

Meet The Professor

Optimizing the Clinical Management of Hodgkin and Non-Hodgkin Lymphomas

Loretta J Nastoupil, MD

Associate Professor

Section Chief, Indolent Lymphoma

Section Chief, New Drug Development

Department of Lymphoma/Myeloma

The University of Texas MD Anderson Cancer Center

Houston, Texas

Commercial Support

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Dr Love — Disclosures

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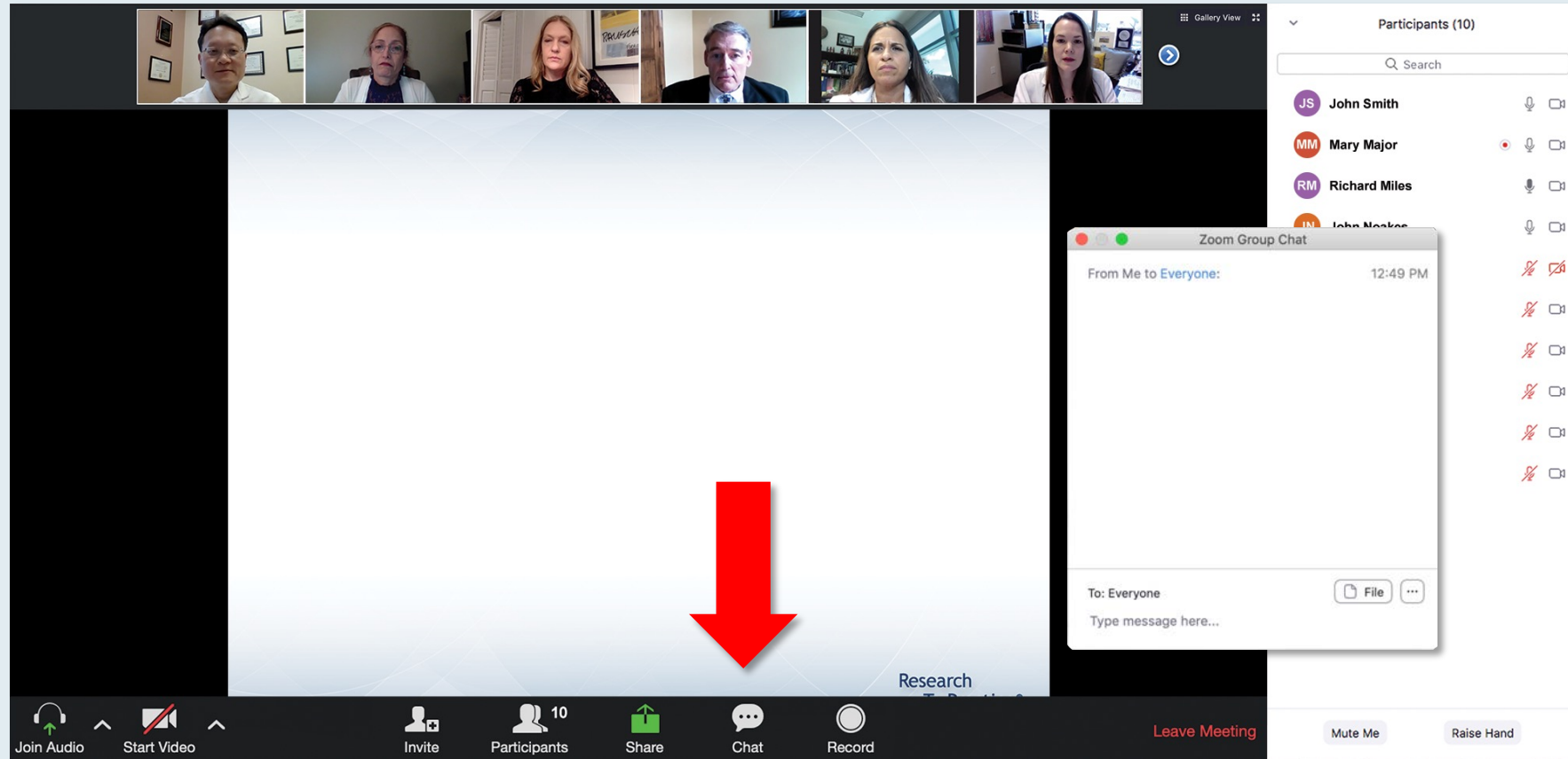
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We Encourage Clinicians in Practice to Submit Questions



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

Familiarizing Yourself with the Zoom Interface

Expand chat submission box

The screenshot shows a Zoom meeting interface. At the top, there are video thumbnails for participants: RTP Coordinat..., Kirsten Miller, RTP Mike Rivera, and Lisa Suarez. Below the thumbnails is a slide titled "Meet The Professor Program Steering Committee" with six members listed:

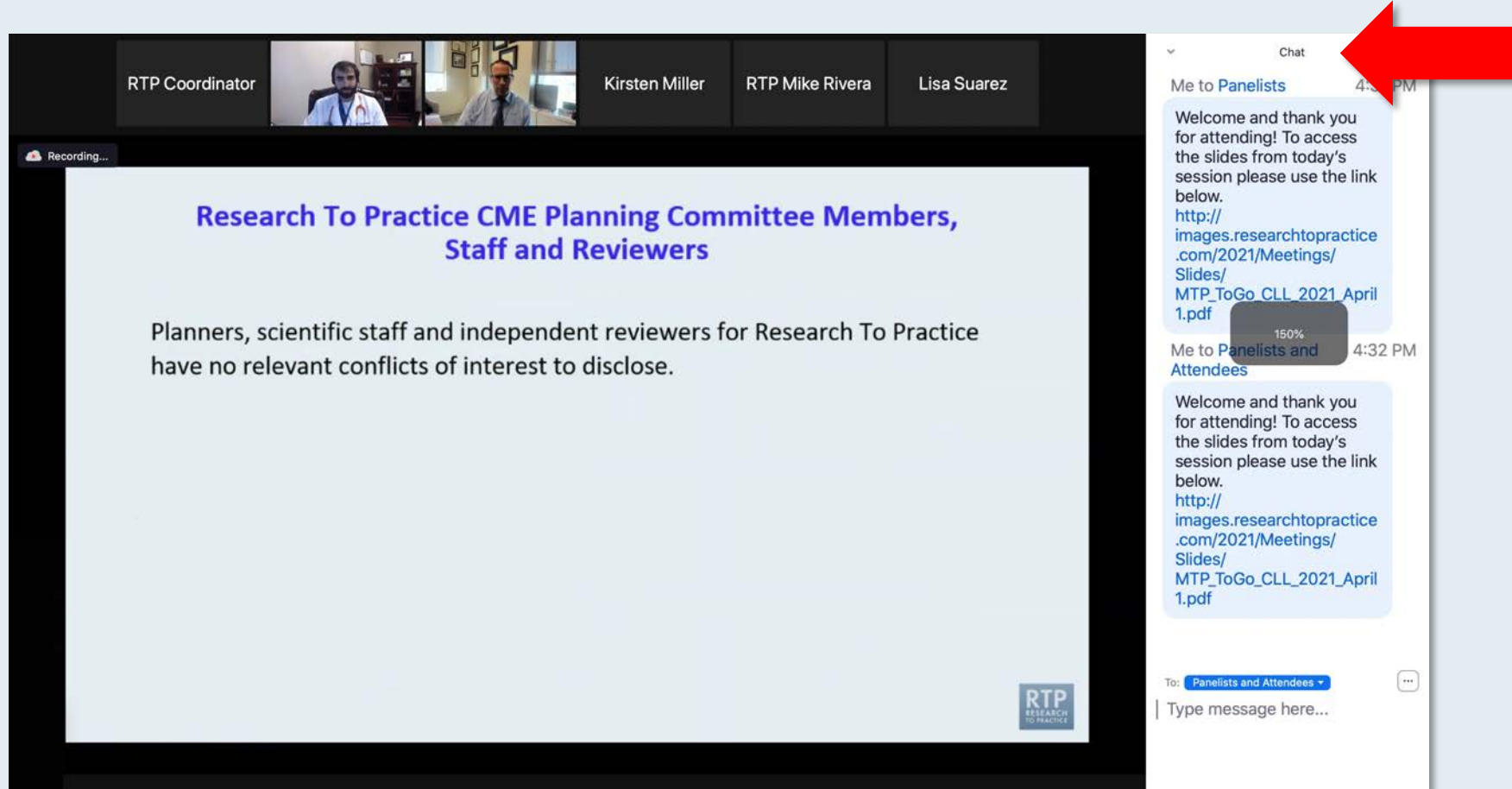
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Assistant Professor of Medicine
Weill Cornell Medicine
New York, New York
- Ian W Flinn, MD, PhD**
Director of Lymphoma Research Program
Sarah Cannon Research Institute
Tennessee Oncology
Nashville, Tennessee
- Steven Coutre, MD**
Professor of Medicine (Hematology)
Stanford University School of Medicine
Stanford, California
- Prof John G Gribben, MD, DSc, FMedSci**
Chair of Medical Oncology
Barts Cancer Institute
Queen Mary University of London
Charterhouse Square
London, United Kingdom
- Matthew S Davids, MD, MMSc**
Associate Professor of Medicine
Harvard Medical School
Director of Clinical Research
Division of Lymphoma
Dana-Farber Cancer Institute
Boston, Massachusetts
- Brian T Hill, MD, PhD**
Director, Lymphoid Malignancy Program
Cleveland Clinic Taussig Cancer Institute
Cleveland, Ohio

The chat window on the right is expanded. It shows two messages from "Me to Panelists" and "Me to Panelists and Attendees" at 4:31 PM and 4:32 PM respectively. The messages contain a welcome message and a link to a PDF slide: http://images.researchtopractice.com/2021/Meetings/Slides/2021/Meetings/Slides/MTP_ToGo_CLL_2021_April1.pdf. The chat submission box at the bottom is expanded, showing a red arrow pointing to the white line above the "Type message here..." input field.

Drag the white line above the submission box up to create more space for your message.

Familiarizing Yourself with the Zoom Interface

Increase chat font size



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**Press Command (for Mac) or Control (for PC) and the + symbol.
You may do this as many times as you need for readability.**

