

# **Year in Review — Clinical Investigators Provide Perspectives on the Most Relevant New Publications, Data Sets and Advances in Oncology: Lymphomas**

**Thursday, January 14, 2021  
5:00 PM – 6:00 PM ET**

## **Faculty**

**Christopher R Flowers, MD, MS  
Sonali M Smith, MD**

## **Moderator**

**Neil Love, MD**

## YiR Lymphomas Faculty



**Christopher R Flowers, MD, MS**

Chair, Professor

Department of Lymphoma/Myeloma

The University of Texas MD Anderson Cancer Center

Houston, Texas



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Elwood V Jensen Professor of Medicine

Interim Chief, Section of Hematology/Oncology

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The University of Chicago

Chicago, Illinois

## Commercial Support

This activity is supported by educational grants from Bayer HealthCare Pharmaceuticals, Bristol-Myers Squibb Company, Epizyme Inc, Incyte Corporation, Karyopharm Therapeutics, Novartis, Pharmacyclics LLC, an AbbVie Company and Janssen Biotech Inc, administered by Janssen Scientific Affairs LLC, and Seagen Inc.

## Dr Love — Disclosures

**Dr Love** is president and CEO of Research To Practice. Research To Practice receives funds in the form of educational grants to develop CME activities from the following commercial interests: AbbVie Inc, Acerta Pharma — A member of the AstraZeneca Group, Adaptive Biotechnologies Corporation, Agendia Inc, Agios Pharmaceuticals Inc, Amgen Inc, Array BioPharma Inc, a subsidiary of Pfizer Inc, Astellas, AstraZeneca Pharmaceuticals LP, Bayer HealthCare Pharmaceuticals, Biodesix Inc, bioTheranostics Inc, Blueprint Medicines, Boehringer Ingelheim Pharmaceuticals Inc, Bristol-Myers Squibb Company, Celgene Corporation, Clovis Oncology, Daiichi Sankyo Inc, Dendreon Pharmaceuticals Inc, Eisai Inc, EMD Serono Inc, Epizyme Inc, Exact Sciences Inc, Exelixis Inc, Foundation Medicine, Genentech, a member of the Roche Group, Genmab, Gilead Sciences Inc, GlaxoSmithKline, Grail Inc, Guardant Health, Halozyme Inc, Helsinn Healthcare SA, ImmunoGen Inc, Incyte Corporation, Infinity Pharmaceuticals Inc, Ipsen Biopharmaceuticals Inc, Janssen Biotech Inc, administered by Janssen Scientific Affairs LLC, Jazz Pharmaceuticals Inc, Karyopharm Therapeutics, Kite, A Gilead Company, Lexicon Pharmaceuticals Inc, Lilly, Loxo Oncology Inc, a wholly owned subsidiary of Eli Lilly & Company, Merck, Merrimack Pharmaceuticals Inc, Myriad Genetic Laboratories Inc, Natera Inc, Novartis, Novocure Inc, Oncoceptides, Pfizer Inc, Pharmacyclics LLC, an AbbVie Company, Prometheus Laboratories Inc, Puma Biotechnology Inc, Regeneron Pharmaceuticals Inc, Sandoz Inc, a Novartis Division, Sanofi Genzyme, Seagen Inc, Sirtex Medical Ltd, Spectrum Pharmaceuticals Inc, Sumitomo Dainippon Pharma Oncology Inc, Taiho Oncology Inc, Takeda Oncology, Tesaro, A GSK Company, Teva Oncology, Tokai Pharmaceuticals Inc and Verastem Inc.



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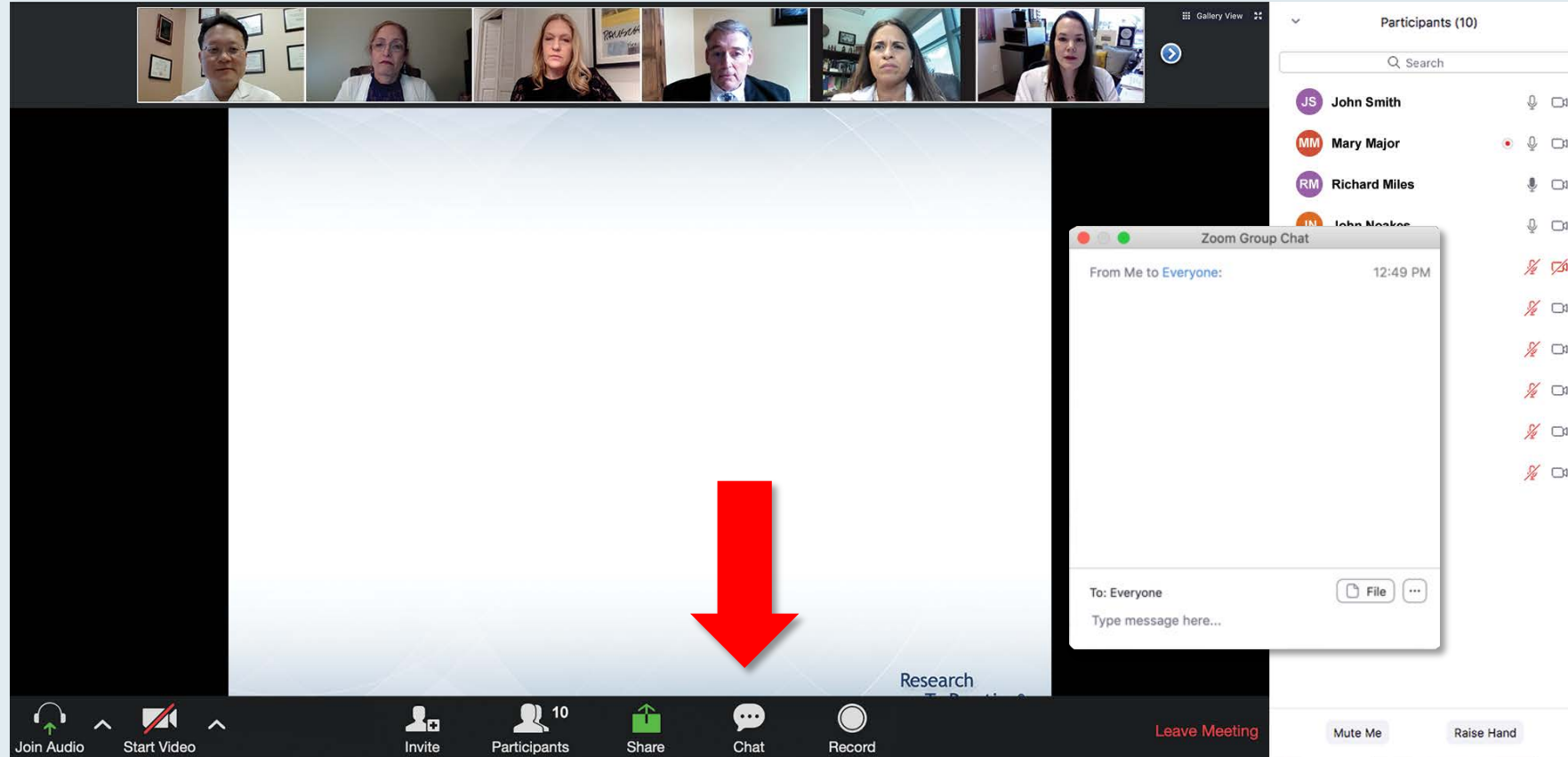
## Dr Flowers — Disclosures

<b>Consulting Agreements</b>	AbbVie Inc, Bayer HealthCare Pharmaceuticals, BeiGene, Celgene Corporation, Denovo Biopharma, Genentech, a member of the Roche Group, Gilead Sciences Inc, Janssen Biotech Inc, Karyopharm Therapeutics, MEI Pharma Inc, Pharmacyclics LLC, an AbbVie Company, Spectrum Pharmaceuticals Inc
<b>Contracted Research</b>	AbbVie Inc, Acerta Pharma — A member of the AstraZeneca Group, Burroughs Wellcome Fund, Cancer Prevention and Research Institute of Texas, Celgene Corporation, Eastern Cooperative Oncology Group, Genentech, a member of the Roche Group, Gilead Sciences Inc, Janssen Biotech Inc, National Cancer Institute, Pharmacyclics LLC, an AbbVie Company, Takeda Oncology, TG Therapeutics Inc, V Foundation for Cancer Research

## Dr Smith — Disclosures

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# We Encourage Clinicians in Practice to Submit Questions



Feel free to submit questions now before the program begins and throughout the program.

# Familiarizing Yourself with the Zoom Interface

## How to answer poll questions

The screenshot displays a Zoom meeting interface. At the top, a gallery view shows six participants. The main screen displays a poll question: "What is your usual treatment recommendation for a patient with MM who has been followed by ASCT for 1-5 years who then experiences an asymptomatic relapse?". Below the question is a list of 10 treatment options, each preceded by a number. A "Quick Poll" overlay is visible, showing a list of radio button options corresponding to the poll choices. The bottom of the screen features a toolbar with icons for "Join Audio", "Start Video", "Invite", "Participants" (showing 10), "Share", "Chat", "Record", and a "Leave Meeting" button. On the right side, a "Participants (10)" list is visible, showing names and status icons.

What is your usual treatment recommendation for a patient with MM who has been followed by ASCT for 1-5 years who then experiences an asymptomatic relapse?

1. Carfilzomib +/- dexamethasone
2. Pomalidomide +/- dexamethasone
3. Carfilzomib + pomalidomide +/- dexamethasone
4. Elotuzumab + lenalidomide +/- dexamethasone
5. Elotuzumab + pomalidomide +/- dexamethasone
6. Daratumumab + lenalidomide +/- dexamethasone
7. Daratumumab + pomalidomide +/- dexamethasone
8. Daratumumab + bortezomib +/- dexamethasone
9. Ixazomib + Rd
10. Other

Co-provided by USF Health Research To Practice®

Participants (10)

Name	Status
JS John Smith	Microphone On, Video On
MM Mary Major	Microphone On, Video On
RM Richard Miles	Microphone On, Video On
JN John Noakes	Microphone On, Video On
AS Alice Suarez	Microphone Off, Video Off
JP Jane Perez	Microphone Off, Video Off
RS Robert Stiles	Microphone Off, Video Off
JF Juan Fernandez	Microphone Off, Video Off
AK Ashok Kumar	Microphone Off, Video Off
JS Jeremy Smith	Microphone Off, Video Off

When a poll question pops up, click your answer choice from the available options.  
Results will be shown after everyone has answered.

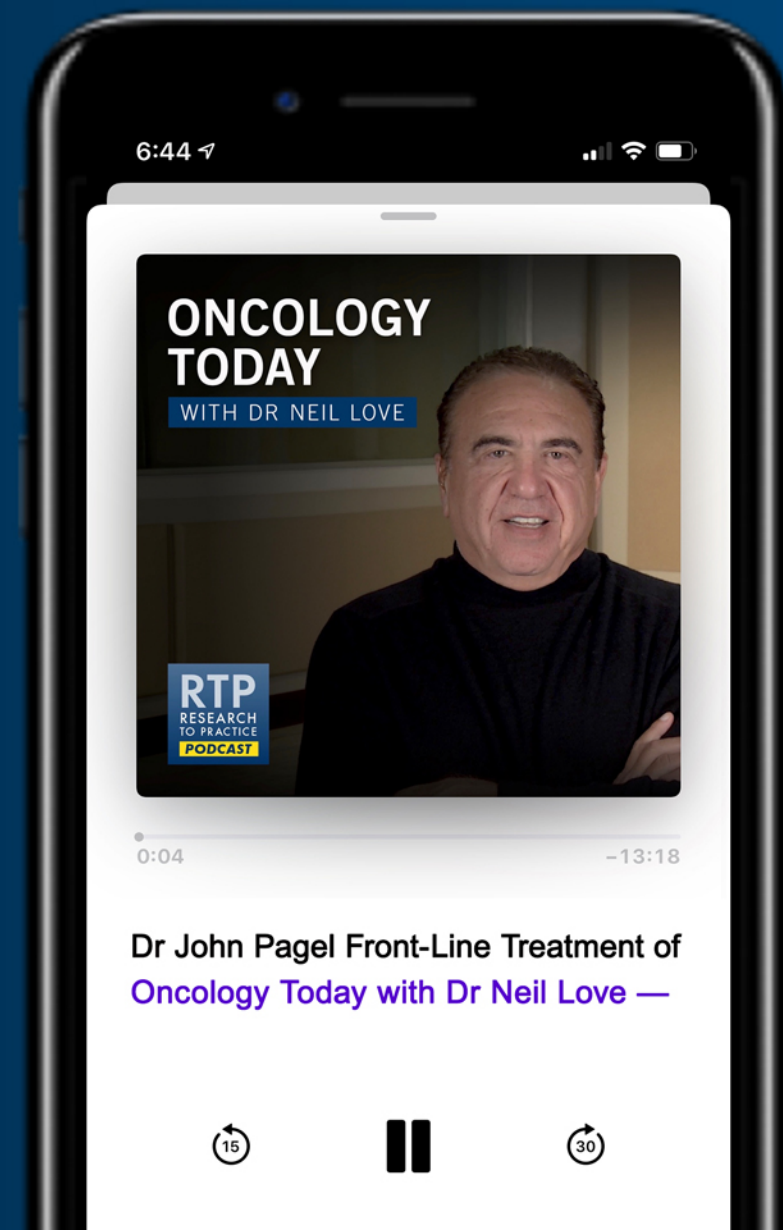
# ONCOLOGY TODAY

WITH DR NEIL LOVE

## FRONT-LINE TREATMENT OF CHRONIC LYMPHOCYTIC LEUKEMIA



DR JOHN PAGEL  
SWEDISH CANCER INSTITUTE  
SEATTLE, WASHINGTON



# **Year in Review — Clinical Investigators Provide Perspectives on the Most Relevant New Publications, Data Sets and Advances in Oncology: Nontargeted Therapy for Lung Cancer**

**Tuesday, January 19, 2021  
5:00 PM – 6:00 PM ET**

## **Faculty**

**Matthew Gubens, MD, MS  
Suresh S Ramalingam, MD**

## **Moderator**

**Neil Love, MD**

**Recent Advances in Hematologic Oncology:  
A 4-Part Live Webinar Series Reviewing Key Data and  
Presentations from the 62<sup>nd</sup> ASH Annual Meeting**

**Part 1 — Acute Myeloid Leukemia**

**Wednesday, January 20, 2021**

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Jennifer Woyach, MD**

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# ***Meet The Professor***

## **Management of Ovarian Cancer**

**Friday, January 22, 2021  
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**Professor Jonathan A Ledermann, MD**

**Moderator**

**Neil Love, MD**

***Thank you for joining us!***

***CME and MOC credit information will be emailed to each participant within 5 business days.***











- GA101

>80 yrs

<60 yrs

60-69 yrs

70-79 yrs

BR

Manafelt T. on Book. 20













Acalabrutinib + obinutuzumab

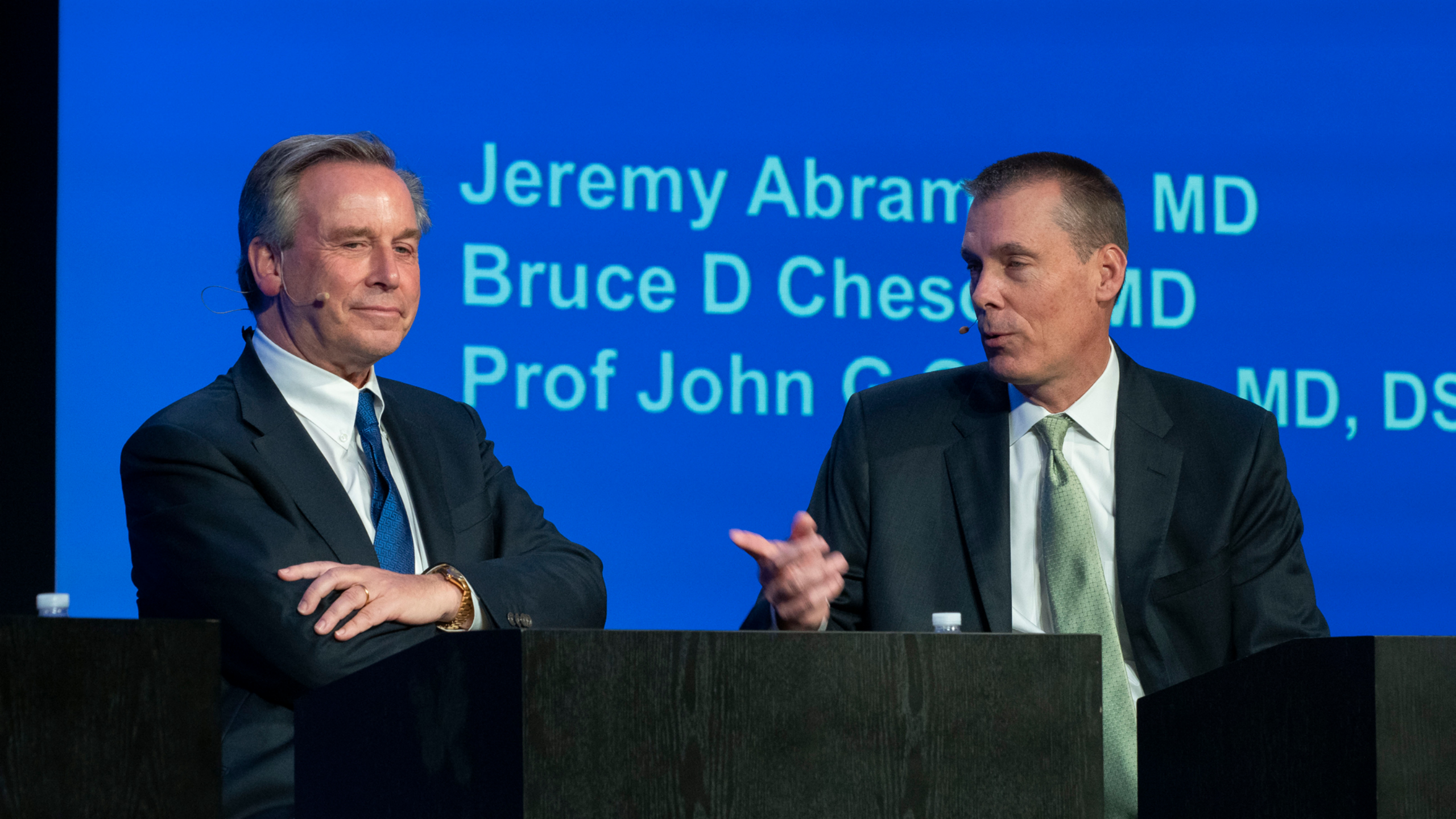
Obinutuzumab + chlorambuc

Venc... uzumab







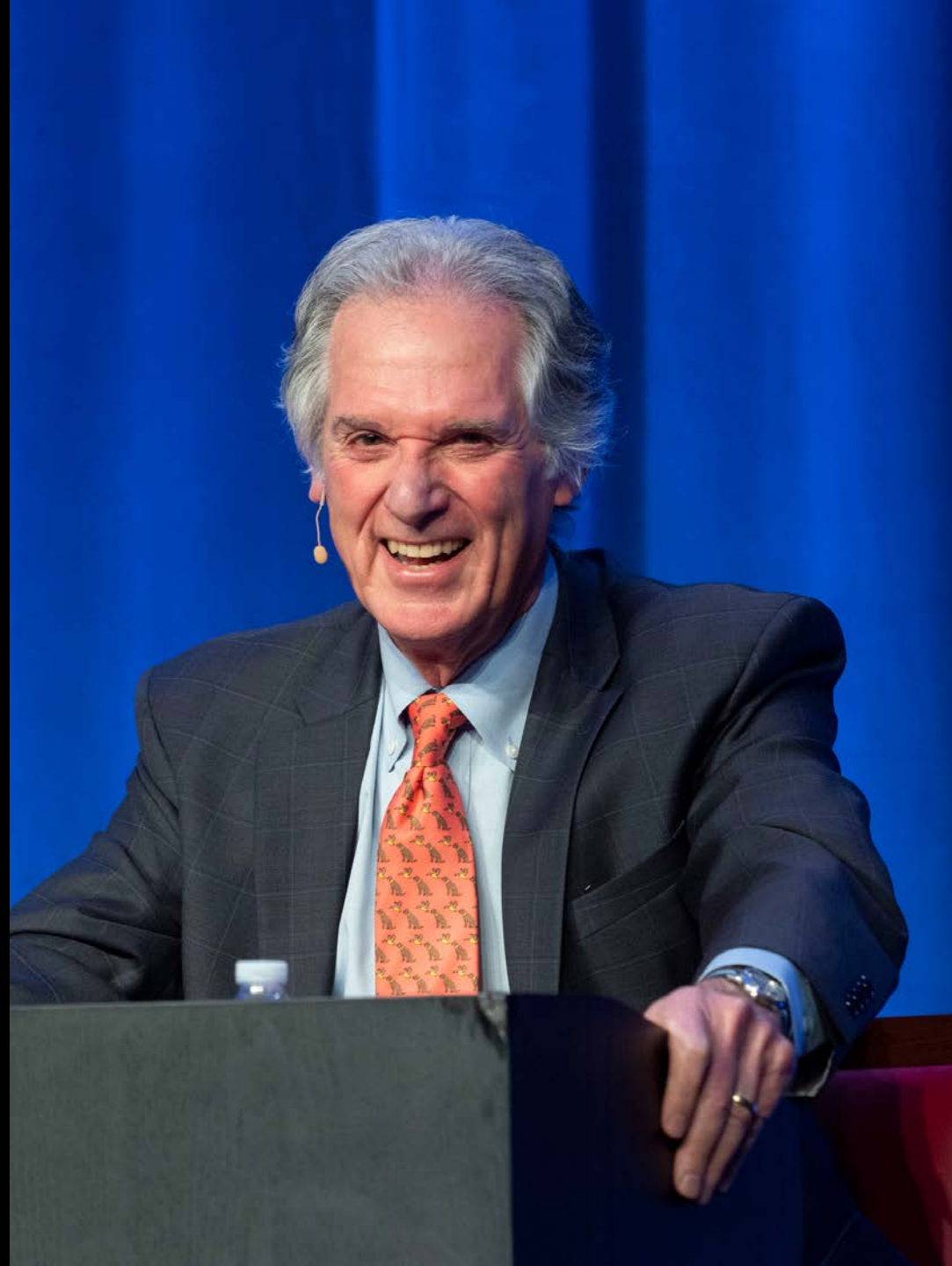


Jeremy Abram MD

Bruce D Chesco MD

Prof John C. ... MD, DS

















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# We Encourage Clinicians in Practice to Submit Questions

