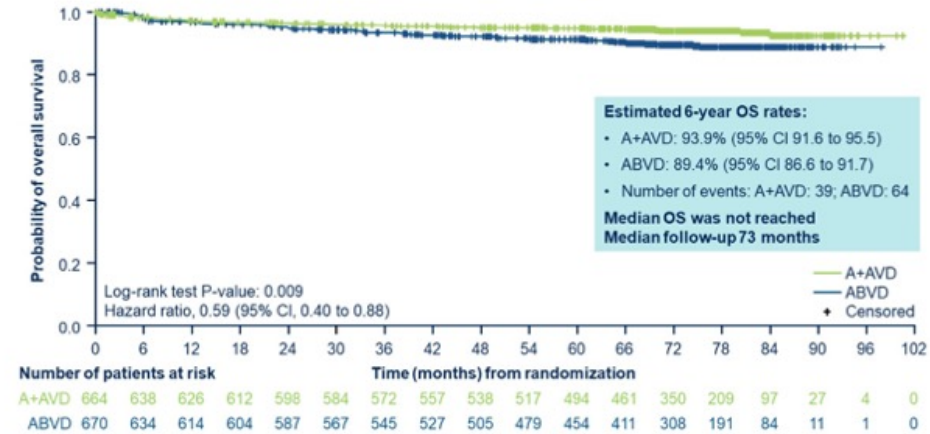


ECHELON-1 results (73m median f/u)

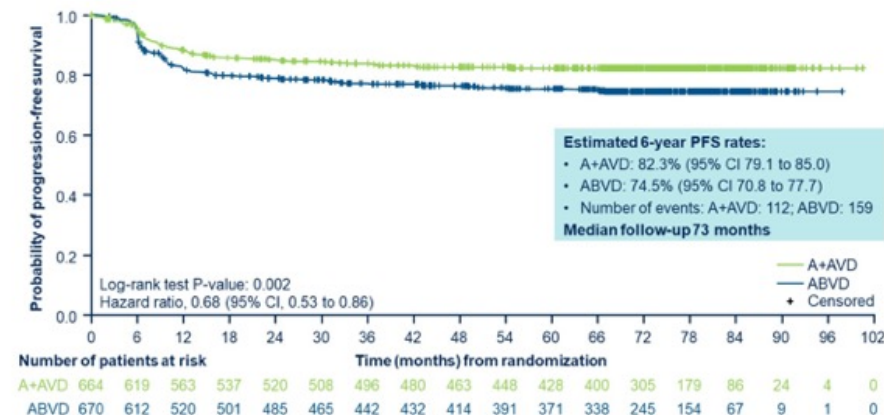
BV-AVD arm

- Fewer disease- or treatment-related progression and deaths
- Fewer second malignancies and fewer deaths due to second malignancies
- More reported pregnancies (113 vs. 78)
- 86% of pts had resolution of peripheral neuropathy symptoms

A+AVD significantly improved OS with a 41% reduction in risk of death compared with ABVD

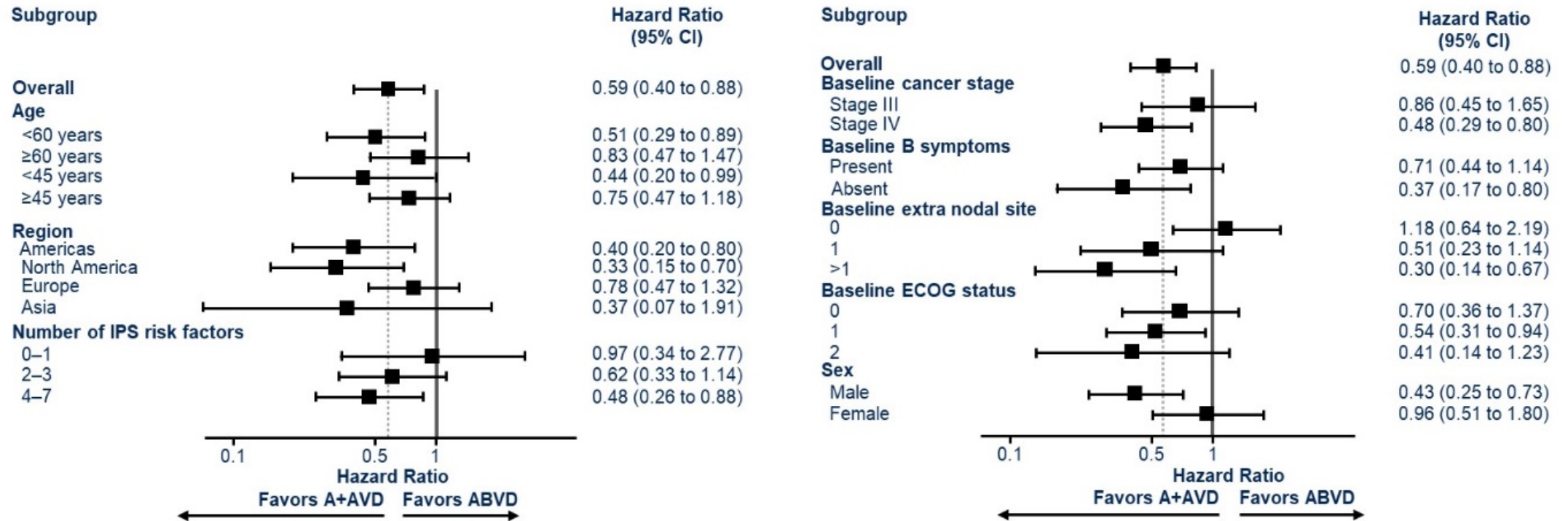


A+AVD reduced the risk of progression or death by 32% when compared with ABVD



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OS benefit across subgroups

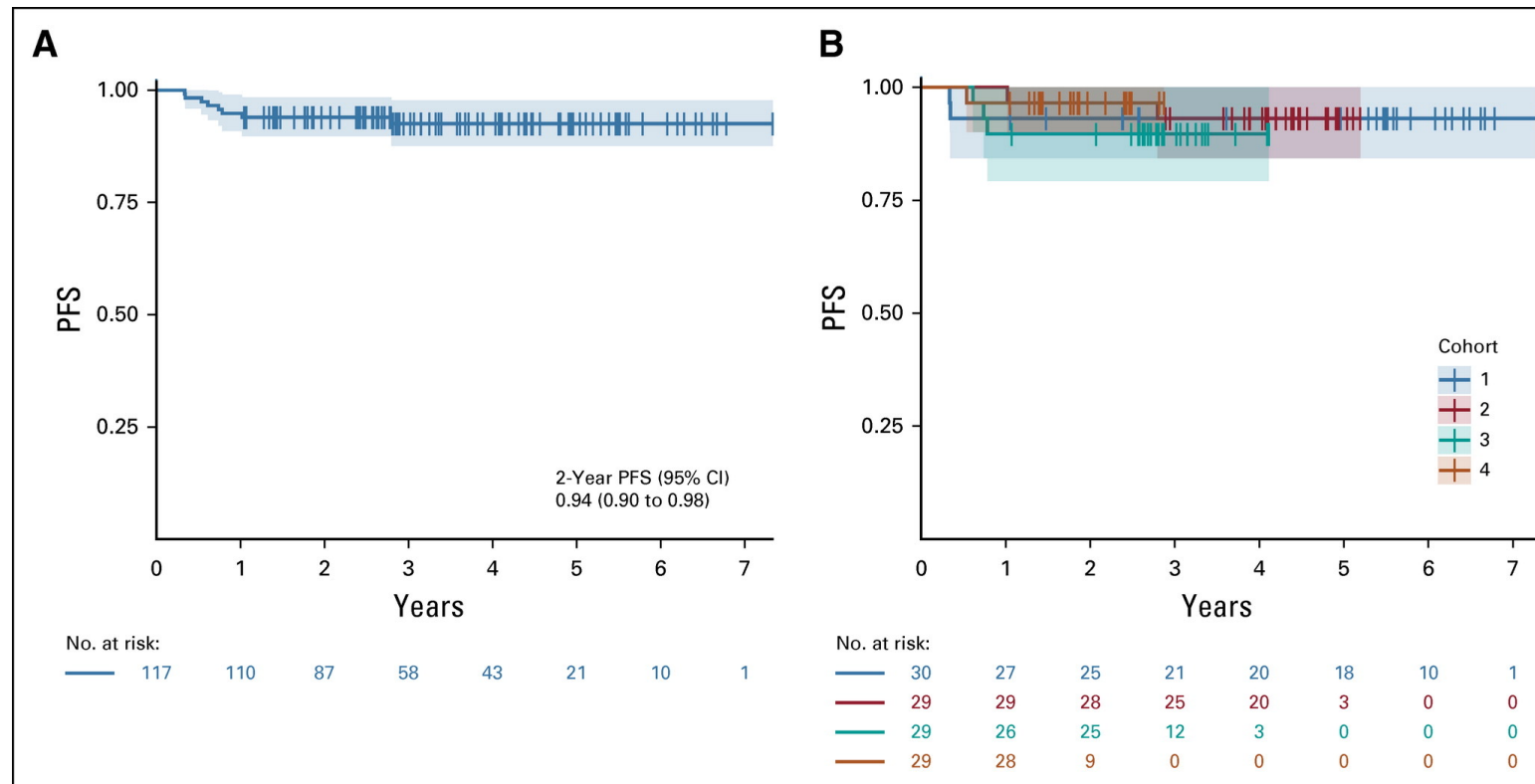


- The OS benefit with A+AVD was preserved in a multivariable analysis when simultaneously adjusting for baseline demographic and disease factors (HR 0.53; 95% CI, 0.34 to 0.83)
 - Age, non-white race, ECOG performance status score, and PET2 status were identified as the covariates with greatest evidence of association with overall survival

BV-based regimens in limited stage cHL

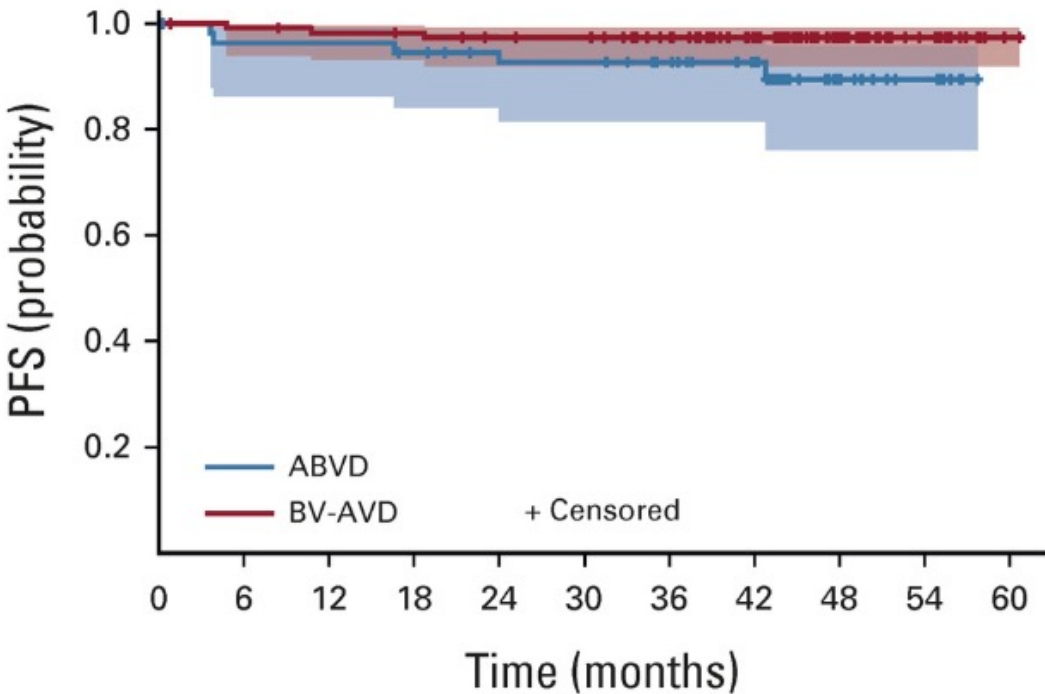
Early stage cHL with unfavorable features (including bulky disease)

BV-AVD x 4 → if PET neg → 3 RT cohorts
1 no RT cohort



N=117

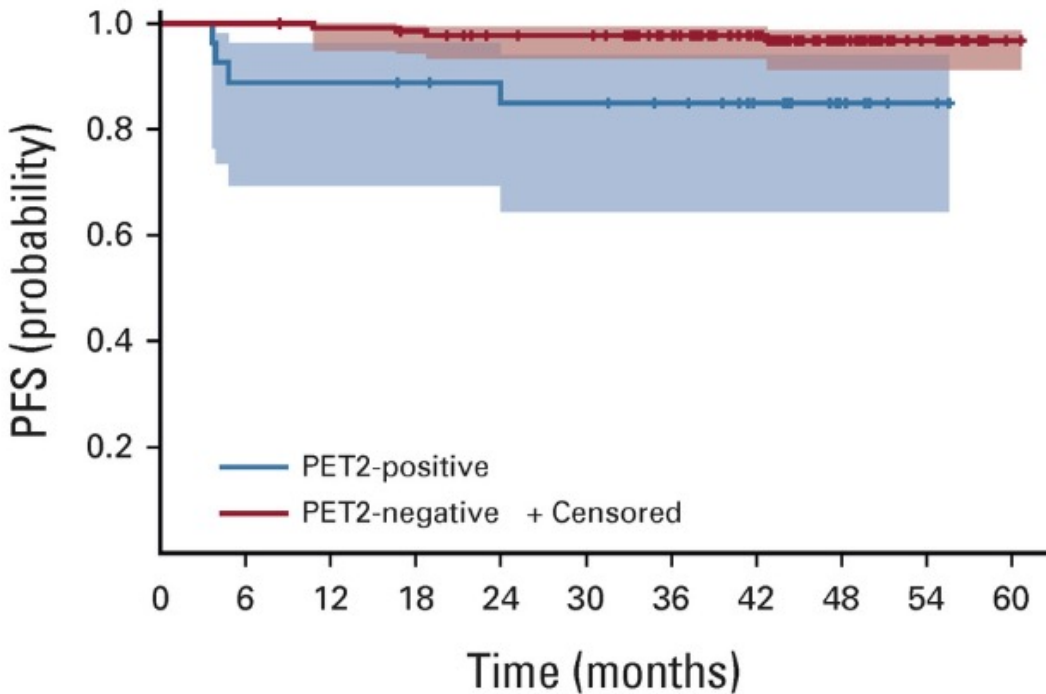
RP2 trial of BV-AVD v. ABVD (2:1) in limited stage unfavorable cHL (LYSA-FIL-EORTC Intergroup): BREACH trial



No. at risk:

ABVD	57	53	53	51	47	47	42	33	15	7	0
BV-AVD	113	111	109	108	105	104	97	80	44	17	2

PFS by treatment arm



No. at risk:

PET2-positive	27	24	24	23	21	21	19	14	7	2	0
PET2-negative	136	136	134	132	127	126	116	95	50	21	1

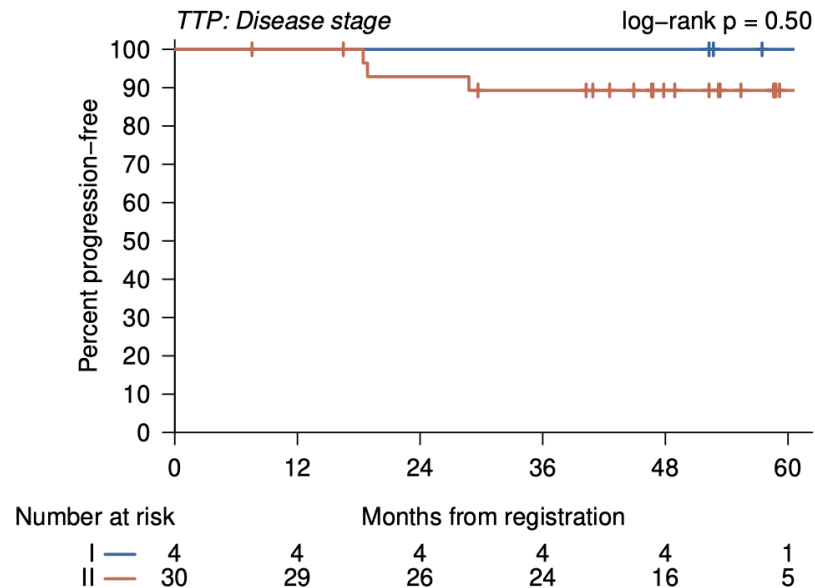
PFS by PET2 status

If BV is used, can vinblastine be omitted? Can nivo be added?

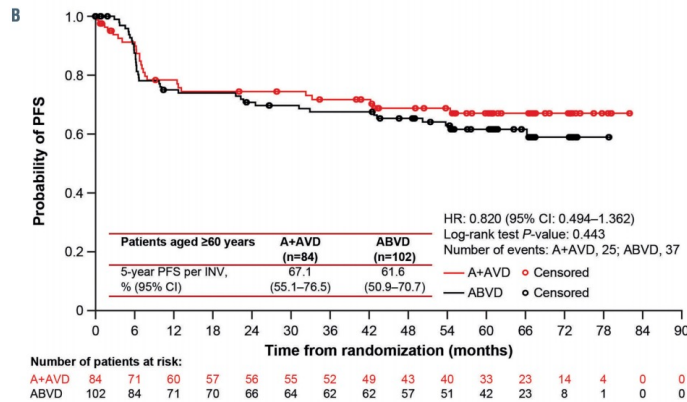
BV plus AD x 4-6 cycles (N=34)
PET-adapted phase 2 trial
non-bulky, limited st dz
Med f/u 53m

BV plus nivo plus AD (AN-AD) x 4
non-bulky, limited st dz
(abstract 4230)

BV-AVD x 3 → Nivo consol.
non-bulky, limited st dz
(abstract 728)

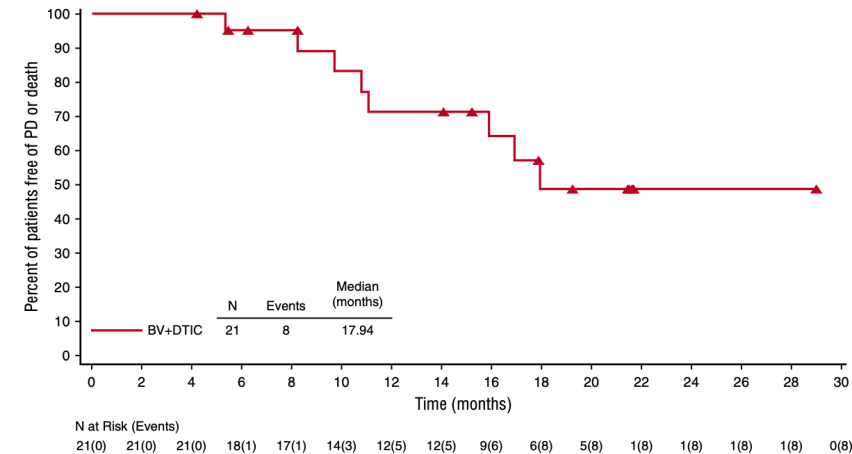


Treatment of older patients with cHL

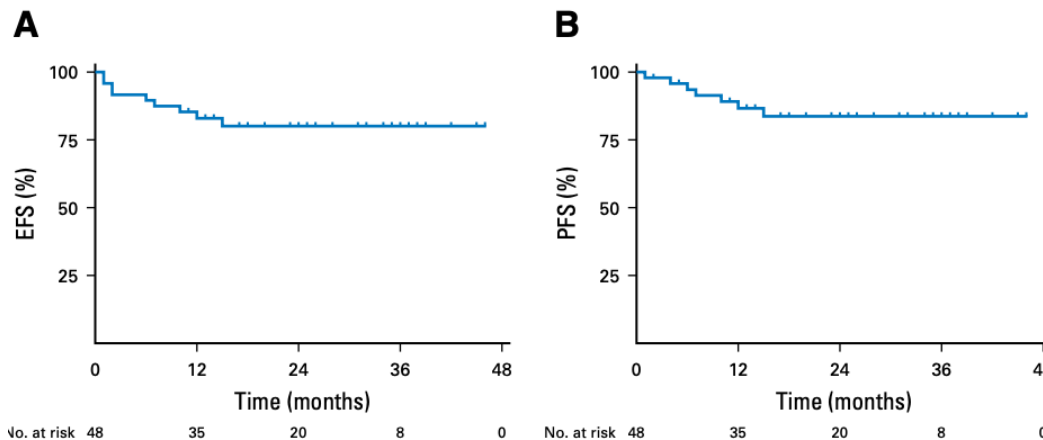


ECHELON-1: BV-AVD = ABVD

(more neuropathy and neutropenia but less pulmonary toxicity than ABVD)



BV plus DTIC



Other:

- RATHL approach (only 10% ≥ 60y)
- AVD
- CHOP

BV → AVD → BV

Camidanlumab tesirine: anti-CD25 plus PBD dimer ADC

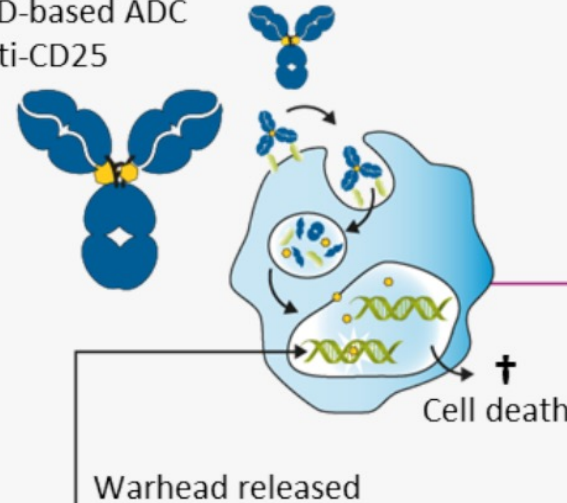
Cami composition

- Human IgG1 anti-CD25 mAb stochastically conjugated to PBD dimer warhead

Mechanism of action¹⁻³

- Death of CD25-expressing tumor cells
- Depletion of CD25-expressing T cells in HL tumor microenvironment
- Possible bystander killing of CD25-negative cells

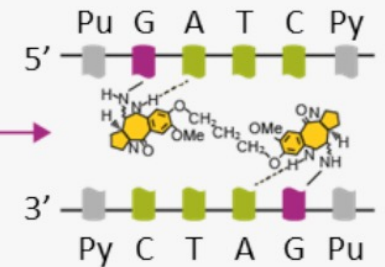
PBD-based ADC
Anti-CD25



Warhead released after internalization and binds in minor groove of DNA

Cell death

Cross-link DNA



- PBD dimer creates interstrand cross-links
- No DNA distortion
- Avoids DNA repair mechanism

1. Hartley JA. *Expert Opin Investig Drugs* 2011;20:733–44; 2. Flynn MJ, et al. *Mol Cancer Ther* 2016;15:2709–21; 3. Zammarchi F, et al. *J ImmunoTher Cancer* 2020;8:e000860.

