

**What I Tell My Patients:
Faculty Physicians and Nurses Discuss Patient Education
About New Treatments and Clinical Trials**

Fifteenth Annual RTP Symposium Series Held During the Annual ONS Congress

Diffuse Large B-Cell Lymphoma

Thursday, April 27, 2023

6:00 AM – 7:30 AM

Faculty

Christopher R Flowers, MD, MS

Amy Goodrich, CRNP

Robin Klebig, APRN, CNP, AOCNP

Matthew Lunning, DO

Moderator

Neil Love, MD

Faculty



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Hematology Outpatient APP Supervisor
Assistant Professor of Medicine
Nurse Practitioner, Lymphoma Group
Division of Hematology
Mayo Clinic
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Dr Flowers — Disclosures

Consulting Agreements	AbbVie Inc, Bayer HealthCare Pharmaceuticals, BeiGene Ltd, Celgene Corporation, Denovo Biopharma, Epizyme Inc, Genentech, a member of the Roche Group, Genmab US Inc, Gilead Sciences Inc, Janssen Biotech Inc, Karyopharm Therapeutics, Pharmacyclics LLC, an AbbVie Company, Seagen Inc, Spectrum Pharmaceuticals Inc
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Ms Goodrich — Disclosures

No relevant conflicts of interest to disclose

Ms Klebig — Disclosures

No relevant conflicts of interest to disclose

Dr Lunning — Disclosures

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Contracted Research	Bristol-Myers Squibb Company, Curis Inc

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Research To Practice NCPD Planning Committee Members, Staff and Reviewers

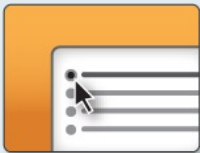
Planners, scientific staff and independent reviewers for Research To Practice have no relevant conflicts of interest to disclose.

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. Survey questions will be discussed throughout the meeting.



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.



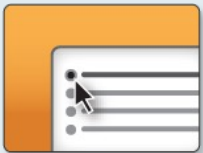
Complete Your Evaluation: Tap the NCPD Evaluation button to complete your evaluation electronically to receive credit for your participation.

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. Survey questions will be discussed throughout the meeting.



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



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

Clinicians, Please Complete the Pre- and Postmeeting Surveys

The screenshot shows a Zoom meeting window. At the top, a row of seven participant video thumbnails is visible. The main content area on the left displays a presentation slide with the following text:
Meet The Professionals
Optimizing the Selection and Sequencing of Therapy for Patients with Metastatic Gastrointestinal Cancer
Wednesday, August 25, 2022
5:00 PM – 6:00 PM EST
Faculty
Wells A Messersmith, MD
Moderator
Neil Love, MD
The RTP Research to Practice logo is in the bottom right corner of the slide. A 'Quick Survey' pop-up window is centered over the slide, listing several treatment combinations with radio button options. To the right of the main content area is a 'Participants (10)' sidebar showing a list of names with their respective status icons (microphone, video, chat). At the bottom of the window is a Zoom toolbar with icons for Join Audio, Start Video, Invite, Participants, Share, Chat, Record, and a red 'Leave Meeting' button.

Quick Survey

- ☐ Certizomib +/- dexamethasone
- ☐ Pomalidomide +/- dexamethasone
- ☐ Certizomib + pomalidomide +/- dexamethasone
- ☐ Elotuzumab + lenalidomide +/- dexamethasone
- ☐ Elotuzumab + pomalidomide +/- dexamethasone
- ☐ Daratumumab + lenalidomide +/- dexamethasone
- ☐ Daratumumab + pomalidomide +/- dexamethasone
- ☐ Daratumumab + bortezomib +/- dexamethasone
- ☐ Isaxomib + Rd
- ☐ Other

Participants (10)

- JS John Smith
- MM Mary Major
- RM Richard Miles
- JN John Noakes
- AS Alice Suarez
- JP Jane Perez
- RS Robert Stiles
- JF Juan Fernandez
- AK Ashok Kumar
- JS Jeremy Smith

The screenshot shows a Zoom meeting window. At the top, a row of seven participant video thumbnails is visible. The main content area on the left displays a presentation slide with the following text:
Regulatory and reimbursement issues aside, which treatment would you recommend for a 65-year-old patient with clear cell renal cell carcinoma (ccRCC) who has been on a tyrosine kinase inhibitor (TKI) for 3 years and is found to have asymptomatic (PS 0) metastases?

1. Nivolumab/ipilimumab
2. Avelumab/axitinib
3. Pembrolizumab/axitinib
4. Pembrolizumab/lenvatinib
5. Nivolumab/cabozantinib
6. Tyrosine kinase inhibitor (TKI) monotherapy
7. Anti-PD-1/PD-L1 monotherapy
8. Other

The RTP Research to Practice logo is in the bottom right corner of the slide. A 'Quick Poll' pop-up window is centered over the slide, listing the same eight options as the poll question with radio button options. To the right of the main content area is a 'Participants (10)' sidebar showing a list of names with their respective status icons. At the bottom of the window is a Zoom toolbar with icons for Join Audio, Start Video, Invite, Participants, Share, Chat, Record, and a red 'Leave Meeting' button.

Quick Poll

- ☐ Nivolumab/ipilimumab
- ☐ Avelumab/axitinib
- ☐ Pembrolizumab/axitinib
- ☐ Pembrolizumab/lenvatinib
- ☐ Nivolumab/cabozantinib
- ☐ Tyrosine kinase inhibitor (TKI) monotherapy
- ☐ Anti-PD-1/PD-L1 monotherapy
- ☐ Other

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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



“What I Tell My Patients”

Fifteenth Annual RTP-ONS NCPD Symposium Series

ONS Congress, San Antonio, Texas — April 26 to 29, 2023

Wednesday April 26	Cervical and Endometrial Cancer 11:15 AM – 12:45 PM CT (12:15 PM – 1:45 PM ET)
	Breast Cancer 6:00 PM – 8:00 PM CT (7:00 PM – 9:00 PM ET)
Thursday April 27	Diffuse Large B-Cell Lymphoma 6:00 AM – 7:30 AM CT (7:00 AM – 8:30 AM ET)
	Chronic Lymphocytic Leukemia 12:15 PM – 1:45 PM CT (1:15 PM – 2:45 PM ET)
	HER2-Targeted Antibody-Drug Conjugates 6:00 PM – 7:30 PM CT (7:00 PM – 8:30 PM ET)
Friday April 28	Hepatobiliary Cancers 6:00 AM – 7:30 AM CT (7:00 AM – 8:30 AM ET)
	Ovarian Cancer 12:15 PM – 1:45 PM CT (1:15 PM – 2:45 PM ET)
	Lung Cancer 6:00 PM – 8:00 PM CT (7:00 PM – 9:00 PM ET)
Saturday April 29	Acute Myeloid Leukemia, Myelodysplastic Syndromes and Myelofibrosis 6:00 AM – 7:30 AM CT (7:00 AM – 8:30 AM ET)
	Prostate Cancer 12:15 PM – 1:45 PM CT (1:15 PM – 2:45 PM ET)

What I Tell My Patients

2023 ONS Congress

San Antonio, Texas

Symposia Themes

- **New agents and therapies; ongoing trials related to specific clinical scenarios**
- **Patient education: Preparing to receive new therapies**
- **The bond that heals**
- **THANKS! (Great job)**

How was it different to take care of this patient versus another patient in the same oncologic setting?

What unique biopsychosocial factors (eg, attitude, comorbidities, social support) were considered in the overall management of this case?

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Assistant Vice Chair of Research, Department
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Moderator
Neil Love, MD
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Miami, Florida



Robin Klebig, APRN, CNP, AOCNP
Hematology Outpatient APP Supervisor
Assistant Professor of Medicine
Nurse Practitioner, Lymphoma Group
Division of Hematology
Mayo Clinic
Rochester, Minnesota

Agenda

Module 1: POLARIX: Polatuzumab Vedotin/R-CHP for Previously Untreated DLBCL

Module 2: Polatuzumab Vedotin/BR and Selinexor for Relapsed Disease

Module 3: CD19-Directed Antibody-Drug Conjugate Loncastuximab Tesirine

Module 4: CD19-Directed Monoclonal Antibody Tafasitamab Combined with Lenalidomide

Module 5: CD20 x CD3 Bispecific Antibodies

Module 6: CAR T-Cell Therapy

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Module 6: CAR T-Cell Therapy