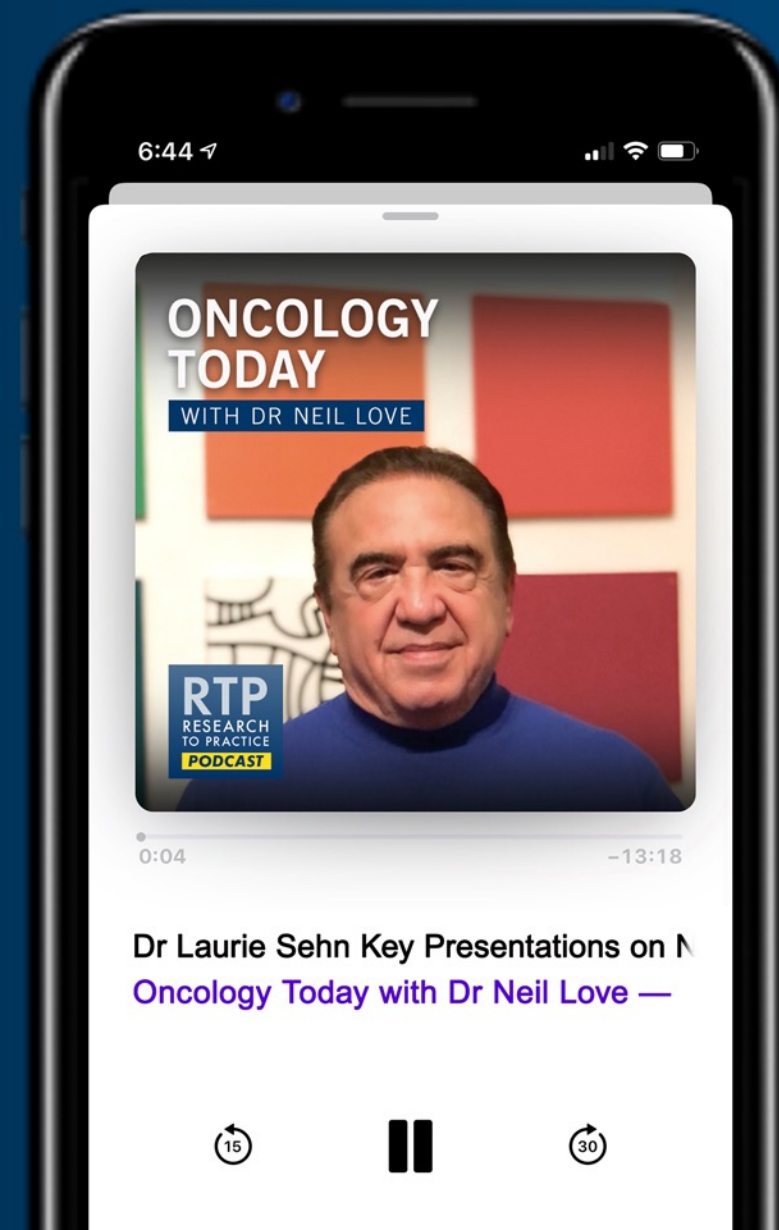
ONCOLOGY TODAY

WITH DR NEIL LOVE

Key Presentations on Non-Hodgkin and Hodgkin Lymphomas from the 2020 ASH Annual Meeting



DR LAURIE SEHN
BC CANCER CENTRE FOR LYMPHOID CANCER



Meet The Professor

Optimizing the Selection and Sequencing of Therapy for Patients with Advanced Gastrointestinal Cancers

Friday, September 17, 2021
12:00 PM – 1:00 PM ET

Faculty

Philip A Philip, MD, PhD, FRCP

Moderator

Neil Love, MD

Meet The Professor

Optimizing the Selection and Sequencing of Therapy for Patients with Urothelial Bladder Carcinoma

**Tuesday, September 21, 2021
5:00 PM – 6:00 PM ET**

Faculty

Jonathan E Rosenberg, MD

Moderator

Neil Love, MD

Meet The Professor

Optimizing the Selection and Sequencing of Therapy for Patients with HER2-Positive Breast Cancer

Wednesday, September 22, 2021
5:00 PM – 6:00 PM ET

Faculty

Sara M Tolaney, MD, MPH

Moderator

Neil Love, MD

Meet The Professor

Optimizing the Selection and Sequencing of Therapy for Patients with Advanced Gastrointestinal Cancers

**Monday, September 27, 2021
5:00 PM – 6:00 PM ET**

Faculty

Zev Wainberg, MD, MSc

Moderator

Neil Love, MD

Meet The Professor

Optimizing the Selection and Sequencing of Therapy for Patients with Triple-Negative Breast Cancer

Tuesday, September 28, 2021
5:00 PM – 6:00 PM ET

Faculty

Professor Peter Schmid, MD, PhD

Moderator

Neil Love, MD

Meet The Professor
**Optimizing the Clinical Management of
Hodgkin and Non-Hodgkin Lymphomas**

**Wednesday, September 29, 2021
5:00 PM – 6:00 PM ET**

Faculty

Brad S Kahl, 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.

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Department of Lymphoma/Myeloma

The University of Texas MD Anderson Cancer Center

Houston, Texas

Meet The Professor Program Participating Faculty



Nancy Bartlett, MD
Koman Chair in Medical Oncology
Washington University School of Medicine
St Louis, Missouri



Jonathan W Friedberg, MD, MMSc
Samuel E Durand Professor of Medicine
Director, James P Wilmot Cancer Institute
University of Rochester
Rochester, New York



Carla Casulo, MD
Associate Professor of Medicine
Division of Hematology/Oncology
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Professor of Medicine
Washington University School of Medicine
Director, Lymphoma Program
Siteman Cancer Center
St Louis, Missouri



Michael E Williams, MD, ScM

Byrd S Leavell Professor of Medicine
Chief, Hematology/Oncology Division
Physician Lead, Cancer Service Line
University of Virginia School of Medicine
Charlottesville, Virginia



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Section Chief, Indolent Lymphoma
Section Chief, New Drug Development
Department of Lymphoma/Myeloma
The University of Texas MD Anderson Cancer Center
Houston, Texas