The screenshot displays a Zoom meeting interface. At the top, a gallery view shows six participants. The main screen displays a presentation slide with the text: "You may submit questions using the Zoom Chat option below" followed by a large red downward-pointing arrow. To the right, a "Participants (10)" list is visible, showing names like John Smith, Mary Major, Richard Miles, John Noakes, and Alice Suarez. Below the participants list, a "Zoom Group Chat" window is open, showing a message from "Me to Everyone" at 12:49 PM. The bottom toolbar includes icons for "Join Audio", "Start Video", "Invite", "Participants", "Share", "Chat", "Record", and "Leave Meeting".

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What is your usual treatment recommendation for a patient with MM followed by ASCT and maintenance experiences an as... clinical relapse?

Quick Poll

- ☐ Carfilzomib +/- dexamethasone
- ☐ Pomalidomide +/- dexamethasone
- ☐ Carfilzomib + pomalidomide +/- dexamethasone
- ☐ Elotuzumab + lenalidomide +/- dexamethasone
- ☐ Elotuzumab + pomalidomide +/- dexamethasone
- ☐ Daratumumab + lenalidomide +/- dexamethasone
- ☐ Daratumumab + pomalidomide +/- dexamethasone
- ☐ Daratumumab + bortezomib +/- dexamethasone
- ☐ Ixazomib + Rd
- ☐ Other

Submit

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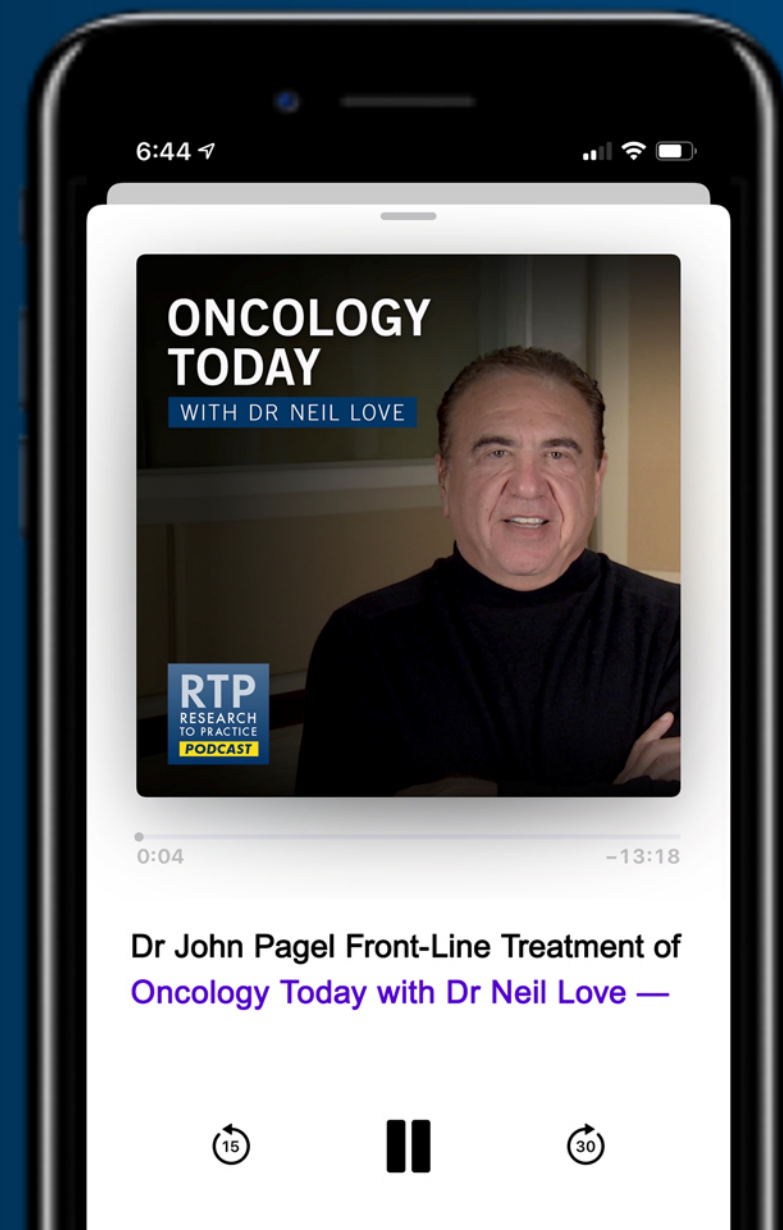
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**Module 1: Follicular lymphoma**

**Module 2: Mantle cell lymphoma**

**Module 3: Diffuse large B-cell lymphoma**

**Module 4: Hodgkin lymphoma**

**Module 5: CAR T-cell therapy in DLBCL and other lymphoma subtypes**

# Agenda

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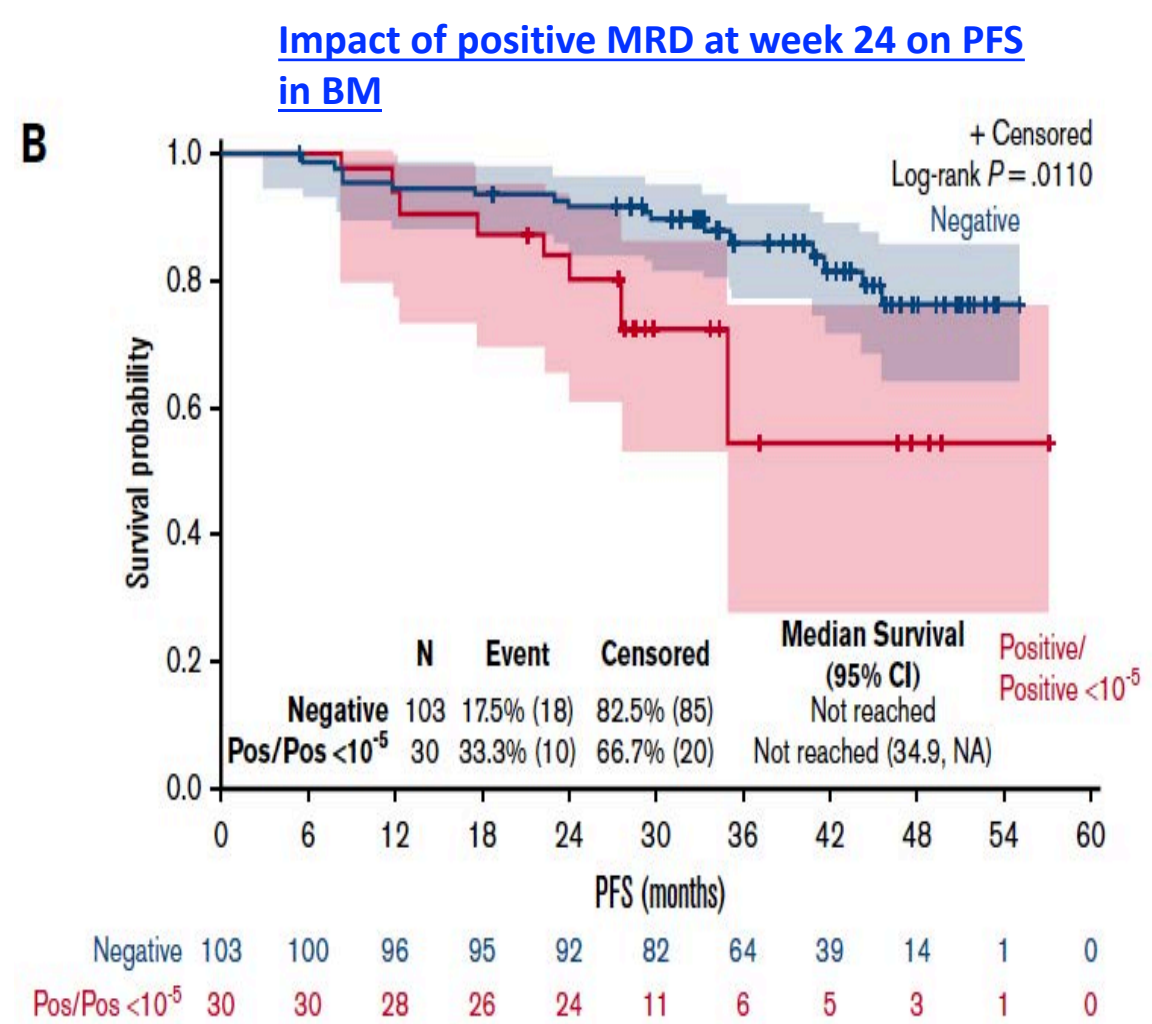
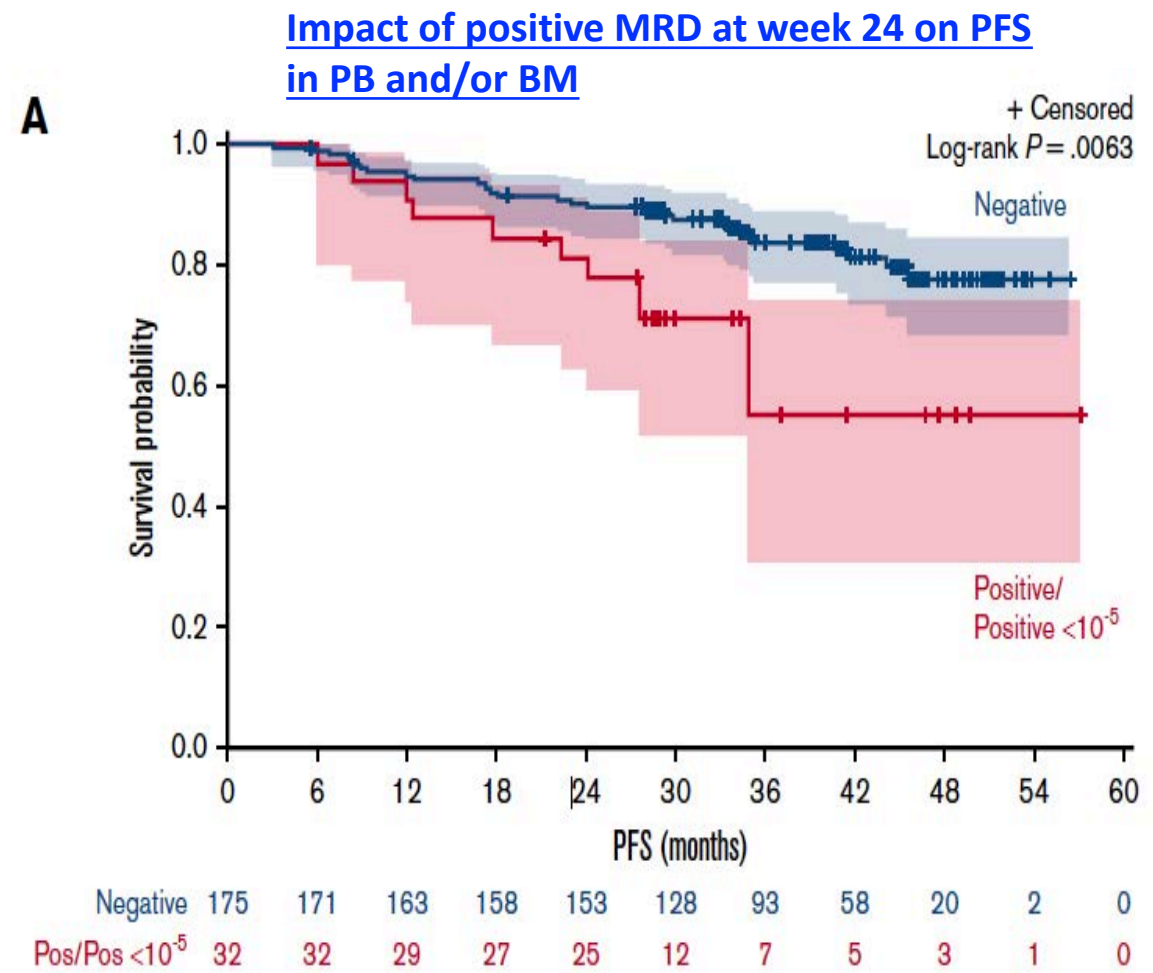
**Module 5: CAR T-cell therapy in DLBCL and other lymphoma subtypes**

# Module 1: Follicular lymphoma

- **Key Relevant Data Sets**

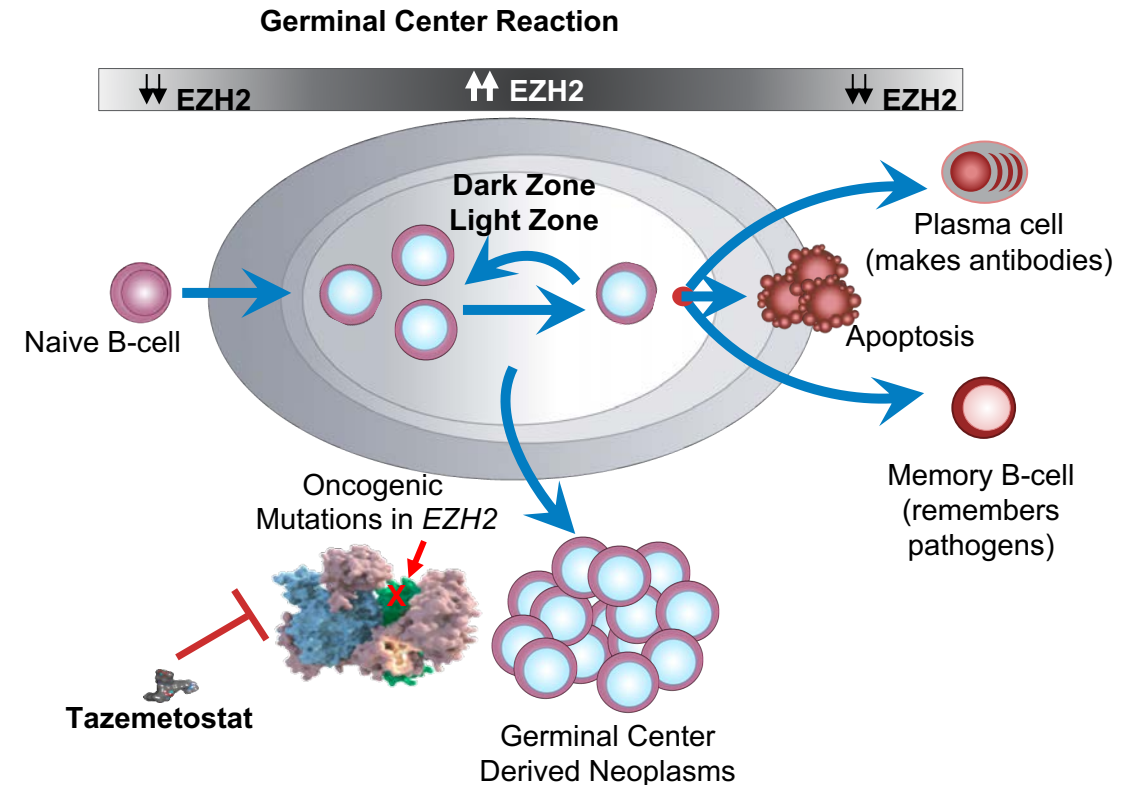
- RELEVANCE:  $R^2$  for untreated follicular lymphoma
- Tazemetostat +/- lenalidomide/rituximab
- CHRONOS: Copanlisib + rituximab for untreated and relapsed/refractory disease

# RELEVANCE Trial: R<sup>2</sup> induces high molecular response in untreated FL



# Follicular Lymphoma and EZH2

- *EZH2* an epigenetic regulator of gene expression and cell fate decisions<sup>1</sup>
- *EZH2* is required for normal B-cell biology and germinal center formation<sup>2</sup>
  - Oncogenic mutations in *EZH2* suppress exit from germinal state and “lock” B cells in this state thereby transforming into a cancer<sup>2</sup>
- *EZH2* biology relevant in both mutant (MT) and wild-type (WT) *EZH2* FL
  - ~20% of patients with FL also have *EZH2* gain of function mutations<sup>3</sup>



**Tazemetostat, a selective, oral inhibitor of EZH2 has shown antitumor activity in non-Hodgkin's lymphoma patients with either MT or WT EZH2<sup>4,5</sup>**

1. Gan L, et al. *Biomark Res.* 2018;6(1):10; 2. Béguelin W, et al. *Cancer Cell.* 2013;23(5):677-692. 3. Bódör C, et al. *Blood.* 2013;122:3165-3168. 4. Italiano A, et al. *Lancet Oncol.* 2018;19(5):649-59; 5. Morschhauser F, et al. *Hematol*

**On June 18, 2020, Tazemetostat was granted accelerated FDA approval for R/R FL with EZH2 mutations after at least 2 prior systemic therapies and for R/R FL with no satisfactory alternative treatment options**