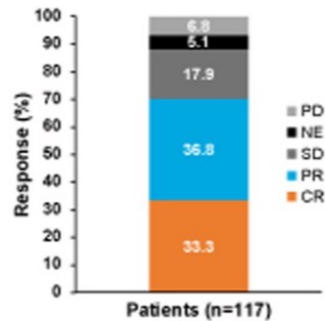
ADC, antibody-drug conjugate; IgG, immunoglobulin G; mAb, monoclonal antibody; PBD, pyrrolobenzodiazepine.



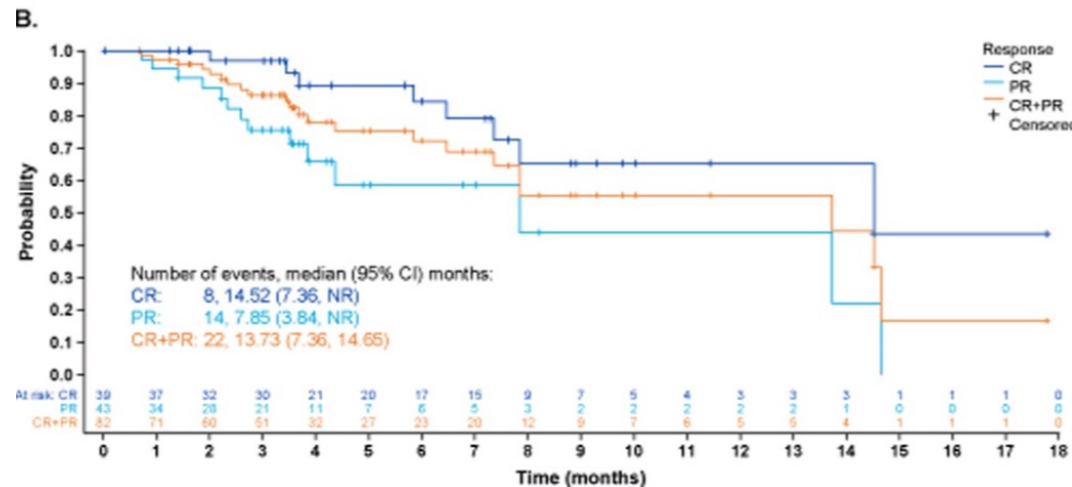
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Ph 2 International monotherapy trial of cami (NCT04052997)



CR, complete response; NE, not evaluable; PD, progressive disease; PR, partial response; SD, stable disease



Key findings:

N=117 with med SIX prior regimens

ORR 70.1% (CR: 33.3%)

Response independent of age, sex,
response to last PD-1 inhibitor

Median DOR of 13.7m

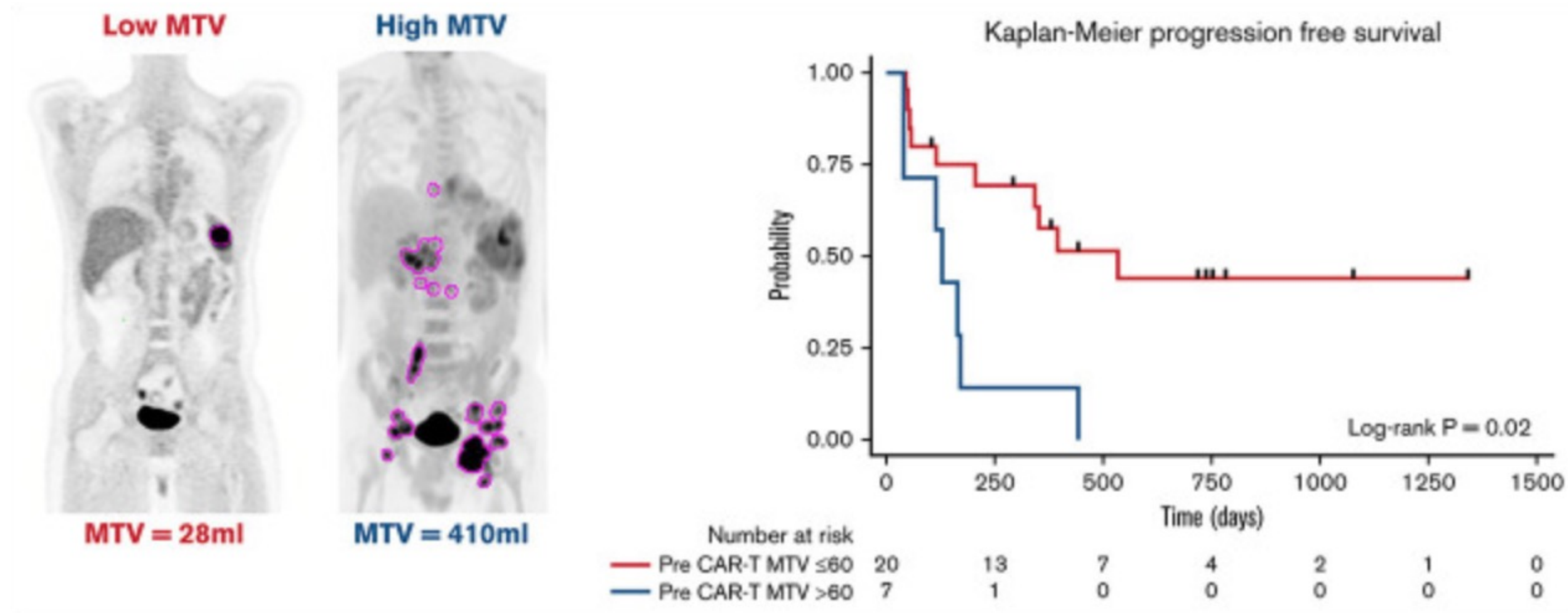
Median PFS of 9.1m

Guillan-Barre syndrome in 8 pts



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Emerging therapies: anti-CD30 CAR-T

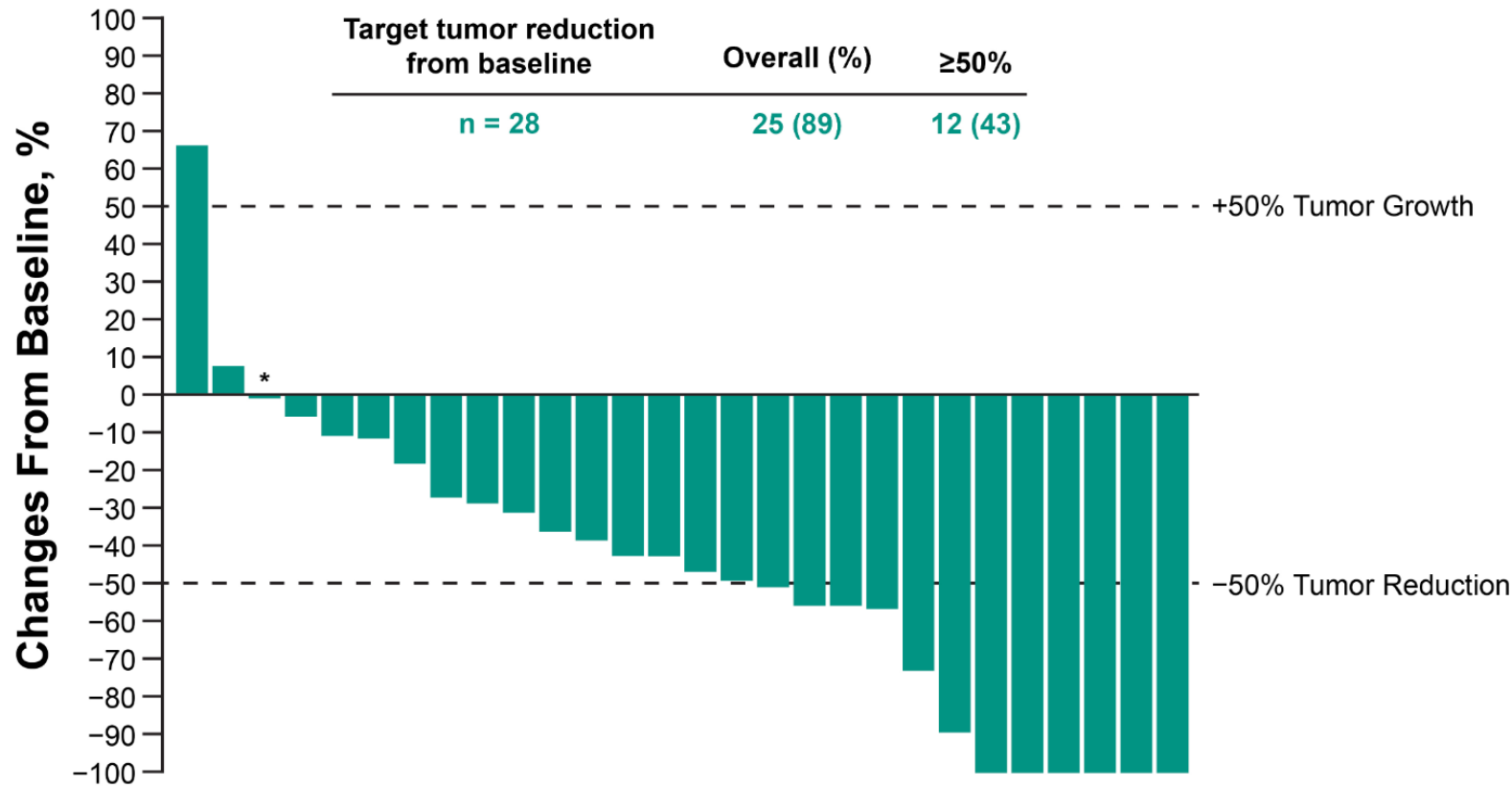


CAR-T outcomes in cHL by pre-CAR-T MTV (n=27)

Emerging CAR-T for cHL: “off the shelf”

ASH 2022 Abstract 167 CD30.CAR-Modified Epstein-Barr Virus-Specific T Cells (CD30.CAR EBVSTs) Provide a Safe and Effective Off-the-Shelf Therapy for Patients with CD30-Positive Lymphoma

Next steps for immunotherapy in cHL? Dual blockade of LAG-3 and PD-1



*Value is +0.16

ASH 2022 abstract 316 Updated Results from an Open-Label Phase 1/2 Study of Favezelimab (anti-LAG-3) Plus Pembrolizumab in Relapsed or Refractory Classical Hodgkin Lymphoma after Anti-PD-1 Treatment (Timmerman)

Module 4: Chimeric Antigen Receptor (CAR) T-Cell Therapy for Non-Hodgkin Lymphoma — Dr Maloney



Dr Vignesh Narayanan
(Lone Tree, Colorado)

Case Presentation: 57-year-old man who presents with a large cecal mass and mesenteric adenopathy and is diagnosed with “double hit” DLBCL



Dr Rahul Gosain
(Corning, New York)

Case Presentation: 70-year-old woman with DLBCL treated with R-CHOP, now with PD 6 months later

Case Presentation: 73-year-old woman with rapid relapse after R-CHOP then R-ICE/ASCT who achieves a CR with CAR T-cell therapy but experiences significant pancytopenias



Dr John Yang (Fall River, Massachusetts)

Chimeric Antigen Receptor (CAR) T-Cell Therapy for Non-Hodgkin Lymphoma

David Maloney, MD, PhD

Medical Director, Cellular Immunotherapy

Bezos Family Immunotherapy Clinic

Professor of Medicine, Division of Oncology

Fred Hutchinson Cancer Center and the University of Washington



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Commercial CD-19 CAR-T cell therapy for NHL

- **Aggressive NHL**

- Tisagenlecleucel
- Axicabtagene ciloleucel (Axi-cel)
- Lisocabtagene maraleucel (Liso-cel)

- **Follicular Lymphoma**

- Axicabtagene ciloleucel
- Tisagenlecleucel

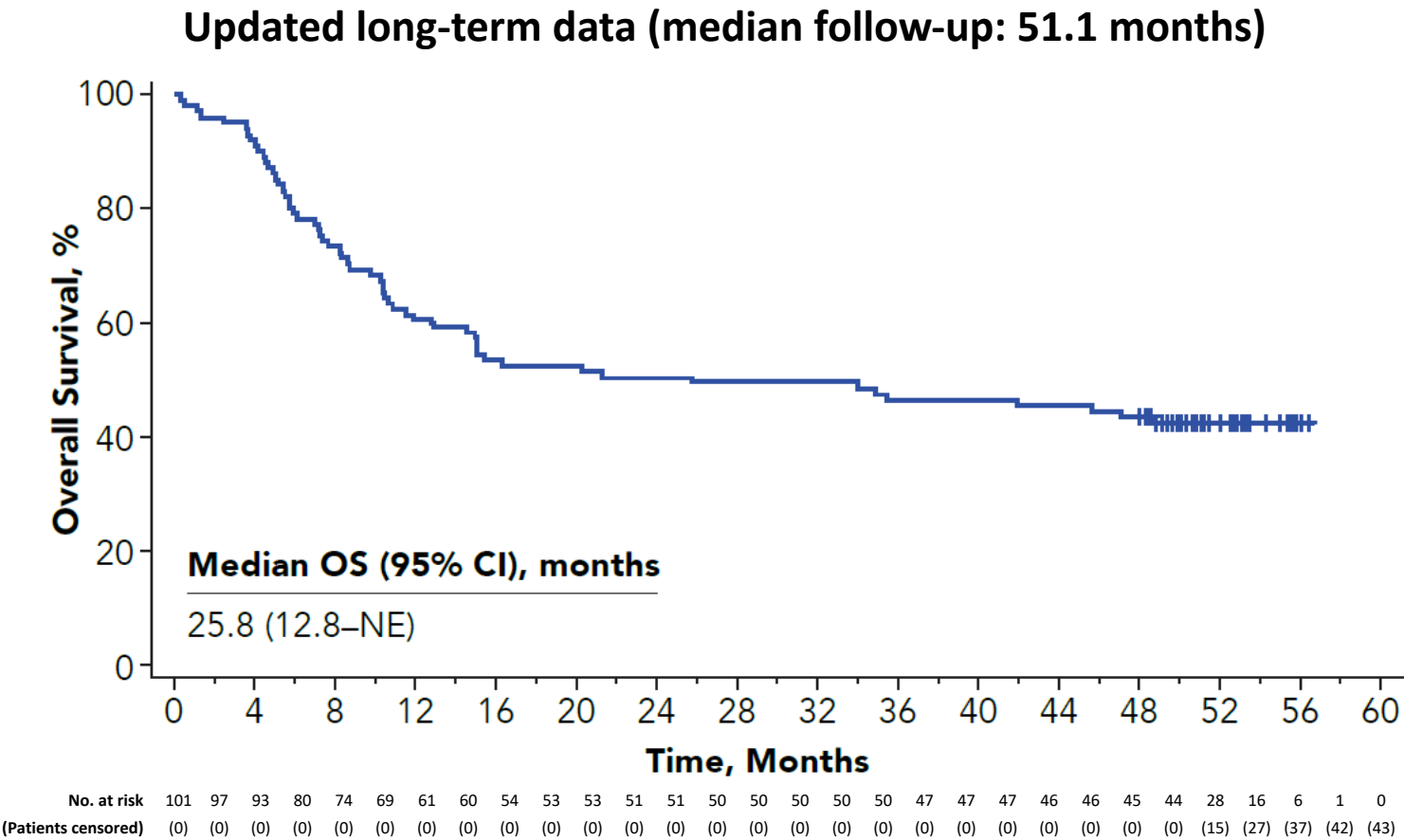
Mantle Cell lymphoma

- Brexucabtagene autoleucel

Aggressive lymphoma: commercial CD19 CAR T cell products

Feature	Tisagenlecleucel	Axi-cel	Liso-cel
Construct	FMC-63 murine scFv 4-1BB co-stimulatory domain	FMC-63 murine scFv CD28 co-stimulatory domain	FMC-63 murine scFv 4-1BB co-stimulatory domain
Viral transfer	Lentiviral	Gamma retroviral	Lentiviral
Collection	Resting state apheresis Cryopreserved Bulk cells	Resting state apheresis Fresh only Bulk cells	Resting state apheresis Fresh only Selection CD4 and CD8
Manufacture	CD3/CD28 stimulation	CD3/CD28 stimulation	CD4, CD8 selection CD3/CD28 stimulation
Dose administered	0.6-6.0 × 10 ⁸ CAR T cells CoA based on cell recovery	2 × 10 ⁶ /kg Max. 200 × 10 ⁶ No CoA	100 × 10 ⁶ (CD4/CD8) in separate vials (1:1) Dose based on recovery
Histology	DLBCL tFL	DLBCL PMBCL tFL	DLBCL, HGBCL PMBCL Indolent (FL, CLL, MZL)
CNS involvement	No	No	Yes, secondary

ZUMA-1: durable responses with axi-cel in patients with r/r DLBCL



Patients, n (%)	Axi-cel (N = 111)
Deaths	66 (59)
Primary cause of death	
PD	52 (47)
Other	8 ^a (7)
AEs	5 ^b (5)
Secondary malignancy	1 (1)

Data cut-off date: August 11, 2020.

^a Three events had no causal relationship (MDS, cardiac arrest), 4 events occurred post subsequent therapy (sepsis, infection, and pulmonary nocardiosis), and 1 event was unknown.

^b One event was related to conditioning chemotherapy, 2 events had no causal relationship, and 2 events were related to axi-cel.

AE, adverse event; CI, confidence interval; MDS, myelodysplastic syndrome; NE, not estimable; PD, disease progression; RR, relapsed/refractory.

Jacobson C, et al. Long-term survival and gradual recovery of B cells in patients with refractory large B-cell lymphoma treated with axicabtagene ciloleucel. Poster presented at TCT 2021;abstract 494.

CIBMTR Analysis of Commercial Axi-cel

Characteristics	RWE	ZUMA-1
n	1297 tx	111 101 tx (91%)
Median age (range)	62 (20-91)	58 (23-76)
ECOG PS >1	5%	0
High risk IPI (≥ 3)	NR	485
Median prior tx	3	3
Bridging therapy	22%	0
Prior ASCT	28%	21%
Histology		
DLBCL	79%	76%
HGBCL	16%	NR
PMBCL	3%	8%
Other	1%	NA
Ineligible for pivotal trial	57%	0

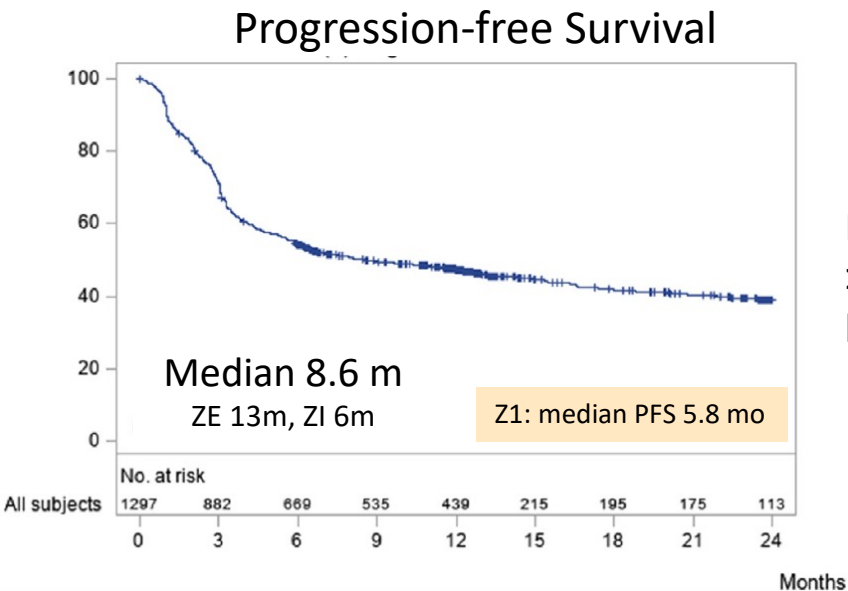
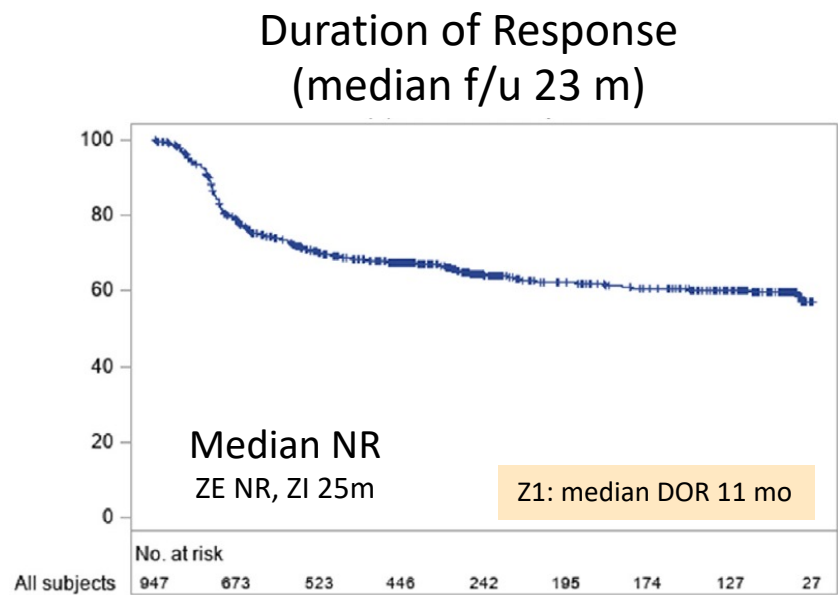
Reasons for Zuma-1 Ineligible	N=76
Pulmonary disease	50%
Cardiac dysfunction	23%
Prior malignancy	23%
ECOG >1	8%
Rheumatologic disease/IBD	8%
Active infection	7%
Ineligible histology	6%
Prior checkpoint inhibitor	5%
Hepatic dysfunction	4%
Renal dysfunction	4%
CNS involvement	3%
Allo SCT	2%