Robin Klebig, APRN, CNP, AOCNP



**39-year-old man with DLBCL who received polatuzumab
vedotin with R-CHP**



Dr Flowers

Houston, Texas

Clinical Research Background

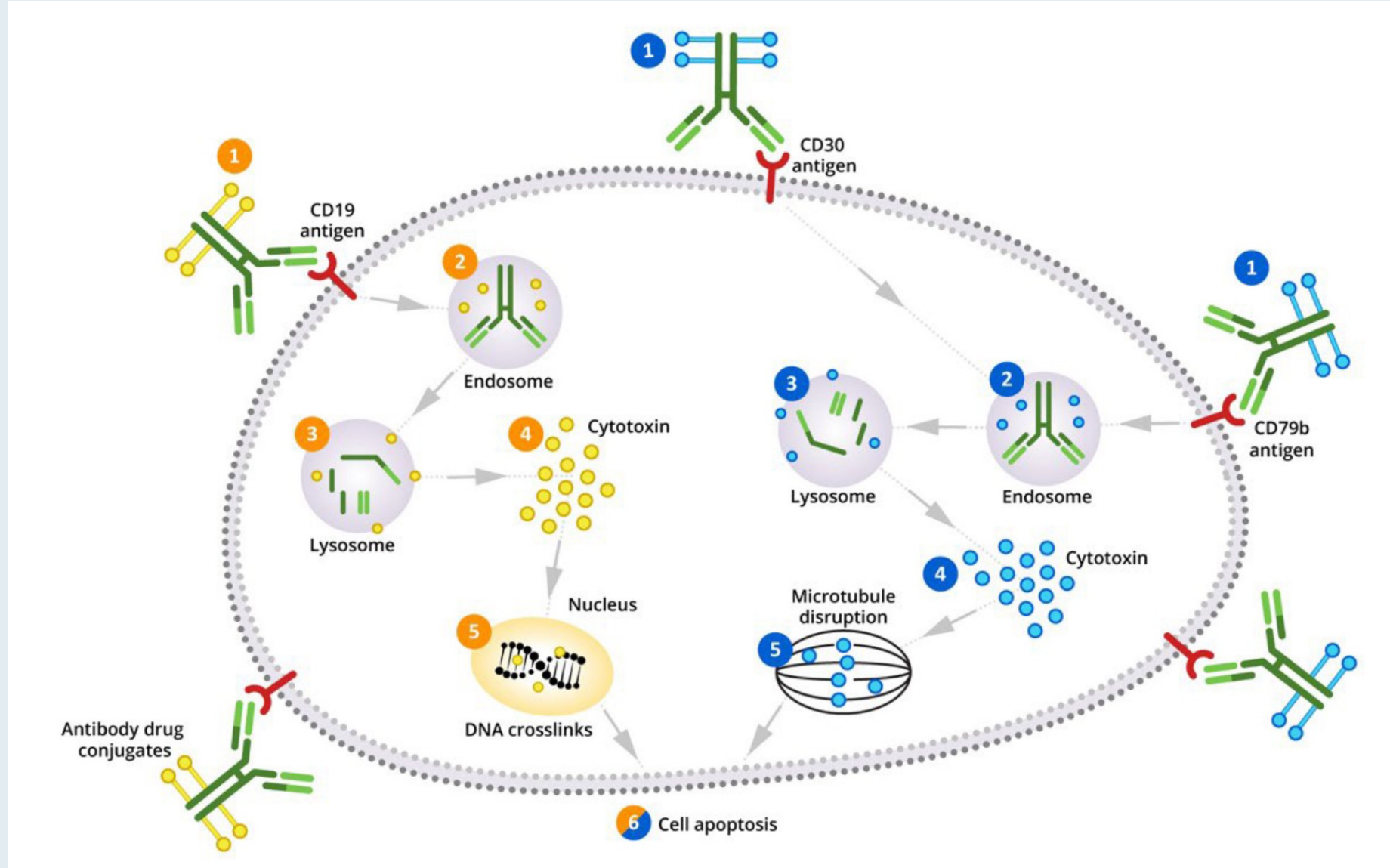


Dr Lunning

Omaha, Nebraska

- **POLARIX: Polatuzumab vedotin/R-CHP for previously untreated DLBCL**

Antibody-Drug Conjugate Mechanism of Action in DLBCL



Polatuzumab Vedotin

Mechanism of action

- Antibody-drug conjugate directed against CD79b

Indication

- In combination with R-CHP for the treatment of previously untreated DLBCL not otherwise specified (NOS) or high-grade B-cell lymphoma in adult patients with an International Prognostic Index score of 2 or greater
- In combination with bendamustine/rituximab (BR) for the treatment of relapsed or refractory DLBCL NOS in adult patients after at least 2 prior therapies

Recommended dose

- 1.8 mg/kg as an IV infusion q21d for 6 cycles

FDA Grants Approval to Polatuzumab Vedotin in Combination with R-CHP for Diffuse Large B-Cell Lymphoma

Press Release – April 19, 2023

The Food and Drug Administration granted approval to polatuzumab vedotin-piiq in combination with rituximab, cyclophosphamide, doxorubicin and prednisone (R-CHP) for the treatment of adult patients who have previously untreated diffuse large B-cell lymphoma (DLBCL), not otherwise specified or high-grade B-cell lymphoma and who have an International Prognostic Index of 2 or greater.

The approval is based on positive results from the POLARIX trial, which demonstrated statistically significant improvement in progression-free survival compared to the current standard of care in patients with previously untreated DLBCL.

N Engl J Med 2022;386(4):351-63.

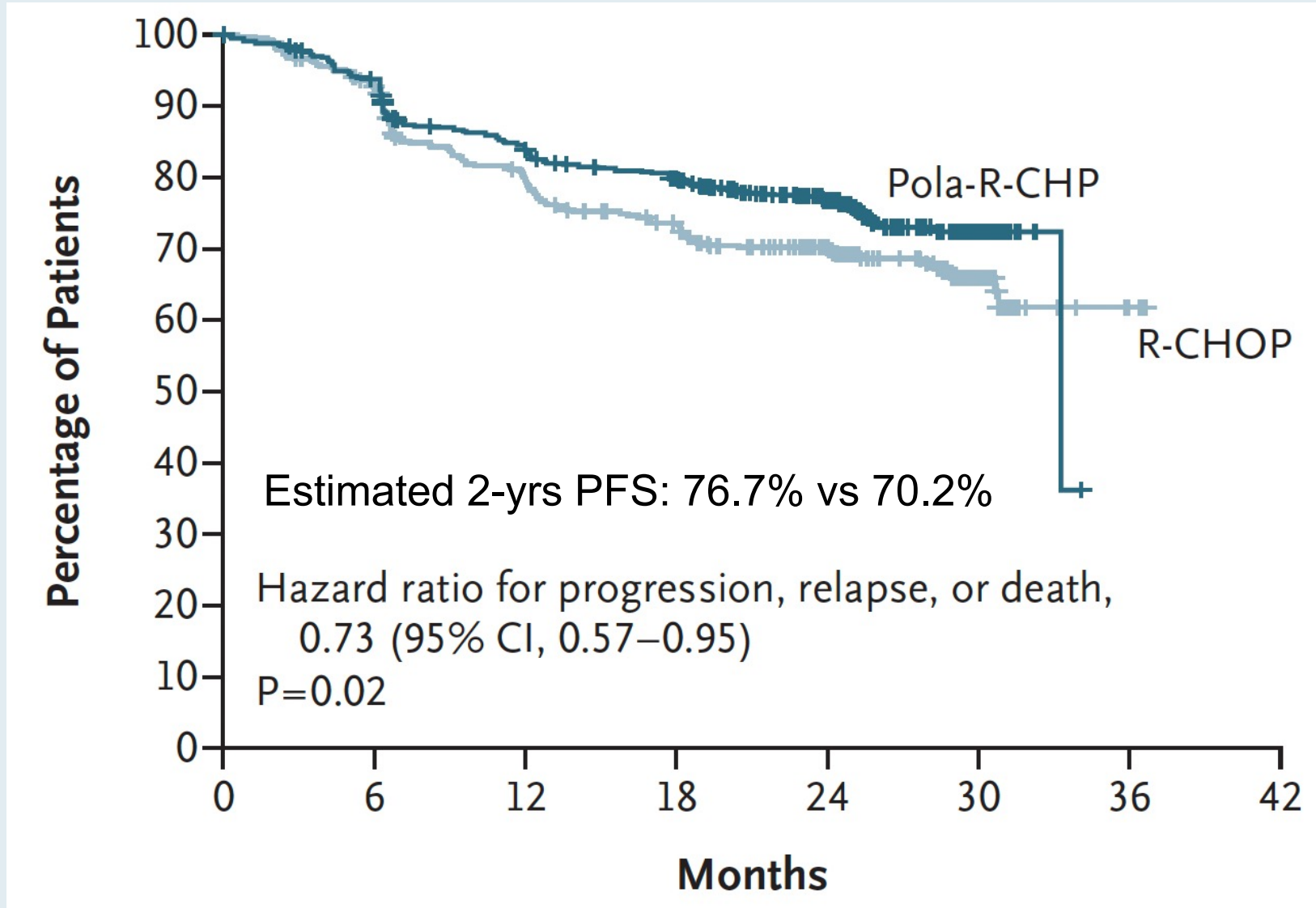
The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Polatuzumab Vedotin in Previously Untreated Diffuse Large B-Cell Lymphoma

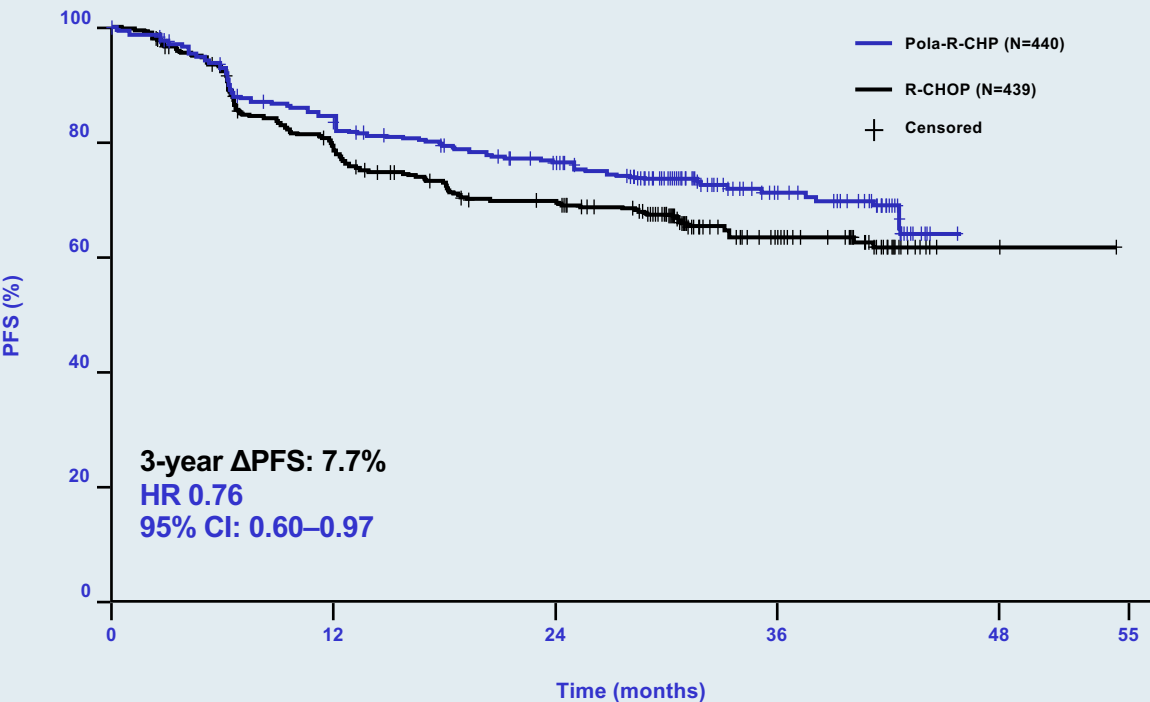
H. Tilly, F. Morschhauser, L.H. Sehn, J.W. Friedberg, M. Trněný, J.P. Sharman, C. Herbaux, J.M. Burke, M. Matasar, S. Rai, K. Izutsu, N. Mehta-Shah, L. Oberic, A. Chauchet, W. Jurczak, Y. Song, R. Greil, L. Mykhalska, J.M. Bergua-Burgués, M.C. Cheung, A. Pinto, H.-J. Shin, G. Hapgood, E. Munhoz, P. Abrisqueta, J.-P. Gau, J. Hirata, Y. Jiang, M. Yan, C. Lee, C.R. Flowers, and G. Salles