Courtesy of John P Leonard, MD



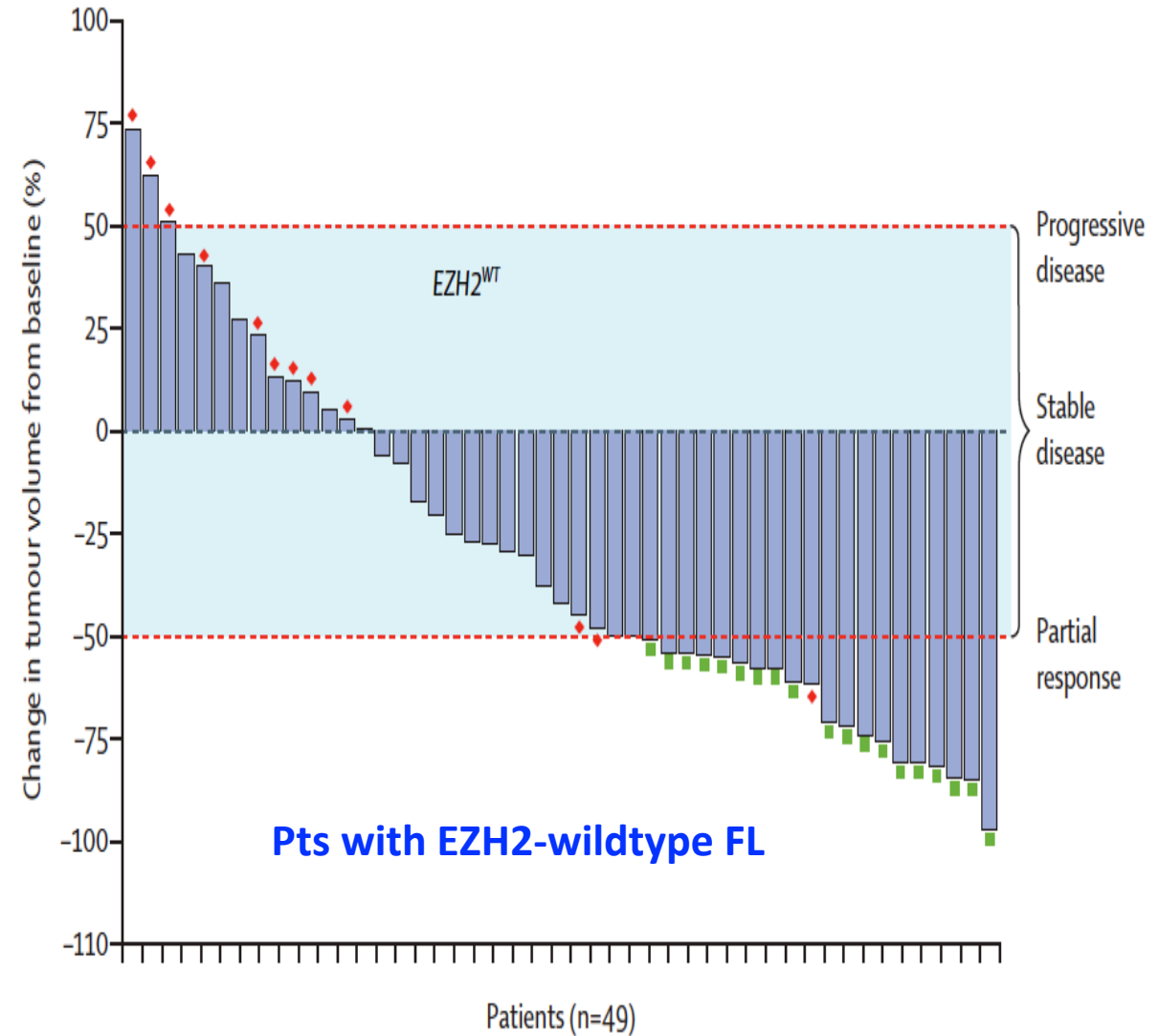
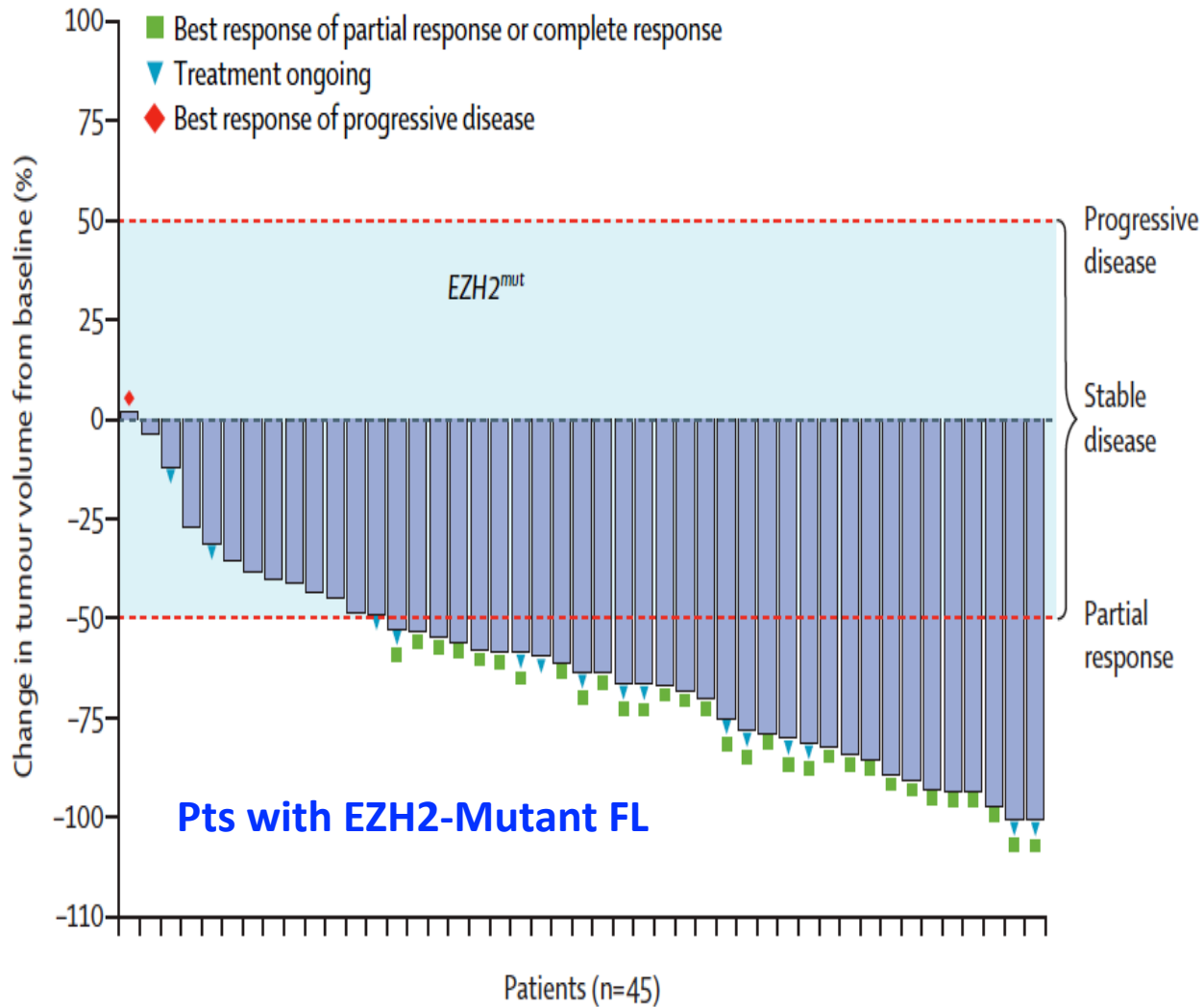
# Phase II Trial of the Oral EZH2 Inhibitor Tazemetostat for R/R FL - Response

Tumor Response by EZH2 mutation status	EZH2 <sup>mut</sup> (n=45)		EZH2 <sup>WT</sup> (n=54)	
	IRC-assessed	Investigator-assessed	IRC-assessed	Investigator-assessed
Objective response rate*	31 (69%; 53–82)	35 (78%; 63–89)	19 (35%; 23–49)	18 (33%; 21–48)
Overall disease control rate†	44 (98%)	45 (100%)	37 (69%)	34 (63%)
Best overall response				
Complete response	6 (13%)	4 (9%)	2 (4%)	3 (6%)
Partial response	25 (56%)	31 (69%)	17 (31%)	15 (28%)
Stable disease	13 (29%)	10 (22%)	18 (33%)	16 (30%)
Progressive disease	1 (2%)	0	12 (22%)	16 (30%)
Not estimable or unknown	0	0	5 (9%)	4 (7%)

Data are n (%; 95% CI) or n (%). IRC=independent radiology committee. \*Objective response rate includes patients with a complete or partial response. †Overall disease control rate includes patients with a complete response, partial response, or stable disease.



# Phase II Trial of Tazemetostat in R/R FL – Change in Tumor Volume from Baseline



# Ongoing Phase Ib/III Trial of Tazemetostat + Len/Rituximab in R/R FL

## Target accrual (N = 518)

- Must have Grade 1 to 3A FL
- Received at least 1 prior line of therapy
- No prior EZH2 inhibitor
- No prior lenalidomide for FL



**Tazemetostat**  
+  
**Rituximab/Lenalidomide (R<sup>2</sup>)**

**Placebo**  
+  
**R<sup>2</sup>**

- **Primary endpoint:**
  - **Stage 1: RP3D of tazemetostat in combination with R<sup>2</sup>**
  - **Stage 2: PFS**

# CHRONOS-3 Trial: Copanlisib + Rituximab Meets Primary Endpoint in Relapsed iNHL

Press Release: October 14, 2020

- The Phase III study CHRONOS-3 evaluating copanlisib in combination with rituximab in indolent Non-Hodgkin's Lymphoma (iNHL) patients (n=458) who have relapsed after one or more prior lines of rituximab-containing therapy has met its primary endpoint of prolonged progression-free survival (PFS). The study predominantly included patients with follicular lymphoma (FL) and marginal zone lymphoma, as well as patients with small lymphocytic lymphoma and lymphoplasmacytoid lymphoma/Waldenström macroglobulinemia.
- Safety observed in the trial was generally consistent with previously published data on the individual components of the combination and no new safety signals were identified.

If you were to administer rituximab/lenalidomide as first-line treatment for a patient with FL, what would be the duration of treatment, including maintenance therapy if used?

1. 1 year
2. 18 months
3. 2 years
4. 2.5 years
5. Other

## Have you used or would you use obinutuzumab/lenalidomide to treat FL?

1. Yes, as first line treatment and beyond
2. Yes, as second line treatment and beyond
3. No

**Regulatory and reimbursement issues aside, what is your usual second-line therapy for a 65-year-old patient with FL who achieves a complete response to 6 cycles of BR but then experiences disease relapse 4 years later?**

1. Re-treatment with BR
2. Obinutuzumab/bendamustine
3. R-CHOP
4. Rituximab/lenalidomide
5. PI3K inhibitor
6. Tazemetostat
7. Chemotherapy → autologous stem cell transplant
8. Other

**What is your usual third-line treatment for a patient with FL with an EZH2 mutation who received first-line BR, second-line rituximab/lenalidomide and then develops disease progression?**

1. Idelalisib
2. Copanlisib
3. Duvelisib
4. Tazemetostat
5. R-CHOP
6. Radioimmunotherapy
7. Obinutuzumab
8. Obinutuzumab + chemotherapy
9. Other

# Agenda

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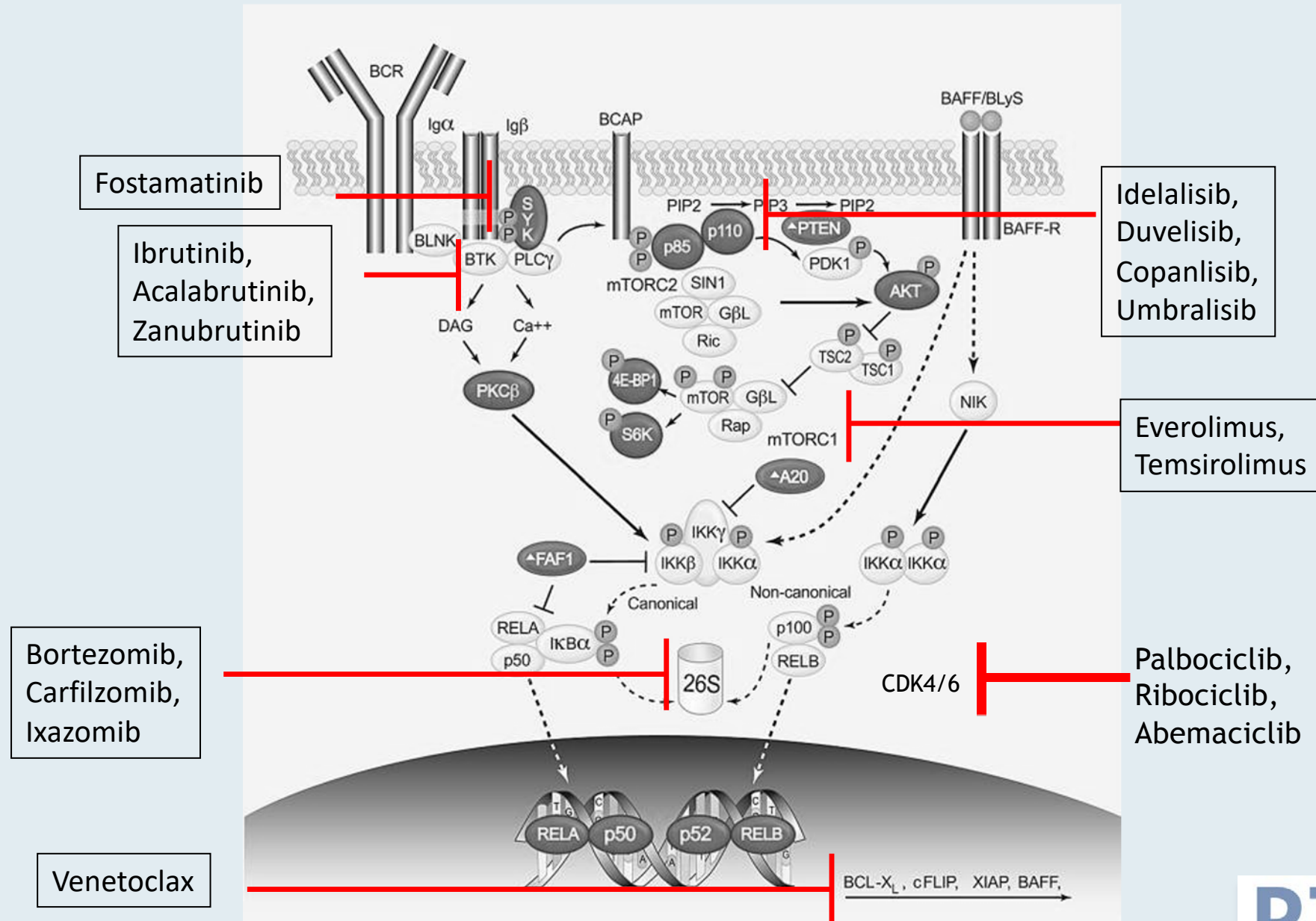


## Module 2: Mantle cell lymphoma

- **Key Relevant Data Sets**

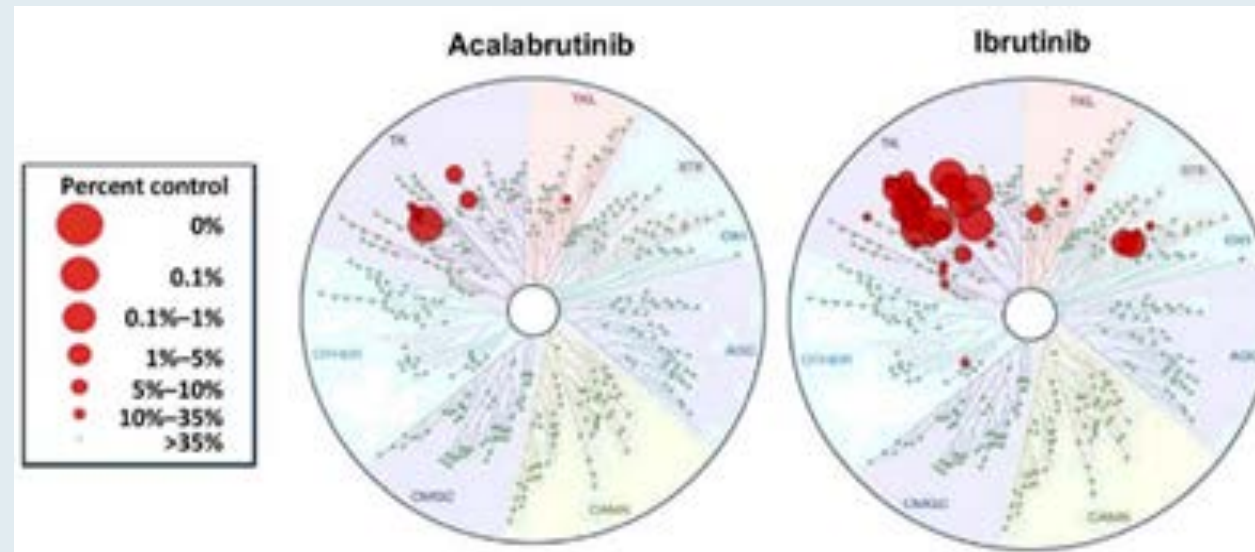
- FDA-approved BTK inhibitors for mantle cell lymphoma (MCL)
- BRUIN: LOXO-305 for previously treated MCL, Waldenström macroglobulinemia
- ZUMA-2: Brexucabtagene autoleucel for R/R MCL

# The B-cell receptor pathway: **Selected inhibitors**



# Overview of FDA-Approved BTK Inhibitors for MCL: Ibrutinib, Acalabrutinib and Zanubrutinib

- Similar overall response rates, ~70-80%
  - Better when used earlier (2<sup>nd</sup> or 3<sup>rd</sup> line)
- Improved toxicity profile for acala and zanu
  - More specific BTKi inhibition (Zanu similar to Acala)
  - Less Afib, bruising/bleeding, arthralgia
  - Prefer over ibrutinib if concurrent anticoagulation and/or anti-platelet therapy