Moderator

Neil Love, MD

Research To Practice
Miami, Florida

We Encourage Clinicians in Practice to Submit Questions

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

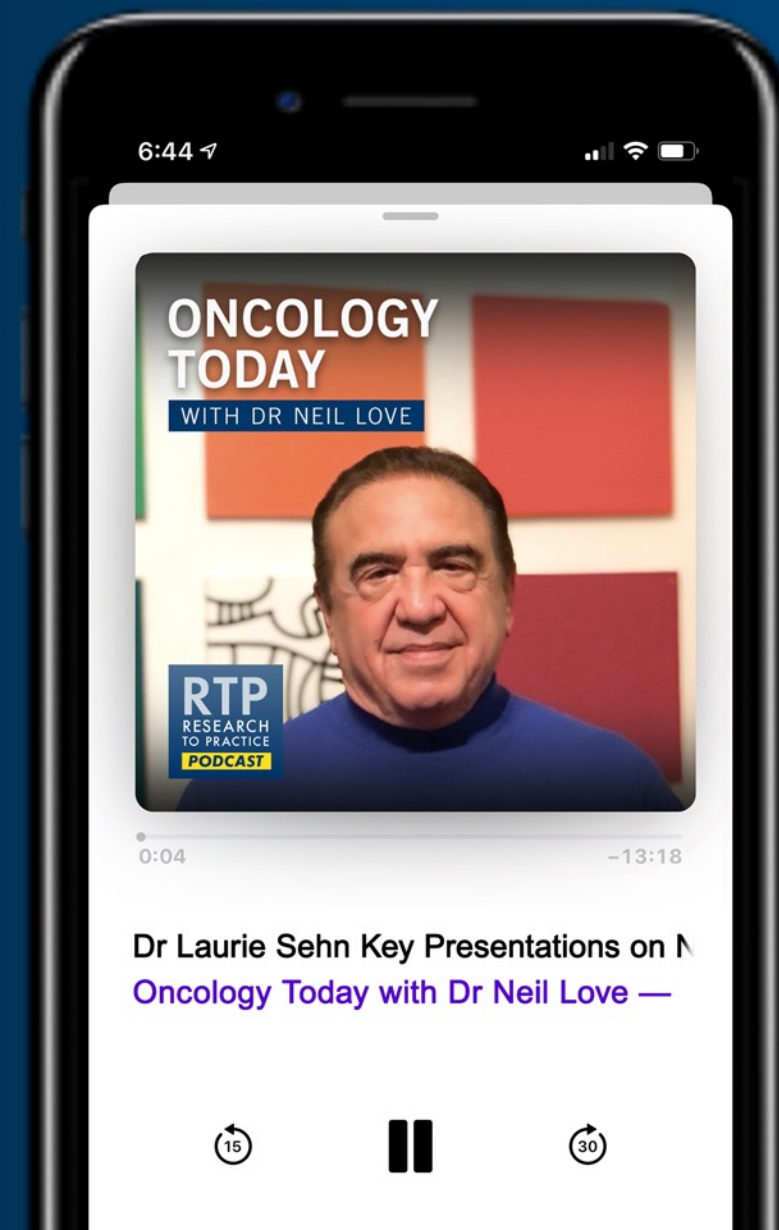
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The University of Texas MD Anderson Cancer Center

Houston, Texas



Mitchell R Smith, MD, PhD
Clinical Professor of Medicine
George Washington University
Washington, DC

Meet The Professor with Dr Nastoupil

Introduction: Is the management of diffuse large B-cell lymphoma (DLBCL) about to change dramatically?

MODULE 1: Case Presentations from Dr Smith

- A 69-year-old man with recurrent DLBCL and progression after ASCT
- A 33-year-old man with classic nodular sclerosing Hodgkin lymphoma
- A 72-year-old man with FL who experiences relapse 1 year after completing lenalidomide/rituximab
- A 58-year-old man with relapsed MCL after CAR T-cell therapy

MODULE 2: Journal Club with Dr Nastoupil

MODULE 3: Beyond the Guidelines

MODULE 4: Key Data Sets

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Agree or disagree? In 2022 the standard first-line treatment for DLBCL will be R-CHP/polatuzumab vedotin, with second-line therapy for fit patients being CAR T-cell therapy.

1. Agree with both
2. Agree with R-CHP/polatuzumab vedotin as first line
3. Agree with CAR T-cell therapy as second line
4. Disagree

Phase III Study Shows Polatuzumab Vedotin with R-CHP Is the First Regimen in 20 Years to Significantly Improve Outcomes in Previously Untreated Aggressive Form of Lymphoma