POLARIX: Investigator-Assessed Progression-Free Survival (Primary Endpoint)



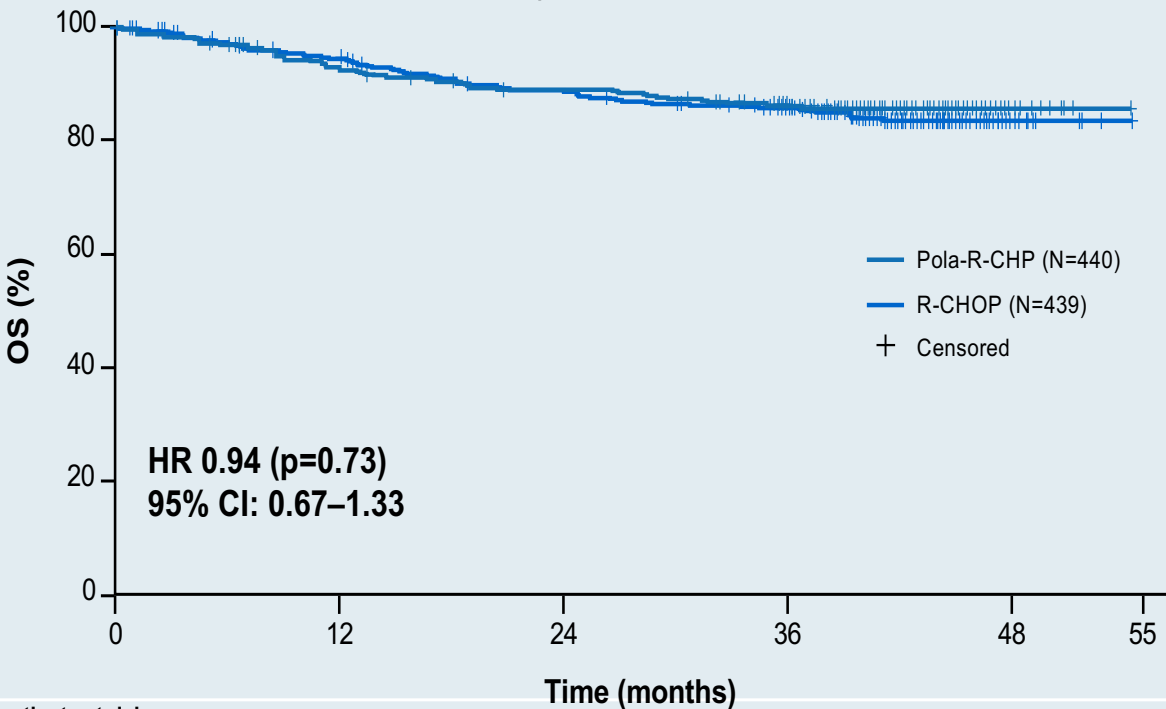
POLARIX: Updated Survival Analyses

PFS : Updated results
Median follow-up: 39.7 months



No. of patients at risk										
Pola-R-CHP	440	405	354	331	313	242	103	66	0	0
R-CHOP	439	390	331	300	284	222	94	59	2	1

Updated results (CCOD: June 15, 2022)
Median follow-up: 39.7 months



No. of patients at risk										
Pola-R-CHP	440	423	398	387	379	371	338	129	13	1
R-CHOP	439	415	403	382	372	361	329	124	18	1

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Module 3: CD19-Directed Antibody-Drug Conjugate Loncastuximab Tesirine

Module 4: CD19-Directed Monoclonal Antibody Tafasitamab Combined with Lenalidomide

Module 5: CD20 x CD3 Bispecific Antibodies

Module 6: CAR T-Cell Therapy

Amy Goodrich, CRNP



**66-year-old woman with relapsed DLBCL who received
polatuzumab vedotin/BR**



Dr Flowers
Houston, Texas

Clinical Research Background



Dr Lunning
Omaha, Nebraska

- **Polatuzumab vedotin/BR and selinexor for relapsed disease**

Novel Agents Recently Approved for Relapsed/Refractory DLBCL

	Pola-BR	Selinexor	Tafasitamab/ lenalidomide	Loncastuximab tesirine
Mechanism of action	Anti-CD79b ADC	XPO-1 inhibitor	Anti-CD19 MAb/immunomodulator	Anti-CD19 ADC
ORR	45%	28%	58%	48%
CR rate	40%	10%	40%	24%
PFS	9.2 mo	2.6 mo	11.6 mo	4.9 mo
DoR	12.6 mo	9.3 mo	43.9 mo	10.3 mo
OS	12.4 mo	NR	33.5 mo	9.9 mo

Pola-BR = polatuzumab vedotin with bendamustine/rituximab; ADC = antibody-drug conjugate; mAb = monoclonal antibody

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Module 6: CAR T-Cell Therapy

Robin Klebig, APRN, CNP, AOCNP



**70-year-old man with DLBCL who received loncastuximab
tesirine**



Dr Flowers
Houston, Texas

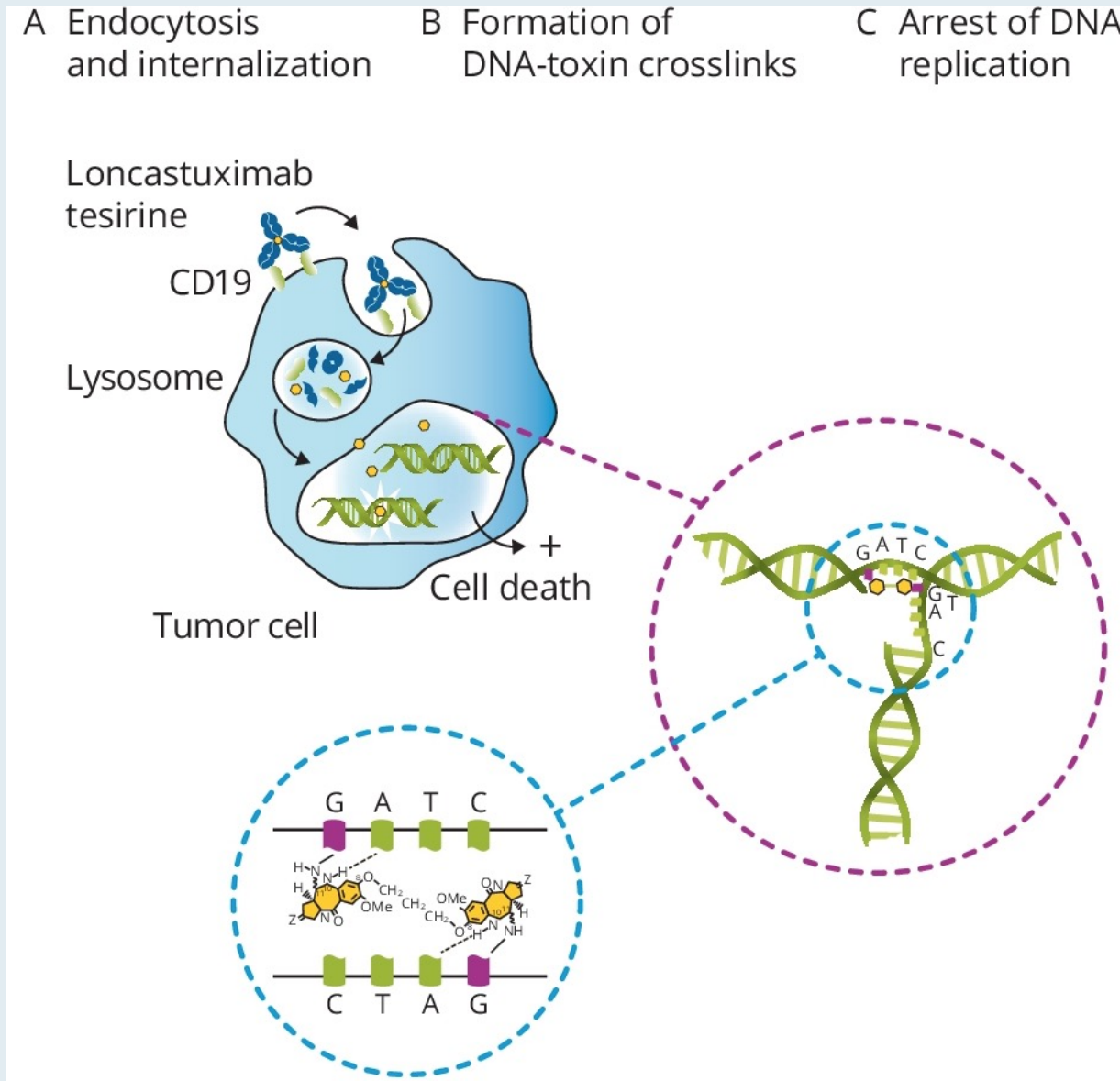
Clinical Research Background



Dr Lunning
Omaha, Nebraska

- **CD19-directed antibody-drug conjugate loncastuximab tesirine**

Mechanism of Action of Loncastuximab Tesirine



Loncastuximab Tesirine

Mechanism of action

- Antibody-drug conjugate directed against CD19

Indication

- For patients with relapsed or refractory large B-cell lymphoma after 2 or more lines of systemic therapy, including those with DLBCL NOS, DLBCL arising from low-grade lymphoma and high-grade B-cell lymphoma