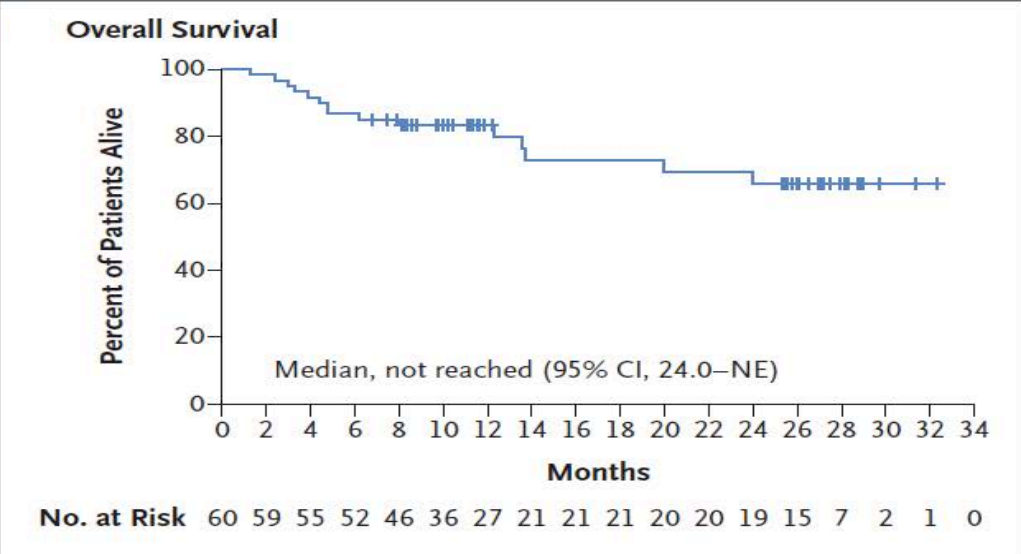
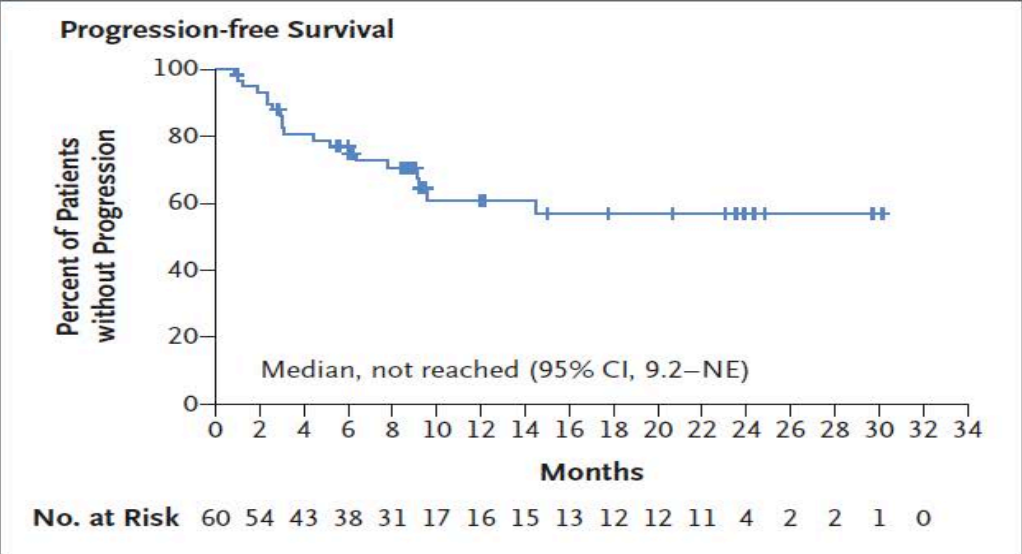
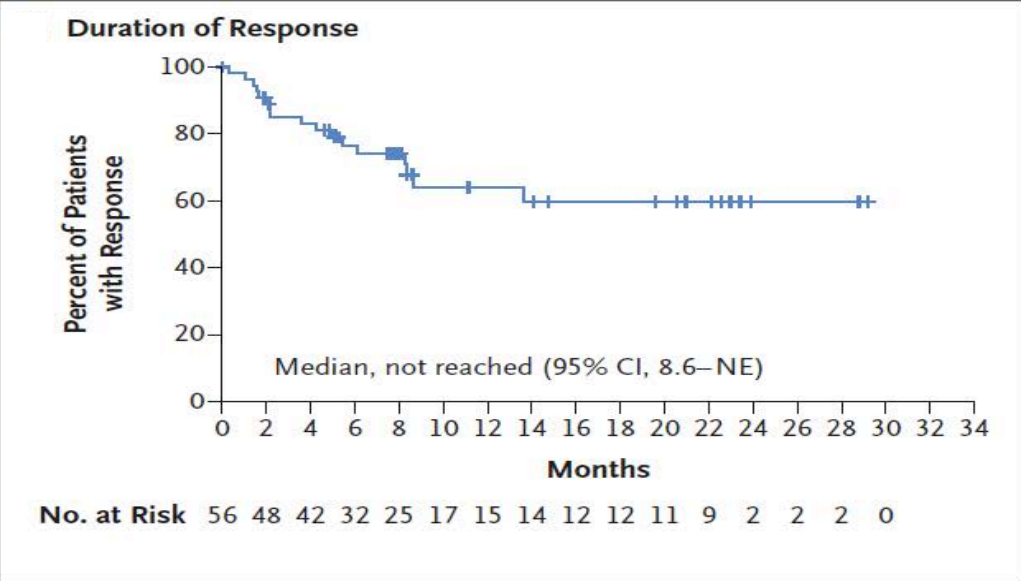
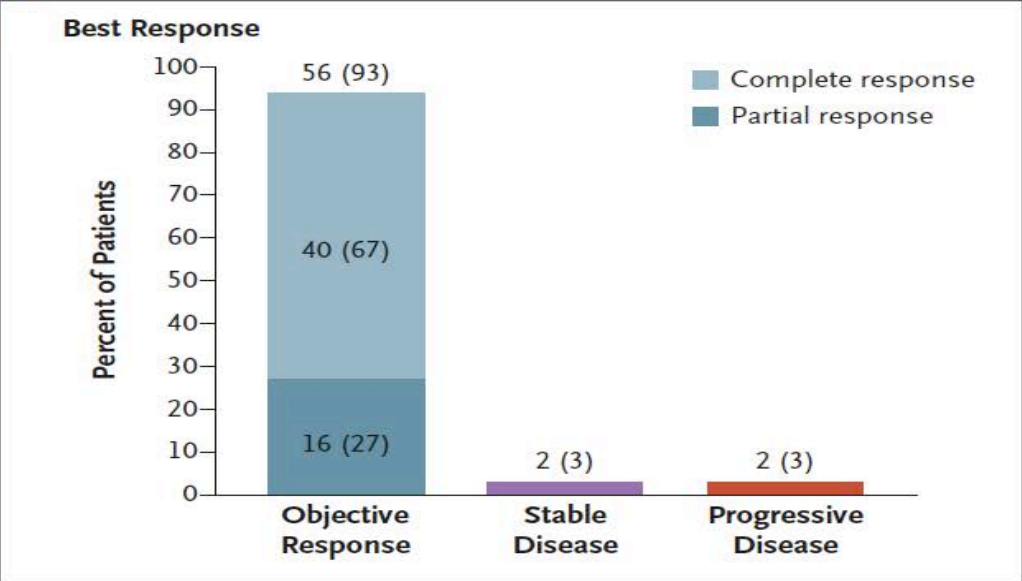




# Phase I/II BRUIN Trial of LOXO-305 in Previously Treated MCL, Waldenström's Macroglobulinemia, and Other Non-Hodgkin Lymphomas

- LOXO-305 is a highly selective, non-covalent BTK inhibitor that inhibits both wild type and C481-mutated BTK with equal low nanomolar potency
- Median number of prior lines of therapy was 2 for MCL (range 2-8)
- Responses were observed at the first dose level of 25 mg QD.
- RP2D of 200 mg QD was selected for future studies.
- **Among 35 evaluable pts with MCL**
  - ORR = 51%
  - CR = 9 (25.7%)
  - Among the 20 efficacy evaluable pts who started at RP2D, ORR was 65% with 7 CRs
- Responses in MCL were observed in pts who received prior cell therapy, including 3 of 7 patients with prior SCT, and 1 of 2 with prior CAR-T
- There were no DLTs or dose reductions.
- The only TEAEs regardless of attribution or grade seen in  $\geq 10\%$  of pts (n=186) were fatigue (n=29, 16%) and diarrhea (n=28, 15%).

# Results from the ZUMA-2 Trial of KTE-X19 CAR T-Cell Therapy in R/R MCL (7-Month Follow-Up)



## ZUMA-2: One-Year Follow-Up Results for 60 Pts

- **The ORR = 92%**
  - CR rate = 67%
- Of all efficacy-evaluable patients, 48% had ongoing responses at the data cutoff. Median DoR, PFS and OS = Not reached
  - 15-month PFS = 59.2%
  - 15-month OS = 76.0%



## ZUMA-2: One-Year Follow-Up Results for 60 Pts

- **Common grade  $\geq 3$  AEs:** Neutropenia (85%), thrombocytopenia (53%), anemia (53%), and infections (34%).
- Grade  $\geq 3$  cytopenias were reported in 60% of patients  $\geq 30$  days post-infusion.
- Grade  $\geq 3$  CRS occurred in 15% of patients; 59% received tocilizumab
- Grade  $\geq 3$  neurologic events (NEs) were reported in 31% of patients; 8% received steroids
- All CRS events and most NEs (37/43) resolved, as previously reported.
- There were no Grade 5 CRS events or NEs, and no new Grade 5 events occurred with additional follow-up.

**A 78-year-old patient with MCL initially treated with BR followed by 2 years of maintenance rituximab experiences disease relapse 3 years later. The patient is otherwise healthy. What would you recommend?**

1. Ibrutinib
2. Acalabrutinib
3. Zanubrutinib
4. Lenalidomide
5. Lenalidomide + rituximab
6. Venetoclax
7. Venetoclax + rituximab
8. Other

**In general, what would be your most likely treatment recommendation for a 70-year-old patient with MCL who responds to BR and then ibrutinib on relapse but then develops tumor progression?**

1. Lenalidomide
2. Lenalidomide + rituximab
3. Bortezomib
4. Bortezomib + rituximab
5. Venetoclax
6. Acalabrutinib
7. Zanubrutinib
8. Brexucabtagene autoleucel
9. Other

# Agenda

**Module 1: Follicular lymphoma**

**Module 2: Mantle cell lymphoma**

**Module 3: Diffuse large B-cell lymphoma**

**Module 4: Hodgkin lymphoma**

**Module 5: CAR T-cell therapy in DLBCL and other lymphoma subtypes**

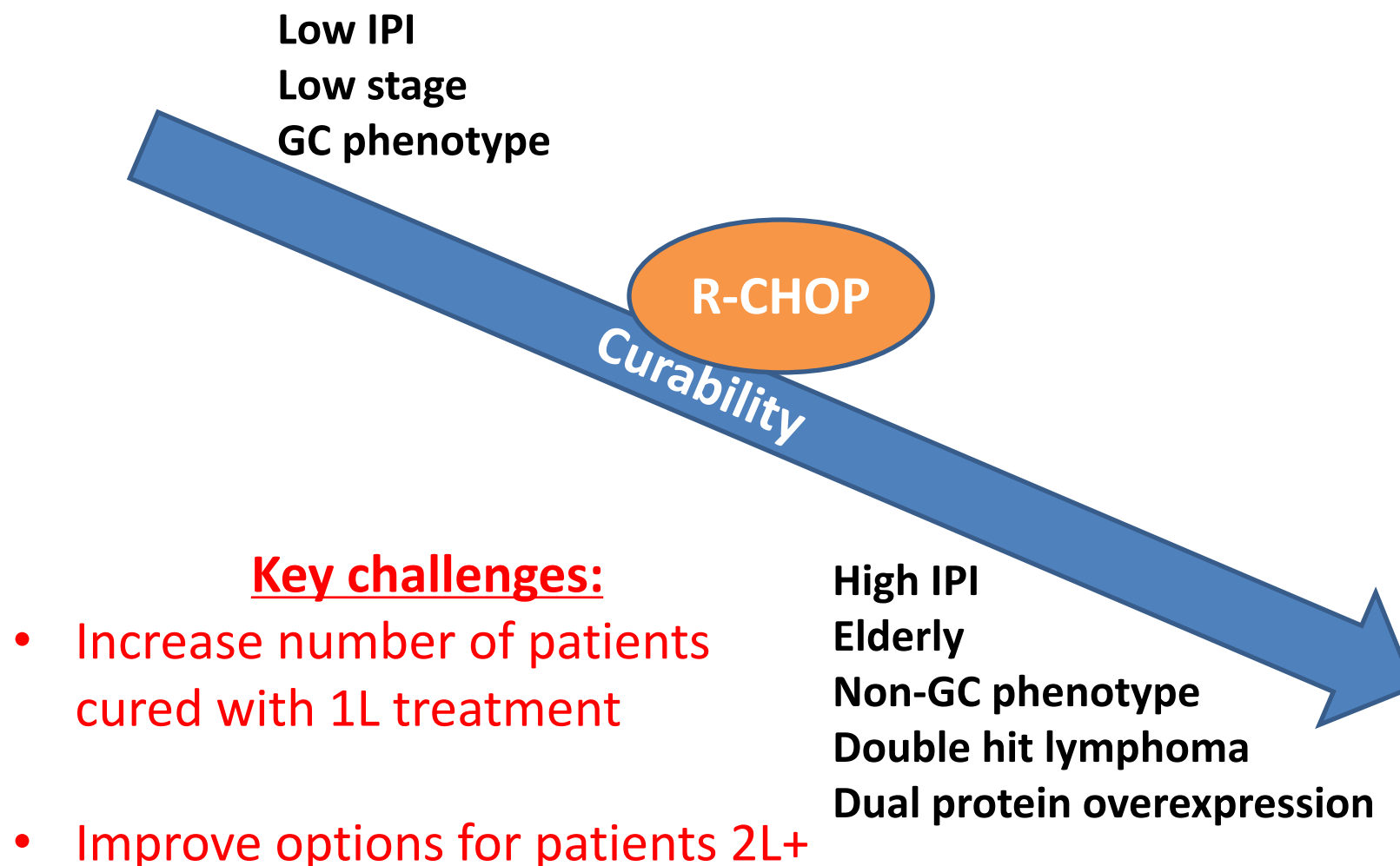


## Module 3: Diffuse large B-cell lymphoma

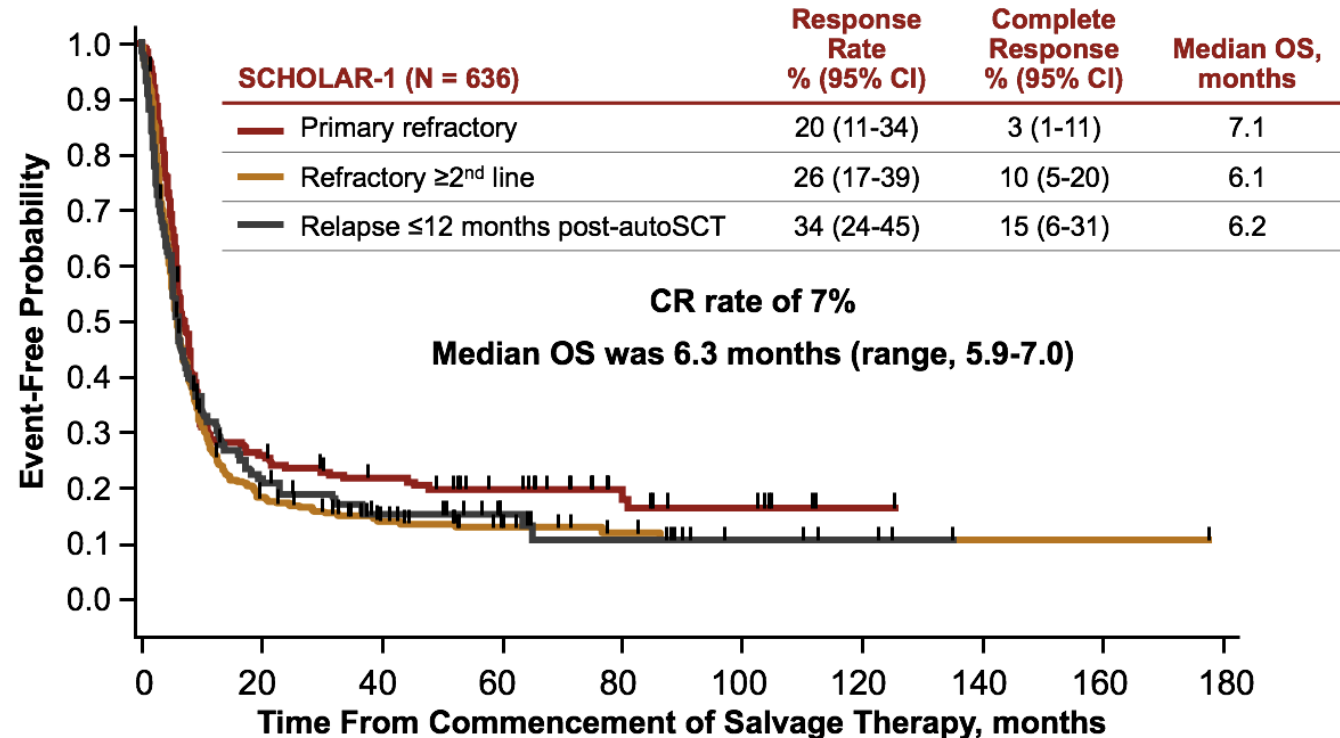
- **Key Relevant Data Sets**

- SADAL: Selinexor for relapsed/refractory DLBCL
- L-MIND: Tafasitamab + lenalidomide
- Investigational bispecific agents

# Many subsets of DLBCL are not cured with R-CHOP



# Expected Survival for R/R DLBCL Treated with Salvage Chemotherapy

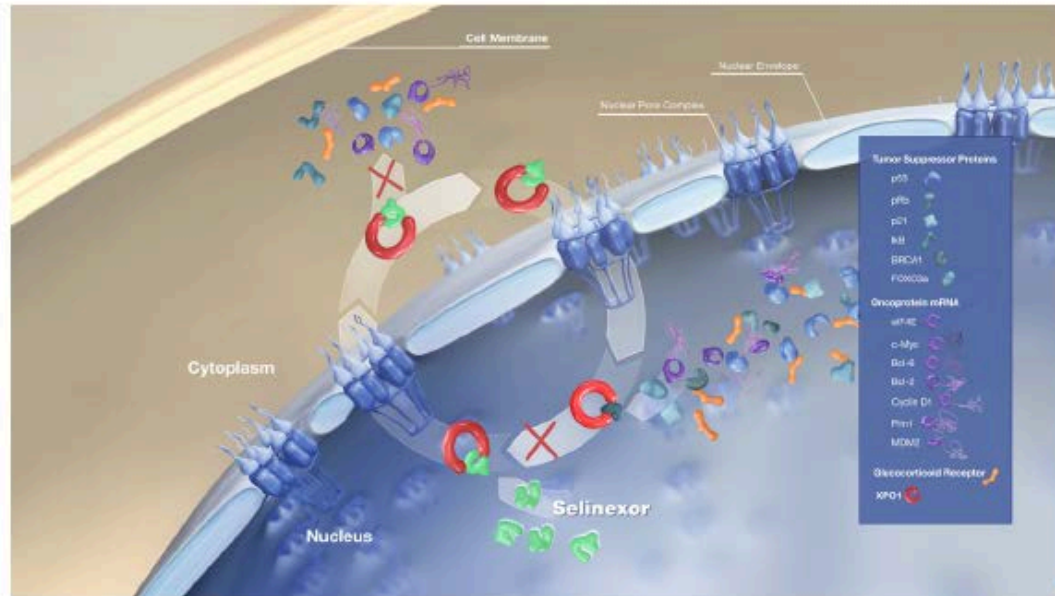


**Patients unable to undergo autologous stem cell transplant have median survivals < 1 year**



# Selinexor: oral XPO1 inhibitor

## Selinexor: Mechanism of Action



**Exportin 1 (XPO1 or CRM1)** mediates the nuclear export of proteins, mRNAs, rRNAs, snRNAs and impacts

- **Tumor suppressor proteins** (p53, IκB, FOXO etc.)
- **eIF4E** (Translational initiation factor) bound oncogenic mRNAs (c-Myc, Bcl-xL, cyclins etc.)