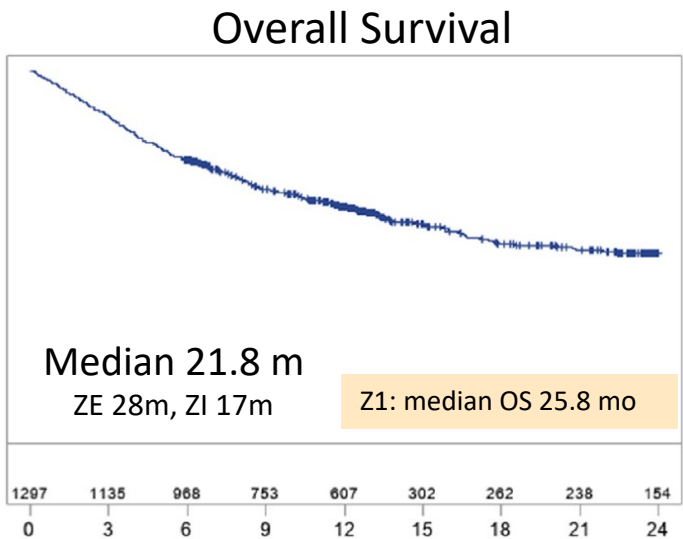
Median infusion time 28 days from apheresis

CIBMTR Analysis of Commercial Axi-cel: Efficacy

Response	Total N=1297	Z-1 eligible N=558	Z-1 inelig N=739	ZUMA-1
ORR	73%	76%	71%	83%
CR	56%	60%	52%	58%



MVA: Inferior PFS with ECOG >1, chemoresistant, severe hepatic disease



MVA: Inferior OS with ECOG >1, chemoresistant

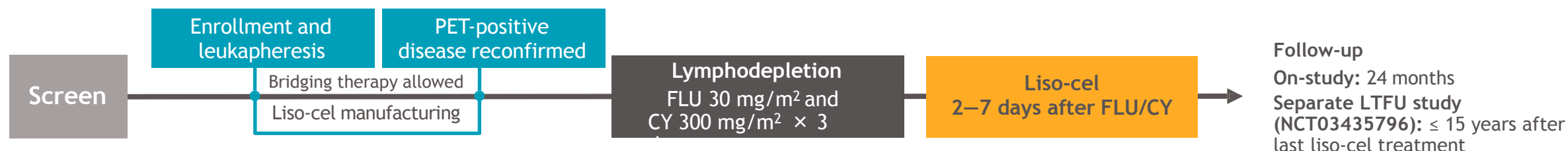


CIBMTR Analysis of Commercial Axi-cel: CRS and ICANS

Toxicity	Total N=1297	Z-1 eligible N=558	Z-1 inelig N=739	ZUMA-1
Any grade CRS	83%	83%	83%	93%
≥Grade 3 CRS	8%	6%	10%	13%
Any grade neurotoxicity	55%	58%	72%	64%
≥ Grade 3 neurotoxicity	24%	26%	36%	28%
ICU transfer	28%	17%	34%	NR
Tocilizumab +/- steroid	58%	59%	57%	43%
Steroids alone	7%	8%	7%	27%



TRANSCEND NHL 001, a seamless design, pivotal, phase 1 study^{1,2}



Patient eligibility

- Age ≥ 18 years
- LBCL after ≥ 2 lines of therapy
DLBCL NOS (de novo; transformed from FL, CLL, MZL, or other)
HGBCL (double/triple hit), PMBCL, FL3B
- Prior HSCT allowed (autologous/allogeneic)
- ECOG PS of 0–2
- Patients with secondary CNS lymphoma were eligible
- CrCl > 30 mL/min/1.73 m², LVEF $\geq 40\%$
- No lower threshold for ALC, ANC, platelets, or hemoglobin

Endpoints

Primary: AEs, ORR by IRC

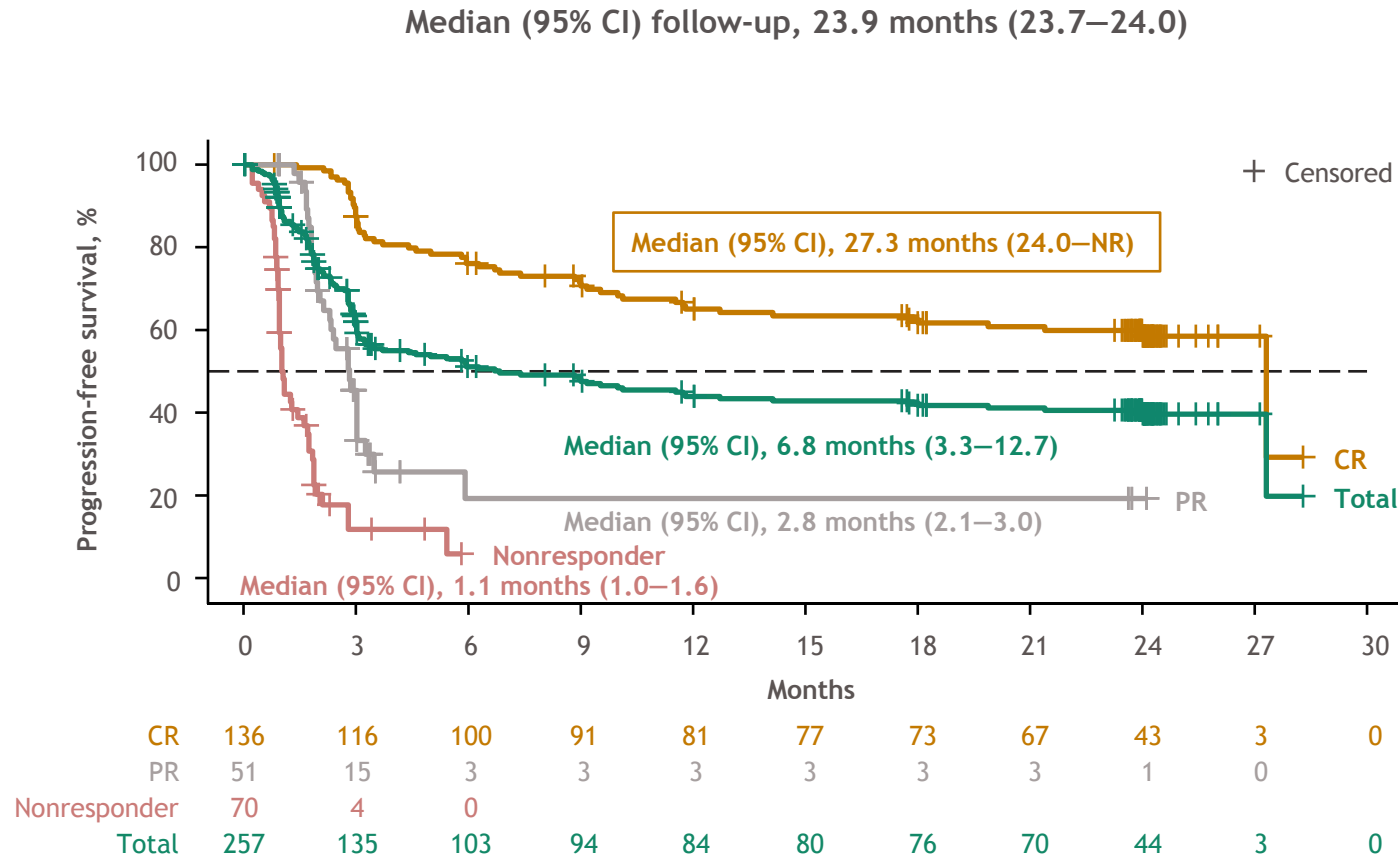
Secondary: CR rate by IRC, DOR, PFS, OS, PK

Analysis sets

- **Safety analysis set (N = 270):** patients who received ≥ 1 dose of liso-cel
- **Efficacy-evaluable set (N = 257):** patients with confirmed PET-positive disease who received ≥ 1 dose of liso-cel

- In TRANSCEND, patients were followed for 2 years after the last dose of liso-cel. As of the January 2021 data cut, study is ongoing; 268 patients had ≥ 24 months of follow-up, or died, or withdrew from the study
- Of 120 patients in the liso-cel–treated set who completed TRANSCEND, 81 consented to a separate long-term follow-up study of safety and OS for up to 15 years; however, no IRC response assessments were performed (NCT03435796)

Progression-free survival by IRC assessment per Lugano 2014 criteria^{1,a}



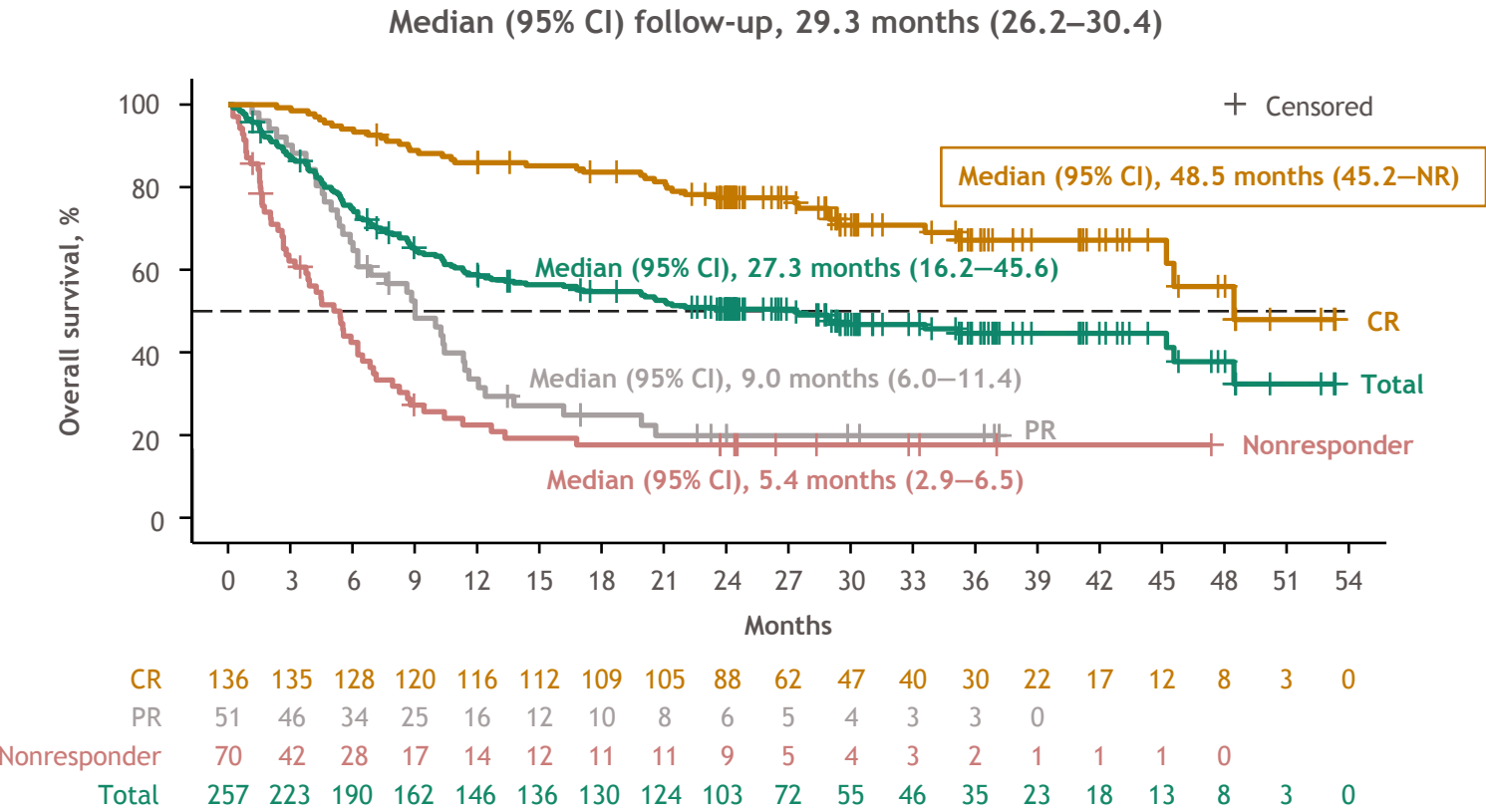
- Median (95% CI) PFS was 6.8 months (3.3–12.7)
- Probability (95% CI) of PFS at 2 years was 40.6% (34.0%–47.2%)
- At 27 months after liso-cel infusion, 1 patient (same as in the DOR curve at 26 months) died because of sepsis and had ongoing CR

^aKM method was used to calculate median (95% CI) of PFS; reverse KM method was used to calculate median (95% CI) of follow -up. Only includes data from TRANSCEND.

PFS, progression-free survival.

1. Cheson BD, et al. *J Clin Oncol* 2014;32:3059–3068.

Overall survival^a



- Median (95% CI) OS was 27.3 months (16.2–45.6)
- Probability (95% CI) of OS at 2 years was 50.5% (44.1%–56.5%)
- Three deaths occurred after 45 months
 - Two patients died because of unknown causes and had ongoing response
 - One patient died because of disease progression
- CAR T cell persistence was detected at 48 months in the LTFU study and in 37% (26 of 70 patients) of patients at 24 months in TRANSCEND

OS analysis incorporated survival data from the separate LTFU study (NCT03435796)

^aKM method was used to calculate median (95% CI) of OS; reverse KM method was used to calculate median (95% CI) of follow -up. Includes survival data from patients who completed TRANSCEND and enrolled in the subsequent LTFU study. LTFU, long-term follow-up.

Tisagenlecleucel for Aggressive NHL: JULIET trial

Phase II trial, CD19 directed CAR-T

Enrolled = 167

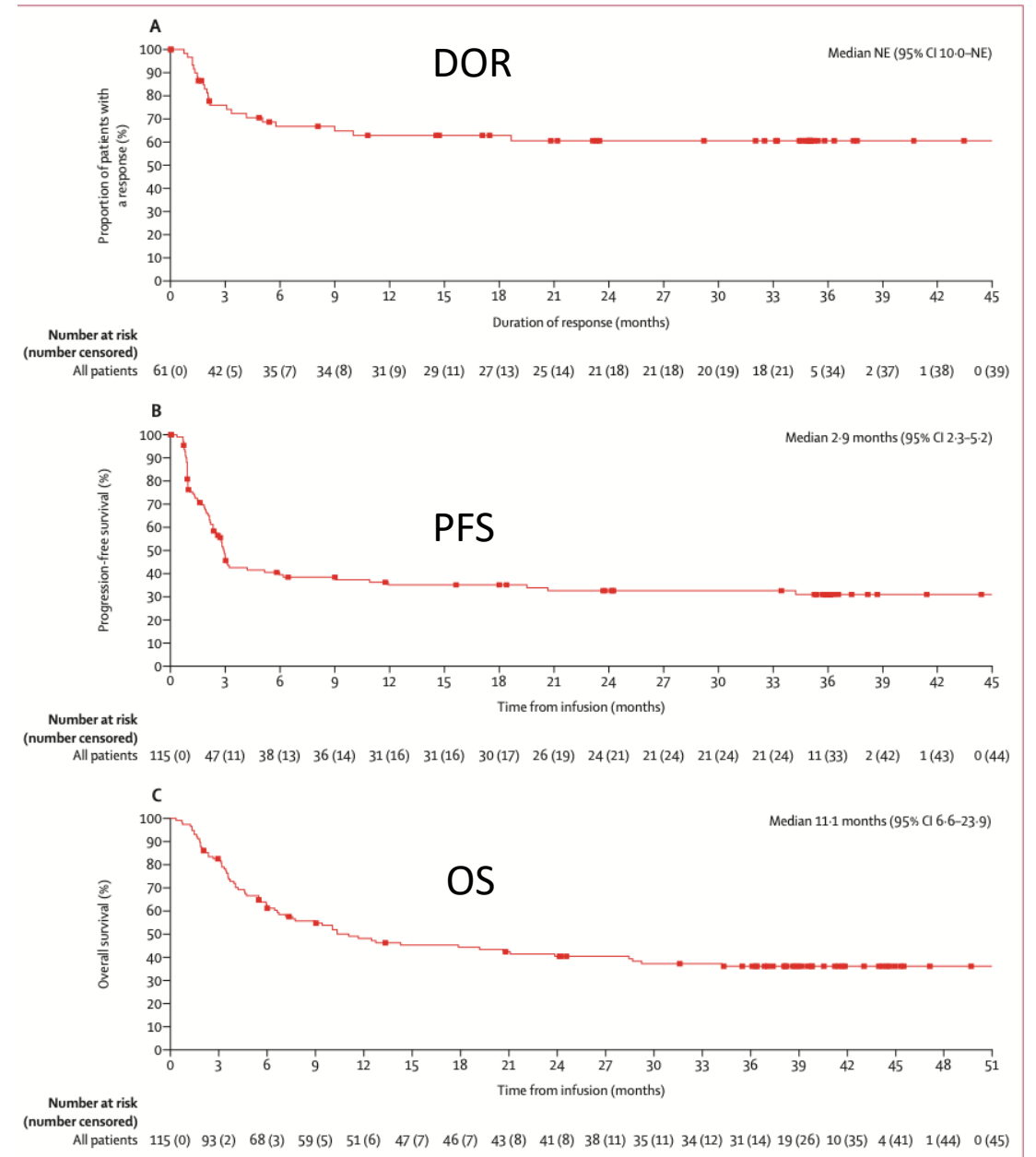
Infused = 115

ORR = 53%

CR = 39%

CRS = 27%

Schuster, SJ Lancet Oncology, 2021

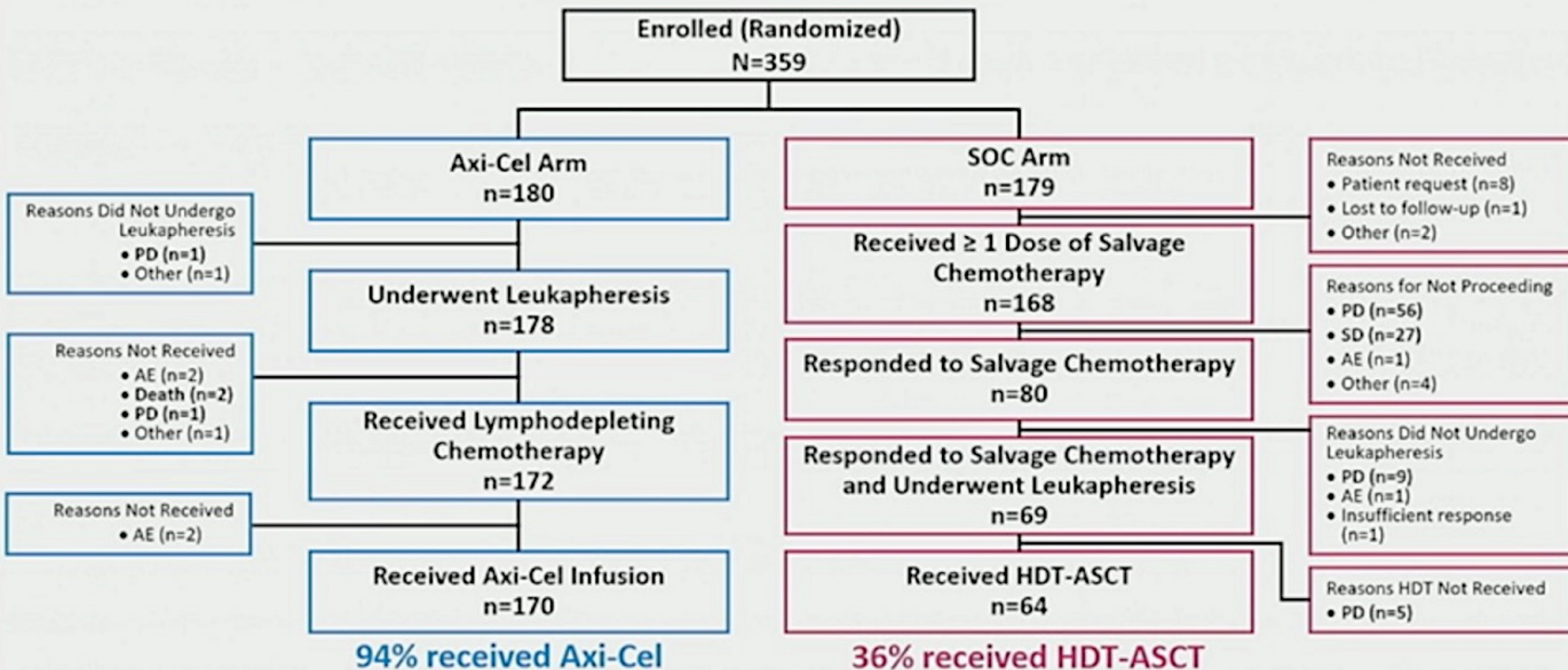


CD19 Directed CAR-T for Aggressive NHL in Second Line

- ZUMA-7
 - Axi-cel vs SOC for transplant eligible, early relapse
- TRANSFORM
 - Liso-cel vs SOC for transplant eligible, early relapse
- PILOT
 - Liso-cel for transplant ineligible patients