Recommended dose

- 0.15 mg/kg IV infusion on day 1 q3wk for the first 2 cycles, then 0.075 mg/kg IV infusion on day 1 q3wk for subsequent cycles

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Module 6: CAR T-Cell Therapy

Amy Goodrich, CRNP



58-year-old man and Jehovah's Witness with DLBCL who received tafasitamab/lenalidomide



Dr Flowers

Houston, Texas

Clinical Research Background

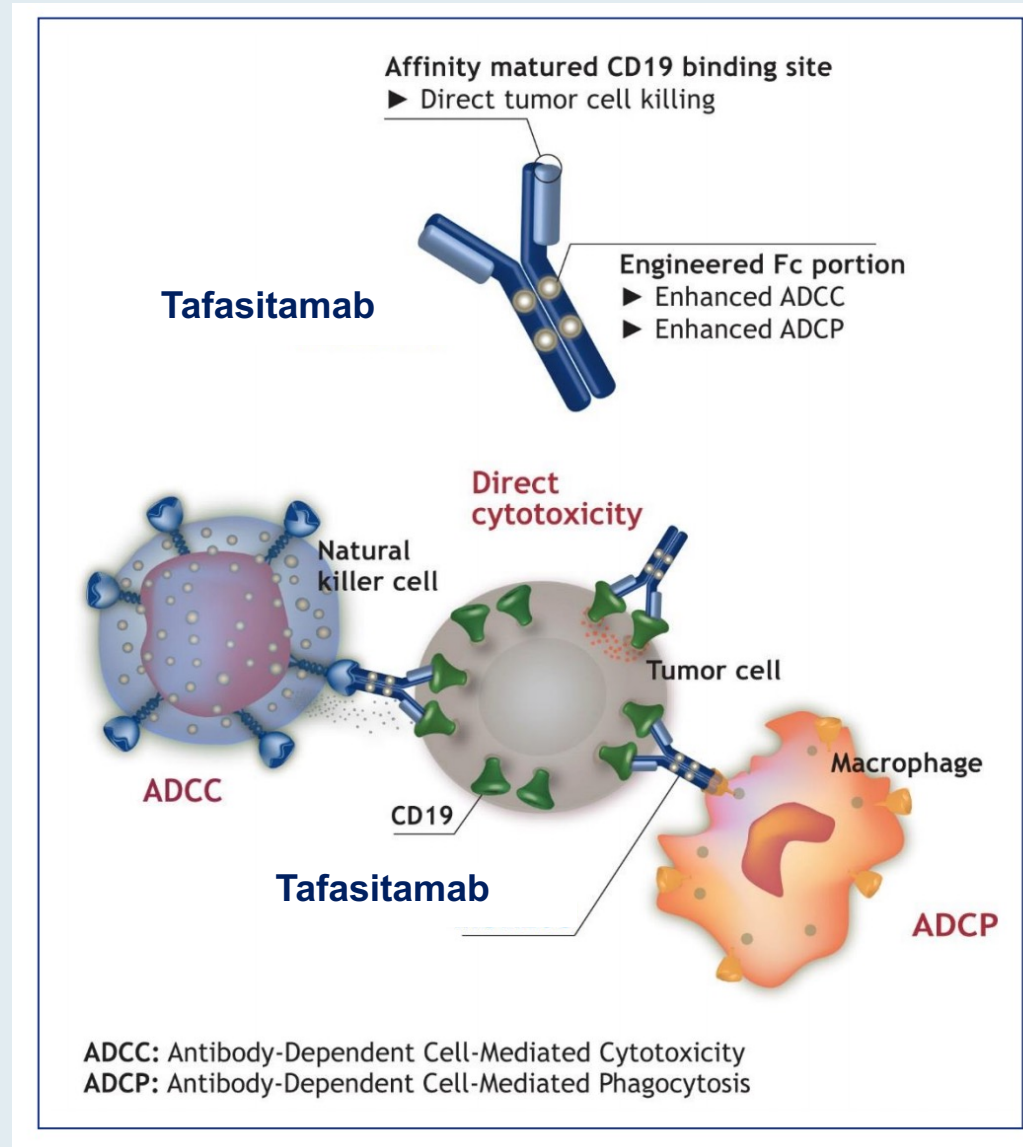


Dr Lunning

Omaha, Nebraska

- **CD19-directed monoclonal antibody tafasitamab combined with lenalidomide**

Tafasitamab (MOR208)



**Lenalidomide enhances
NK function with
enhanced ADCC in vitro**

Salles et al. *Lancet Onc* 2020

Tafasitamab

Mechanism of action

- Monoclonal antibody directed against CD19

Indication

- In combination with lenalidomide for the treatment of relapsed or refractory DLBCL NOS, including DLBCL arising from low grade lymphoma in adult patients who are not eligible for autologous stem cell transplant

Recommended dose

- 12 mg/kg as an IV infusion as follows:
 - Cycle 1: Days 1, 4, 8, 15 and 22 of the 28-day cycle
 - Cycles 2 and 3: Days 1, 8, 15 and 22 of each 28-day cycle
 - Cycle 4 and beyond: Days 1 and 15 of each 28-day cycle
- Administered with lenalidomide for a maximum of 12 cycles, and then as monotherapy until toxicity or disease progression

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Robin Klebig, APRN, CNP, AOCNP



**63-year-old man with relapsed DLBCL who received
odronextamab**



Dr Flowers

Houston, Texas

Clinical Research Background



Dr Lunning

Omaha, Nebraska

- **CD20 x CD3 bispecific antibodies**
 - **Mechanism of action**
 - **Efficacy**
 - **Tolerability**

Emerging Bispecific Antibodies for DLBCL

Bispecific antibody	Construct	Administration
Glofitamab	CD3 (Fab) x CD20 (Fab x 2) Fc	IV
Mosunetuzumab	CD3 x CD20 Knobs-into-holes Fc	IV, SC
Epcoritamab	DuoBody [®] -CD3 x CD20	SC
Odronextamab	CD3 x CD20 common LC Fc	IV

IV = intravenous; SC = subcutaneous; LC = light chain

Glofitamab: Background and Mechanism of Action

- **Patients with R/R DLBCL (≥2 prior therapies) have a poor prognosis^{1,2}**

- poor outcomes are reported in patients with treatment failure after R-CHOP, particularly in those with refractory disease³
- CAR T-cell therapy is an option for patients with R/R DLBCL but its use may be limited by logistical challenges^{4,5}

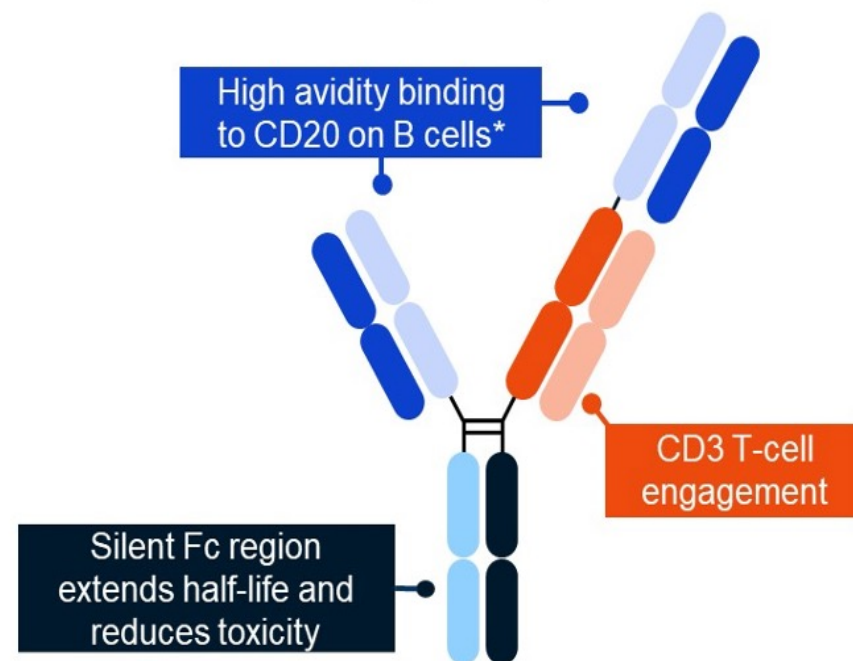
- **Glofitamab**

- off-the-shelf and fixed duration treatment^{6,7}

- **Phase I experience (NCT03075696)⁷**

- encouraging efficacy and manageable safety with glofitamab monotherapy in patients with R/R B-cell NHL^{6,7}
- established a step-up dosing schedule and target dose (30mg) in patients with B-cell NHL in multiple cohorts⁸

Glofitamab: CD20xCD3 bispecific monoclonal antibody with 2:1 format for increased potency vs 1:1 format⁶