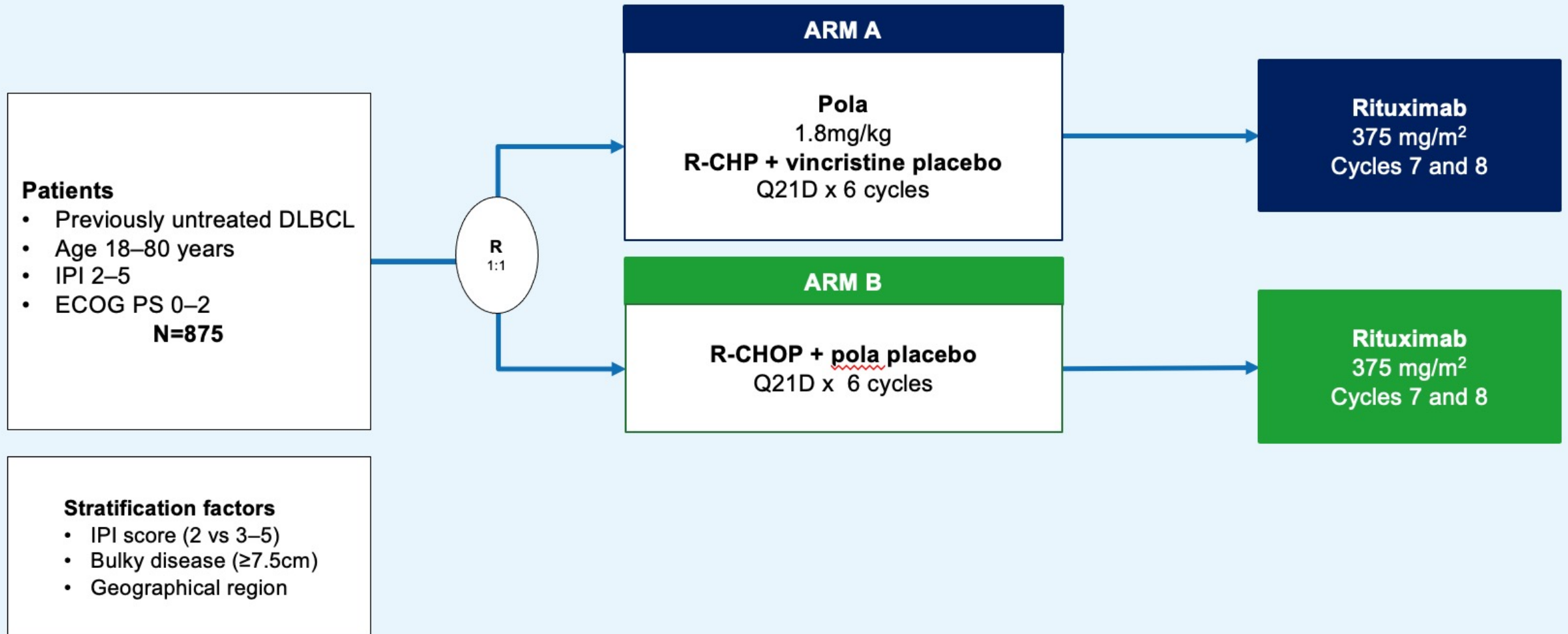
Press Release – August 9, 2021

“Pivotal Phase III POLARIX trial comparing polatuzumab vedotin in combination with chemotherapy regimen R-CHP versus the standard of care R-CHOP in treatment of first-line diffuse large B-cell lymphoma (DLBCL) met its primary endpoint of investigator assessed progression-free survival.

Prolonging survival without disease advancement could be transformative for newly diagnosed DLBCL patients, as currently 40% of patients relapse after disease progression.

Data will be submitted to health authorities globally as soon as possible and presented at an upcoming medical meeting.”

POLARIX Phase III Trial Design



POLARIX

**Trial has met its primary endpoint:
improvement of PFS**

What to look for:

- **Magnitude of the effect**
- **Safety of the 2 arms +++**
- **Response rates and DoR in the 2 arms**
- **Overall survival ?**

Phase III ZUMA-7 Trial of Axi-cel Meets Primary Endpoint

Press Release – June 30, 2021

“The ZUMA-7 trial (NCT03391466) demonstrated superiority of axicabtagene ciloleucel (axi-cel) compared with standard of care (SOC) autologous stem cell transplant (ASCT) after meeting the primary end point of event-free survival (EFS) improvement for patients with relapsed or refractory large B-cell lymphoma (LBCL), according to a press release from the company responsible for manufacturing the chimeric antigen receptor (CAR) T-cell therapy. A statistically significant EFS benefit (HR, 0.398; $P < 0.0001$) was observed as well as improvement in the secondary end point of objective response rate (ORR).

The top-line results of the randomized ZUMA-7 trial paint the picture of a potential paradigm shift in the treatment of large B-cell lymphoma, Frederick L Locke, MD, ZUMA-7 lead principal investigator and co-leader of the Immuno-Oncology Program at Moffitt Cancer Center in Tampa, Florida, said in the press release. Investigators mentioned that these data are still immature and further analyses are planned for the future. The trial was conducted under a Special Protocol Agreement from the FDA where the trial design, end points, and statistical analysis were agreed in advance.”

Phase III TRANSFORM Trial of Liso-cel Meets Primary Endpoint

Press Release – June 10, 2021

“Data from the Phase 3 TRANSFORM trial (NCT03575351) of the chimeric antigen receptor (CAR) T-cell therapy lisocabtagene maraleucel (liso-cel) as second-line therapy for patients with relapsed/refractory large B-cell lymphoma (LBCL) resulted in a statistically significant improvement in the primary end point of event-free survival versus therapy with the standard-of-care comparator arm, according to the company responsible for developing the agent.

Additionally, the toxicity profile observed with liso-cel was consistent with the safety data reported in the TRANSCEND NHL 001 trial (NCT02631044) which led to the FDA approving the CD19-directed therapy for patients with certain types of non-Hodgkin lymphoma, including diffuse large B-cell lymphoma (DLBCL), following 2 or more prior therapies. These data represent the first time a treatment for relapsed/refractory LBCL has demonstrated benefit over high-dose chemotherapy and hematopoietic stem cell transplant (HSCT).

Results regarding the primary end point will be evaluated and shared at an upcoming medical conference as well as with regulatory authorities.”