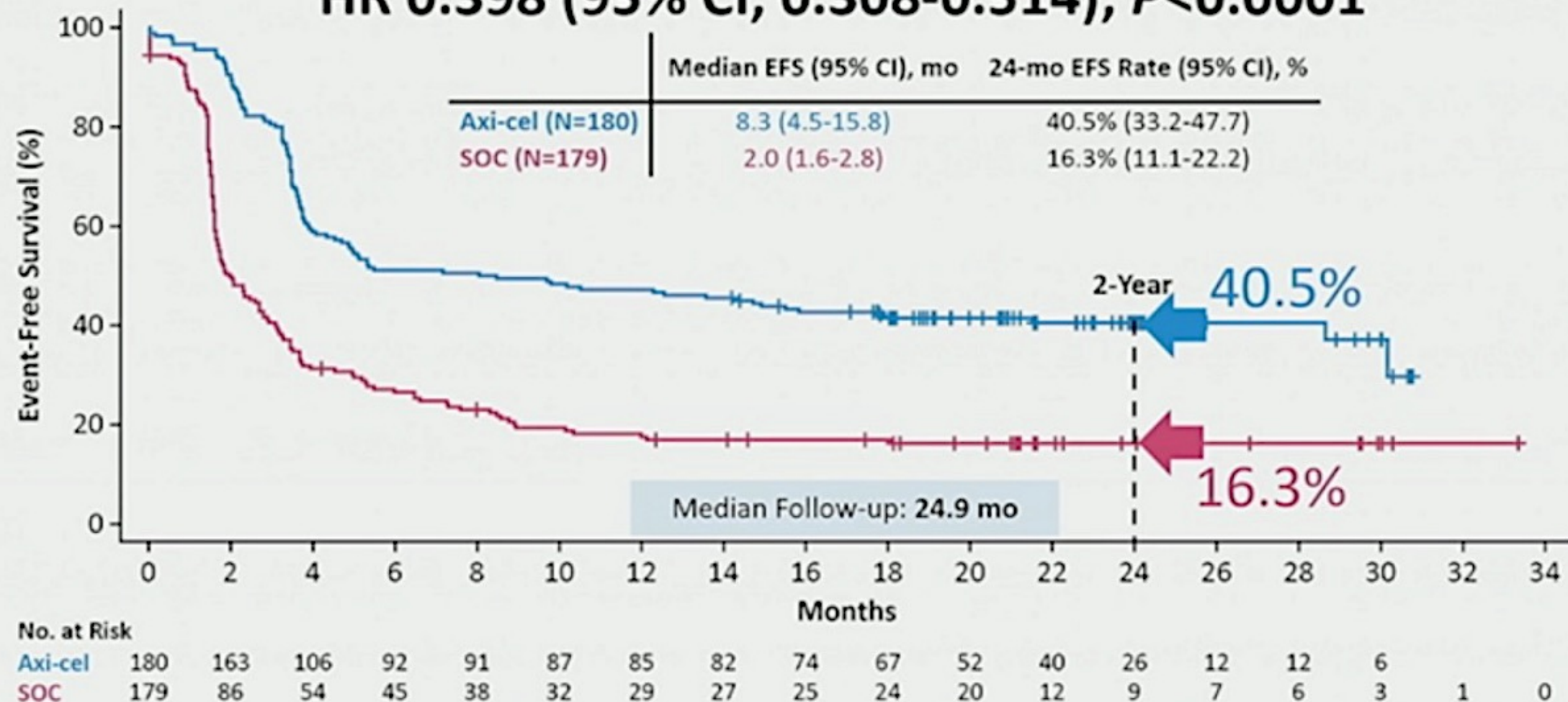


Patient Disposition: Nearly 3x as Many Axi-Cel Patients Received Definitive Therapy Versus SOC Patients

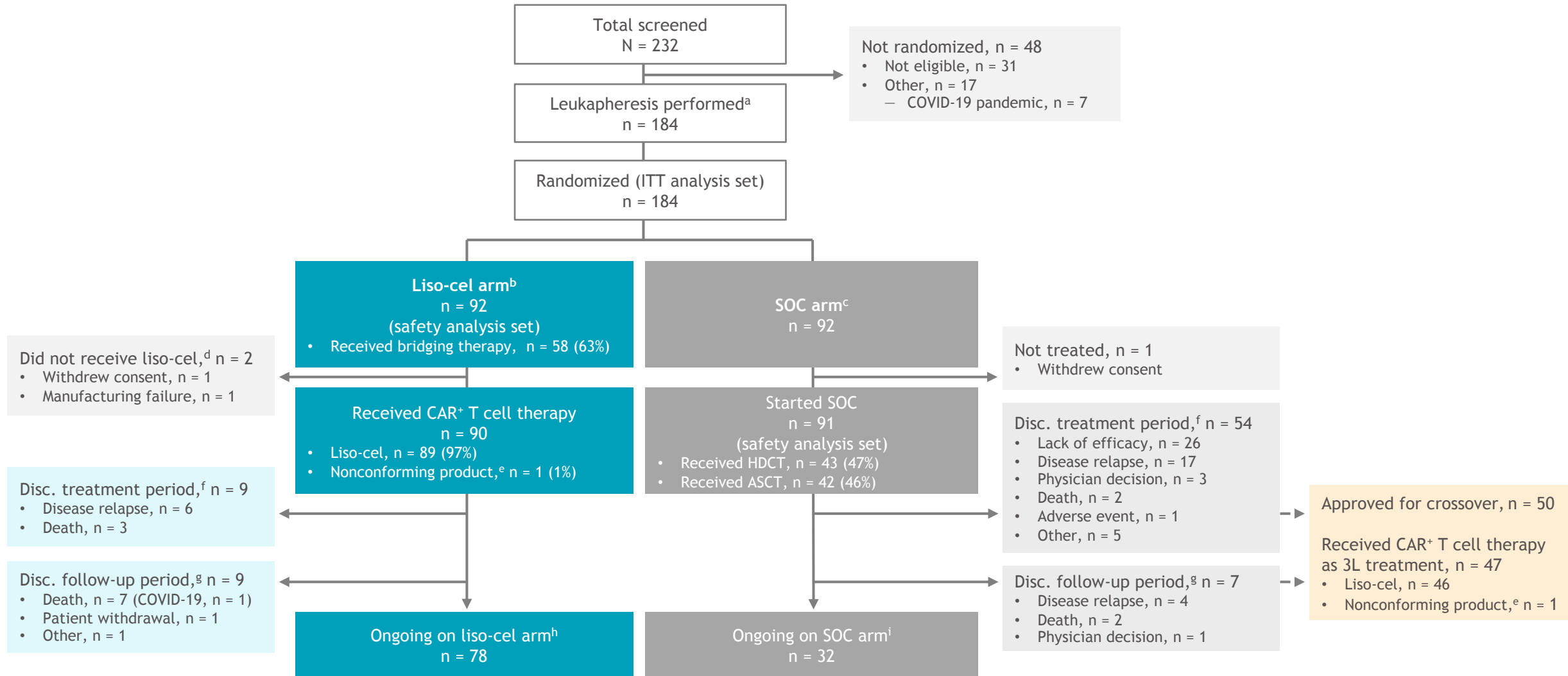


Primary EFS Endpoint: Axi-Cel Is Superior to SOC

HR 0.398 (95% CI, 0.308-0.514); $P < 0.0001$

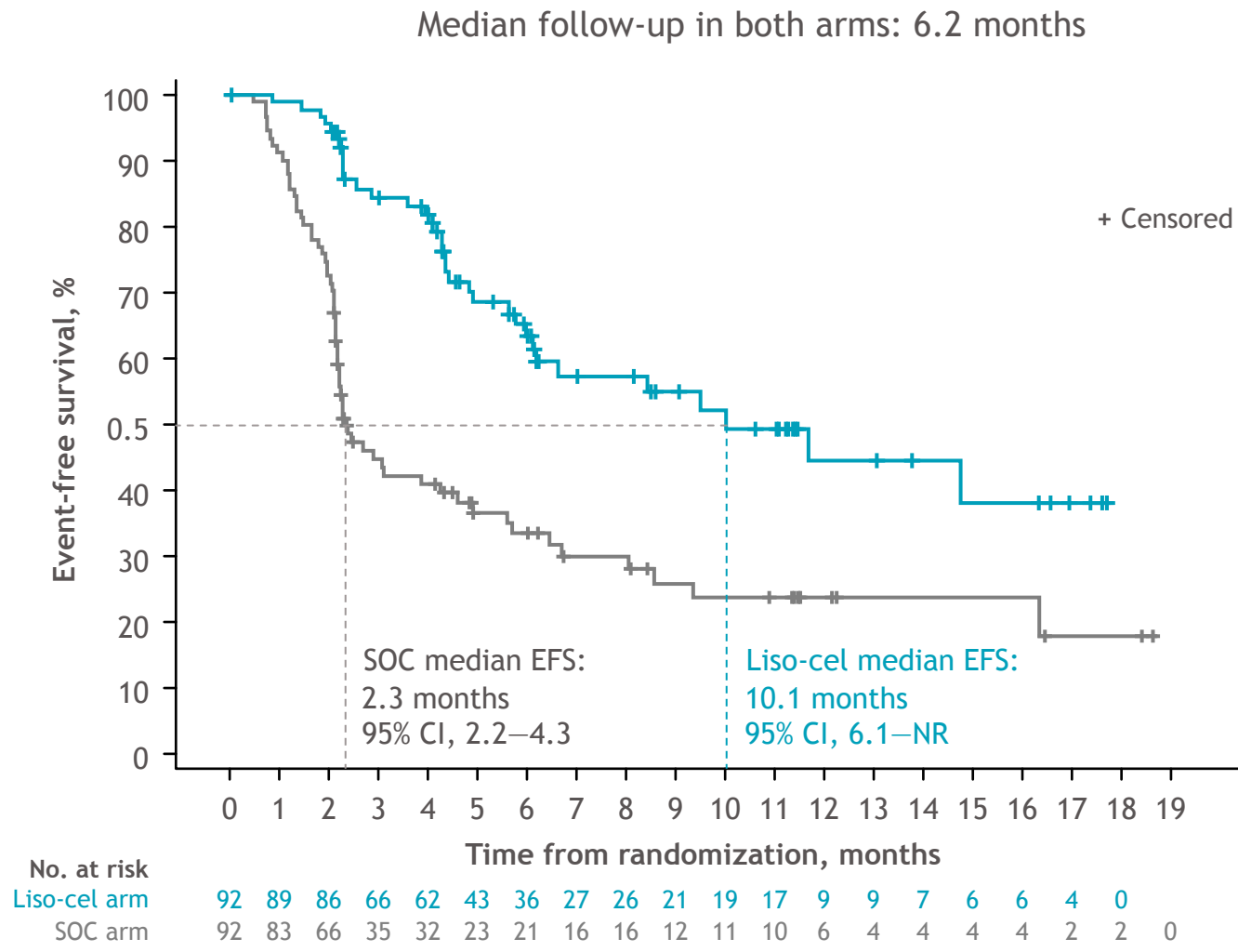


TRANSFORM: CONSORT diagram



^aDuring screening, patients were assessed for eligibility, underwent unstimulated leukapheresis, and subsequent randomization; ^bPatients received LDC followed by liso-cel infusion; bridging therapy was allowed per protocol; ^cPatients received 3 cycles of SOC salvage CT (see Methods for details) followed by HDCT and ASCT; ^dPatients received bridging therapies and, therefore, were included in the safety analysis set; ^eNonconforming product was defined as any product wherein one of the CD8 or CD4 cell components did not meet release criteria for liso-cel but was considered safe for infusion; ^fPatients could discontinue the treatment period, defined as the period from randomization to Week 18, but continue to be followed up for OS; ^gPatients could discontinue the follow-up period, defined as the period from Week 18 to Month 36, but continue to be followed up for OS; ^hSix patients who discontinued the treatment period remained in the study follow-up period; ⁱOne patient who discontinued the treatment period remained in the study follow-up period. Disc., discontinued.

TRANSFORM: Event-free survival per IRC (ITT set; primary endpoint)



	Liso-cel arm (n = 92)	SOC arm (n = 92)
Patients with events, n	35	63
Stratified HR (95% CI)	0.349 (0.229–0.530) <i>P</i> < 0.0001	
6-month EFS rate, % (SE)	63.3 (5.77)	33.4 (5.30)
Two-sided 95% CI	52.0–74.7	23.0–43.8
12-month EFS rate, % (SE)	44.5 (7.72)	23.7 (5.28)
Two-sided 95% CI	29.4–59.6	13.4–34.1

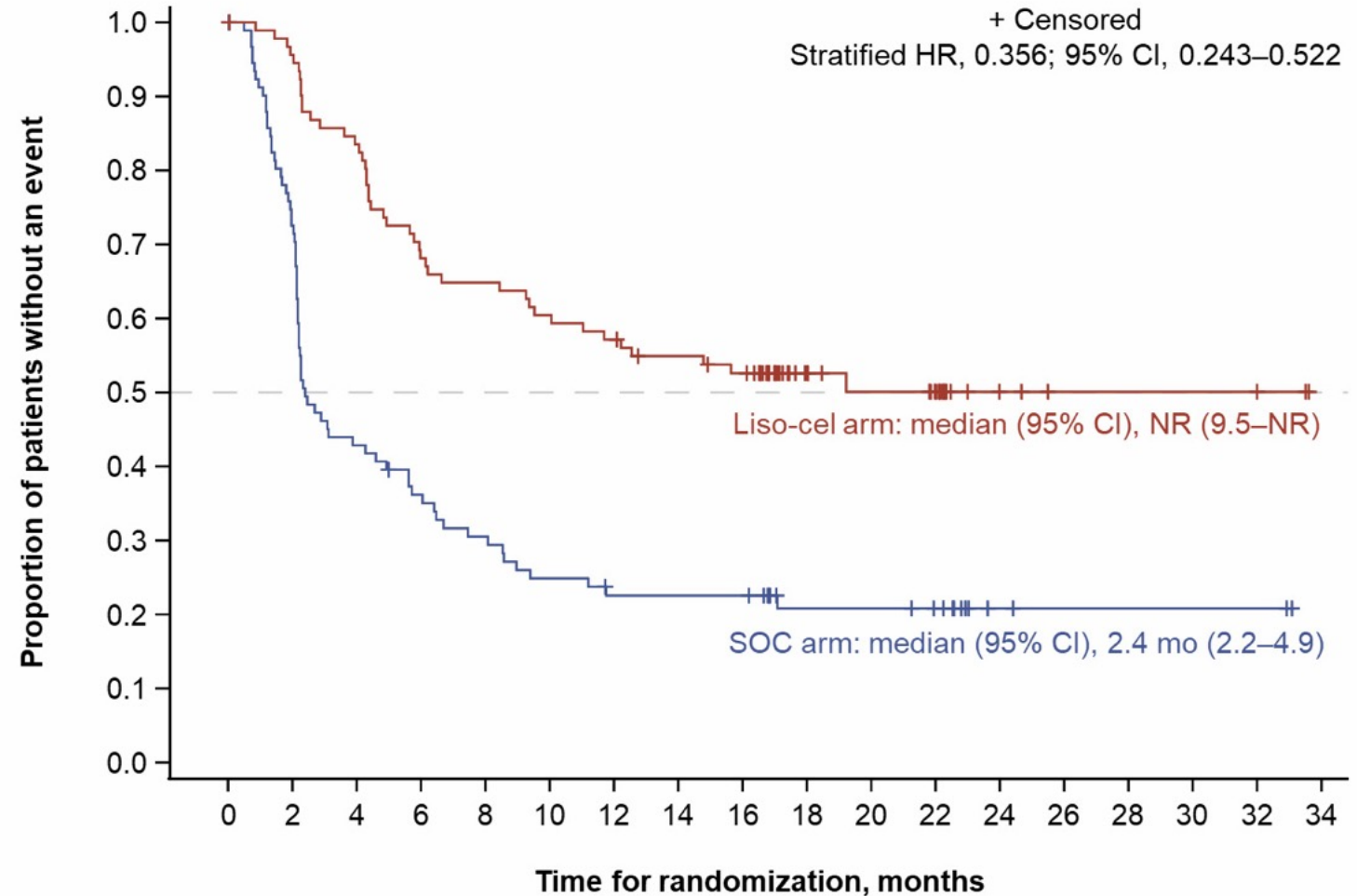
One-sided *P* value significance threshold to reject the null hypothesis was < 0.012

EFS is defined as the 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 due to efficacy concerns, whichever occurs first.
CI, confidence interval; HR, hazard ratio; NR, not reached; SE, standard error.

TRANSFORM: Event-free survival per IRC -ASH update

- Primary analysis at 17.5 mo
- N=184 randomized
 - 92 Liso-cel
 - 92 SOC
- Liso-cel CR= 74%
- SOC CR = 43%

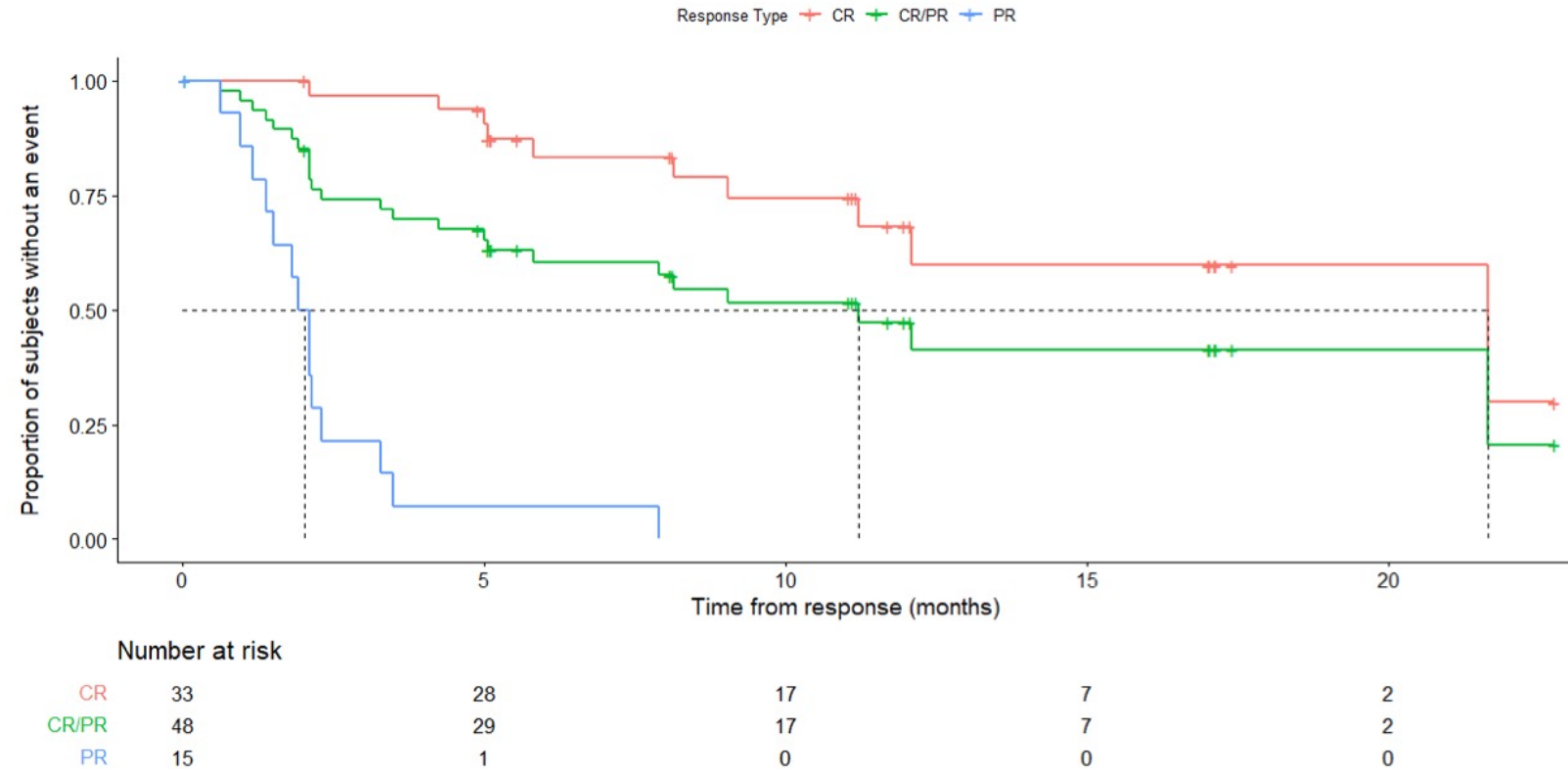
Figure. Kaplan-Meier plot of EFS by IRC (ITT population)



No. at risk																		
SOC arm	92	66	39	32	27	22	19	19	19	12	12	10	3	2	2	2	2	0
Liso-cel arm	92	87	76	62	59	55	52	48	45	24	20	17	5	3	3	3	3	0

PILOT: Liso-cel for transplant ineligible aggressive NHL in Second line

- N= 61 treated, 74 apheresis
 - Age = 74 years
 - ECOG 2 = 26%
 - Refractory = 54%
 - Rel < 1 year = 21%
- ORR = 80%,
- CR = 54%
- CRS = 38%, 1 pt grade 3
- ICANS = 31%, 3 pt grade 3



(Source: FDA statistical reviewer's analysis)

Moving CAR T cell therapy to the first line?