Glofitamab

Mechanism of action

- **Bispecific antibody directed against CD20 on B cells and CD3 on T cells**

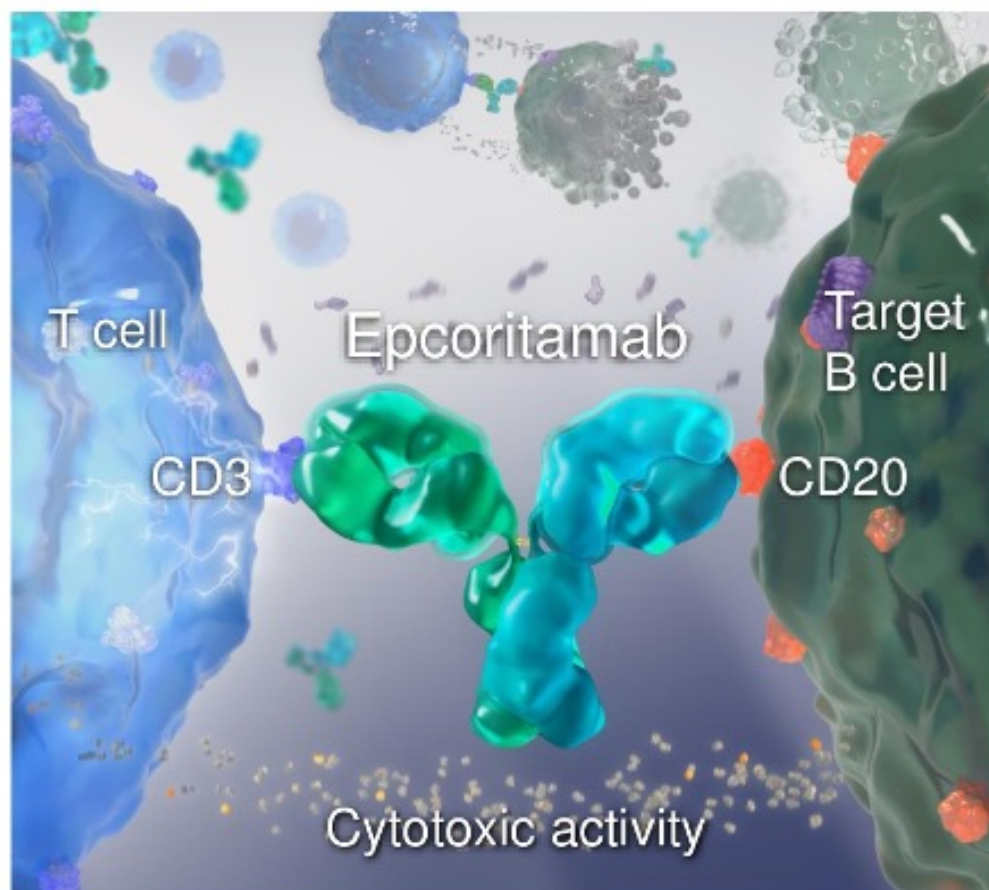
Indication

- **Investigational**

Key Trial Data

- **Phase I/II NP30179 study evaluating glofitamab in patients with relapsed or refractory large B-cell lymphoma**

Epcoritamab: Background and Mechanism of Action



- Patients with DLBCL, particularly those considered high/poor risk (ie, with 3–5 risk factors, based on the revised IPI), have poor outcomes with standard first-line therapy (R-CHOP), with 55% overall survival at 4 years^{1,2}
 - A significant unmet need remains in this population, and new approaches are needed
- Epcoritamab is a subcutaneously administered (SC) bispecific antibody that binds to CD3 on T cells and CD20 on B cells to induce T-cell-mediated killing of CD20⁺ malignant B cells^{3,4}
- Epcoritamab-mediated T-cell cytotoxicity is maintained in combination with R-CHOP^{3,5}
- In the dose-escalation part of the EPCORE NHL-1 phase 1/2 trial, single-agent epcoritamab had a manageable safety profile and substantial antitumor activity in patients with heavily pretreated B-cell NHL⁶
- Epcoritamab is well suited for combination therapy due to its mechanism of action, distinct from that of the components of standard of care R-CHOP^{3,5,7}

Epcoritamab

Mechanism of action

- **Bispecific antibody directed against CD20 on B cells and CD3 on T cells**

Indication

- **Investigational**

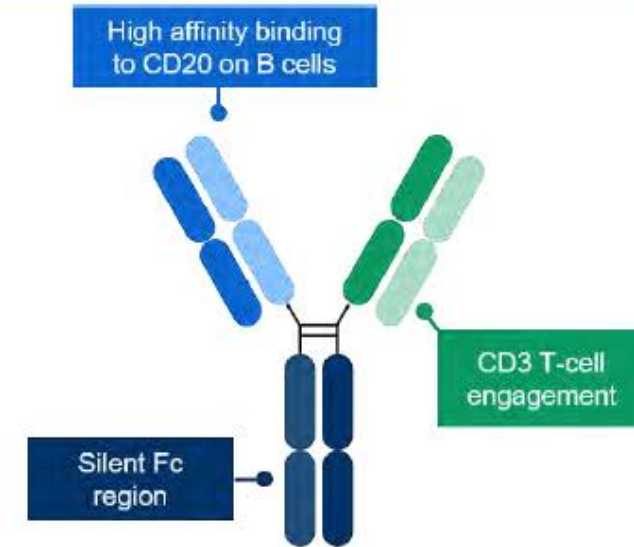
Key Trial Data

- **Phase I/II EPCORE NHL-1 study evaluating epcoritamab in patients with relapsed or refractory large B-cell lymphoma**

Study Background and Mechanism of Action of Mosunetuzumab

- DLBCL accounts for approximately 30% of all NHL¹
 - Median age at diagnosis: 66 years²
- Poor outcomes have been reported for elderly/unfit patients with first-line DLBCL who receive R-mini-CHOP, R-CVP, R-benda, or no treatment³
- Mosunetuzumab monotherapy demonstrated promising efficacy and manageable safety in elderly/unfit patients with previously untreated DLBCL in early data from a Phase I/II study (NCT03677154)⁴

Mosunetuzumab: CD20xCD3 T cell engaging bispecific antibody that redirects T cells to engage and eliminate malignant B cells⁵



Mosunetuzumab

Mechanism of action

- Bispecific antibody directed against CD20 on B cells and CD3 on T cells

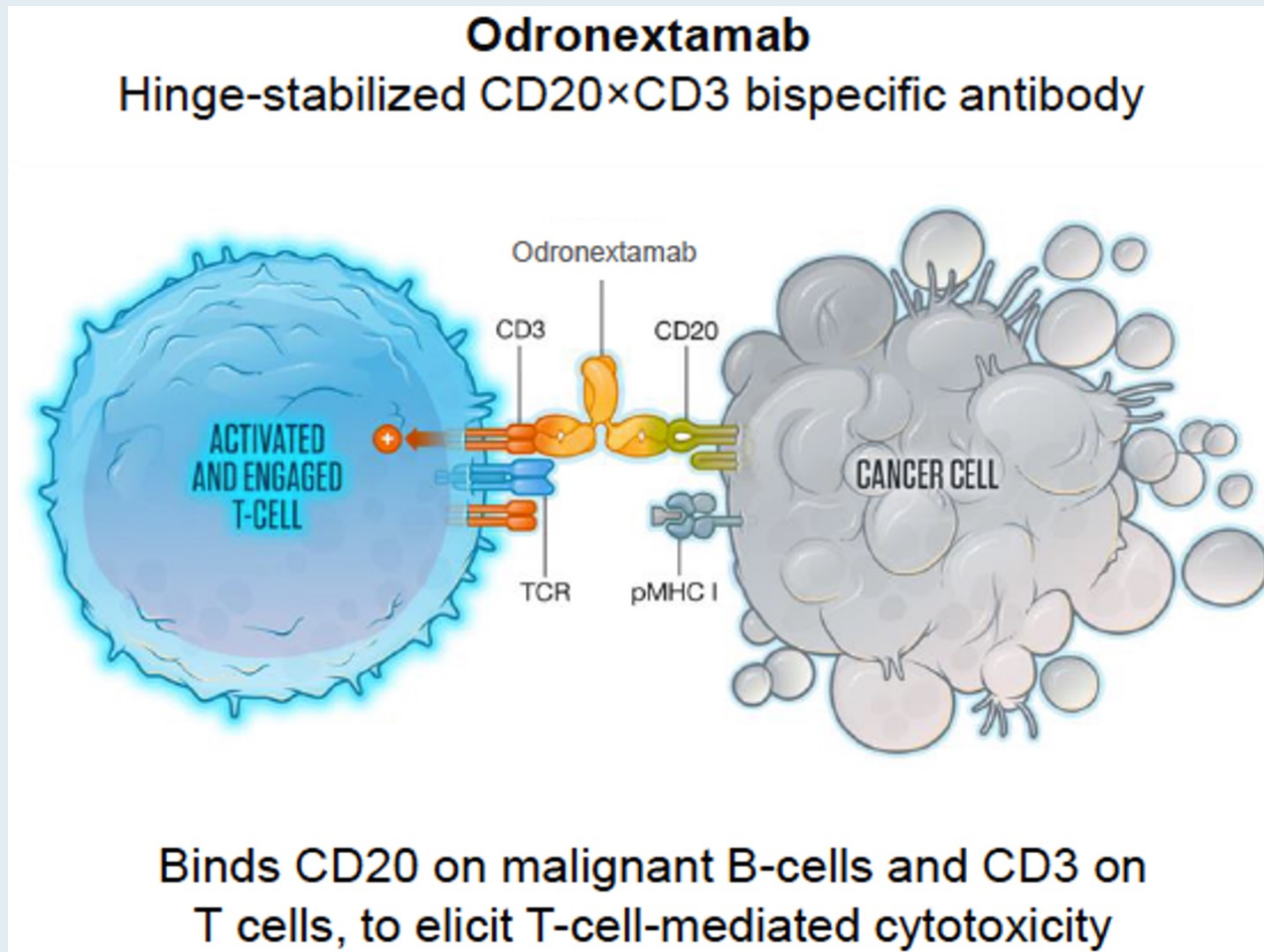
Indication

- Investigational

Key Trial Data

- Phase I/II GO29781 study evaluating mosunetuzumab in patients with relapsed or refractory CD20-positive B-cell non-Hodgkin lymphoma

Background and Mechanism of Action of Odronextamab



Odronextamab

Mechanism of action

- **Bispecific antibody directed against CD20 on B cells and CD3 on T cells**

Indication

- **Investigational**

Key Trial Data

- **Phase II ELM-2 study evaluating odronextamab in patients with relapsed or refractory DLBCL**

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Module 5: CD20 x CD3 Bispecific Antibodies

Module 6: CAR T-Cell Therapy

Amy Goodrich, CRNP



36-year-old woman with DLBCL receiving polatuzumab vedotin with rituximab while awaiting CAR T-cell therapy



Dr Flowers

Houston, Texas

Clinical Research Background



Dr Lunning

Omaha, Nebraska

- **CAR T-cell therapy**
 - **Mechanism of action**
 - **Efficacy**
 - **Tolerability**

Randomized Trials Comparing Second-Line CAR T-Cell to Standard Therapy for Patients with Transplant-Eligible DLBCL with Primary Refractory Disease or Relapse within 1 Year of First-Line Therapy