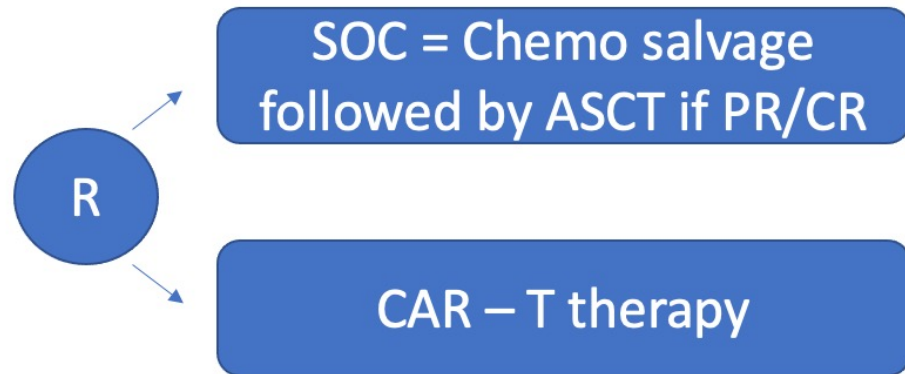
BELINDA Study Investigating Tisagenlecleucel as Second-Line Treatment in Aggressive B-Cell Non-Hodgkin Lymphoma Fails to Meet Primary Endpoint

Press Release – August 24, 2021

“The Phase III BELINDA study investigating tisagenlecleucel in aggressive B-cell non-Hodgkin lymphoma (NHL) after relapse or lack of response to first-line treatment did not meet its primary endpoint of event-free survival compared to treatment with the standard-of-care (SOC). SOC was salvage chemotherapy followed in responding patients by high-dose chemotherapy and stem cell transplant. The safety profile was consistent with the established safety profile of tisagenlecleucel.”

CD19 CAR T versus ASCT for Patients with DLBCL at First Treatment Failure After R-CHOP (or Equivalent)

<u>Axi-cel</u>	ZUMA-7	+
<u>Liso-cel</u>	TRANSFORM	+
<u>Tisa-cel</u>	BELINDA	?



NCT03391466; NCT03575351; NCT03570892

Differences might exist:

- Inclusion criteria (histological subtypes, primary refractoriness definition...)
- **Bridging allowed before CAR T**
- Nb of chemo cycles in SOC arm
- **Product and time of manufacturing**
- **LD therapy**
- Timing of response/events assessment
- Precise definition of events (EFS)
- Cross over planned / optional & CAR T immediate availability in the SOC arm

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Case Presentation – A 69-year-old man with recurrent DLBCL and progression after ASCT

- Presents with inguinal mass, diffuse LAN
- Biopsy: Stage IIIA DLBCL, non-GC subtype, double expressor for MYC/Bcl-2, IPI 2
- R-CHOP x 6 with EOT PET-negative
- 6 months later: Neck node biopsy-confirmed relapsed DLBCL, marrow negative
- R-ICE x 3 with PET CR → ASCT
- 1 year later: Relapsed with diffuse LAN but marrow still negative

Questions

- How do you select among the 4 treatments that have been approved in the past 2 years? If the patient can't get CAR T-cell therapy, or receives it and relapses, then how would you treat him?
- What's the experience in the real world of patients not getting adequate CAR T-cell development? Can you predict who will do poorly in terms of tolerability?



Dr Mitchell Smith

Case Presentation – A 69-year-old man with recurrent DLBCL and progression after ASCT (continued)



Dr Mitchell Smith

- Presents with inguinal mass, diffuse LAN
- Biopsy: Stage IIIA DLBCL, non-GC subtype, double expressor for MYC/Bcl-2, IPI 2
- R-CHOP x 6 with EOT PET-negative
- 6 months later: Neck node biopsy-confirmed relapsed DLBCL, marrow negative
- R-ICE x 3 with PET CR → ASCT
- 1 year later: Relapsed with diffuse LAN but marrow still negative
- ***Plan to enroll patient on a clinical trial of CAR T-cell therapy***

Questions

- ***How do you select patients for CAR T-cell therapy? Do you attempt to minimize disease burden before going to CAR T?***
- ***Do you think the apparent lesser toxicity with tiso-cel is due to our better understanding of the physiology in early intervention, or is it really due to a difference in the CAR T products?***

Case Presentation – A 33-year-old man with classic nodular sclerosing Hodgkin lymphoma

- Presents with fatigue, night sweats and large mass on the neck
- Biopsy: Stage IIBx Classic nodular sclerosing Hodgkin lymphoma, IPI 2
 - Albumin: 30, cardiac and pulmonary function unremarkable



Dr Mitchell Smith

Case Presentation – A 33-year-old man with classic nodular sclerosing Hodgkin lymphoma (continued)



Dr Mitchell Smith

- Presents with fatigue, night sweats and large mass on the neck
- Biopsy: Stage IIBx Classic nodular sclerosing Hodgkin lymphoma, IPI 2
 - Albumin: 30, cardiac and pulmonary function unremarkable
- ***Patient desires to avoid the potential for peripheral neuropathy → ABVD x 2 → AVD x 2***
 - ***Bleomycin held due to pulmonary complaints***
 - ***PET2: Deauville 2 → AVD x 4 → EOT PET: Negative***

Case Presentation – A 72-year-old man with follicular lymphoma (FL) who experiences relapse 1 year after completing lenalidomide/rituximab



Dr Mitchell Smith

- Asymptomatic, with 2-3-cm neck, axillary and inguinal nodes
- Nodal biopsy: Low-grade FL (CD10+, CD20+, CD5-, IHC BCLL2+)
- Borderline anemia and renal function, matted retroperitoneal nodes, possible hydronephrosis
- BR x 6, with EOT PET-negative, with fever after 2nd or 3rd cycle

Questions

- Have you observed fever after the 2nd or 3rd cycle of bendamustine?
- How are you addressing maintenance rituximab, and has that been changed by COVID-19?