**Selinexor** is an oral selective **XPO1** inhibitor; preclinical data support that XPO1 inhibition:

- Reactivates multiple TSPs relevant to NHL, (p53, p21, IκB, FOXO etc.)
- Disrupts localization of eIF4e (overexpressed in most B-cell lymphomas)<sup>1</sup>
- Reduces c-Myc, Bcl-2, and Bcl-6 levels<sup>2-3</sup>

1. Kodali 2011 2. Kuruvilla 2014 3. Schmidt 2013

3



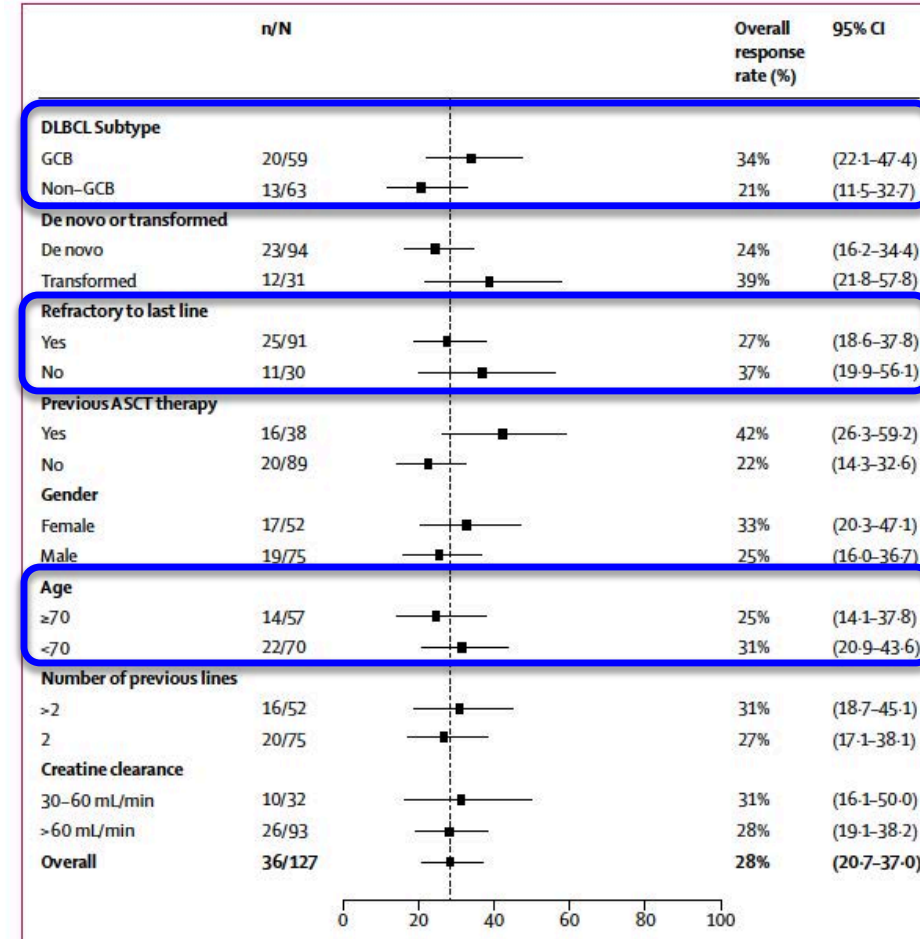
# SADAL: phase 2 trial of selinexor monotherapy in R/R DLBCL

## Patient characteristics:

N=127 with med age 67y  
45% of pts  $\geq 70$ y  
72% refractory to last regimen

## Results:

ORR 28%  
CR 12%  
Med DR 9.3m  
--med DR for CR pts 23m  
--med DR for PR pts 4.4m  
No impact of COO



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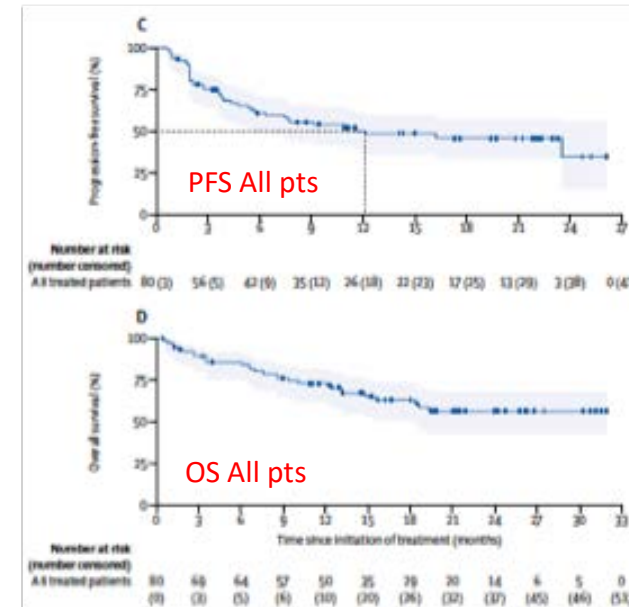
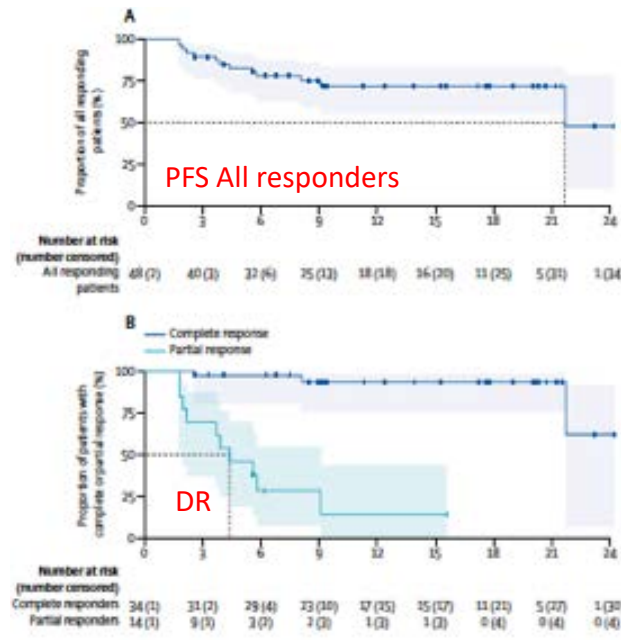
Med DR 9.3m

- med DR for CR pts 23m
- med DR for PR pts 4.4m

No impact of COO



# L-MIND Results: very long response duration for CR pts



## Patient characteristics:

N=81 with med age 72y  
50% of pts 2L  
42% R-ref, 44% ref

## Results:

ORR 60%, CR 43%  
Med DR 22m but NR for CR pts



# L-MIND Results: very long response duration for CR pts

## Patient characteristics:

N=81 with med age 72y

50% of pts 2L

42% R-ref, 44% ref

## Results:

ORR 60%, CR 43%

Med DR 22m but NR for CR pts



# ASH 2020: Advent of Bispecifics in Lymphoma

- **CD20 x CD3**
  - REGN1979 — Bannerji ASH 2020 #400
  - Mosunetuzumab — Olszewski ASH 2020 #401
  - Epcoritamab — Hutchings ASH 2020 #402
  - Glofitamab — Hutchings ASH 2020 #403
- **CD19 x CD3**
  - MB-CART2019.1 — Borchman ASH 2020 #404

**Which therapy would you generally recommend first for a patient with DLBCL who experiences disease progression on front-line R-CHOP and is not eligible for high-dose therapy?**

1. Polatuzumab vedotin/BR
2. Tafasitamab/lenalidomide
3. Selinexor
4. CAR T-cell therapy
5. I don't know

# Agenda

**Module 1: Follicular lymphoma**

**Module 2: Mantle cell lymphoma**

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**Module 4: Hodgkin lymphoma**

**Module 5: CAR T-cell therapy in DLBCL and other lymphoma subtypes**

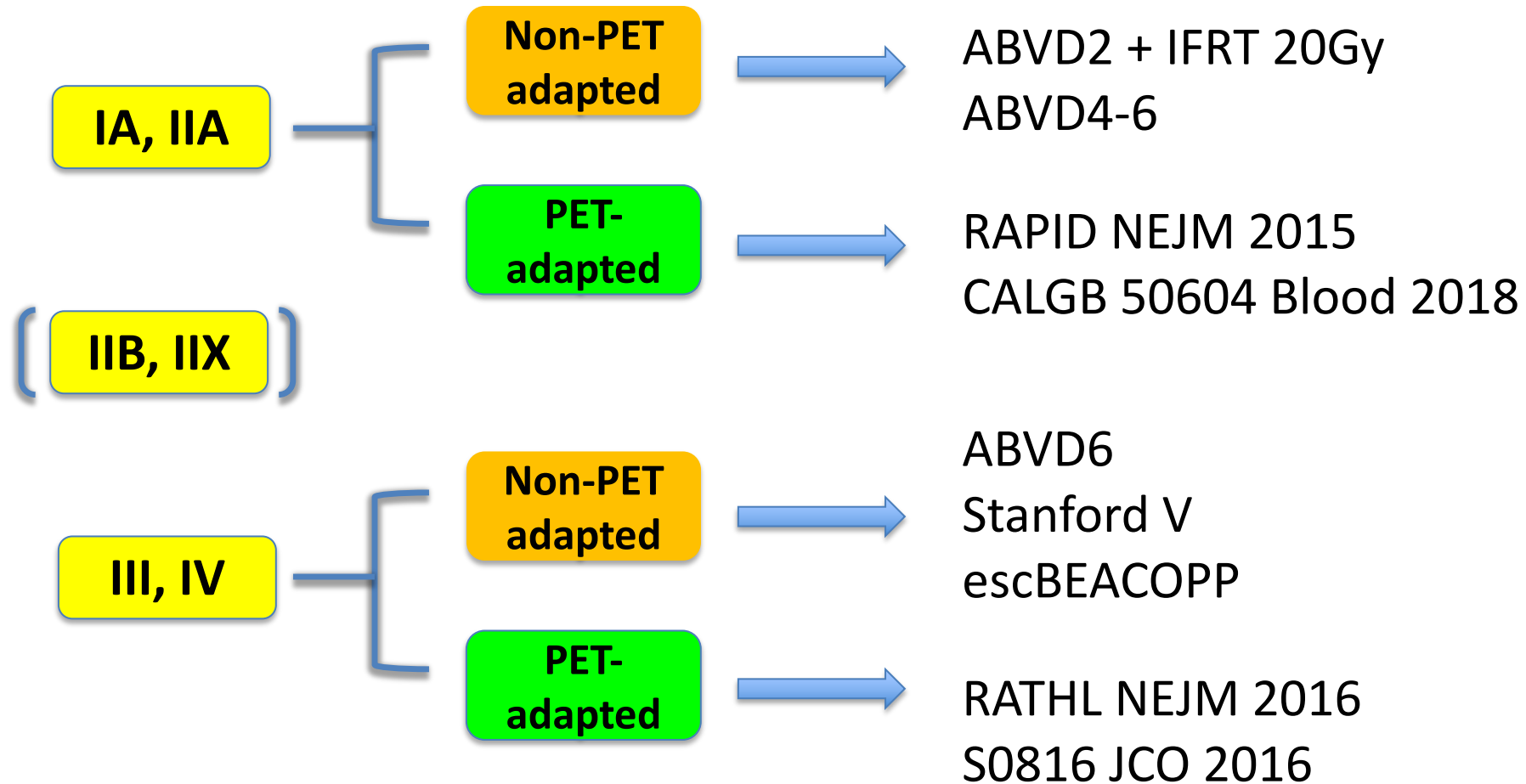


## Module 4: Hodgkin lymphoma

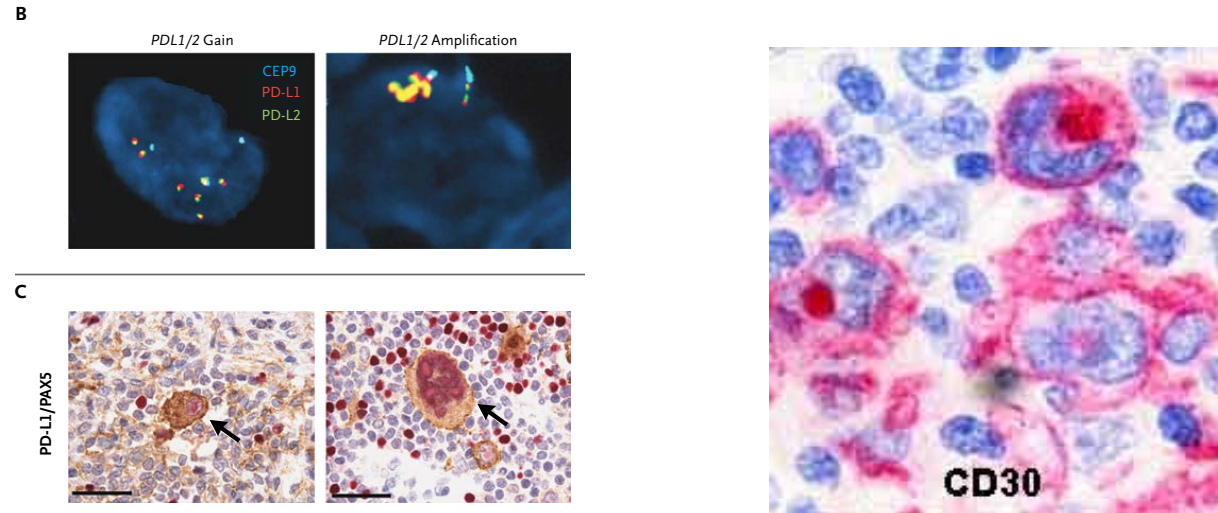
- **Key Relevant Data Sets**

- ECHELON-1: Five-year update
- AETHERA: Five-year follow-up
- Brentuximab vedotin (BV) + nivolumab as first-line therapy
- KEYNOTE-204: Pembrolizumab versus BV for R/R classical HL

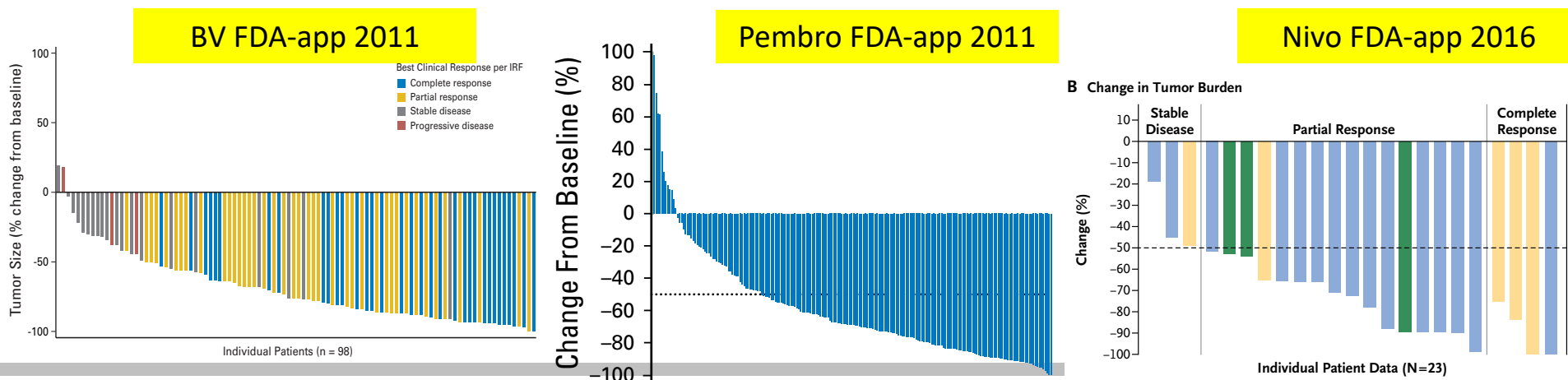
# Snapshot of frontline standard treatment approach prior to targeted agents



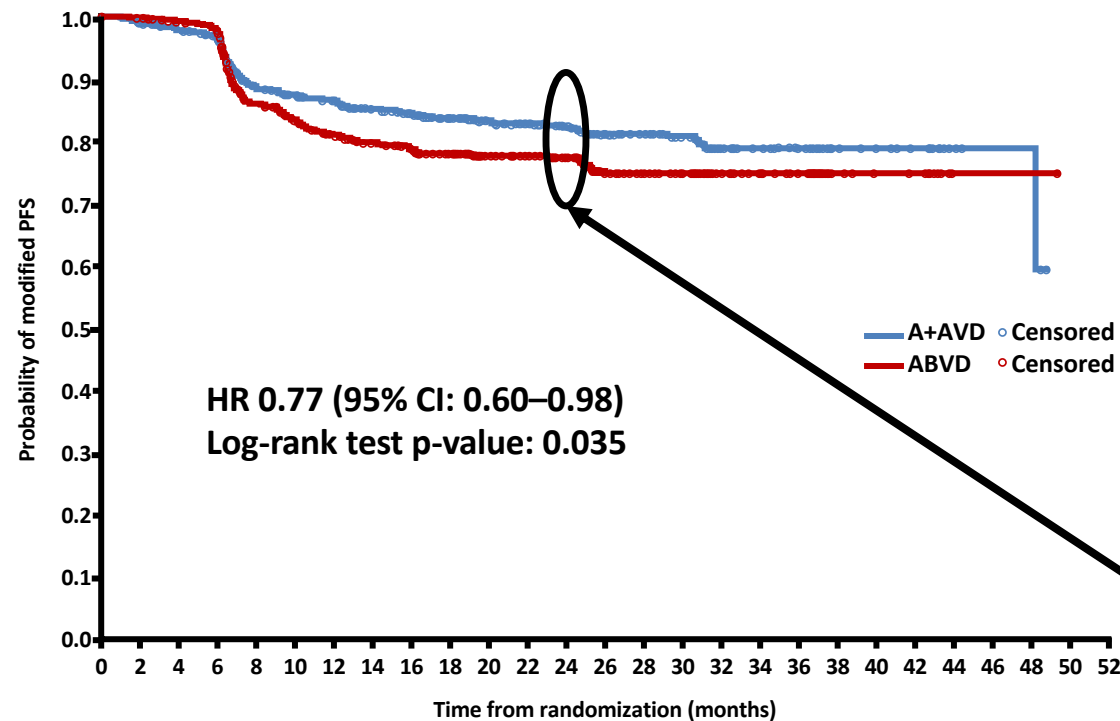
# Evolution of care: two “new” targets



[http://pleiad.umdj.edu/~dweiss/hd\\_types/hdImmuno\\_img.html](http://pleiad.umdj.edu/~dweiss/hd_types/hdImmuno_img.html)



# Integration of targeted agents into frontline management of advanced stage cHL: ECHELON-1



No. of patients at risk:

	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52
A+AVD	664	640	623	606	544	530	516	496	474	447	350	334	311	200	187	174	99	85	77	27	24	21	6	4	4	0	0
ABVD	670	644	626	613	522	496	476	459	439	415	328	308	294	179	168	153	78	68	62	16	13	12	1	1	1	0	0

## Number of events

Category	A+AVD N=117	ABVD N=146
Progression	90	102
Death	18	22
Modified progression	9	22
Chemotherapy	7	15
Radiotherapy	2	7

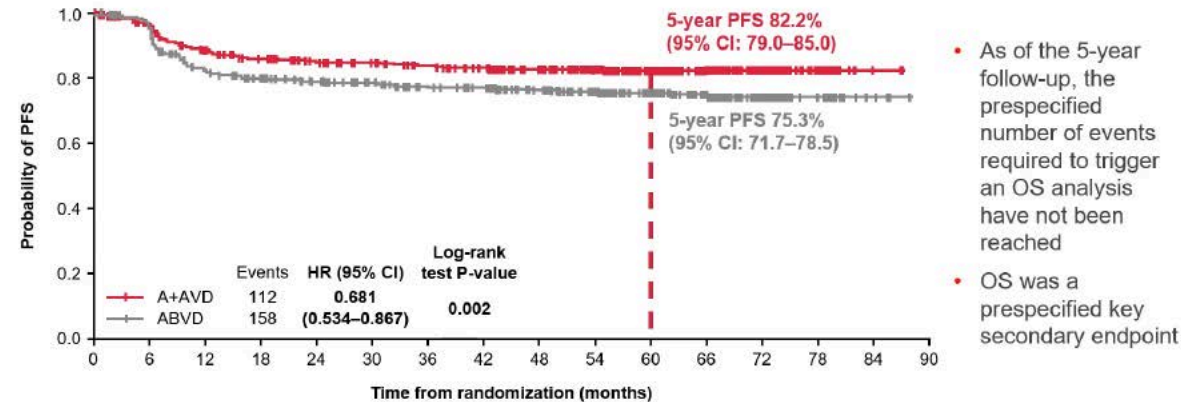
## Modified PFS estimates

Time	A+AVD (95% CI)	ABVD (95% CI)
2-year	82.1 (78.7–85.0)	77.2 (73.7–80.4)

Median follow-up (range): 24.9 months (0.0–49.3)

# ASH 2020: 5-year follow up of ECHELON-1

## ECHELON-1: PFS per investigator at 5 years' follow-up



- As of the 5-year follow-up, the prespecified number of events required to trigger an OS analysis have not been reached
- OS was a prespecified key secondary endpoint