ZUMA-12: a phase 2, multicenter, open-label, single-arm study of axi-cel as part of first-line treatment in patients with high-risk LBCL

Eligibility criteria

- Age ≥ 18 years
- High-risk LBCL
 - HGBCL, with *MYC* and *BLCL2* and/or *BCL6* translocations, or
 - LBCL with IPI score ≥ 3 any time before enrollment
- 2 cycles of anti-CD20 plus anthracycline-containing regimen
- Positive interim PET (DS 4 or 5)
- ECOG PS score 0 or 1

Enrollment/leukapheresis

Optional nonchemotherapy
bridging therapy^a

Conditioning chemotherapy + axi-cel infusion

- Conditioning
 - Flu 30 mg/m² i.v. and Cy 500 mg/m² i.v. on Days -5, -4, and -3
- Axi-cel
 - Single i.v. infusion of 2×10^6 CAR T cells/kg on Day 0

Primary endpoint

- CR^b

Key secondary endpoints

- ORR
- DOR
- EFS
- PFS
- OS
- Safety
- CAR T cells in blood and cytokine levels in serum

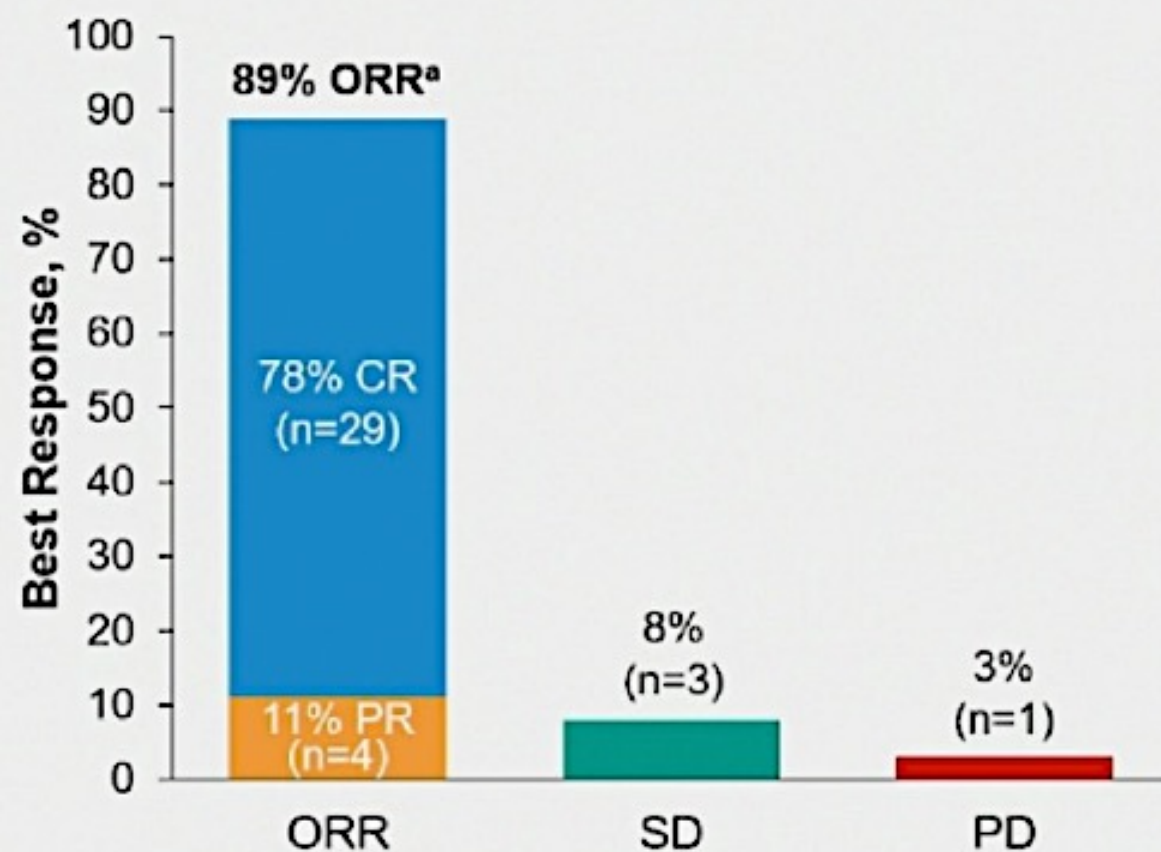
^a Administered after leukapheresis and completed prior to initiating condition chemotherapy; PET-CT was required after bridging.

^b Per 2014 Lugano criteria.

DS, Deauville score; IPI, International Prognostic Index; i.v., intravenous.

Neelapu SS, et al. Interim analysis of ZUMA-12: A phase 2 study of axicabtagene ciloleucel (axi-cel) as first-line therapy in patients (Pts) with high-risk large B cell lymphoma (LBCL). Oral presentation at ASH 2020;abstract 405.

ORR Was 89% (95% CI, 75–97) and CR Rate Was 78% (95% CI, 62–90) Among Efficacy-Evaluable Patients



	Efficacy Evaluable N=37 ^b
Median follow-up (range), months	15.9 (6.0–26.7)
Patients with ≥12-month follow-up, n (%)	23 (62)
Patients with ongoing response as of data cutoff, n (%)	27 (73)
Median time to response (range), months	
Initial objective response	1.0 (0.9–6.8)
Initial CR	1.0 (0.9–6.8)
Patients converted from PR/SD to CR, n (%) ^c	7 (19)
PR to CR	6 (16)
SD to CR	1 (3)

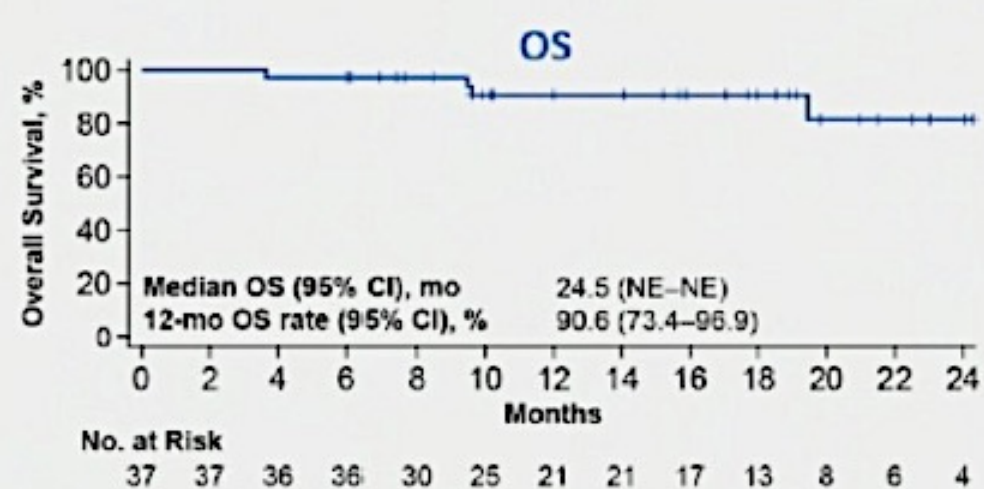
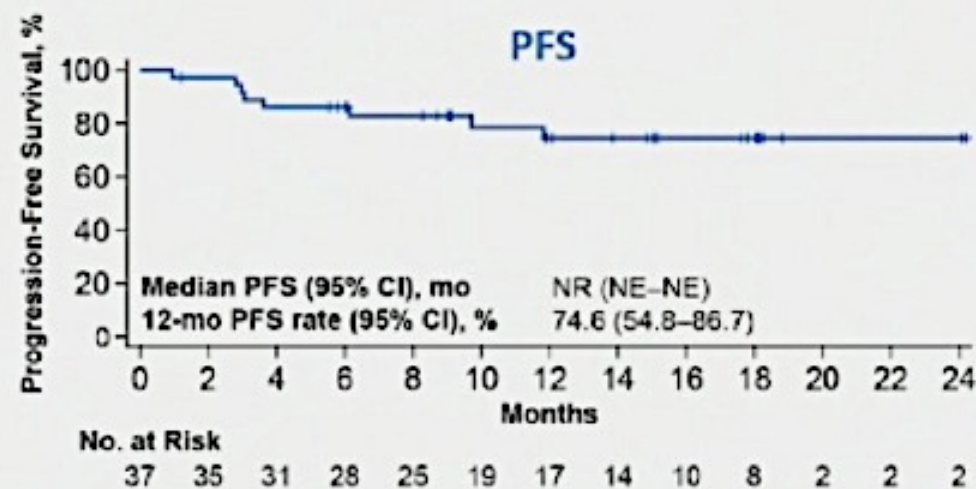
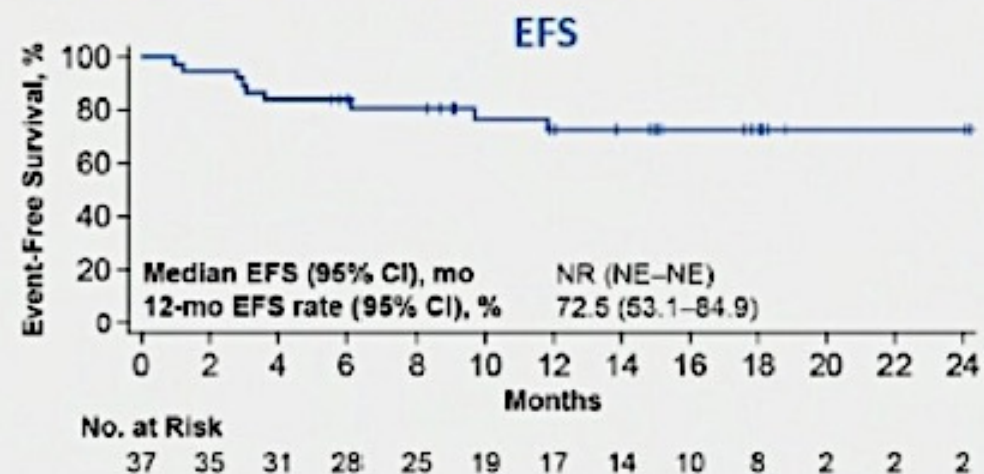
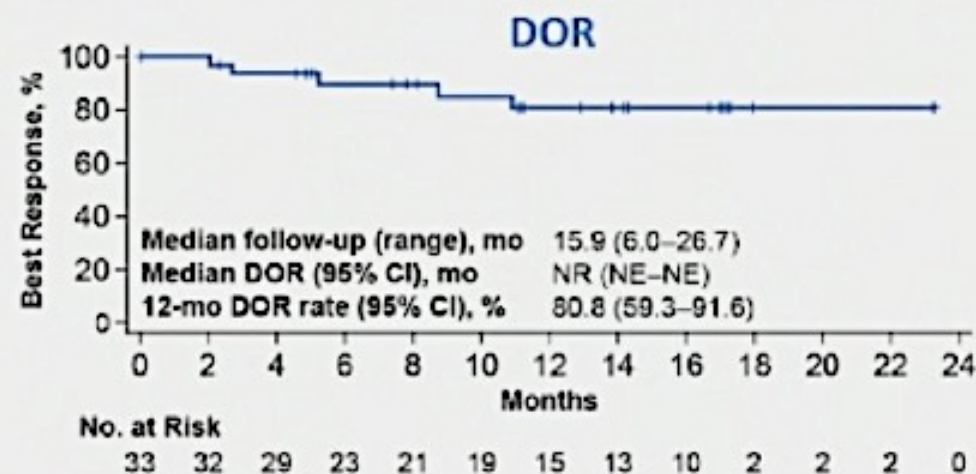
- Among all treated patients (N=40), ORR was 90% (95% CI, 76–97); CR rate was 80% (95% CI, 64–91)

^a Response assessments are based on best overall response. ^b Includes all treated patients with centrally confirmed disease type (double- or triple-hit lymphomas) or IPI score ≥3 who received ≥1×10⁶ CAR T cells/kg.

^c All 7 patients converted to a CR by Month 6 postinfusion.

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

Duration of Response, Event-Free Survival, Progression-Free Survival, and Overall Survival^a

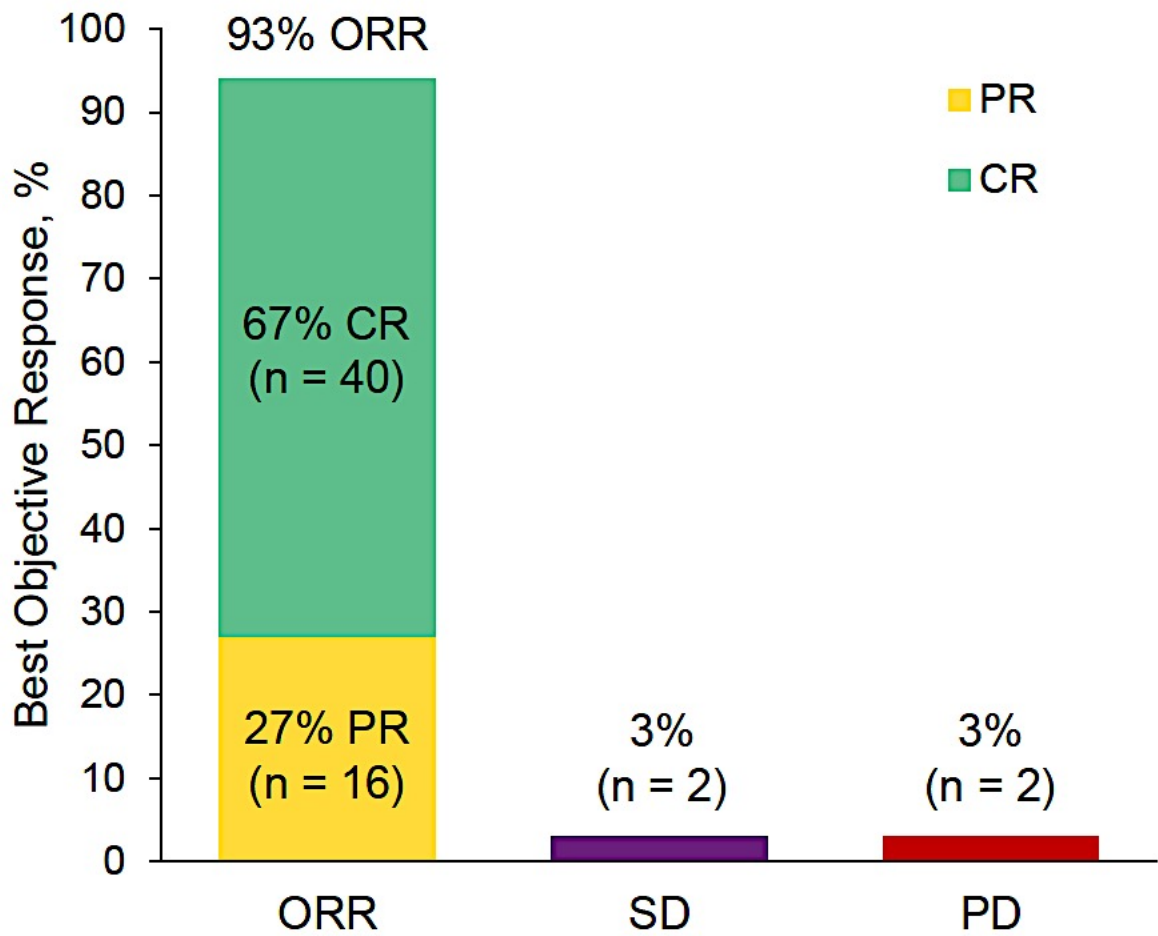


^a Analyses done in all treated patients with centrally confirmed disease type (double- or triple-hit lymphomas) or IPI score ≥ 3 who received $\geq 1 \times 10^6$ CAR T cells/kg.
 DOR, duration of response; EFS, event-free survival; NE, not evaluable; NR, not reached; OS, overall survival; PFS, progression-free survival.

CD19 CAR-T cells for Mantle cell and Indolent NHL

- Brexucabtagene autoleucel for Mantle cell Lymphoma
- Tisagenlecleucel for Follicular Lymphoma
- Axi-cel for Follicular Lymphoma and Marginal zone lymphoma

ORR by IRRC Assessment Was 93% (95% CI, 84 – 98) and CR Rate Was 67% (95% CI, 53 – 78)

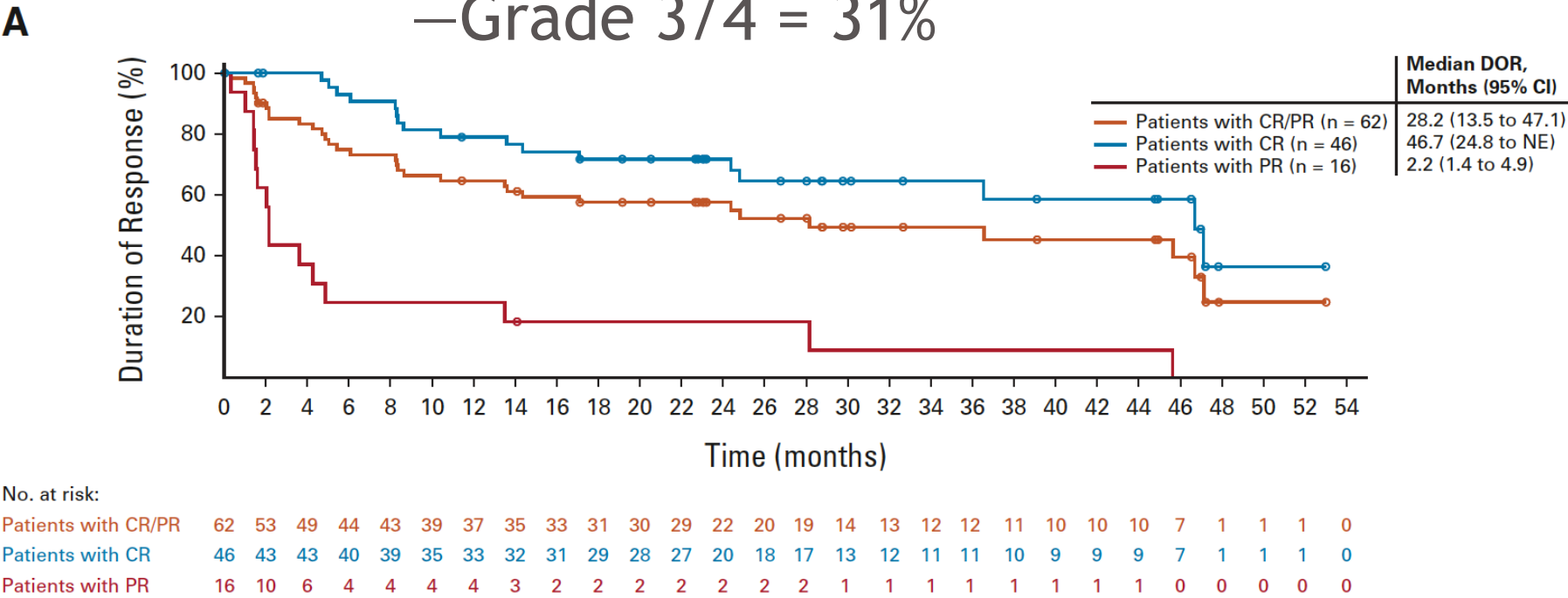


Efficacy-Evaluable N = 60	
Median follow-up (range), mo	12.3 (7.0 – 32.3)
Patients with ≥ 24 mo follow-up, n (%)	28 (47)
Median time to response (range), mo	
Initial response	1.0 (0.8 – 3.1)
CR	3.0 (0.9 – 9.3)
Patients converted from PR/SD to CR, n (%)	
PR to CR	21 (35)
SD to CR	3 (5)

Investigator-assessed ORR in N = 60 was 88% (CR rate 70%), with 95% and 90% concordance between IRRC- and investigator-assessed ORR and CR rate, respectively. IRRC-assessed ORR in ITT (N = 74) was 85% (CR Rate 59%). CR, complete response; IRRC, Independent Radiology Review Committee; ORR, objective response rate; PD, progressive disease; PR, partial response; SD, stable disease.