	ZUMA-7	TRANSFORM	BELINDA
CAR T-cell therapy	Axicabtagene ciloleucel	Lisocabtagene maraleucel	Tisagenlecleucel
n	359	184	322
Pts infused in CAR arm	94%	98%	96%
Median EFS	8.3 mo vs 2 mo	10.1 mo vs 2.3 mo	3 mo vs 3 mo
Hazard ratio	0.398 ($p < 0.0001$)	0.349 ($p < 0.0001$)	1.07 ($p = 0.69$)
Median follow-up	25 mo	6 mo	10 mo
CR rate	65% vs 32%	66% vs 39%	28% vs 28%
Grade ≥ 3 CRS/NT	6%/21%	1%/4%	5%/3%
	Locke et al. ASH 2021;Abstract 2	Kamdar et al. ASH 2021;Abstract 91	Bishop et al. ASH 2021;Abstract LBA-6

CAR = chimeric antigen receptor; EFS = event-free survival; CR = complete response; CRS = cytokine release syndrome; NT = neurotoxicity

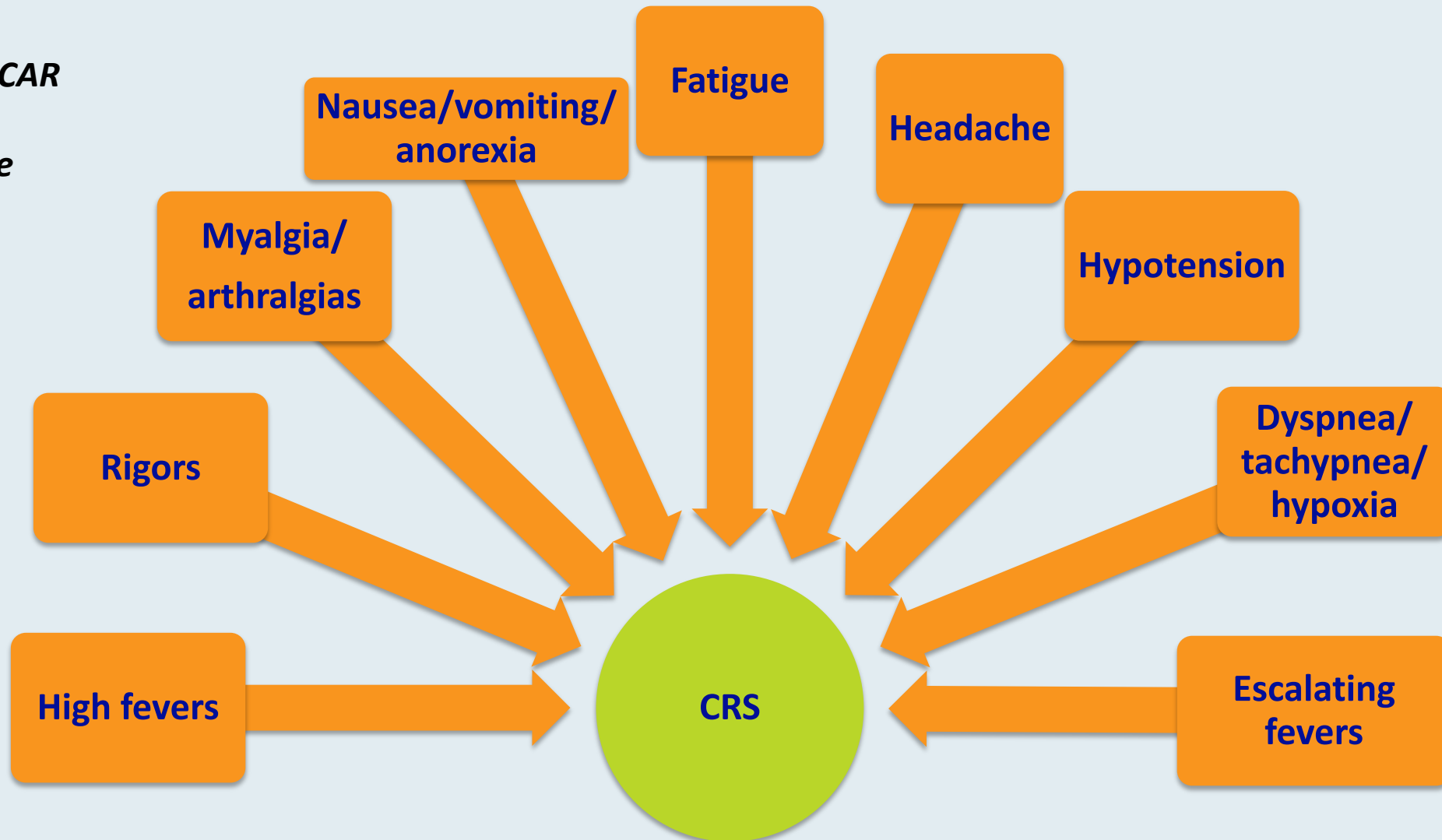
CAR T-Cell Therapy-Associated Cytokine Release Syndrome (CRS)

CRS — May be mild or life-threatening

- Occurs with CART19 activation and expansion
- Dramatic cytokine elevations (IL-6, IL10, IFN γ , CRP, ferritin)
- Fevers initially (can be quite high: 105°F)
- Myalgias, fatigue, nausea/anorexia
- Capillary leak, headache, hypoxia and hypotension
- CRS-related mortality 3% to 10%

CRS: Common Symptoms

*Based on CAR
T-cell
experience*



Diagnosis based on clinical symptoms and events

CAR T-Cell Therapy-Associated Neurologic Toxicity

Neurologic toxicity — May be mild or life-threatening

- Mechanism unclear, referred to as immune effector cell-associated neurotoxicity syndrome (ICANS)
- Encephalopathy
- Seizures
- Delirium, confusion, aphasia, agitation, sedation, coma

APPENDIX

Polatuzumab vedotin plus bendamustine and rituximab in relapsed/refractory DLBCL: survival update and new extension cohort data

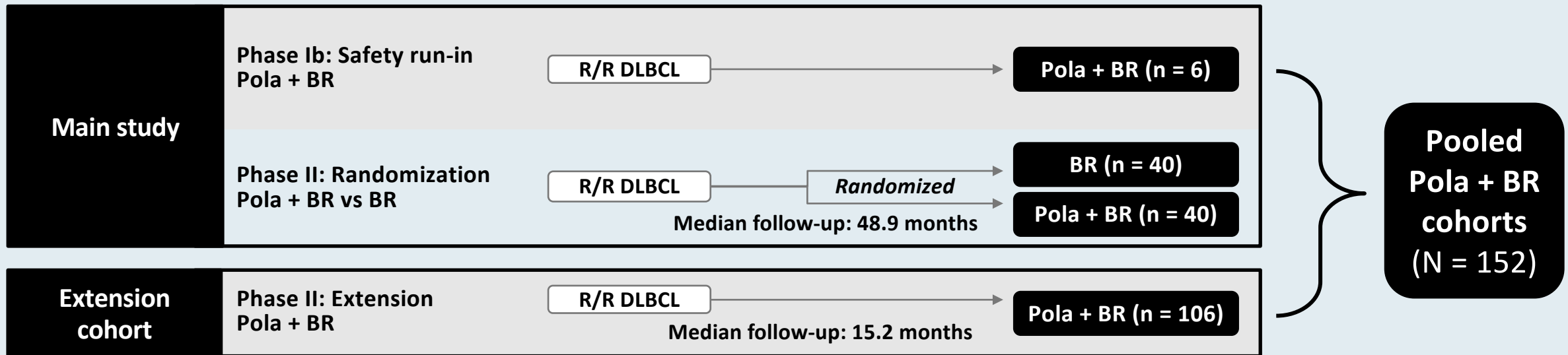
Laurie H. Sehn,¹ Mark Hertzberg,² Stephen Opat,³ Alex F. Herrera,⁴ Sarit Assouline,⁵ Christopher R. Flowers,⁶ Tae Min Kim,⁷ Andrew McMillan,⁸ Muhit Ozcan,⁹ Violaine Safar,¹⁰ Gilles Salles,¹⁰ Grace Ku,¹¹ Jamie Hirata,¹¹ Yi Meng Chang,¹² Lisa Musick,¹¹ and Matthew J. Matasar¹³

***Blood Adv* 2022;6(2):533-43.**

GO29365: Phase Ib/II Study Design

Inclusion: Transplant-ineligible DLBCL, ≥ 1 line of therapy

Exclusion: Prior allo-SCT, history of transformation, current Grade >1 peripheral neuropathy

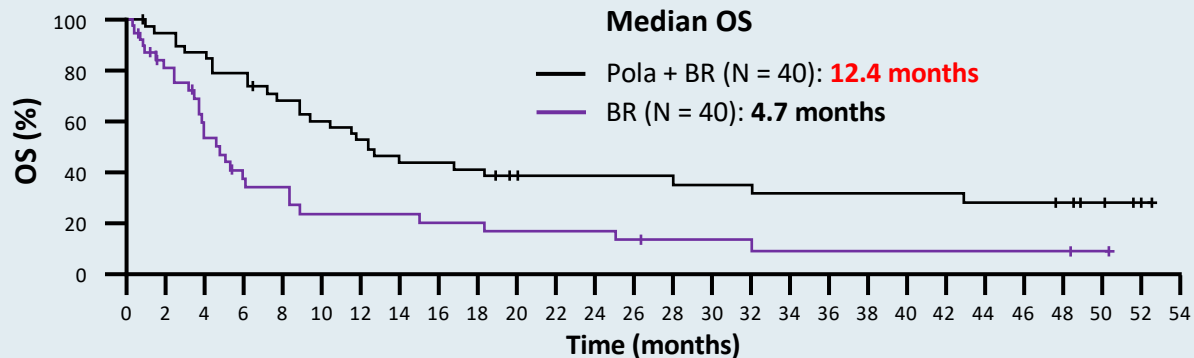
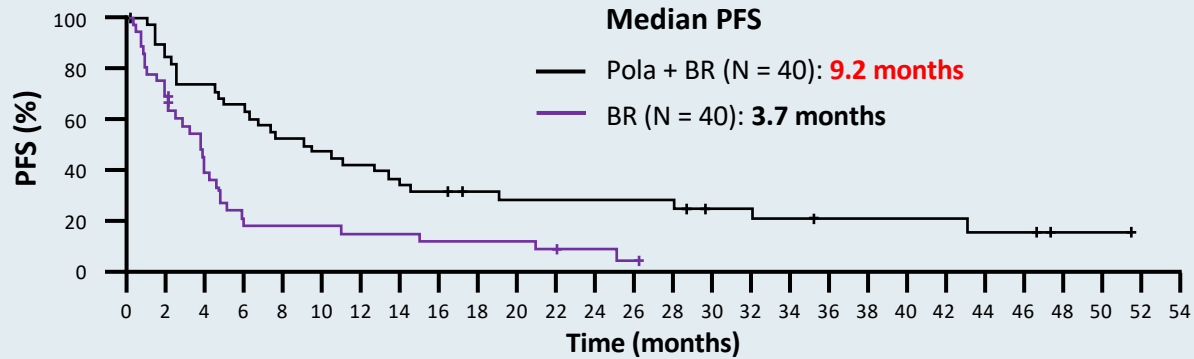