## Author Conclusions

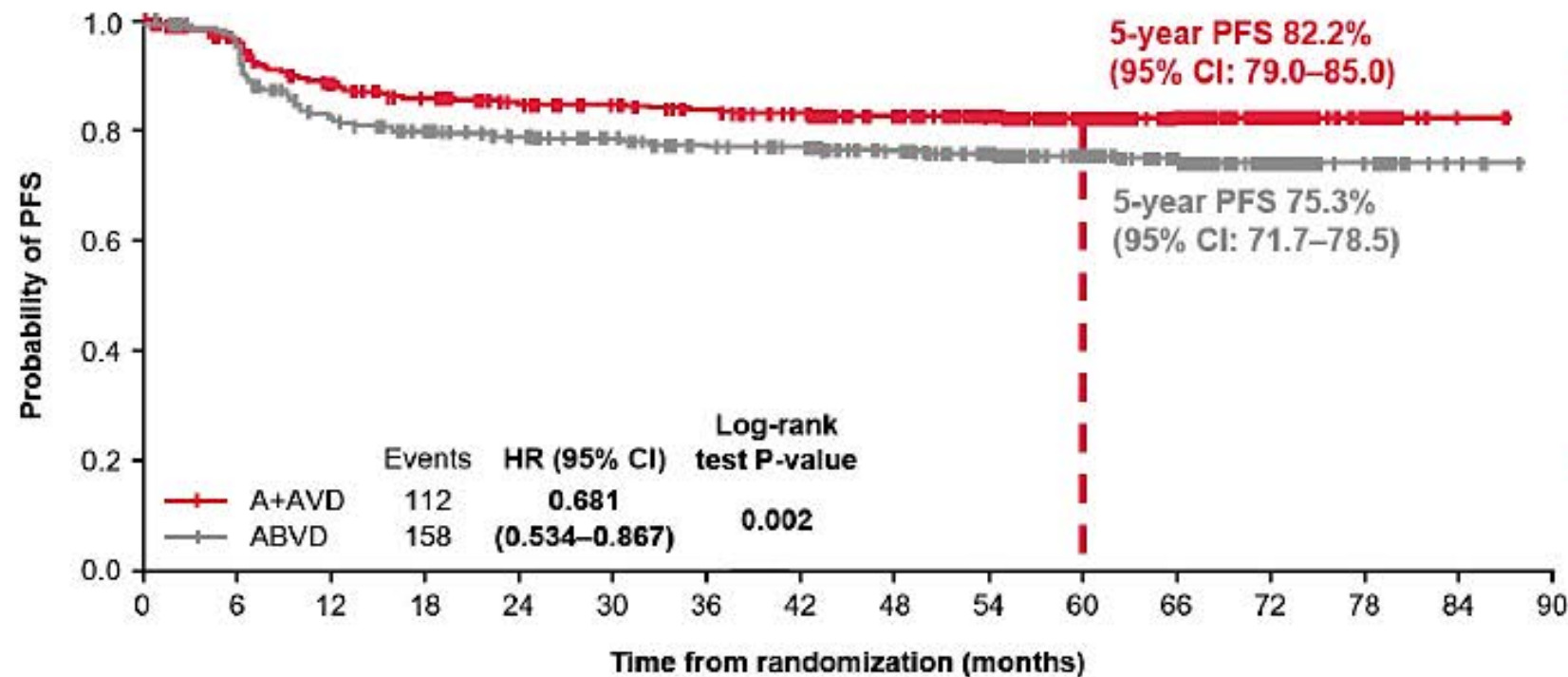
- At 5 years A+AVD continues to demonstrate a robust and durable treatment benefit independent of disease stage, risk factor score, and PET2 status, without requiring change of therapy based on interim PET assessment and without exposure to bleomycin.
- The sustained PFS benefit with A+AVD is coupled with:
  - A manageable long-term safety profile
  - A low rate of secondary malignancies
  - No observed impact on the rate of successful pregnancies compared with ABVD
  - A high rate of resolution and improvement of PN, with symptoms of PN resolving or improving over time.
- As most relapses in cHL occur within 5 years of frontline treatment, these long-term PFS data suggest that more patients may have been cured of their disease with A+AVD versus ABVD.
- A+AVD should be considered a preferred treatment option for all patients with previously untreated Stage III or IV cHL.





# ASH 2020: 5-year follow up of ECHELON-1

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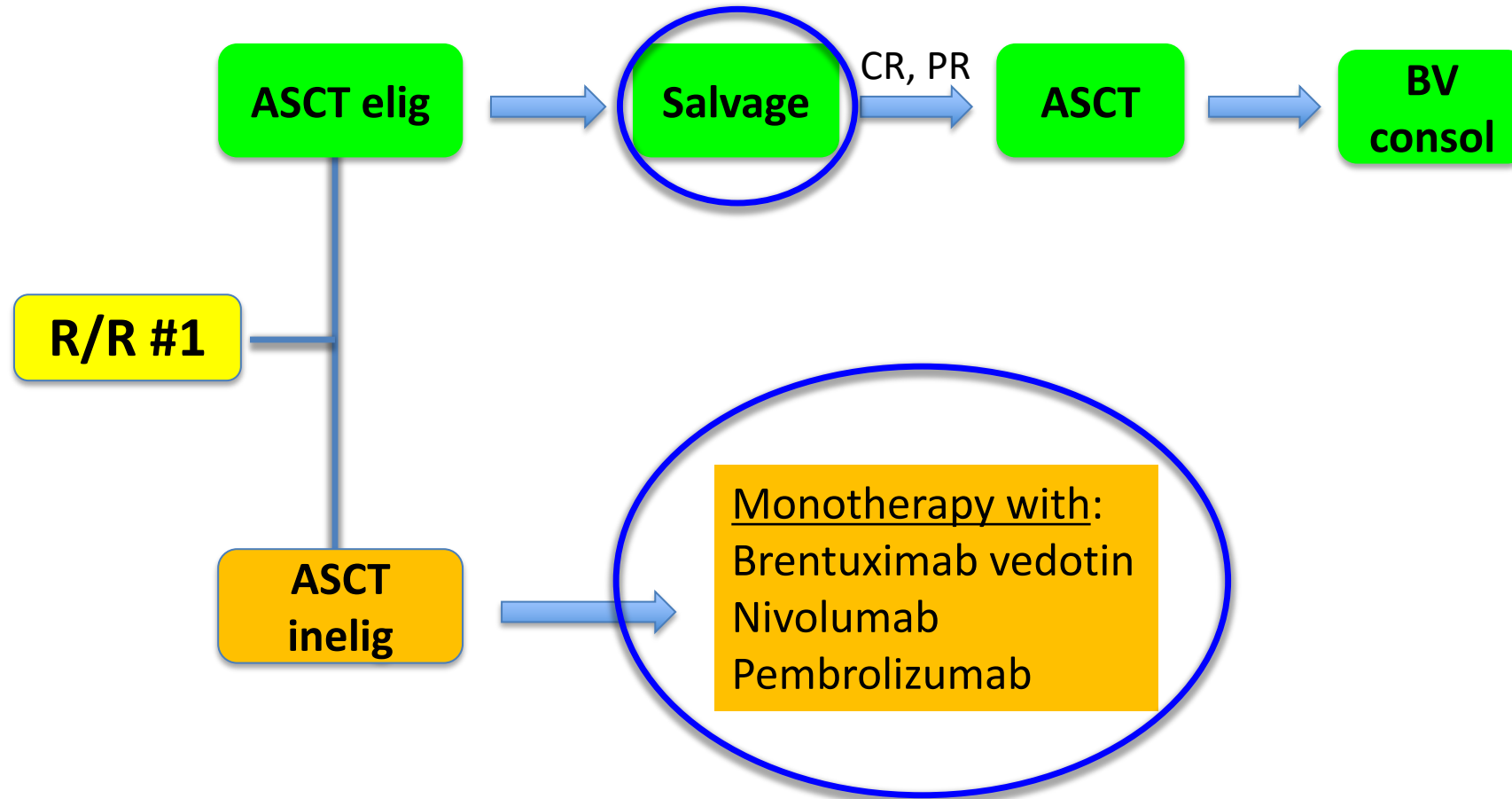
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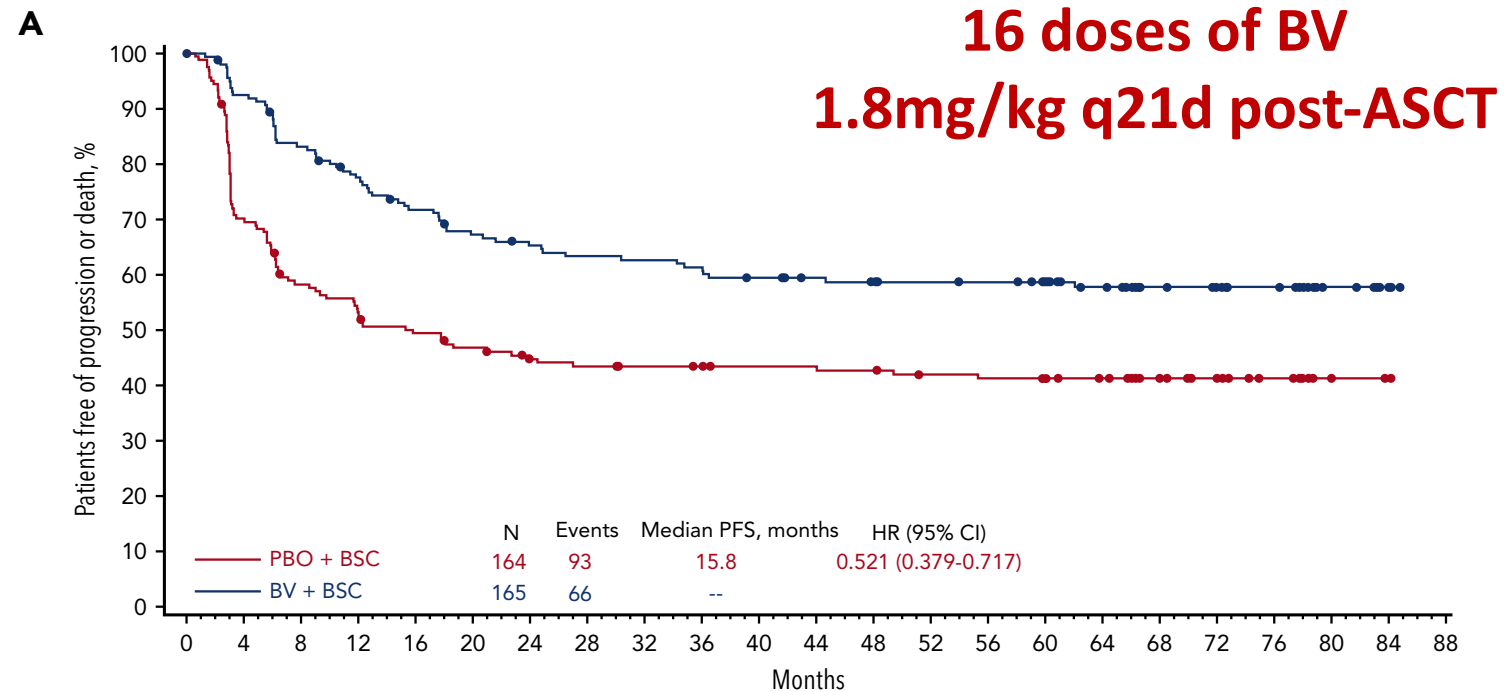
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# Treatment approach for relapsed cHL



# 5-year follow up of post-ASCT BV (AETHERA TRIAL)



Moskowitz et al. Blood. 2018 Dec 20;132(25):2639-2642.

Courtesy of Sonali M Smith, MD

# Is there a shorter, less toxic post-transplant option?

## Treatment:

30-75 days post AHCT

1.8mg/kg BV and 3mg/kg  
nivo q21d x 8 doses

Primary endpoint 18m PFS

## Patients:

N=59

Med age 30 (18-72y)

32% primary refractory disease

39% EN disease

51% prior BV

42% prior PD-1 inhibitors



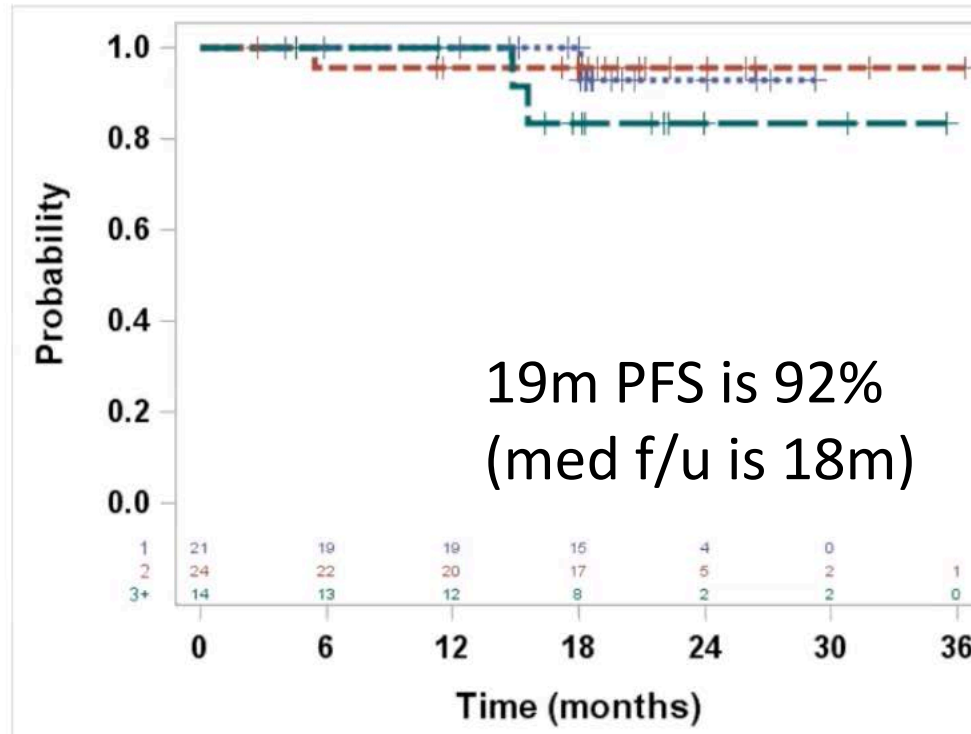


# Post-autologous stem cell transplant BV + nivo

## PFS according to number of risk factors



19-month PFS in pts with:  
1 risk factor (n=21) – 93%  
(95 CI 59-99%)  
2 risk factors (n=24) – 96%  
(95 CI 73-99%)  
3+ risk factors (n=14) – 83%  
(95 CI 48-96%)



Only 49% completed both agents

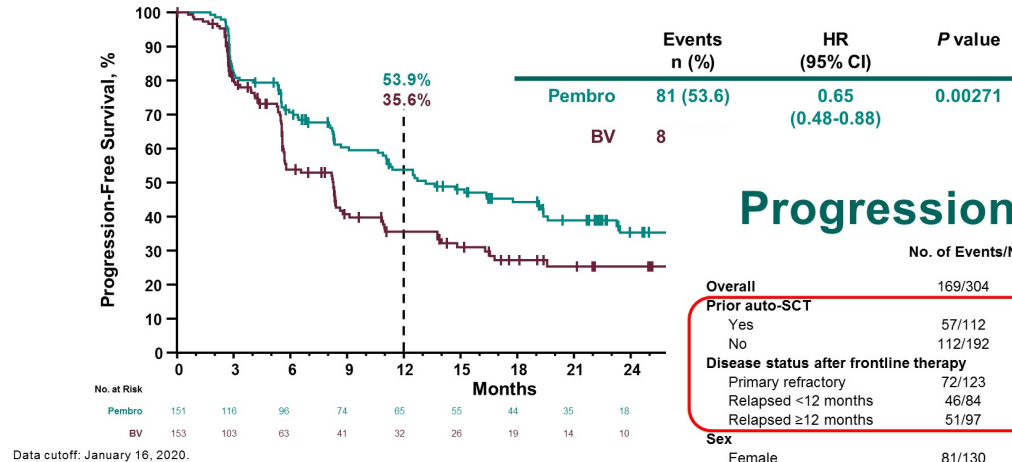
Most common AEs were neuropathy, neutropenia

27% had immune-related AE's requiring steroids

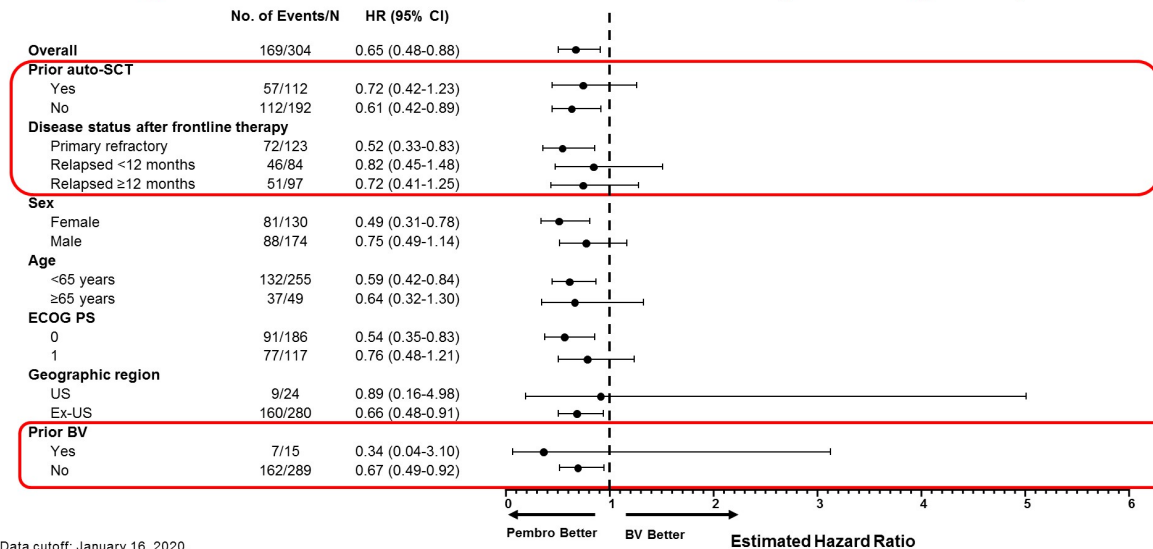


# KEYNOTE-204: Pembro vs. BV in R/R cHL

## Primary End Point: Progression-Free Survival Per Blinded Independent Central Review Including Clinical and Imaging Data Following Auto-SCT or Allo-SCT



## Progression-Free Survival in Key Subgroups



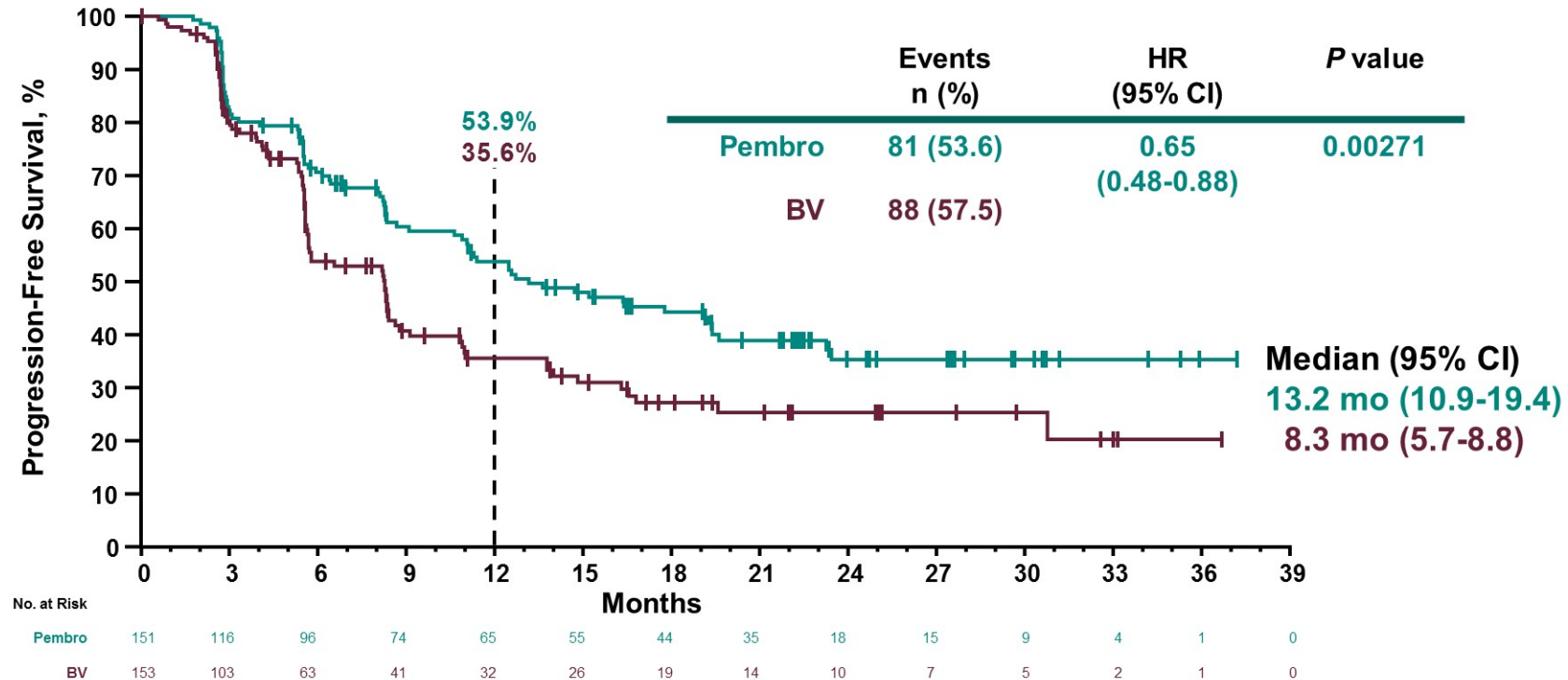
- Med PFS 13.2 vs. 8.3m favoring pembro
- Most pts BV-naive



# KEYNOTE-204: Pembro vs. BV in R/R cHL

## Primary End Point: Progression-Free Survival Per Blinded Independent Central Review

Including Clinical and Imaging Data Following Auto-SCT or Allo-SCT



Data cutoff: January 16, 2020.