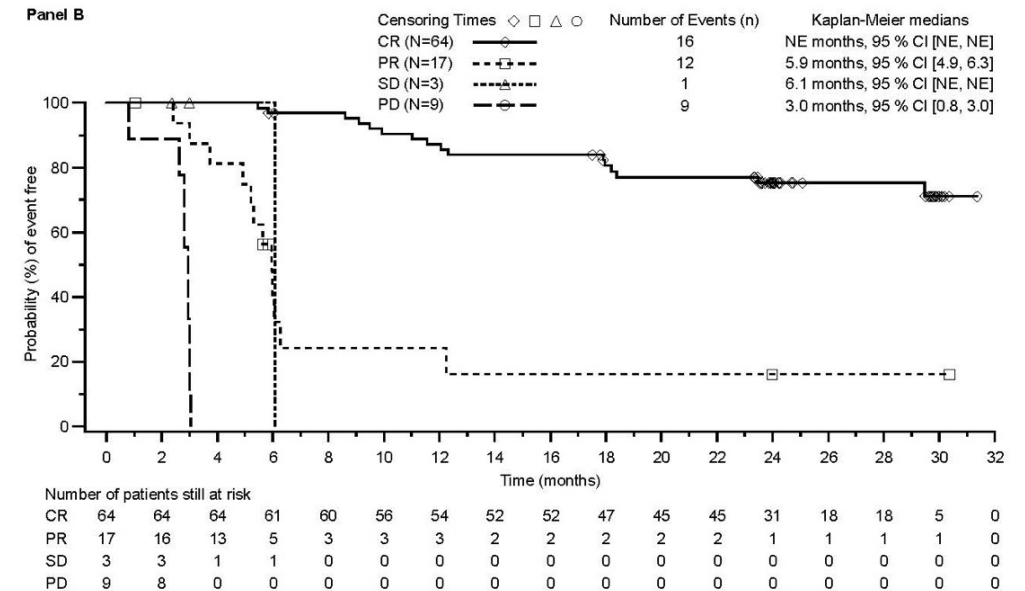
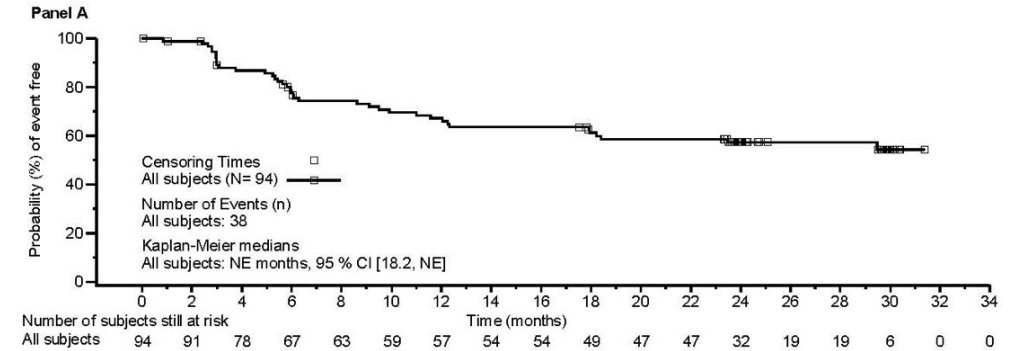
ZUMA-2: Brexu-cel CD-19 Directed CAR-T cell therapy for Mantle Cell NHL - 3 year update

- N= 68 infused
 - ORR = 91%
 - CR = 68%
 - DOR = 28.2 mo
 - PFS = 25.8 mo
 - OS = 46.6 mo
 - BTKi exposed
 - Similar outcome
- CRS = 91%
 - Grade 3/4 = 15%
 - ICANS = 63%
 - Grade 3/4 = 31%



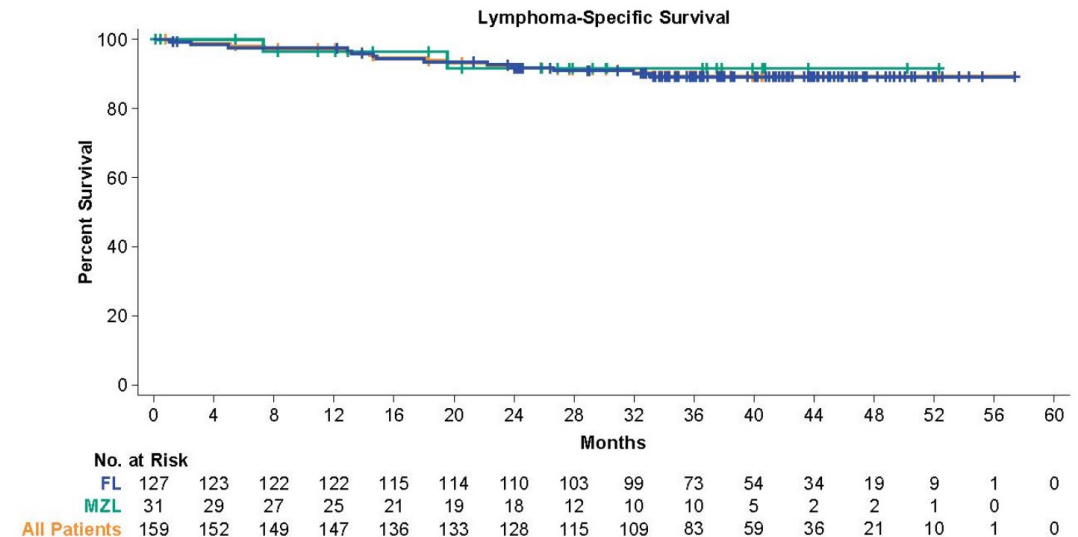
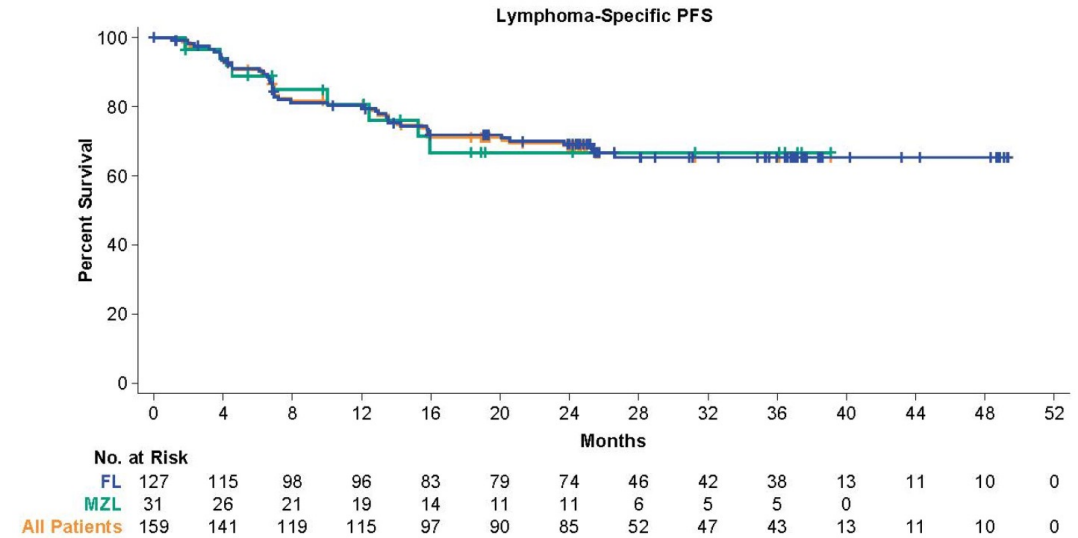
ELARA: Tisagenlecleucel for Follicular NHL- ASH 2022 update

- N= 94 (evaluable) with relapsed/ref FL
- ORR = 86.2%
- CR = 68%
- CRS = 48.5%
 - Grade 3/4 = 0%
- NT = 37.1%
 - Grade 3/4 = 3%
- Median f/u 28.9 mo
- 24% received subsequent Rx



ZUMA-5: Axi-cel CAR-T cell therapy for Follicular NHL and MZL- ASH 2022 3-year update

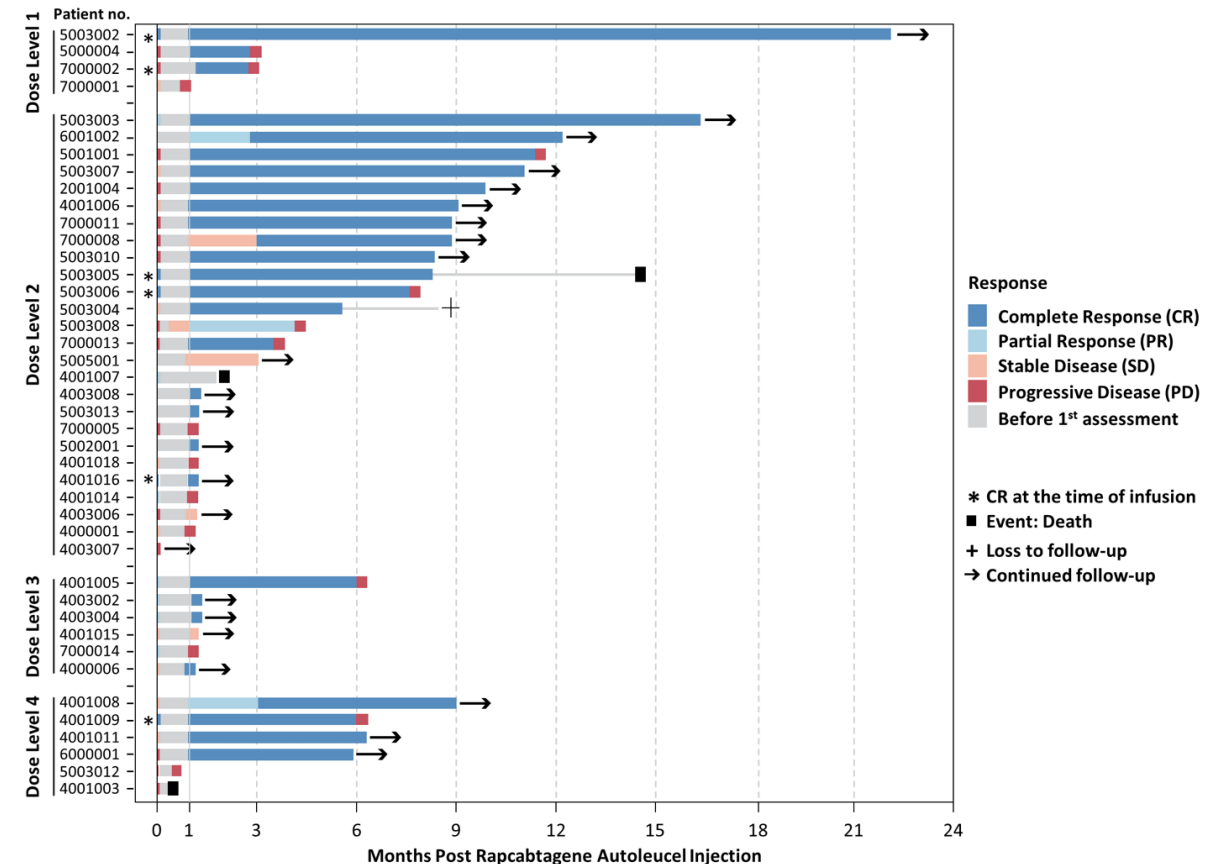
- N= 159 enrolled, 152 treated
- Follicular NHL = 124
- Marginal zone NHL 28
- Flu/Cy lymphodepletion and 2×10^6 CAR-T cells/kg
- ORR
 - FL = 94%, MZL = 83%
- CR
 - FL = 79%, MZL = 65%
- CRS \geq grade 3 = 10 (7%)
- NT \geq grade 3 = 28 (19%)



YTB323 (Rapcabtagene Autoleucel) CD-19 Directed CAR-T cell therapy for Large B cell NHL

- Rapid 2 day manufacturing preserving T cell “stemness”
- Phase 1 study
- Dose level 2 (12.5×10^6) chosen as recommended Ph 3 dose
- N=28 treated at DL 2
 - CR = 65%
 - ICANS in 3 pts
 - CRS in 10 pts, onset median d9

Figure 1. Response durability following rapcabtagene autoleucel injection.



Conclusions and Future Directions

- Approval of 4 CD19 CAR-T cell products for Aggressive NHL, FL and MCL
- Treatments appear to lead to long lasting remissions especially for patients with Complete Remissions
- Second line randomized trials for aggressive large B cell lymphoma superior to SOC/autologous HCT
- CAR-T now FDA approved in second line for transplant eligible (relapse < 1 year, axi-cel and liso-cel) and transplant ineligible patients (liso-cel).
- Product selection needs to consider **efficacy**, **safety**, as well as **production reliability** and **cost**
- Exciting new constructs and combinations being evaluated

Immunotherapy is
changing the way
cancer is treated!

BEZOS FAMILY
IMMUNOTHERAPY
CLINIC



Photograph courtesy of Ron hood, Fred Hutch

Fred Hutchinson Cancer Center

Module 5: Mantle Cell Lymphoma (MCL) — Dr Kahl

Case Presentation: 78-year-old man with high-risk relapsed MCL s/p BR and maintenance rituximab x 3 years



Dr Raman Sood (Dunkirk, New York)

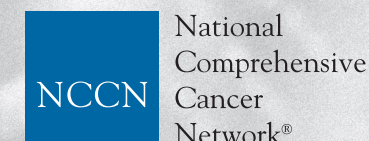
Case Presentation: 85-year-old man with prior treatment for prostate cancer who presents with low-volume indolent MCL with a TP53 mutation



Dr Spencer Bachow (Boca Raton, Florida)

Mantle Cell Lymphoma - What did we learn in 2022?

Brad Kahl, MD
Professor of Medicine



Reasonable Standards of Care in 2022

FRONTLINE MANAGEMENT

- Younger/Fit
 - High dose cytarabine containing induction
 - ASCT in 1st remission
 - Maintenance Rituximab for 3 years
- Older/Less Fit
 - Bendamustine-Rituximab (BR) Induction
 - ± Maintenance Rituximab

RELAPSED/REFRACTORY

- BTK inhibitors
 - Ibrutinib
 - Acalabrutinib
 - Zanubrutinib
- Lenalidomide-Rituximab (R2)
- Brexucabtagene Autoleucel (brexu-cel)

New in 2022 (Frontline Management)

1. Solid evidence supporting MR after BR
 - Flatiron Database analysis (Martin et al, JCO 2022)

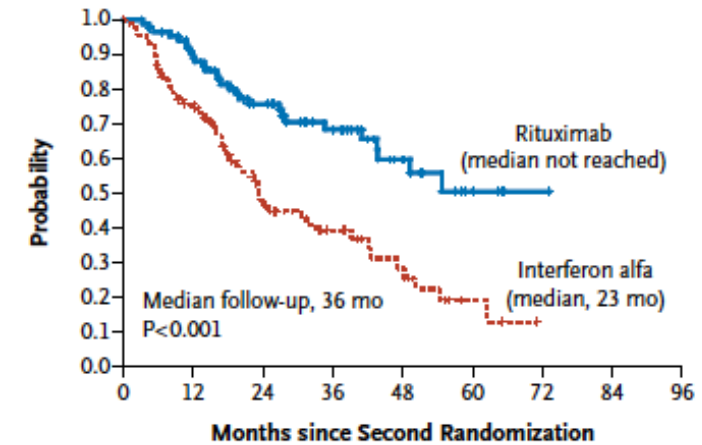
2. Data for BR plus BTKi in Older MCL
 - SHINE Trial (Wang et al, ASCO 2022, NEJM 2022)

3. Data for BTKi added to intensive therapy in Younger MCL
 - TRIANGLE TRIAL (Dreyling et al, ASH 2022)

Maintenance Rituximab

- European MCL Network Study
- N = 532. Median age 70.
- R-CHOP > FCR as induction strategy
- Responding patients randomized to interferon alfa vs. MR given indefinitely
- MR not beneficial after FCR
- What about after BR???

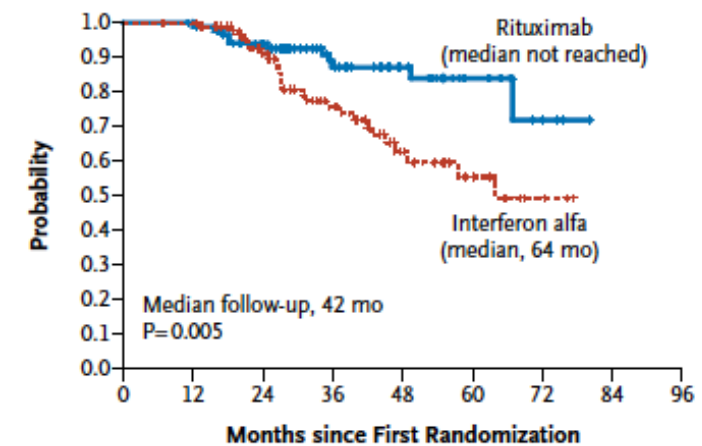
B Remission Duration, Patients Assigned to R-CHOP



No. at Risk

Rituximab	87	72	48	32	17	4	1	0
Interferon alfa	97	63	29	18	10	3	0	

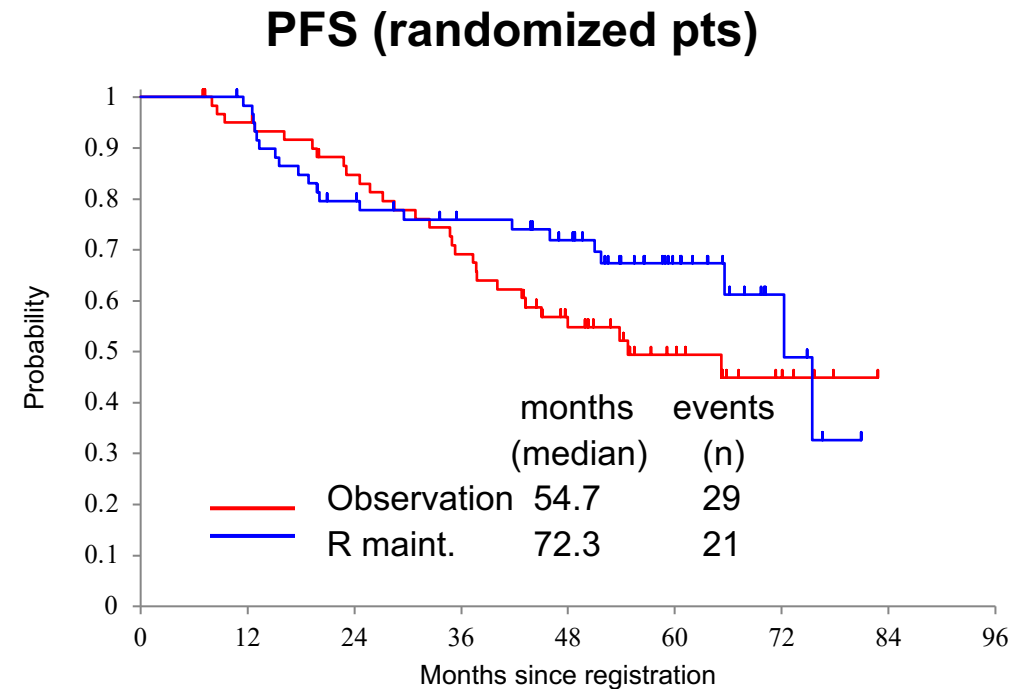
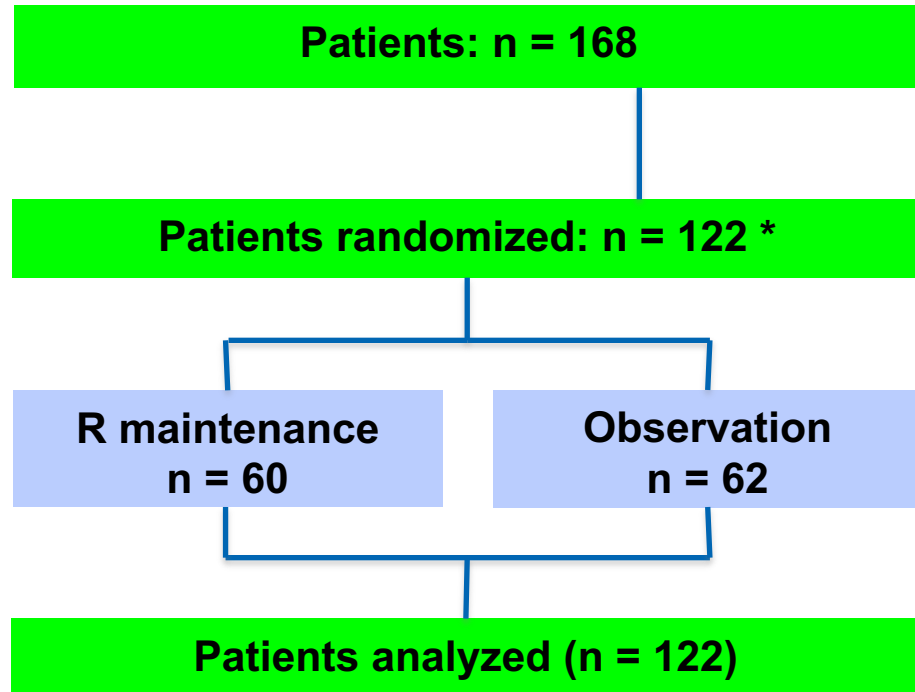
D Overall Survival, Patients Assigned to R-CHOP



No. at Risk

Rituximab	87	86	71	46	30	13	3	0
Interferon alfa	97	92	65	43	22	11	3	0

How about MR after bendamustine-rituximab?



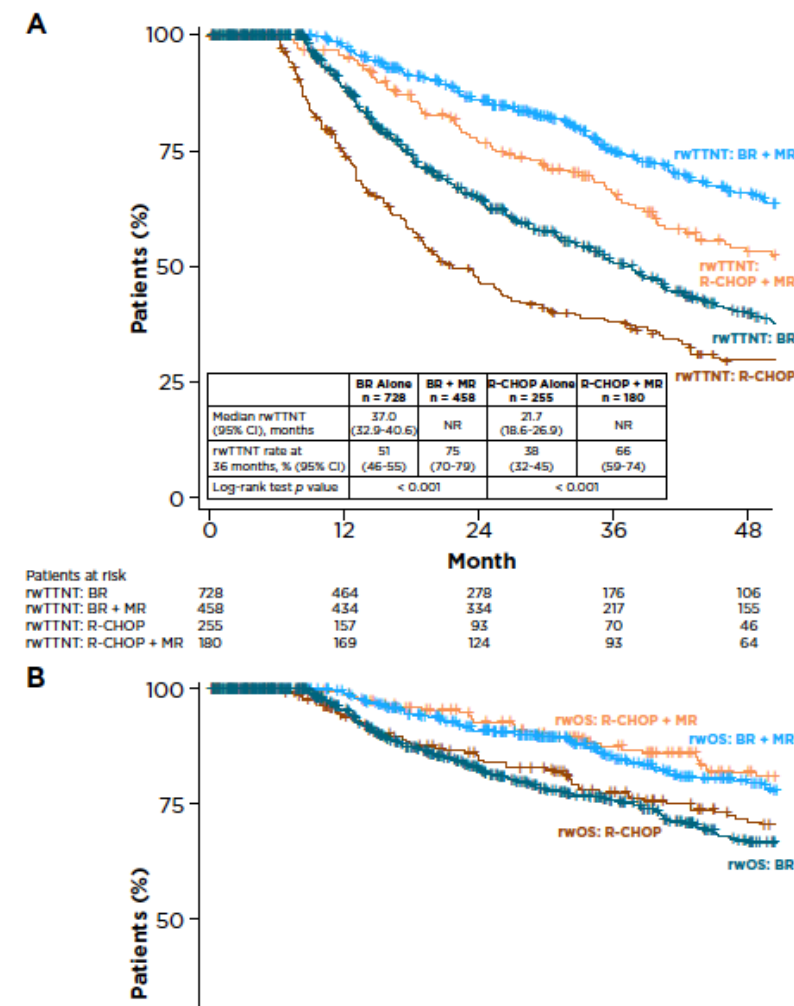
Rummel et al, ASCO 2016

Flatiron Database

- “Real world” analysis of 1621 patients
- Show large benefit for MR
 - TTNT
 - OS
 - After both R-CHOP and BR