Case Presentation – A 72-year-old man with FL who experiences relapse 1 year after completing lenalidomide/rituximab (continued)



Dr Mitchell Smith

- Asymptomatic, with 2-3-cm neck, axillary and inguinal nodes
- Nodal biopsy: Low-grade FL (CD10+, CD20+, CD5-, IHC BCLL2+)
- Borderline anemia and renal function, matted retroperitoneal nodes, possible hydronephrosis
- BR x 6, with EOT PET-negative, with fever after 2nd or 3rd cycle

Question

- ***During the COVID-19 era, what are your thoughts about using more lenalidomide/rituximab as opposed to chemoimmunotherapy regimens, such as bendamustine/rituximab, which can suppress immune functioning?***

Case Presentation – A 72-year-old man with FL who experiences relapse 1 year after completing lenalidomide/rituximab (continued)



Dr Mitchell Smith

- Asymptomatic, with 2-3-cm neck, axillary and inguinal nodes
- Nodal biopsy: Low-grade FL (CD10+, CD20+, CD5-, IHC BCLL2+)
- Borderline anemia and renal function, matted retroperitoneal nodes, possible hydronephrosis
- BR x 6, with EOT PET-negative, with fever after 2nd or 3rd cycle
- ***1 year later: New axillary node, fatigue, 10-lbs weight loss***
- ***PET/CT: Diffuse increase in original nodes; Biopsy-confirmed low-grade FL, no transformation***

Question

- ***How do you manage a patient with FL who experiences relapse within 1 year of receiving bendamustine/rituximab?***

Case Presentation – A 72-year-old man with FL who experiences relapse 1 year after completing lenalidomide/rituximab (continued)



Dr Mitchell Smith

- Asymptomatic, with 2-3-cm neck, axillary and inguinal nodes
- Nodal biopsy: Low-grade FL (CD10+, CD20+, CD5-, IHC BCLL2+)
- Borderline anemia and renal function, matted retroperitoneal nodes, possible hydronephrosis
- BR x 6, with EOT PET-negative, with fever after 2nd or 3rd cycle
- 1 year later: New axillary node, fatigue, 10-lbs weight loss
- PET/CT: Diffuse increase in original nodes; Biopsy-confirmed low-grade FL, no transformation
- ***Lenalidomide/rituximab >1 year → PD***

Question

- ***How do you approach his next line of treatment – Transplant? CAR T-cell therapy? Tazemetostat? PI3 kinase inhibitor?***

Case Presentation – A 58-year-old man with relapsed mantle cell lymphoma (MCL) after CAR T-cell therapy



Dr Mitchell Smith

- S/p VcR-CVAD x 6 on ECOG-1405 (declined ASCT, rituximab maintenance) for MCL (intermediate-risk MIPI) in 2009
- 2013: Recurrent disease → BR x 6 → Maintenance rituximab x 2 years, with CR
- 2016: New LAN, marked splenomegaly, cytopenias → Ibrutinib, with minor response → Splenectomy
- Axi-cel on the ZUMA-2 trial, with CR (Grade 2 CRS x 2 days, no ICANS)
- Two years later: Right pre-auricular squamous cell carcinoma → Mohs surgery
- Two months later: Recurrent masses near excision site → Re-excised
 - Positive for MCL → PET/CT: Negative for other disease → RT with remission
- Three months later: New retroperitoneal and inguinal LANs, biopsy-confirmed MCL

Question

- What do you do post CAR T in a guy who's had the disease for 12 years?

Case Presentation – A 58-year-old man with relapsed MCL after CAR T-cell therapy (continued)



Dr Mitchell Smith

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 - Positive for MCL → PET/CT: Negative for other disease → RT with remission
- Three months later: New retroperitoneal and inguinal LANs, biopsy-confirmed MCL
- ***Lenalidomide/rituximab***

Question

- ***Is there a role for repeating CAR T-cell therapy 2 years later?***

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Journal Club with Dr Nastoupil

Diffuse Large B-Cell Lymphoma

- Fitzgerald L et al. **Real-world outcomes of elderly patients with relapsed/refractory (R/R) diffuse large B-cell lymphoma (DLBCL) treated with chimeric antigen receptor T-cell (CAR-T) therapy.** ASCO 2020;Abstract 8039.
- Spiegel JY et al. **Outcomes of patients with large B-cell lymphoma progressing after axicabtagene ciloleucel therapy.** *Blood* 2021;137(13):1832-5.
- Strati P et al. **Prognostic impact of corticosteroids on efficacy of chimeric antigen receptor T-cell therapy in large B-cell lymphoma.** *Blood* 2021;137(23):3272-6.
- Xie J et al. **Characteristics and treatment patterns of relapsed/refractory diffuse large B-cell lymphoma in patients receiving ≥ 3 therapy lines in post-CAR-T era.** *Curr Med Res Opin* 2021;1-10.

Mantle Cell Lymphoma

- Jain P et al. **Outcomes of relapsed mantle cell lymphoma patients after discontinuing acalabrutinib.** *Am J Hematol* 2021;96(5):E137-40.
- Jain P et al. **Outcomes and management of patients with mantle cell lymphoma after progression on brexucabtagene autoleucel therapy.** *Br J Haematol* 2021;192(2):e38-42.