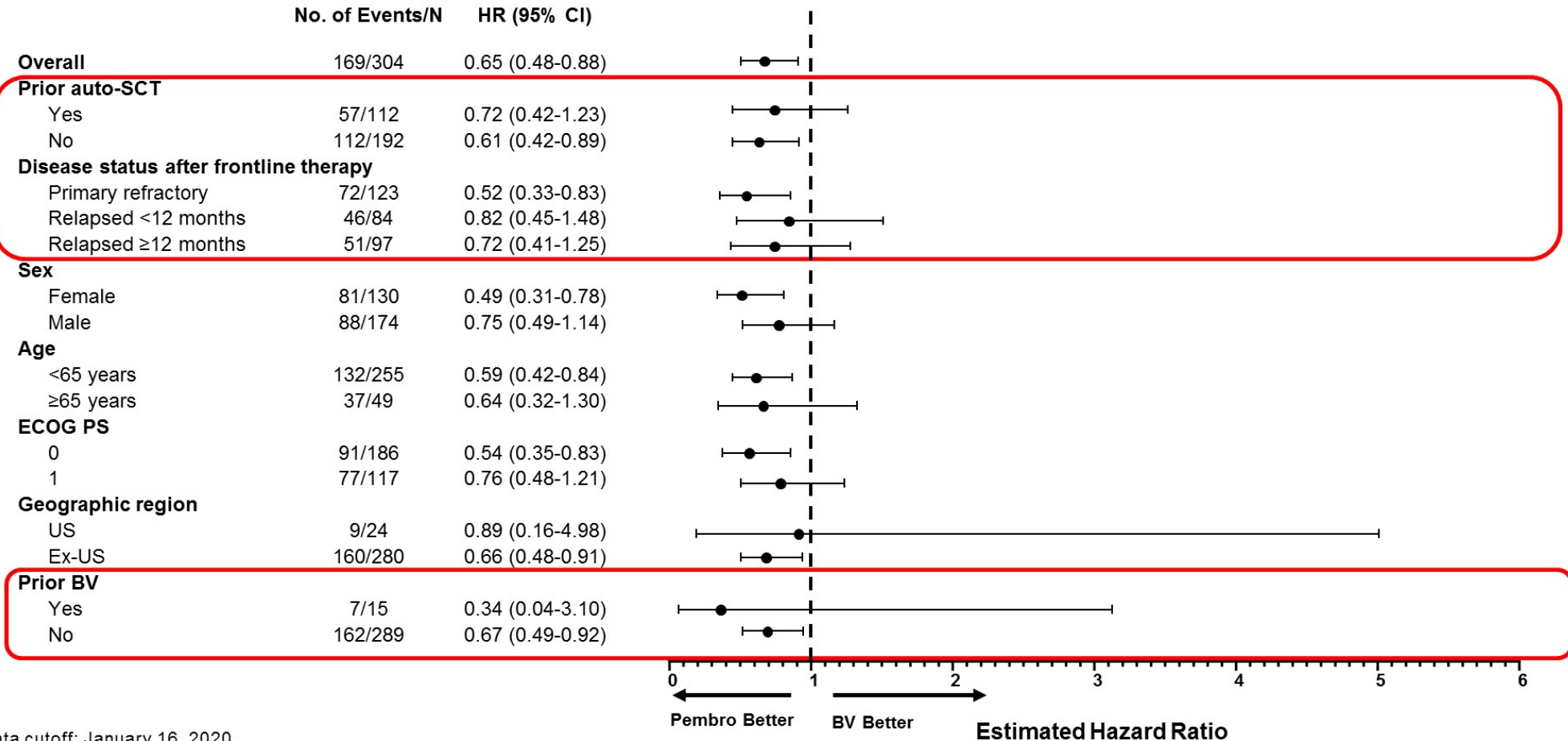
THE UNIVERSITY OF  
CHICAGO MEDICINE &  
BIOLOGICAL SCIENCES

Kuruvilla J et al. ASCO 2020; Abstract 8005. Oral, HoD  
Zinzani P et al. EHA 2020; Abstract LB2600. Late Breaking  
Kuruvilla J et al.. ASH 2020; Abstract 1158. Poster

Courtesy of Sonali M Smith, MD

# KEYNOTE-204: Pembro vs. BV in R/R cHL

## Progression-Free Survival in Key Subgroups



# Combination targeted therapy in R/R cHL



Grade 3-4 AE's seen in all groups  
slightly higher in Ipi-groups  
(43% ipi vs. 50% in triplet vs. 16% in nivo groups)

Grade 5 toxicity  
2 deaths from pneumonitis (nivo group and triplet  
group)





Regulatory and reimbursement issues aside, in general, what is your preferred second-line therapy for a patient with HL who is experiencing relapse after up-front ABVD and who is not considered a candidate for transplant?

1. Other chemotherapy
2. Brentuximab vedotin
3. Brentuximab vedotin + nivolumab
4. Brentuximab vedotin + pembrolizumab
5. Nivolumab
6. Pembrolizumab
7. Other

# Agenda

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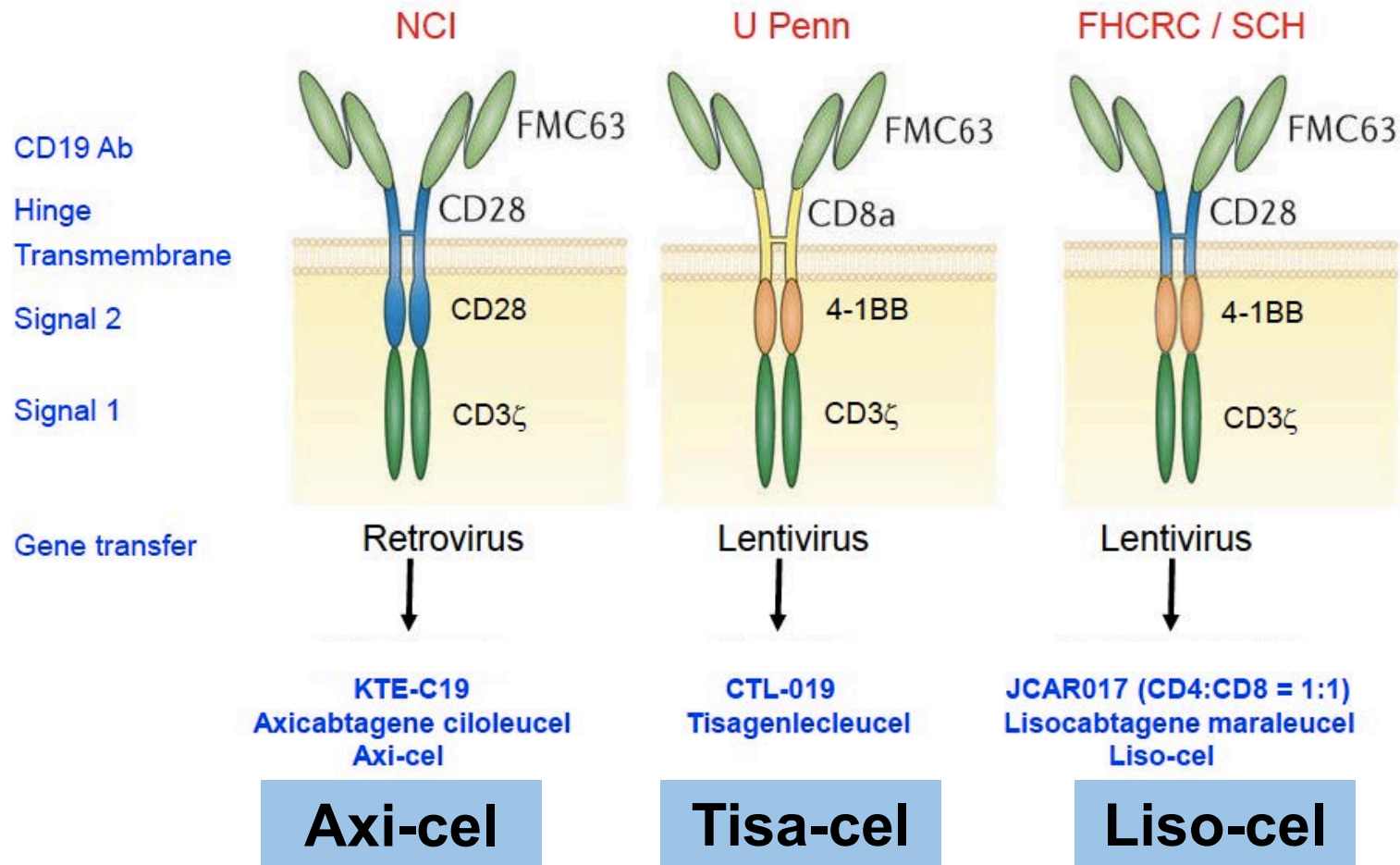
**Module 5: CAR T-cell therapy in DLBCL and other lymphoma subtypes**

# Module 5: CAR T-cell therapy

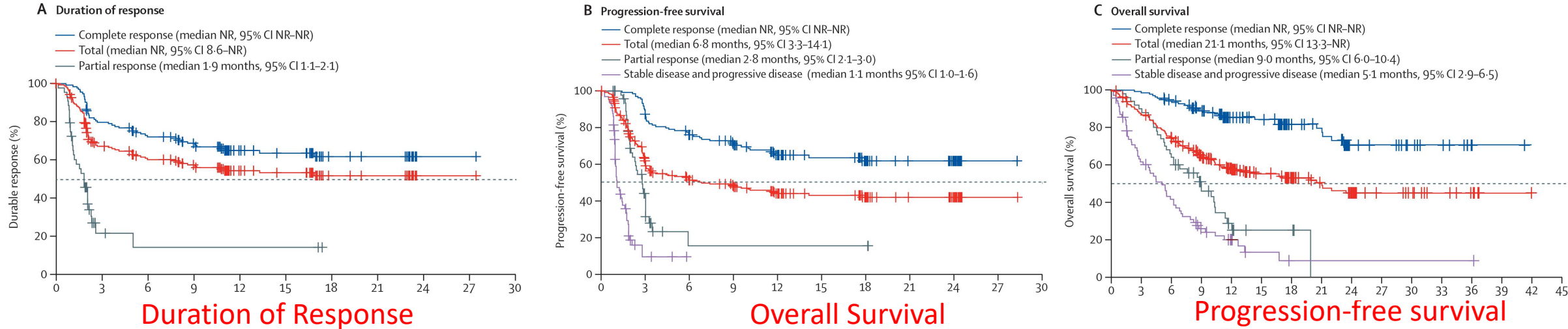
- **Key Relevant Data Sets**

- Lisocabtagene maraleucel versus axicabtagene ciloleucel (axi-cel) + tisagenlecleucel for R/R large B-cell lymphoma (LBCL)
- ZUMA-12: First-line axi-cel for high-risk LBCL
- TRANSCEND NHL 001: Lisocabtagene maraleucel for R/R LBCL
- JULIET: Tisagenlecleucel for R/R DLBCL
- ELARA: Tisagenlecleucel for R/R FL
- ZUMA-5: Axi-cel for R/R indolent non-Hodgkin lymphoma

# CD19 Directed CAR T Cell Products in Clinical Development



# Liso-cel (TRANSCEND NHL-001)



## Key patient features:

269 of 344 pts received product  
 42% over age 65y  
 67% chemo-refractory  
 7 pts with secondary CNSL

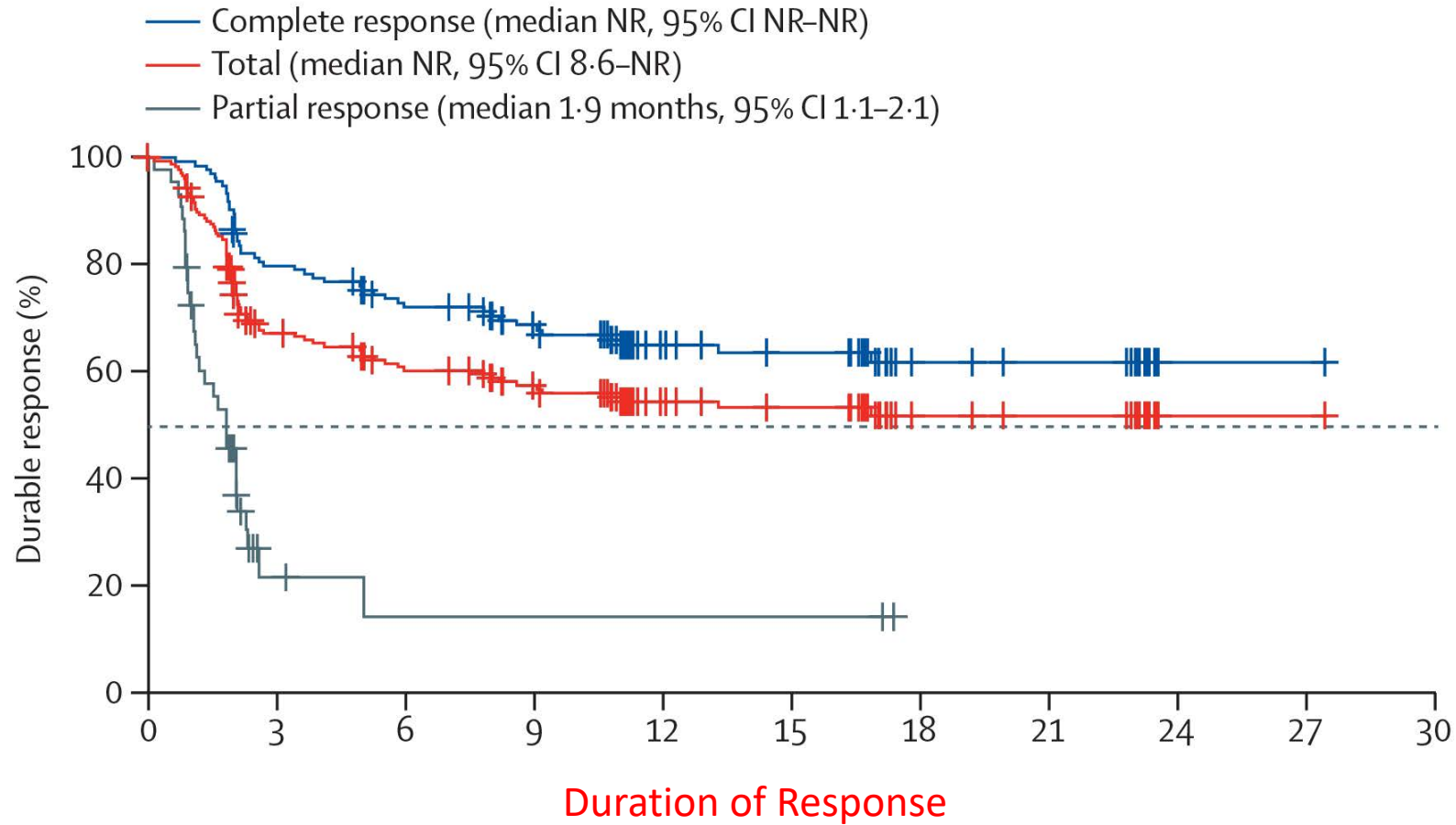
Patients (n=269)	
Cytokine release syndrome, neurological events, or both	127 (47%)
Cytokine release syndrome*	
Any grade	113 (42%)
Grade 3	4 (1%)
Grade 4	2 (1%)
Time to onset, days	5 (1–14)
Time to resolution, days	5 (1–17)
Neurological events†	
Any grade	80 (30%)
Grade 3	23 (9%)
Grade 4	4 (1%)
Time to onset, days	9 (1–66)
Time to resolution, days	11 (1–86)





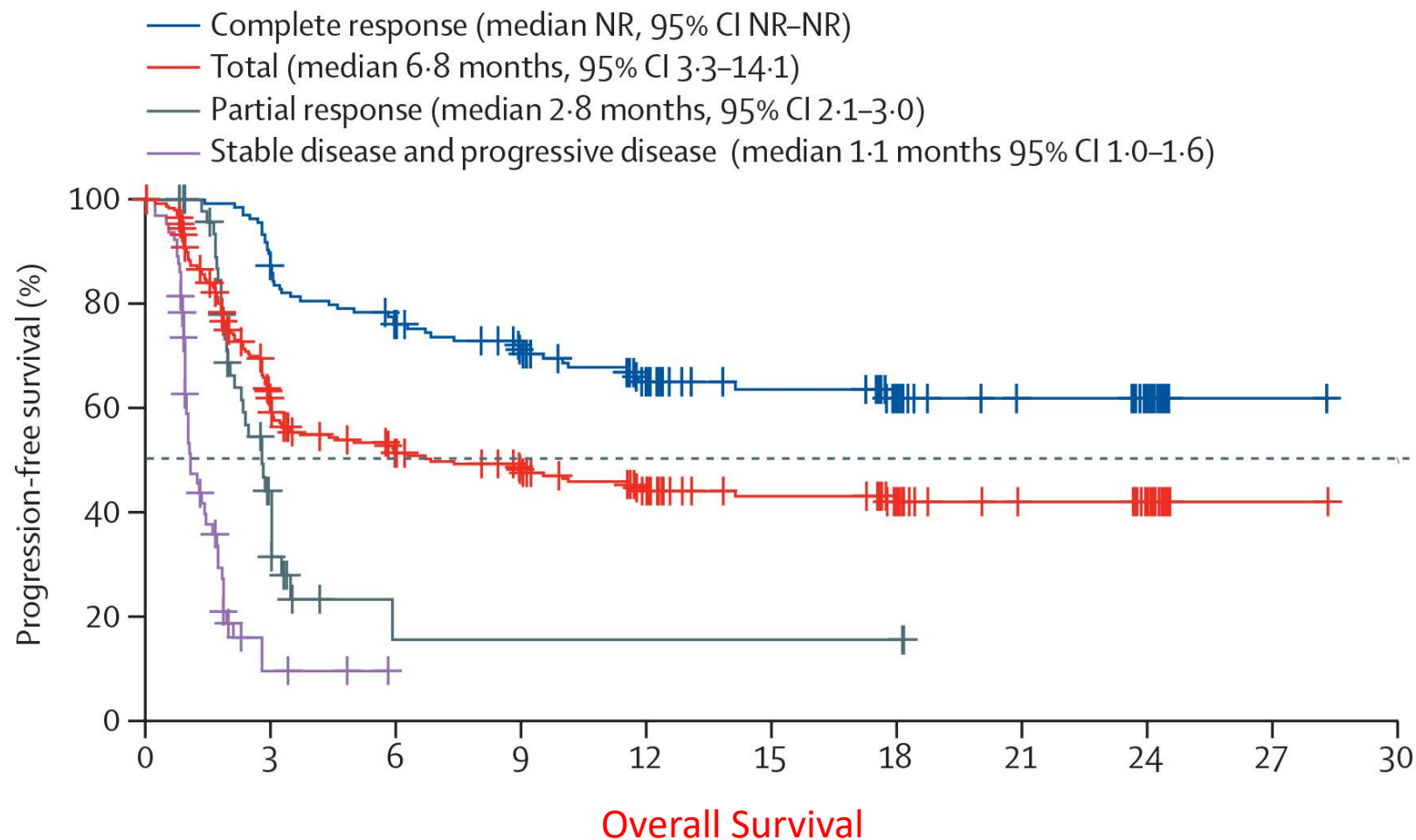
# Liso-cel (TRANSCEND NHL-001)