Pola = polatuzumab vedotin; BR = bendamustine/rituximab; R/R = relapsed/refractory

Pola 1.8 mg/kg on day 1 of each cycle of BR; up to 6 cycles at 3-week intervals

GO29365: PFS and OS in Randomized and Extension Cohorts

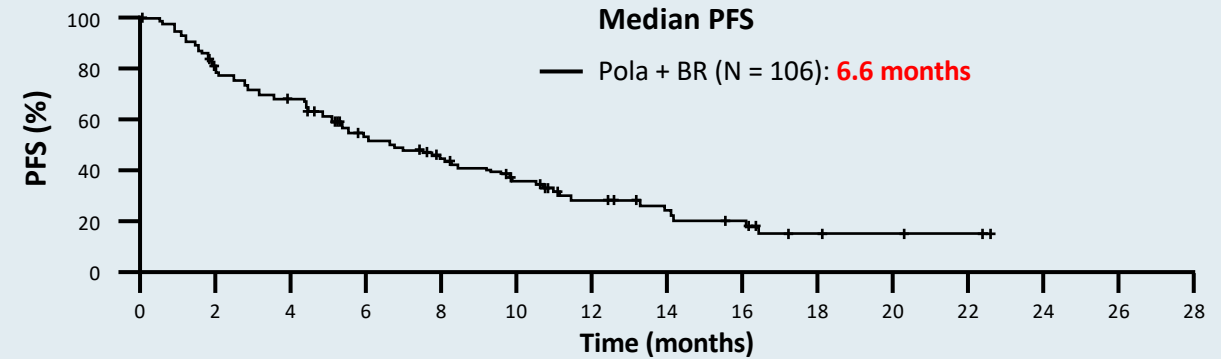
Randomized



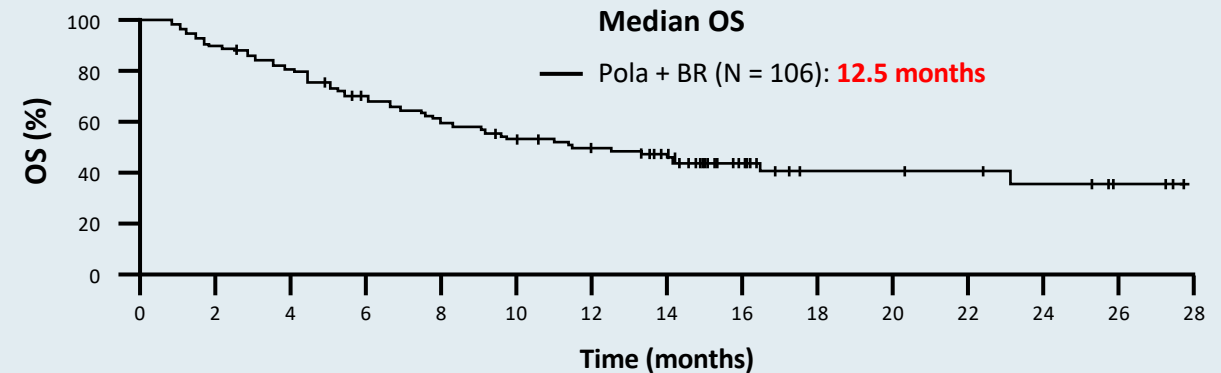
Randomized cohort:

- Survival benefit persists with longer follow-up
- 2-y PFS 28.4%, 2-y OS 38.2%

Extension cohort



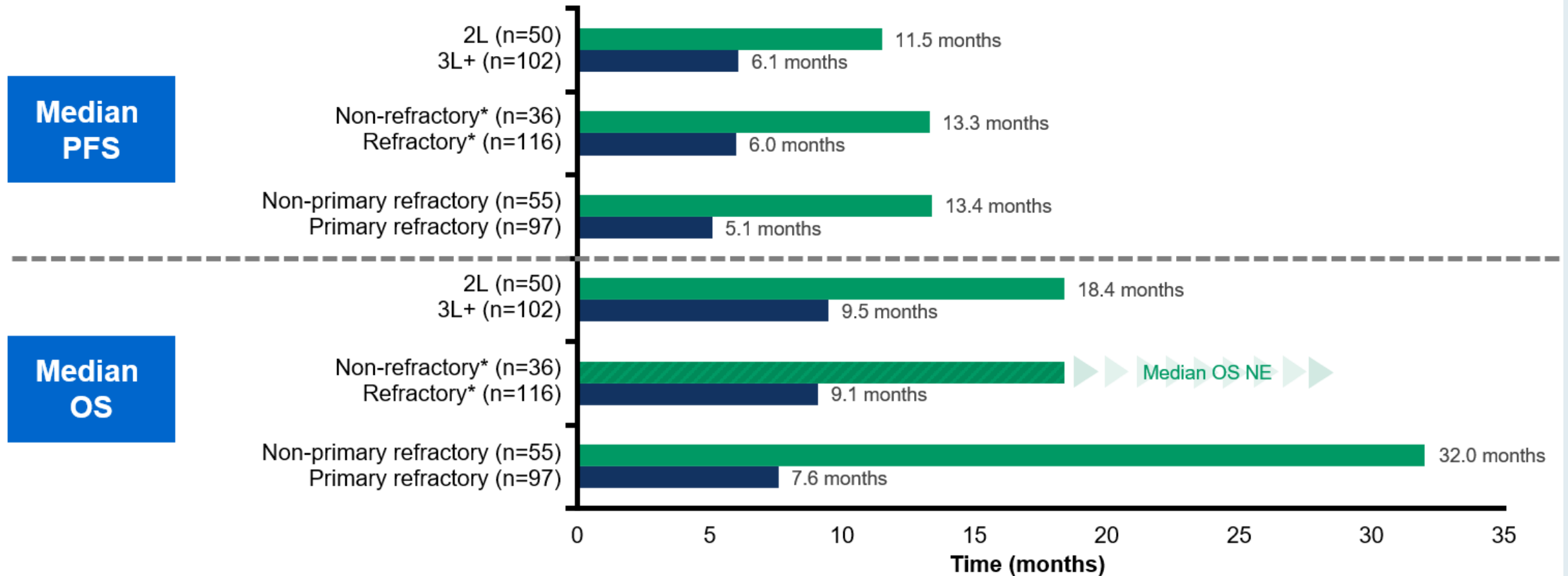
Pola+BR



Pooled cohort

- Nonprimary refractory:
Median PFS 13.4 mo, median OS 32 mo

GO29365: Median PFS and OS in the Pooled Pola + BR Cohort According to Line of Therapy and Refractory Status



Emerging Bispecifics Antibodies Under Investigation for DLBCL

Agent	Patients	ORR (%)	CR Rate (%)	PFS (months)	Mode of Administration	Gr3-4 CRS %
Glofitamab ^{3,80}	aNHL (N = 127)	48	33	2.9	IV	4
	DLBCL (N = 107)	50	35	NR		
Mosunetuzumab ⁴	aNHL (n = 129)	35	19	1.4	IV and SC	1
	DLBCL (n = 82)	33	20	NR		
Odronextamab ⁵	DLBCL no prior CAR T (n = 49)	39	24	11.5	IV	7
	DLBCL prior CAR T (n = 33)	33	24	2.0		
Epcoritamab ^{6,79}	DLBCL (N = 157)	63	39	NA	SC	2
Blinatumomab ^{7,8}	DLBCL (n = 21)	43	19	NR	IV	4
	aNHL (n = 41)	37	22	NR	IV	2

ORR = objective response rate; CR = complete response; PFS = progression-free survival; Gr = grade; CRS = cytokine release syndrome; aNHL = aggressive non-Hodgkin lymphoma; DLBCL = diffuse large B-cell lymphoma; NR = not reached; IV = intravenous; SC = subcutaneous; CAR = chimeric antigen receptor; NA = not available

ZUMA-12 Study Demonstrates 78% Complete Response Rate as Part of First-Line Treatment in Newly Diagnosed High-Risk Large B-Cell Lymphoma


Press Release: December 13, 2021

“Primary results [were announced] from ZUMA-12, a global, multicenter, single-arm, open-label Phase 2 study evaluating axicabtagene ciloleucel as part of first-line treatment in patients with high-risk large B-cell lymphoma (LBCL). This is the first study to evaluate CAR T-cell therapy as part of first-line therapy in high-risk LBCL. The study is based on the desire to utilize potential curative treatment as quickly as possible and the hypothesis that earlier use of CAR T-cell therapy when T cells are healthier may produce better outcomes. The data were presented in an oral session during the 63rd American Society of Hematology (ASH) Annual Meeting & Exposition (Abstract #739).

After a single infusion of axicabtagene ciloleucel, 89% of evaluable patients achieved a response (ORR) (n=37 evaluable for efficacy), including 78% of patients with a complete response (CR) at a median follow-up of 15.9 months. CR rate was consistent among key subgroups. Among evaluable patients, median time to response was one month. At time of data cut-off, 73% of evaluable patients had ongoing responses. Medians for duration of response (DOR), event-free survival (EFS), and progression-free survival (PFS) were not yet reached, with 12-month estimates of 81%, 73%, and 75%, respectively, and an estimated 12-month OS rate of 91%.”