Martin et al, JCO 2022

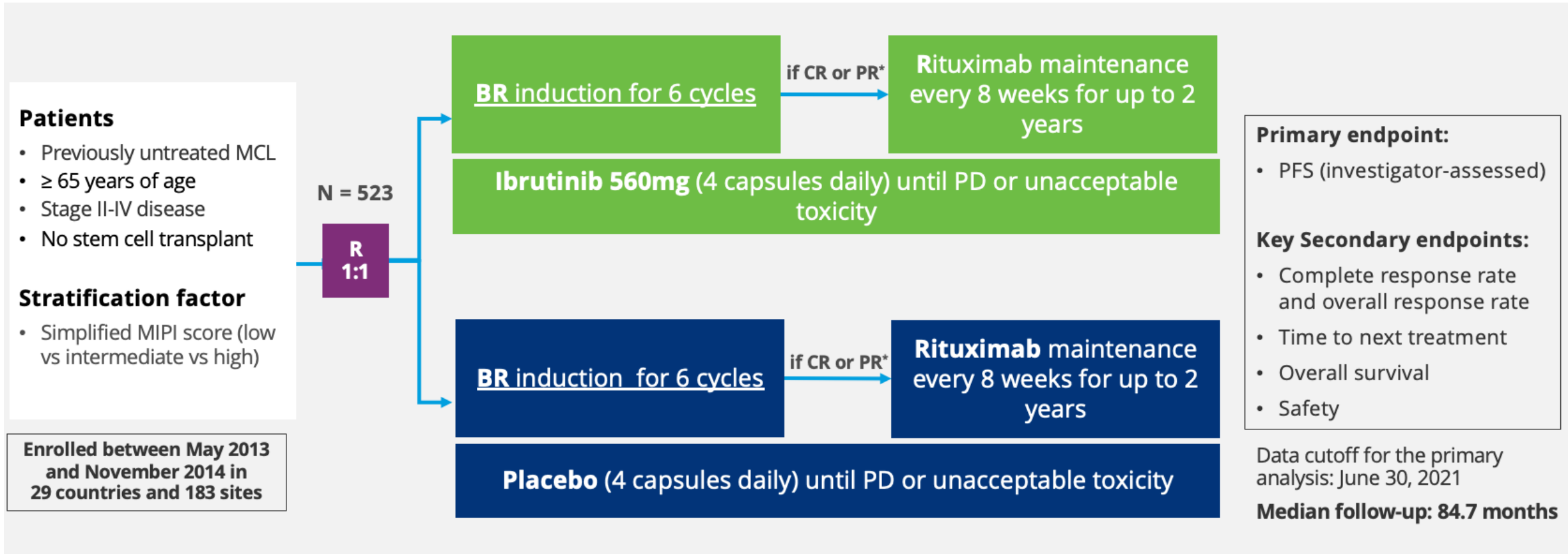
Figure 2. Kaplan-Meier Curves for (A) rwTTNT and (B) rwOS for BR ± MR and R-CHOP ± MR in MR-Eligible Cohort



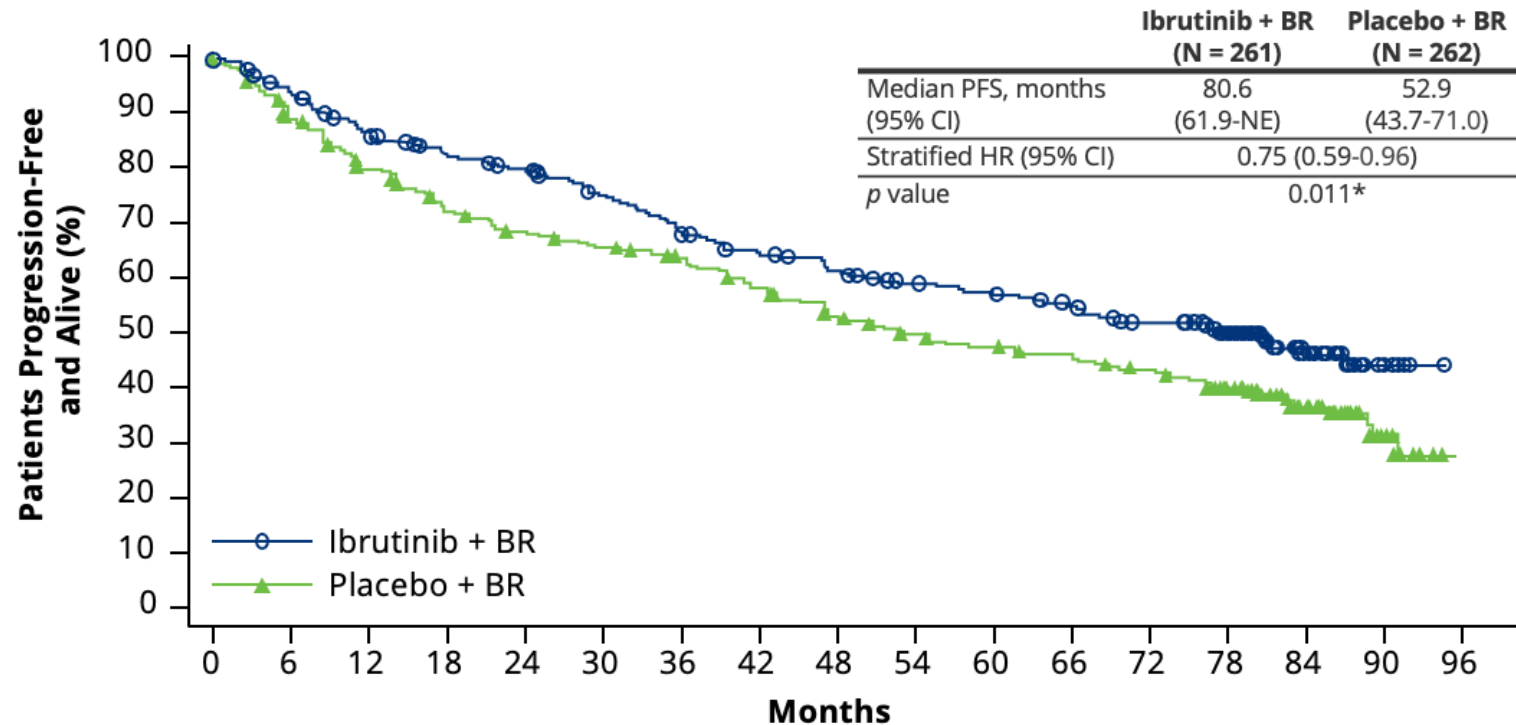
Thoughts on Maintenance Rituximab

- Preponderance of data suggests major benefit in MCL
- Actually impacts OS, not just PFS (as in follicular lymphoma)
- Still unclear regarding “optimal duration”
 - 2 yrs vs. 3 yrs vs. 5 yrs vs. indefinite?
- COVID 19 Pandemic has created new challenges
 - Prolonged B cell depletion leads to worse infections and inability to vaccinate

Primary Results From the Double-Blind, Placebo-Controlled, Phase III SHINE Study of Ibrutinib in Combination With Bendamustine-Rituximab and Rituximab Maintenance as a First-Line Treatment for Older Patients With Mantle Cell Lymphoma



Progression Free Survival

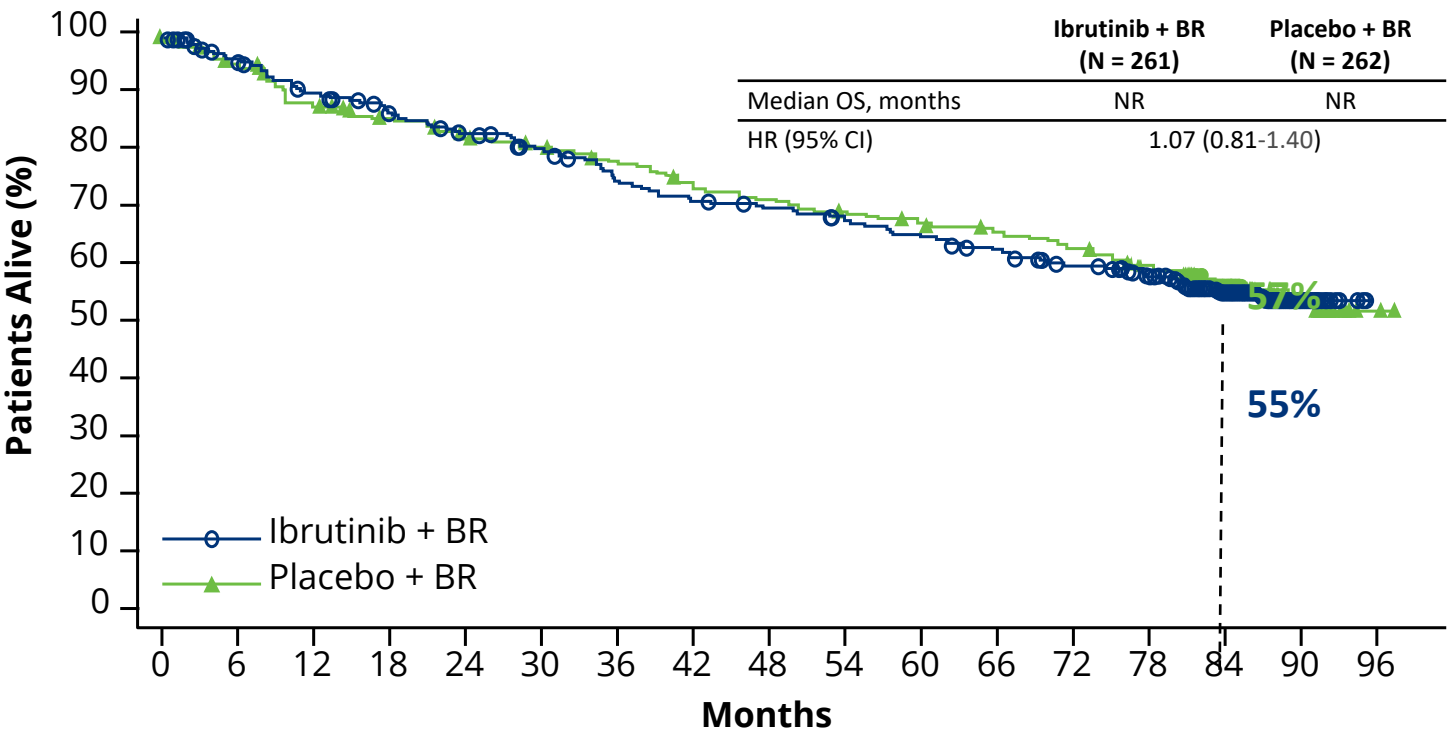


Patients at Risk

Ibrutinib + BR	261	228	207	191	182	167	152	139	130	120	115	106	95	78	39	11	0
Placebo + BR	262	226	199	177	166	158	148	135	119	109	103	98	90	78	41	11	0

- Ibrutinib combined with BR and R maintenance demonstrated a **25% reduction in the relative risk of disease progression or death** versus BR and R maintenance
- Significant improvement in median PFS: 80.6 month (6.7 years) versus 52.9 months (4.4 years) ($\Delta=2.3$ years)**

Overall Survival Similar in Both Arms



Cause of death	Ibrutinib+BR (N=261)	Placebo+BR (N=262)
Death due to PD	30 (11.5%)	54 (20.6%)
Death due to TEAEs*	28 (10.7%)	16 (6.1%)
Death during post-treatment follow-up period excluding PD	46 (17.6%)	37 (14.1%)
Total deaths	104 (39.8%)	107 (40.8%)

*The most common Grade 5 TEAE was infections in the ibrutinib and placebo arms: 9 vs 5 patients. Grade 5 TEAE of cardiac disorders in 3 vs 5 patients, respectively.

Patients at Risk

Ibrutinib + BR	261	239	221	208	197	187	171	163	158	152	145	138	128	118	70	25	0
Placebo + BR	262	244	223	212	203	197	188	177	171	165	159	154	147	137	90	31	2

Wang et al, ASCO 2022

SHINE: My thoughts

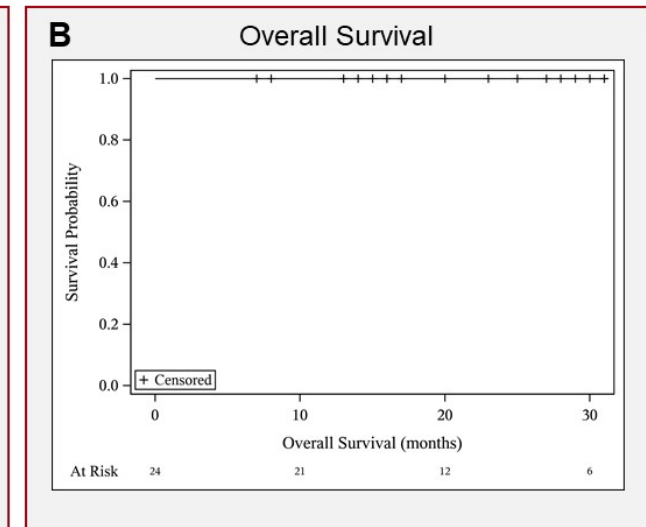
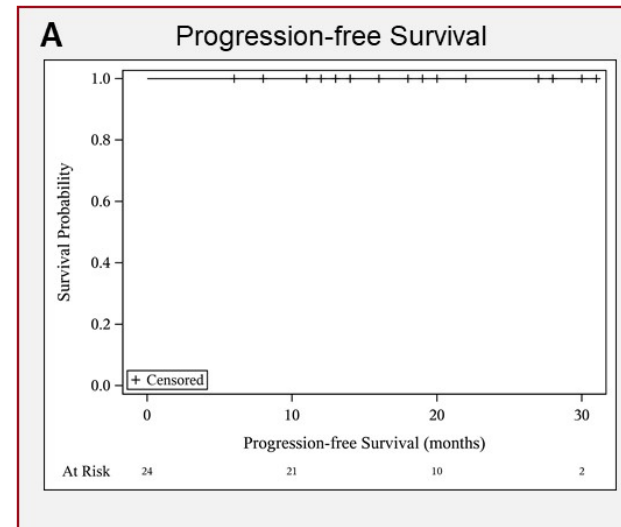
- Pro's for adding ibrutinib
 - No question adding ibrutinib improves PFS
 - Significant improvement in median PFS
 - Patients less likely to die from MCL
- Con's for adding ibrutinib
 - 5 yr PFS improves from 50 to 60% (modest)
 - Cost about \$150k/year for this benefit
 - Patients more likely to die of toxicity so no OS benefit
 - Patient will not have BTKi available for 2nd line therapy
- I will discuss with patients but do not see myself recommending it

MCL Treatment: The Horizon for Older MCL

1. SHINE trial: BR \pm ibrutinib until PD
2. ECHO: BR \pm acalabrutinib until PD
3. E1411: BR \pm bortezomib. R maintenance \pm lenalidomide
4. MANGROVE: Zanubrutinib-R vs. BR
5. ENRICH: Ibrutinib-R vs. BR/R-CHOP

R2 plus Acalabrutinib for Untreated MCL. Ruan et al. #73

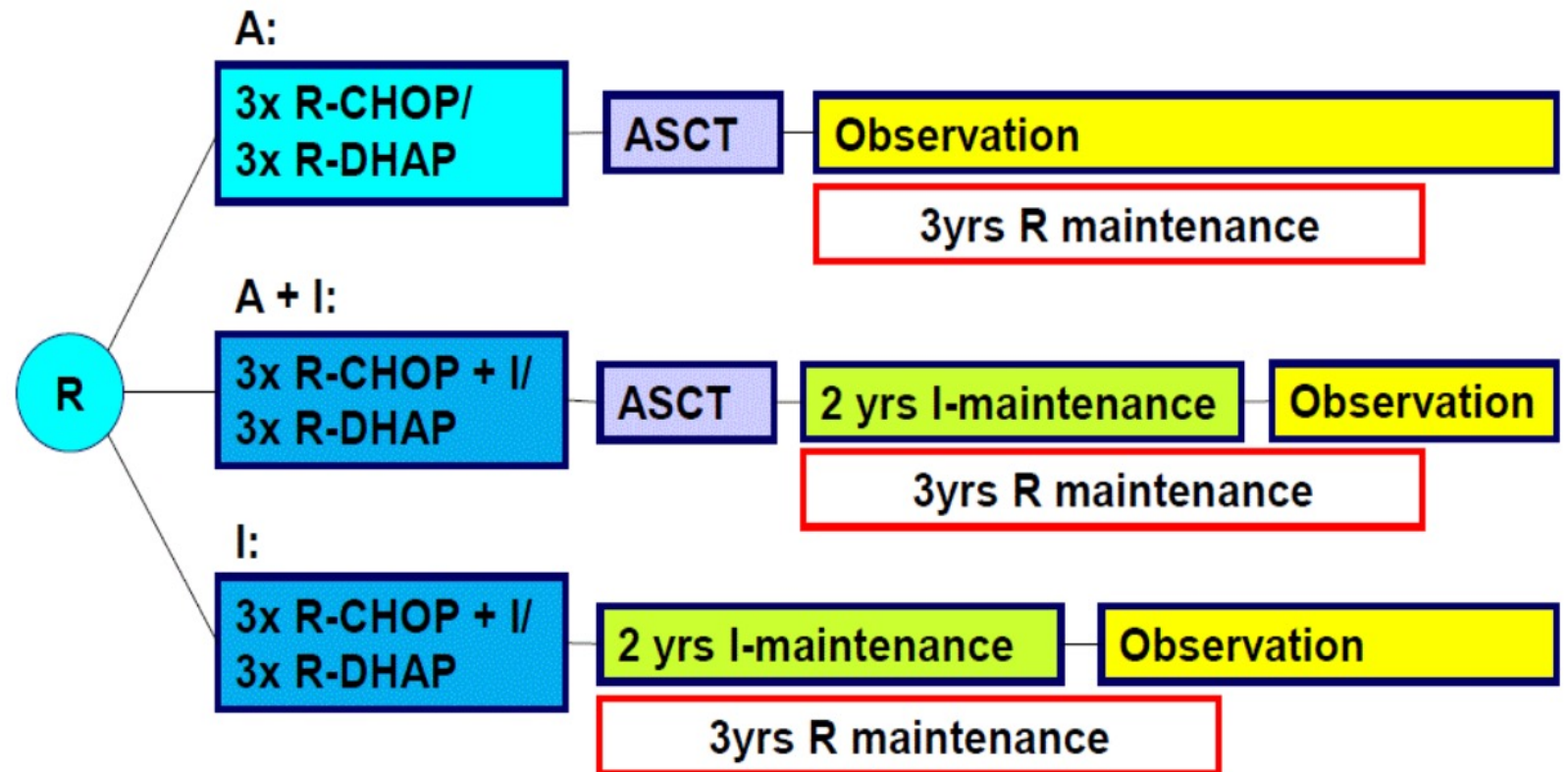
- N = 24. Median age 64.
- MIPI low/int/high = 37/42/21%
- P53 mutations in 7 patients
- RESULTS
- ORR 100%. CR 90%.
- MRD negative at 12 months in 71%
- No unexpected toxicities
- Rash 42%



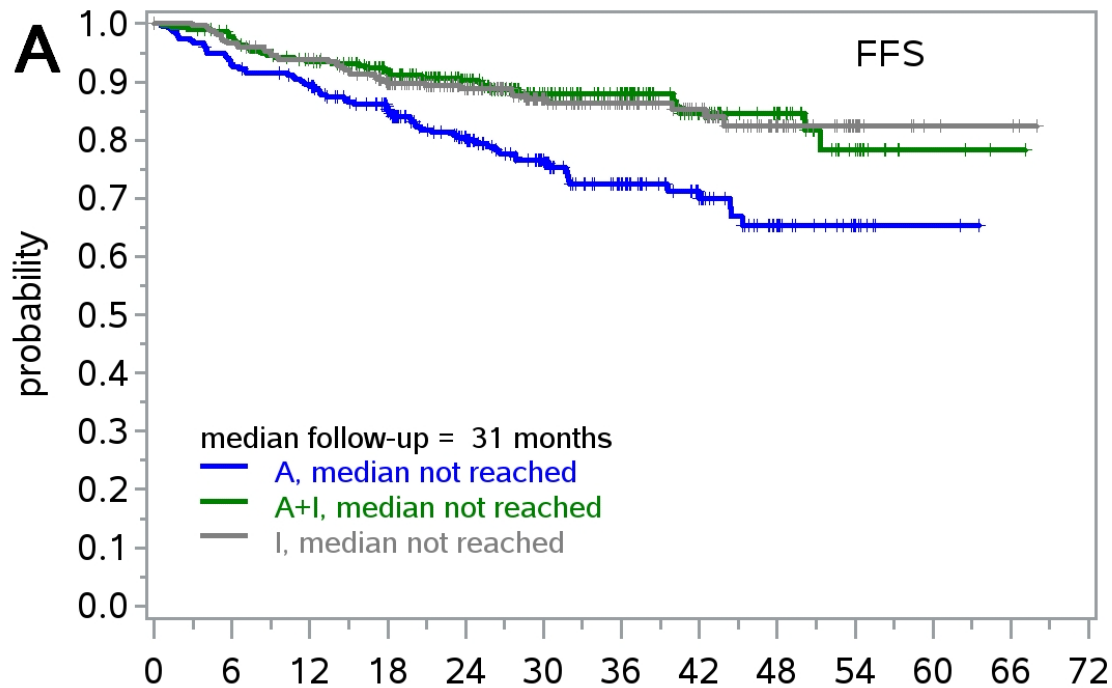
TRIANGLE Trial (European MCL Network)