## A Duration of response



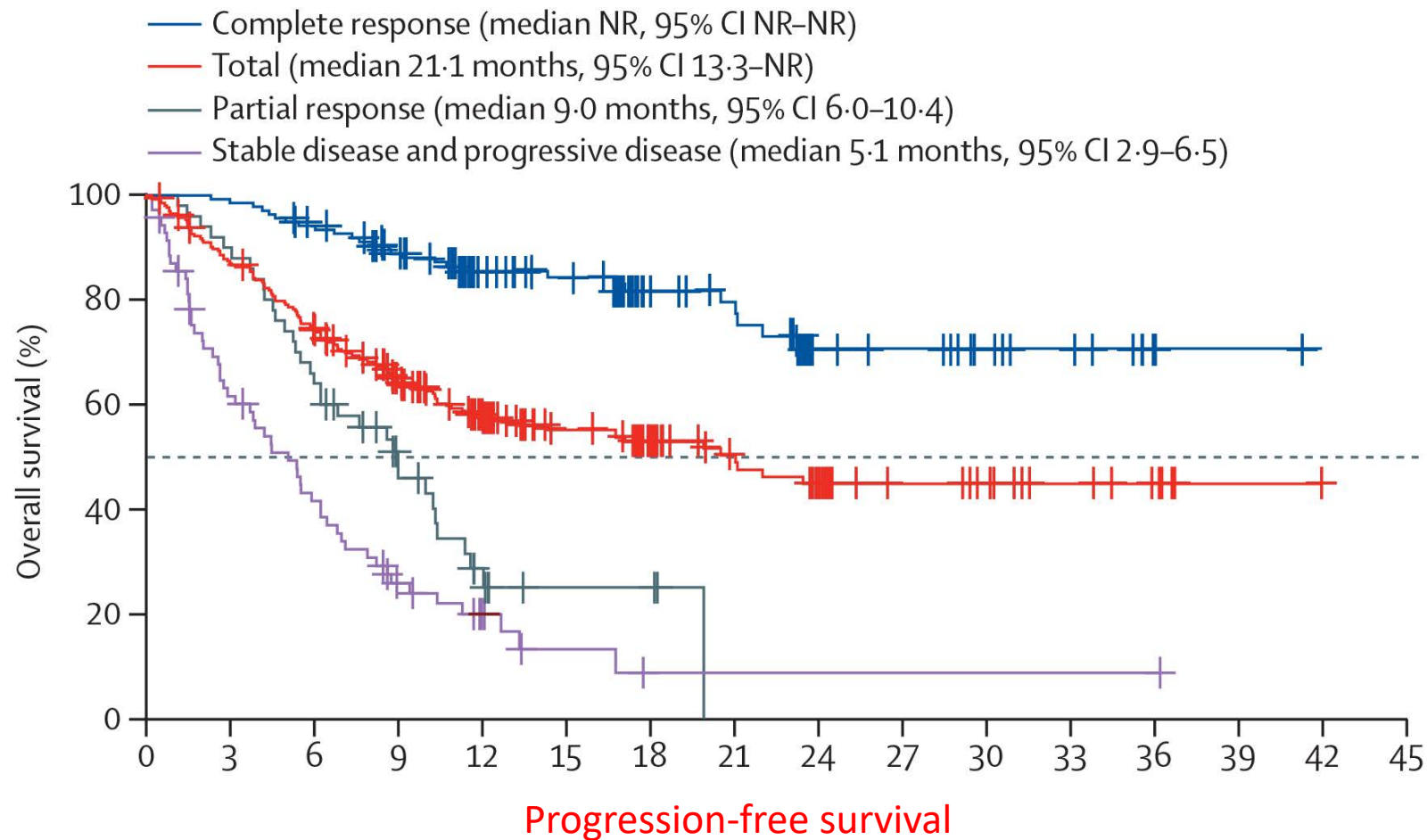
# Liso-cel (TRANSCEND NHL-001)

## B Progression-free survival



# Liso-cel (TRANSCEND NHL-001)

## C Overall survival



# Liso-cel (TRANSCEND NHL-001)

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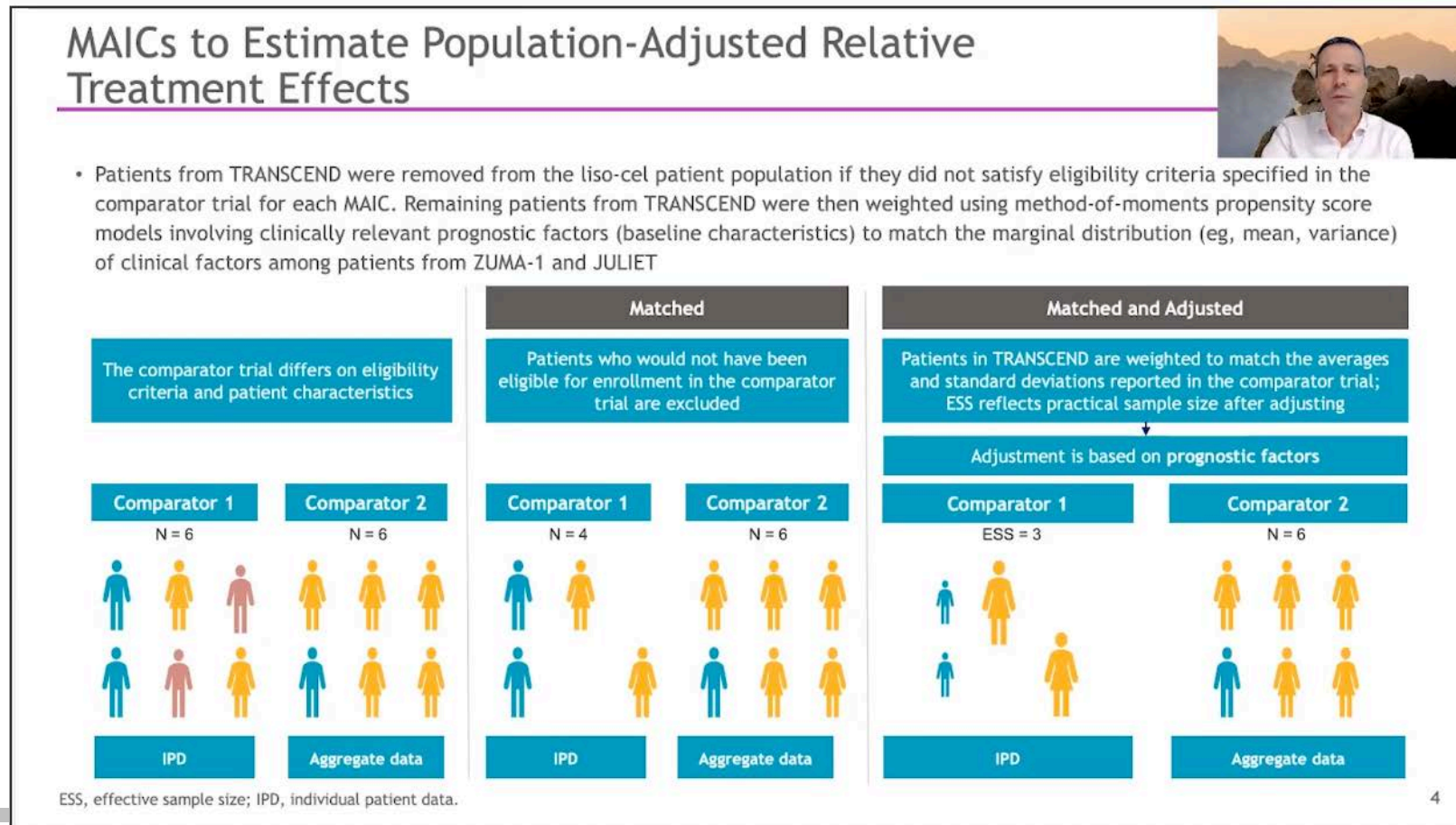
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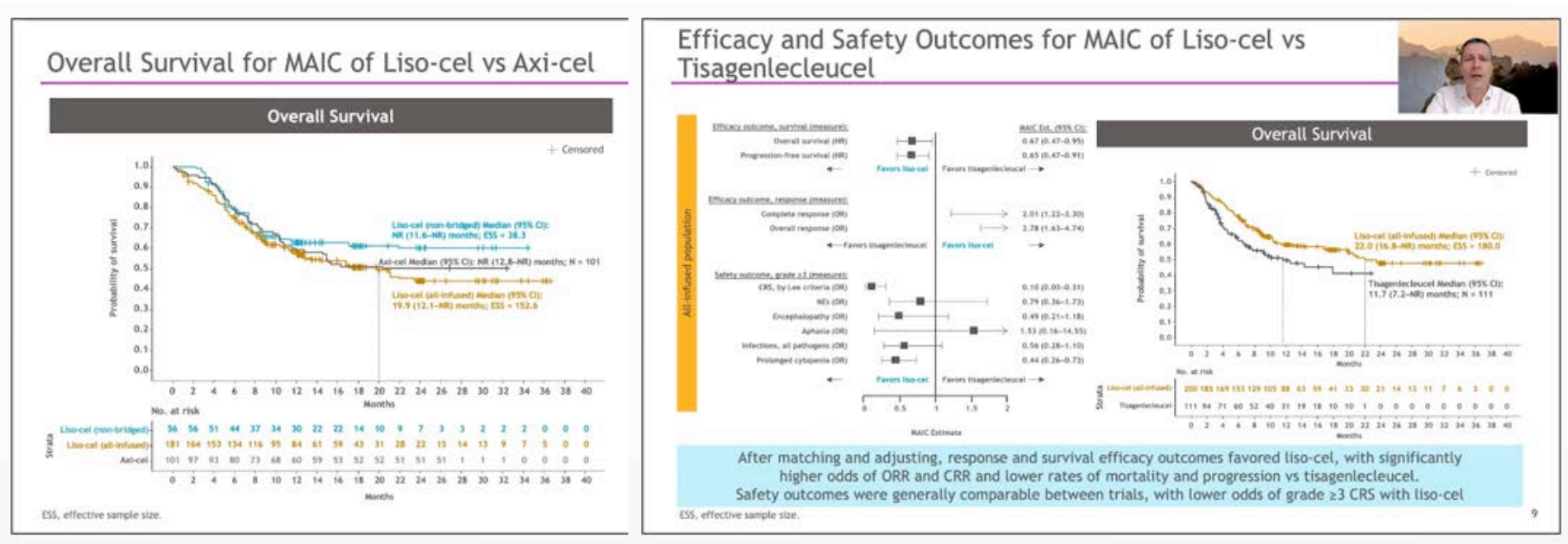


# Matching-Adjusted Indirect Comparison (MAIC) of Liso-cel vs Axi-cel and Tisagenlecleucel in R/R Large B-Cell Lymphoma

## Is there a “best-in-class” CAR-T product?



# Liso-cel vs. Axi-cel and Liso-cel vs. Tisa-cel



- Pairwise matching-adjusted comparison study with matching and then adjustment of ZUMA-1, TRANSCEND, JULIET
- Better safety and comparable efficacy: liso-cel versus axi-cel
- Better efficacy and comparable safety: liso-cel versus tisa-cel



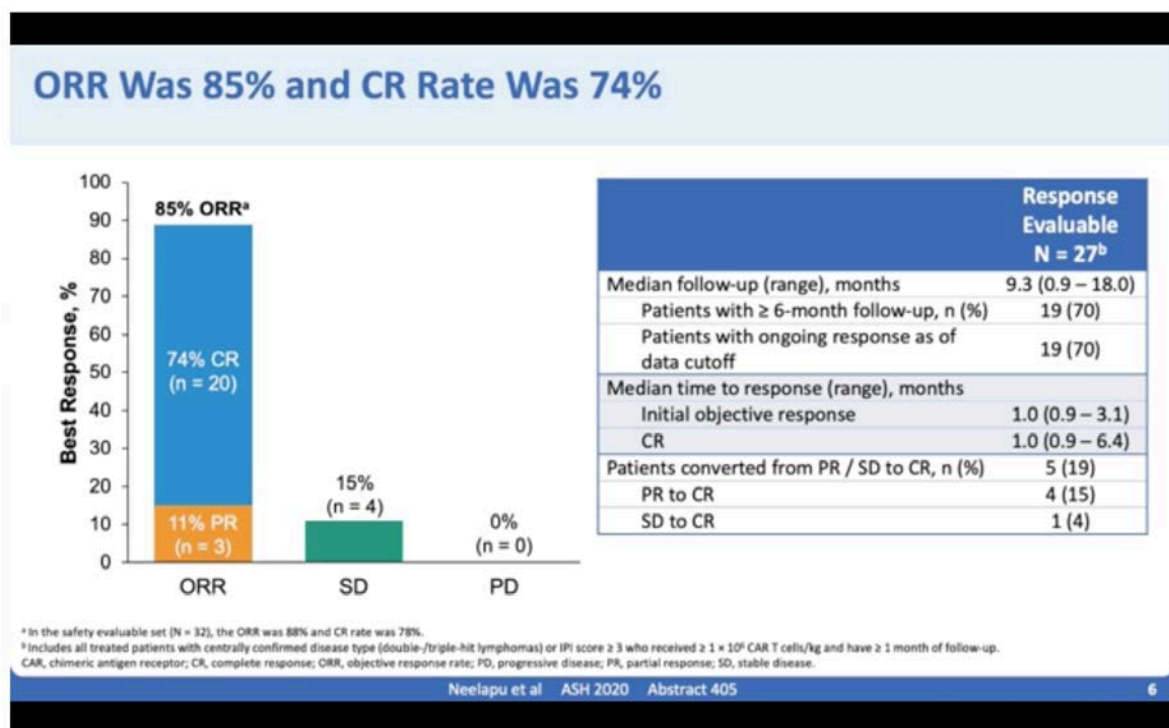
# Liso-cel vs. Axi-cel and Liso-cel vs. Tisa-cel

- Pairwise matching-adjusted comparison study with matching and then adjustment of ZUMA-1, TRANSCEND, JULIET
- Better safety and comparable efficacy: liso-cel versus axi-cel
- Better efficacy and comparable safety: liso-cel versus tisa-cel



# Interim Analysis of ZUMA-12 Trial of Axi-cel as First-Line Therapy for Patients with High-Risk Large B-Cell Lymphoma

## Moving CAR T-cell therapy earlier: high-risk DLBCL



Are CAR-T cells “better” if utilized earlier?

- Higher frequency of CCR7+CD45RA+ T-cells
- Greater CAR-T cell expansion

Med f/u 9.5m



# **Efficacy and Safety of Tisagenlecleucel in Adult Patients with Relapsed/Refractory Follicular Lymphoma: Interim Analysis of the Phase 2 Elara Trial**

Fowler NH et al.

ASH 2020;Abstract 1149.



# Phase II ZUMA-5 Trial of Axicabtagene Ciloleucel

## Phase 2 (N ≈ 160 planned for enrollment)

R/R  
iNHL

FL: n ≈ 125  
(with n ≥ 80 evaluable for efficacy)

MZL: n ≈ 35

### Key eligibility criteria

- R/R FL (Grade 1 – Grade 3a) or MZL (nodal or extranodal)<sup>a</sup>
- ≥ 2 prior lines of therapy—must have included an anti-CD20 mAb combined with an alkylating agent

### Conditioning regimen

- Fludarabine 30 mg/m<sup>2</sup> IV and cyclophosphamide 500 mg/m<sup>2</sup> IV on Days -5, -4, -3

Axi-cel: 2 × 10<sup>6</sup> CAR+ cells/kg

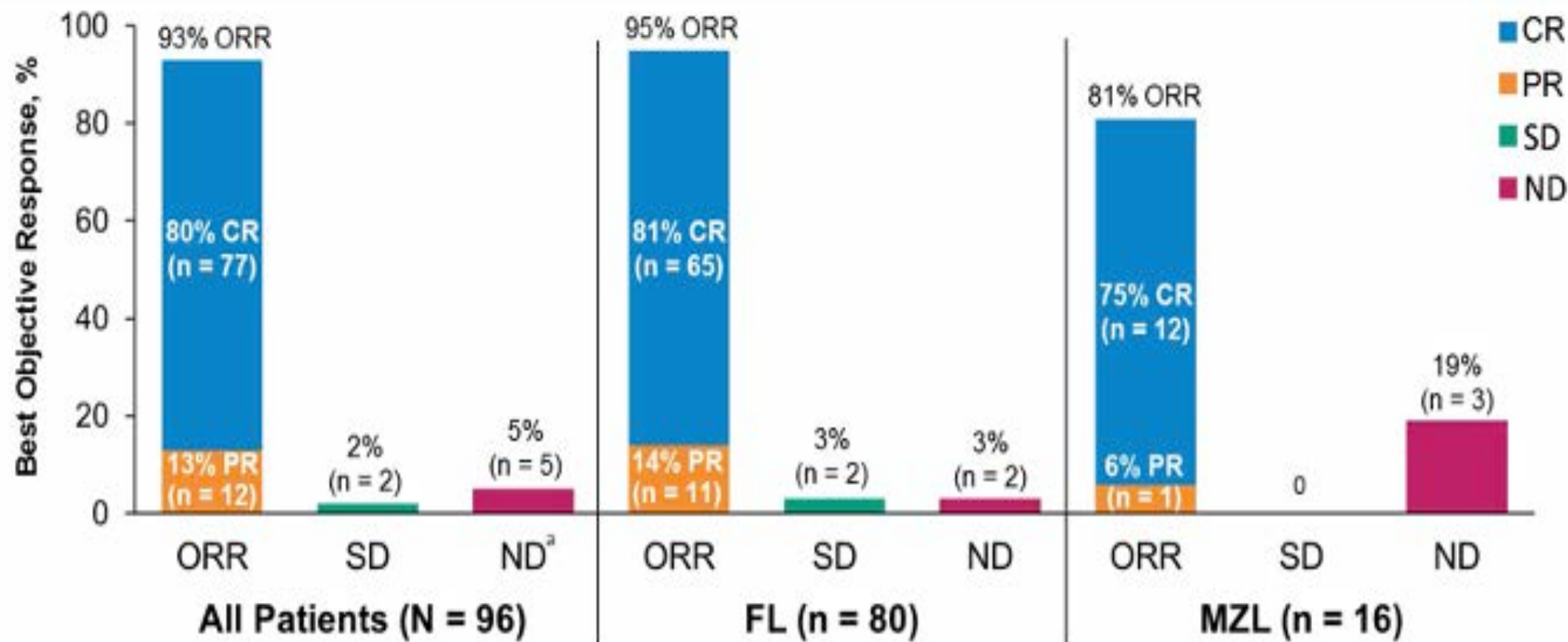
### Primary endpoint

- ORR (IRRC-assessed per the Lugano classification<sup>1</sup>)

### Key secondary endpoints

- CR rate (IRRC-assessed)
- DOR, PFS, OS
- AEs
- CAR T cell and cytokine levels

# ZUMA-5: Response



- The median time to first response was 1 month (range, 0.8 – 3.1)
- Of the 80 patients with FL, 10 (13%) had an initial response of PR at Week 4 and later converted to CR<sub>2</sub>

# **Year in Review — Clinical Investigators Provide Perspectives on the Most Relevant New Publications, Data Sets and Advances in Oncology: Nontargeted Therapy for Lung Cancer**

**Tuesday, January 19, 2021  
5:00 PM – 6:00 PM ET**

## **Faculty**

**Matthew Gubens, MD, MS  
Suresh S Ramalingam, MD**

## **Moderator**

**Neil Love, MD**

*Thank you for joining us!*

*CME and MOC credit information will be emailed to each participant within 5 business days.*