OPEN

Axicabtagene ciloleucel as first-line therapy in high-risk large B-cell lymphoma: the phase 2 ZUMA-12 trial

Sattva S. Neelapu ¹✉, Michael Dickinson ², Javier Munoz³, Matthew L. Ulrickson³, Catherine Thieblemont ^{4,5}, Olalekan O. Oluwole⁶, Alex F. Herrera⁷, Chaitra S. Ujjani⁸, Yi Lin⁹, Peter A. Riedell¹⁰, Natasha Kekre¹¹, Sven de Vos¹², Christine Lui¹³, Francesca Milletti¹³, Jinghui Dong¹³, Hairong Xu¹³ and Julio C. Chavez¹⁴

Nat Med 2022 April;28(4):735-42.

Multicenter Phase II ZUMA-12 Schema: First-Line Therapy

Eligibility criteria

- Age ≥ 18 years
- High-risk LBCL
 - HGBCL, with MYC and Bcl-2 and/or Bcl-6 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

Conditioning chemotherapy + axi-cel infusion

- Conditioning
 - Flu 30 mg/m² IV and Cy 500 mg/m² IV on days -5, -4, and -3
- Axi-cel
 - Single IV infusion of 2×10^6 CAR T cells/kg on day 0

Primary endpoint

- CR (complete response)

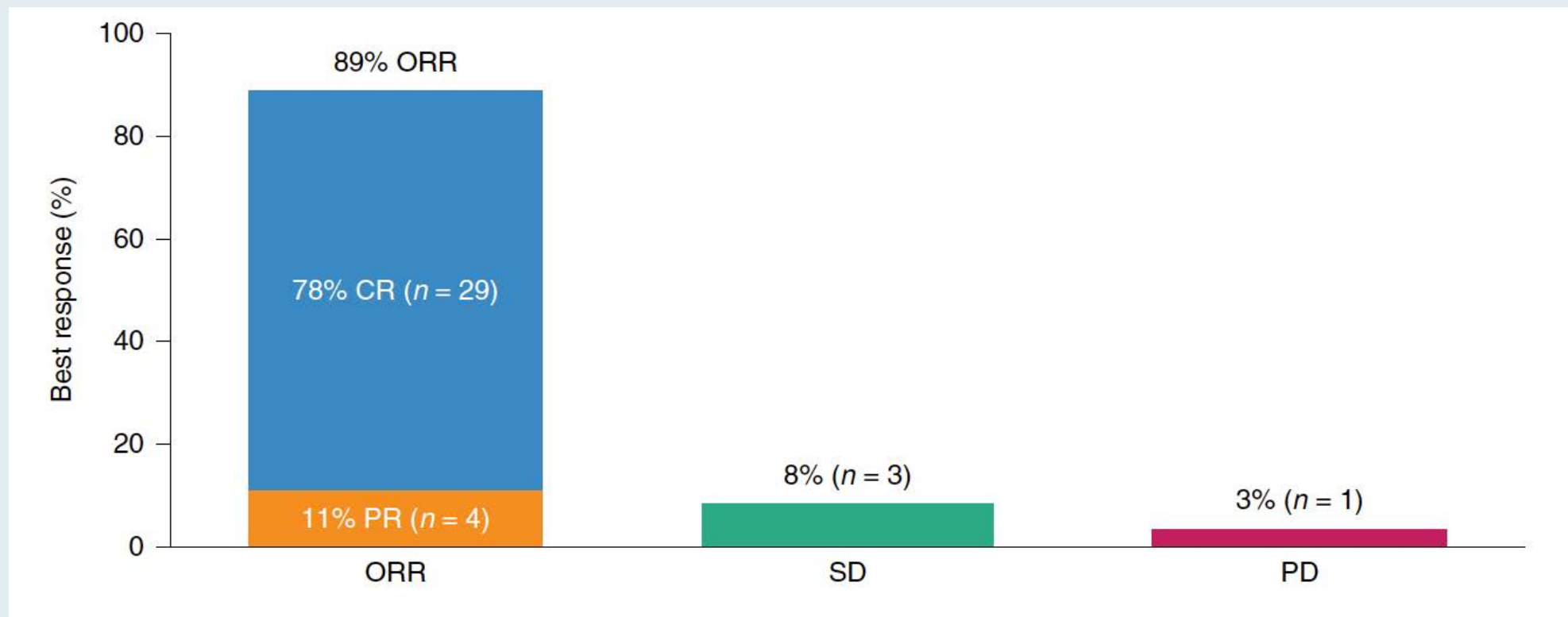
Key secondary endpoints

- ORR (objective response rate)
- DOR (duration of response)
- EFS (event-free survival)
- PFS
- Overall survival
- Safety
- CAR T cells in blood and cytokine levels in serum

LBCL = large B-cell lymphoma; HGBCL = high-grade B-cell lymphoma; axi-cel = axicabtagene ciloleucel; flu = fludarabine; cy = cyclophosphamide

ZUMA-12: Efficacy Results with Axi-cel as First-Line Treatment

ORR and CR in efficacy-evaluable patients (N = 37)



- At median follow-up of 15.9 months, 73% of patients remained in objective response
- Median DOR, EFS and PFS were not reached

ORIGINAL ARTICLE

Axicabtagene Ciloleucel as Second-Line Therapy for Large B-Cell Lymphoma

F.L. Locke, D.B. Miklos, C.A. Jacobson, M.-A. Perales, M.-J. Kersten, O.O. Oluwole, A. Ghobadi, A.P. Rapoport, J. McGuirk, J.M. Pagel, J. Muñoz, U. Farooq, T. van Meerten, P.M. Reagan, A. Sureda, I.W. Flinn, P. Vandenberghe, K.W. Song, M. Dickinson, M.C. Minnema, P.A. Riedell, L.A. Leslie, S. Chaganti, Y. Yang, S. Filosto, J. Shah, M. Schupp, C. To, P. Cheng, L.I. Gordon, and J.R. Westin, for All ZUMA-7 Investigators and Contributing Kite Members*



Lisocabtagene maraleucel versus standard of care with salvage chemotherapy followed by autologous stem cell transplantation as second-line treatment in patients with relapsed or refractory large B-cell lymphoma (TRANSFORM): results from an interim analysis of an open-label, randomised, phase 3 trial

Manali Kamdar, Scott R Solomon, Jon Arnason, Patrick B Johnston, Bertram Glass, Veronika Bachanova, Sami Ibrahim, Stephan Mielke, Pim Mutsaers, Francisco Hernandez-Ilizaliturri, Koji Izutsu, Franck Morschhauser, Matthew Lunning, David G Maloney, Alessandro Crotta, Sandrine Montheard, Alessandro Previtali, Lara Stepan, Ken Ogasawara, Timothy Mack*, Jeremy S Abramson, for the TRANSFORM Investigators†

ORIGINAL ARTICLE

Second-Line Tisagenlecleucel or Standard Care in Aggressive B-Cell Lymphoma

M.R. Bishop, M. Dickinson, D. Purtil, P. Barba, A. Santoro, N. Hamad, K. Kato, A. Sureda, R. Greil, C. Thieblemont, F. Morschhauser, M. Janz, I. Flinn, W. Rabitsch, Y.-L. Kwong, M.J. Kersten, M.C. Minnema, H. Holte, E.H.L. Chan, J. Martinez-Lopez, A.M.S. Müller, R.T. Maziarz, J.P. McGuirk, E. Bachy, S. Le Gouill, M. Dreyling, H. Harigae, D. Bond, C. Andreadis, P. McSweeney, M. Kharfan-Dabaja, S. Newsome, E. Degtyarev, R. Awasthi, C. del Corral, G. Andreola, A. Masood, S.J. Schuster, U. Jäger, P. Borchmann, and J.R. Westin

Recent FDA Approvals of CAR (Chimeric Antigen Receptor) T-Cell Therapy as Second-Line Treatment for Large B-Cell Lymphoma

6-24-22: “The FDA approved lisocabtagene maraleucel for adult patients with large B-cell lymphoma (LBCL) who have refractory disease to first-line chemoimmunotherapy or relapse within 12 months of first-line chemoimmunotherapy; or refractory disease to first-line chemoimmunotherapy or relapse after first-line chemoimmunotherapy and are not eligible for hematopoietic stem cell transplantation (HSCT) due to comorbidities or age. It is not indicated for the treatment of patients with primary central nervous system lymphoma.” Based on the TRANSFORM study

4-01-22: “The FDA approved axicabtagene ciloleucel for adult patients with large B-cell lymphoma (LBCL) that is refractory to first-line chemoimmunotherapy or relapses within 12 months of first-line chemoimmunotherapy. It is not indicated for the treatment of patients with primary central nervous system lymphoma.” Based on the ZUMA-7 study

www.fda.gov/drugs/resources-information-approved-drugs/fda-approves-lisocabtagene-maraleucel-second-line-treatment-large-b-cell-lymphoma

www.fda.gov/drugs/resources-information-approved-drugs/fda-approves-axicabtagene-ciloleucel-second-line-treatment-large-b-cell-lymphoma

**What I Tell My Patients:
Faculty Physicians and Nurses Discuss Patient Education
About New Treatments and Clinical Trials**

Fifteenth Annual RTP Symposium Series Held During the Annual ONS Congress

Diffuse Large B-Cell Lymphoma

Thursday, April 27, 2023

6:00 AM – 7:30 AM

Faculty

Christopher R Flowers, MD, MS

Amy Goodrich, CRNP

Robin Klebig, APRN, CNP, AOCNP

Matthew Lunning, DO

Moderator

Neil Love, MD

**What I Tell My Patients:
Faculty Physicians and Nurses Discuss Patient Education
About New Treatments and Clinical Trials**

Fifteenth Annual RTP Symposium Series Held During the Annual ONS Congress

Chronic Lymphocytic Leukemia

Thursday, April 27, 2023

12:15 PM – 1:45 PM

Faculty

John N Allan, MD

Jacqueline Broadway-Duren, PhD, DNP, APRN, FNP-BC

Corinne Hoffman, MS, APRN-CNP, AOCNP

Adam S Kittai, MD

Moderator

Neil Love, MD

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Virtual attendees: The NCPD credit link is posted in the chat room.

NCPD/ONCC credit information will be emailed to each participant within 1 to 2 business days.