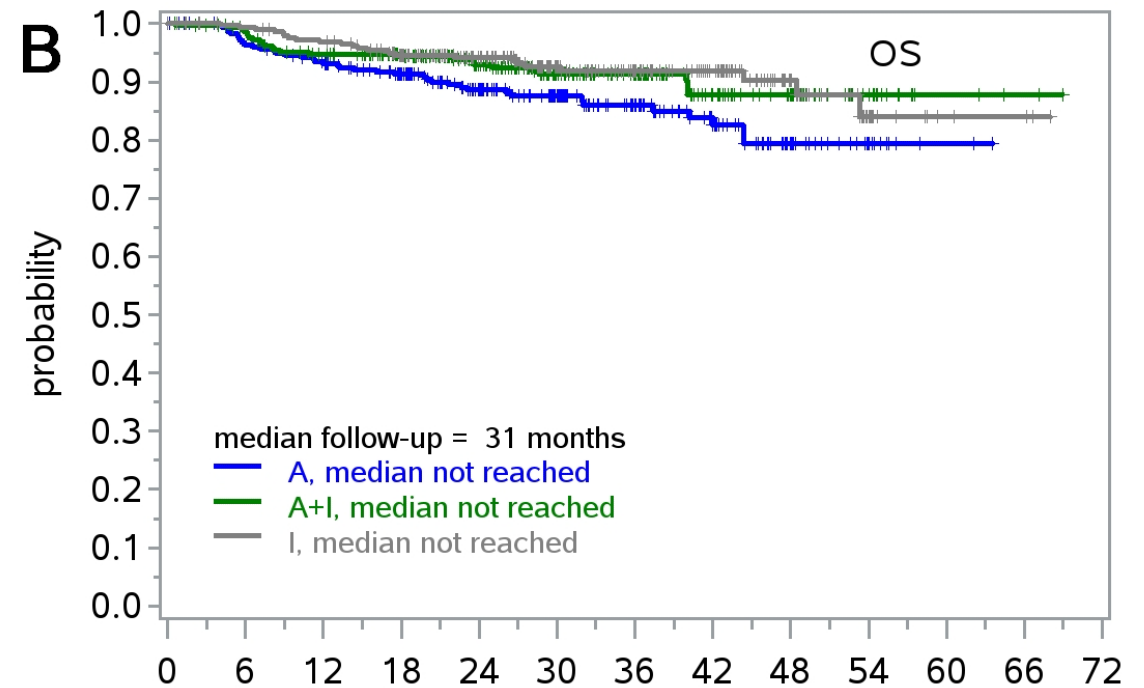
- Target 870 pts (290 per arm)
- Activated Oct 2017
- Completed accrual Dec 2020
- 1st results ASH 2022



TRIANGLE Trial, Dreyling et al, Abstract #1



Numbers At Risk		months from randomisation											
A	288	252	237	206	162	126	85	54	27	12	2	0	
A+I	292	270	253	226	184	137	109	65	40	17	3	1	
I	290	269	257	229	180	133	100	68	34	16	4	3	



Numbers At Risk		months from randomisation											
A	288	270	256	230	181	145	97	63	32	15	2	0	
A+I	292	280	262	238	195	142	113	67	42	19	4	2	
I	290	281	272	248	197	145	109	77	38	16	4	3	

TRIANGLE TRIAL Details and Potential Impact

Toxicity

- Ibrutinib did not increase R-CHOP/R-DHAP toxicity
- Ibrutinib did increase serious infection risk after ASCT
 - A+I more toxic than A or I alone

Conclusions

- Arm C (ibrutinib and no ASCT) appears to be the winner
 - Best combination of efficacy and toxicity
- Addition of ibrutinib during induction and for 2 years as maintenance allows for the subtraction of ASCT in 1st remission

Three FDA-approved BTK inhibitors in R/R MCL

	Ibrutinib	Acalabrutinib	Zanubrutinib
Approval Date	November 13, 2013	October 31, 2017	November 14, 2019
Dose	560 mg QD	100 mg BID	160 mg BID or 320 QD
Trial Size	N = 111	N = 124	N = 86
ORR	68%	89%	84%
CR	21%	48%	78%
mDOR	~18 months	~28 months	~36 months

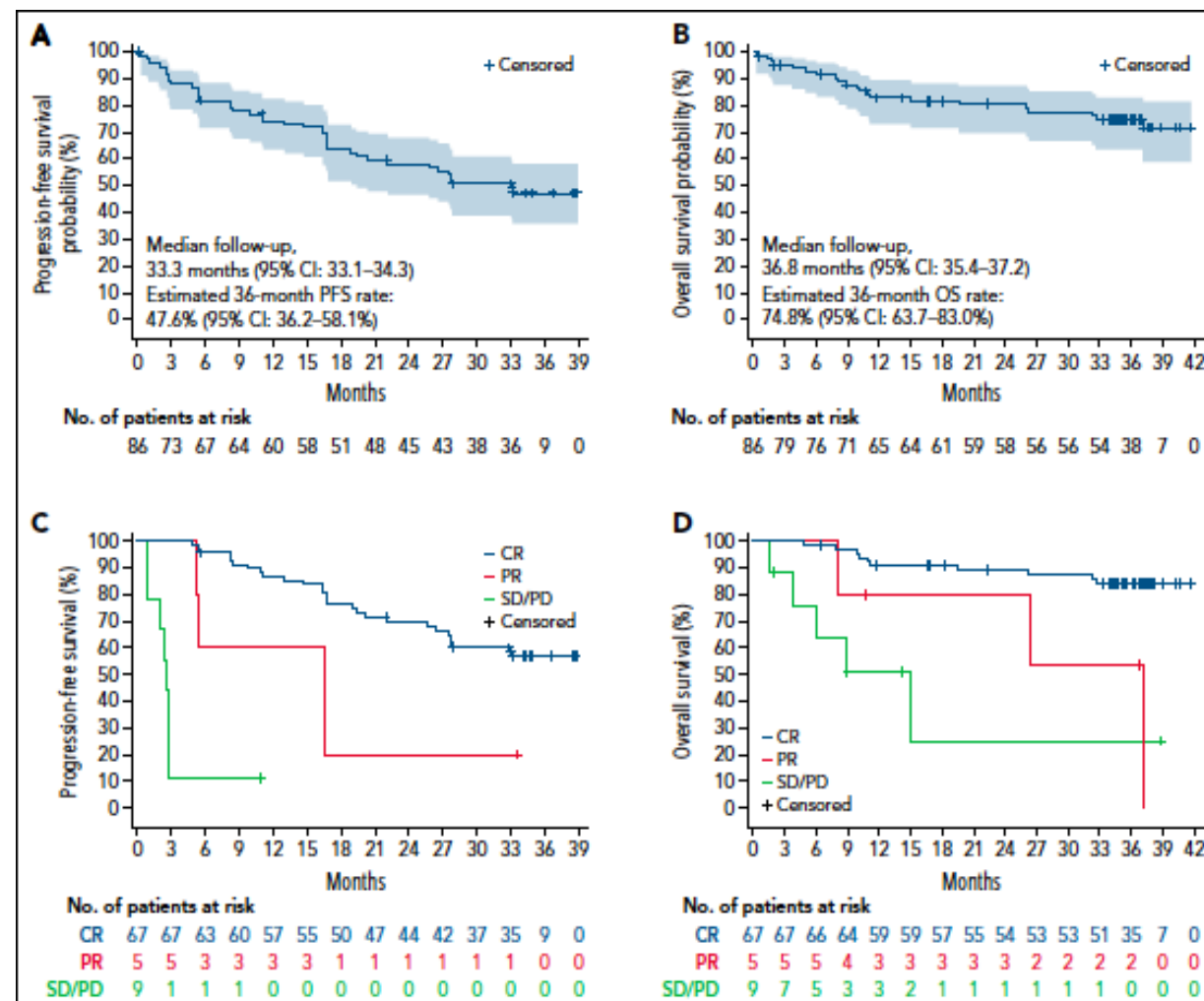
CLINICAL TRIALS AND OBSERVATIONS

Zanubrutinib in relapsed/refractory mantle cell lymphoma: long-term efficacy and safety results from a phase 2 study

Yuqin Song,¹ Keshu Zhou,² Dehui Zou,³ Jianfeng Zhou,⁴ Jianda Hu,⁵ Haiyan Yang,⁶ Huilai Zhang,⁷ Jie Ji,⁸ Wei Xu,⁹ Jie Jin,¹⁰ Fangfang Lv,¹¹ Ru Feng,¹² Sujun Gao,¹³ Haiyi Guo,¹⁴ Lei Zhou,¹⁵ Jane Huang,¹⁶ William Novotny,¹⁶ Pil Kim,¹⁶ Yiling Yu,¹⁴ Binghao Wu,¹⁴ and Jun Zhu¹

Table 1. Summary of investigator-assessed efficacy

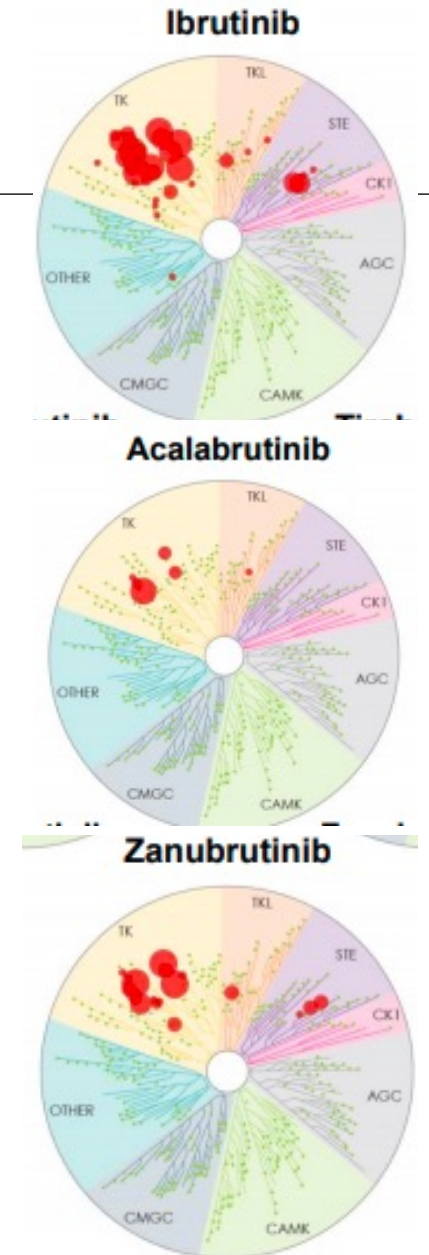
Efficacy variable	n = 86
ORR (CR + PR), % (95% CI)*	83.7 (74.2-90.8)
Best response, n (%)	
CR	67 (77.9)
PR	5 (5.8)
SD	1 (1.2)
PD	8 (9.3)
Discontinued before first assessment	5 (5.8)
Time to response (mo)	
Median (range)	2.7 (2.5-3.0)
Time to CR (mo)	
Median (range)	2.8 (2.5-16.7)
Response duration (mo)	
Median† (range)	NE (2.3-36.2+)
95% CI	(24.9-NE)
Event-free rates‡ at 30 mo (%)	57.3
95% CI	(44.9-67.9)



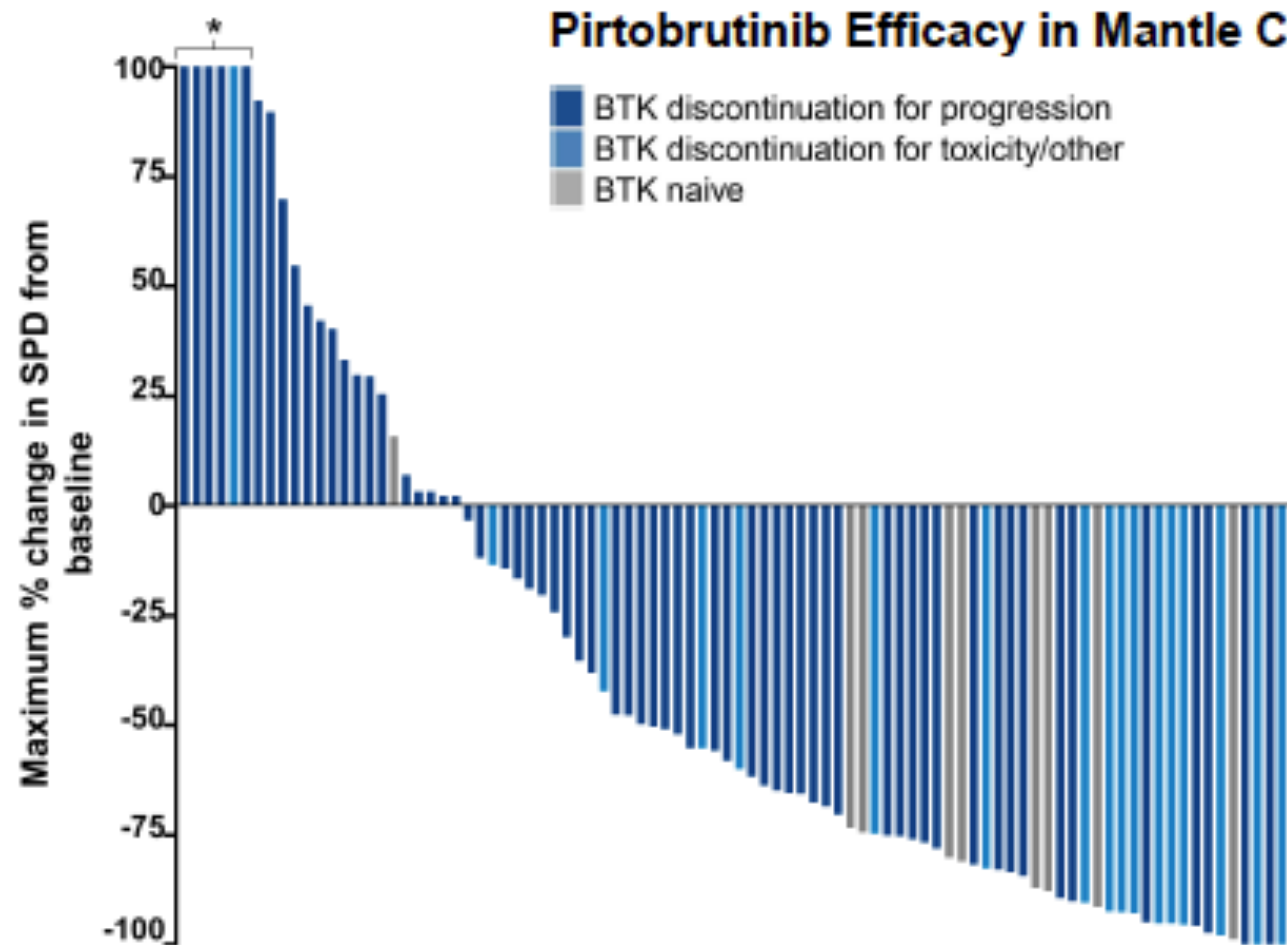
Blood, May 2022

BTKi Comparisons

- Acalabrutinib and Zanubrutinib better tolerated than Ibrutinib in CLL and WM
 - ELEVATE R/R trial
 - ALPINE Trial
 - ASPEN Trial
- Zanubrutinib more active than ibrutinib in CLL
 - ALPINE Trial
- Zanubrutinib vs. Acalabrutinib never done
 - Cross trial comparisons suggest similar efficacy and tolerability
- I prefer zanubrutinib/acalabrutinib over ibrutinib for MCL



BRUIN: Updated Results with Pirtobrutinib for MCL



Data cutoff date of 15 July 2021. Data for 28 MCL patients are not shown in the waterfall plot due to no measurable target before identified by CT at baseline, discontinuation prior to first response assessment, or lack of adequate imaging to follow-up. *Indicates patients with >100% increase in SPD.

BTK Pre-Treated MCL Patients ^a n=100	
Overall Response Rate ^b , % (95% CI)	51% (41-61)
Best Response	
CR, n (%)	25 (25)
PR, n (%)	26 (26)
SD, n (%)	16 (16)
BTK Naive MCL Patients ^a n=11	
Overall Response Rate ^b , % (95% CI)	82% (48-98)
Best Response	
CR, n (%)	2 (18)
PR, n (%)	7 (64)
SD, n (%)	1 (9)

^aEfficacy evaluable patients are those who had at least one post-baseline response assessment or had discontinued treatment prior to first post-baseline response assessment. ^bORR includes patients with a best response of CR and PR. Response status per Lugano 2014 criteria (see Investigator assessment). Total % may be different than the sum of the individual components due to rounding.

- Efficacy also seen in patients with prior:
 - Stem cell transplant (n=28): ORR 64% (95% CI: 44-81)
 - CAR-T therapy (n=6): ORR 50% (95% CI: 12-88)

BRUIN: Updated Safety Results with Pirtobrutinib for MCL

All Doses and Patients (n=618)						Treatment-Related AEs, %	
Treatment-Emergent AEs, (≥15%), %							
Adverse Event	Grade 1	Grade 2	Grade 3	Grade 4	Any Grade	Grades 3/4	Any Grade
Fatigue	13%	8%	1%	-	23%	1%	9%
Diarrhea	15%	4%	<1%	<1%	19%	<1%	8%
Neutropenia ^a	1%	2%	8%	6%	18%	8%	10%
Contusion	15%	2%	-	-	17%	-	12%
AEs of special interest ^b							
Bruising ^c	20%	2%	-	-	22%	-	15%
Rash ^d	9%	2%	<1%	-	11%	<1%	5%
Arthralgia	8%	3%	<1%	-	11%	-	3%
Hemorrhage ^e	5%	2%	1% ^g	-	8%	<1%	2%
Hypertension	1%	4%	2%	-	7%	<1%	2%
Atrial fibrillation/flutter ^f	-	1%	<1%	<1%	2% ^h	-	<1%

R/R MCL: BTK plus...

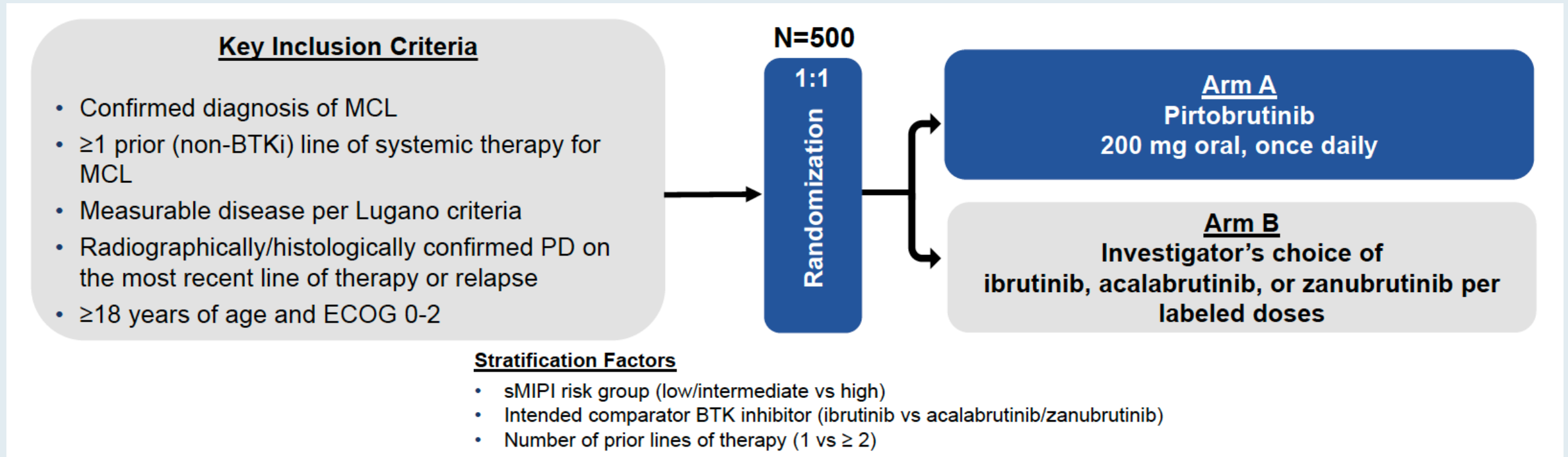
Completed

1. Ibrutinib plus Venetoclax - 71% CR (AIM Study)
2. Ibrutinib + Obinutuzumab + Venetoclax - 67% CR (OASIS study)

Ongoing Phase III Trials

1. Ibrutinib vs. Ibrutinib plus Venetoclax (SYMPATICO)
2. Pirtobrutinib vs. SOC BTK (LOXO 305)

BRUIN MCL-321 Phase III Study Design



Glofitamab for R/R MCL. Philips et al. Abstract #74.

Patient Characteristics

- N = 37
- Median Age 72
- Median prior therapy 3 (1-5)

Treatment Schedule

- Obinutuzumab D1
 - 1000 vs 2000 mg
- Glofit step up dosing D 8, 15
- Glofit 30mg q 3w x 12 cycles

Results

- ORR 84%
- CR 73%
- Median f/u 8 months
- Median DOR 12.6 months
- CRS 76%
 - Tocilizumab in 17 patients
- Neurotox 51% (gr 1-2)

R2 plus Venetoclax for R/R MCL. Abstract 76. Zandelisib plus Zanubrutinib for R/R MCL. Abstract 78.

Jerkeman et al, #76

- N = 59, Median age 73
- Median prior lines 2
- Ven 600 mg. Len 15 mg.
- ORR 63%. CR 49%.
- Durability ?
- Grade 3-4 neutropenia in 88%.
- Grade 3-4 thrombocytopenia 36%.
- Grade 3-4 infection 14%.
- Grade 3 rash in 8%.

Soumerai et al, #78

- N = 19. Median age 67.
- Median prior lines 2
- Zandelisib 60 mg. Zanu 80 mg BID.
- ORR 76%. CR 35%.
- Median PFS 10 months
- Diarrhea 32%
- Headache 18%
- Arthralgia 16%
- Rash 16%

Addressing Current Questions and Controversies in the Management of Hodgkin and Non-Hodgkin Lymphoma — What Clinicians Want to Know

*Part 2 of a 3-Part CME Friday Satellite Symposium and Virtual Event Series
Preceding the 64th ASH Annual Meeting*

Friday, December 9, 2022

3:15 PM – 5:15 PM CT

Faculty

Jonathan W Friedberg, MD, MMSc

Brad S Kahl, MD

David G Maloney, MD, PhD

Loretta J Nastoupil, MD

Sonali M Smith, MD

Moderator

Neil Love, MD

Addressing Current Questions and Controversies in the Management of Multiple Myeloma — What Clinicians Want to Know

*Part 3 of a 3-Part CME Friday Satellite Symposium and Virtual Event Series
Preceding the 64th ASH Annual Meeting*

Friday, December 9, 2022

7:00 PM – 9:00 PM CT (8:00 PM – 10:00 PM ET)

Faculty

Jesús G Berdeja, MD
Rafael Fonseca, MD
Sagar Lonial, MD

Robert Z Orlowski, MD, PhD
Noopur Raje, MD

Moderator

Neil Love, MD

Thank you for attending!

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