Journal Club with Dr Nastoupil

Follicular Lymphoma

- Strati P et al. **Long-term follow-up of lenalidomide and rituximab as initial treatment of follicular lymphoma.** *Blood* 2021;137(8):1124-9.
- Nastoupil LJ. **When to use targeted therapy for the treatment of follicular lymphoma.** *Curr Hematol Malign Rep* 2021;16(1):45-51.
- Assouline SE et al. **Mosunetuzumab shows promising efficacy in patients with multiply relapsed follicular lymphoma: Updated clinical experience from a phase I dose-escalation trial.** ASH 2020; Abstract 702.
- Scholz CW et al. **A phase III trial (GO42909) evaluating mosunetuzumab in combination with lenalidomide (M-Len) versus rituximab-lenalidomide (R-Len) in patients with relapsed/refractory follicular lymphoma (FL).** EHA 2021;Abstract PB1565.
- Budde E et al. **Preliminary results of a Phase 1 dose escalation study of the first-in-class IgM based bispecific antibody Igm-2323 (anti-CD20 x anti-CD3) in patients with advanced B-cell malignancies.** ASH 2020;Abstract 1142.
- Munoz J et al. **Copanlisib for the treatment of malignant lymphoma: Clinical experience and future perspectives.** *Target Oncol* 2021;16(3):295-308.

Meet The Professor with Dr Nastoupil

Introduction: Is the management of diffuse large B-cell lymphoma (DLBCL) about to change dramatically?

MODULE 1: Case Presentations from Dr Smith

- A 69-year-old man with recurrent DLBCL and progression after ASCT
- A 33-year-old man with classic nodular sclerosing Hodgkin lymphoma
- A 72-year-old man with FL who experiences relapse 1 year after completing lenalidomide/rituximab
- A 58-year-old man with relapsed MCL after CAR T-cell therapy

MODULE 2: Journal Club with Dr Nastoupil

MODULE 3: Beyond the Guidelines

MODULE 4: Key Data Sets

Diffuse Large B-Cell Lymphoma

Which third- and fourth-line therapy would you generally recommend first for a 65-year-old patient with DLBCL who responds to R-CHOP and then R-DHAP followed by transplant on relapse but subsequently develops disease progression?



Dr Bartlett

**CAR T-cell therapy →
loncastuximab tesirine**



Dr Kahl

**CAR T-cell therapy →
tafasitamab/
lenalidomide**



Dr Flowers

**CAR T-cell therapy →
tafasitamab/
lenalidomide**



Dr Nastoupil

**CAR T-cell therapy →
polatuzumab
vedotin/BR**



Dr Friedberg

**CAR T-cell therapy →
polatuzumab
vedotin/BR**



Dr Williams

**CAR T-cell therapy →
tafasitamab/
lenalidomide**



Dr Hill

**CAR T-cell therapy →
tafasitamab/
lenalidomide**

Which third- and fourth-line therapy would you generally recommend first for an 80-year-old patient with DLBCL who experiences disease progression on front-line R-CHOP and is not eligible for high-dose therapy?



Dr Bartlett

**Loncastuximab tesirine
→ tafasitamab/
lenalidomide**



Dr Kahl

**Tafasitamab/
lenalidomide →
loncastuximab tesirine**



Dr Flowers

**CAR T-cell therapy →
tafasitamab/
lenalidomide**



Dr Nastoupil

**CAR T-cell therapy →
polatuzumab
vedotin/BR**



Dr Friedberg

**Tafasitamab/
lenalidomide →
loncastuximab tesirine**



Dr Williams

**Tafasitamab/
lenalidomide →
loncastuximab tesirine**



Dr Hill

**Tafasitamab/
lenalidomide →
loncastuximab tesirine**

Do you generally use either tafasitamab/lenalidomide or loncastuximab tesirine in a patient who has experienced disease progression on or after CD19-directed CAR T-cell therapy?



Dr Bartlett

Yes, either



Dr Kahl

Yes, either



Dr Flowers

Yes, either



Dr Nastoupil

Yes, either



Dr Friedberg

No



Dr Williams




Yes, either



Dr Hill

**Yes, tafasitamab/
lenalidomide**

At what point in the treatment course are you referring patients with DLBCL for consultation regarding CAR T-cell therapy?

 Dr Bartlett	At second relapse	 Dr Kahl	At second relapse
 Dr Flowers	At first relapse	 Dr Nastoupil	At first relapse
 Dr Friedberg	At first relapse	 Dr Williams	At second relapse
 Dr Hill	At first relapse		

Do you believe that CAR T-cell therapy is more efficacious than autologous stem cell transplantation for DLBCL as second-line treatment after R-CHOP?



Dr Bartlett

Yes, but I'm still not sure



Dr Kahl

Yes, but I'm still not sure



Dr Flowers

Yes (but may vary by CAR T product)



Dr Nastoupil

Yes



Dr Friedberg

Yes



Dr Williams

Yes, but I'm still not sure



Dr Hill

Yes – for chemorefractory disease

A patient should be in adequate physical condition to undergo autologous stem cell transplant in order to be a suitable candidate for CAR T-cell therapy.

 Dr Bartlett	Disagree	 Dr Kahl	Disagree
 Dr Flowers	Disagree	 Dr Nastoupil	Disagree
 Dr Friedberg	Agree	 Dr Williams	Disagree
 Dr Hill	Agree		

Do you believe that CAR T-cell therapy is more tolerable for most patients than autologous stem cell transplantation?



Dr Bartlett

Yes



Dr Kahl

Yes



Dr Flowers

Yes



Dr Nastoupil

Yes



Dr Friedberg

Yes



Dr Williams

Yes



Dr Hill

**Yes – liso-cel and tisa-cel
are likely more tolerable
No – axi-cel is not more
tolerable**

Hodgkin Lymphoma

What initial treatment would you recommend for a 26-year-old patient with classical Hodgkin lymphoma (HL) with anemia, diffuse adenopathy, hepatosplenomegaly and diffuse bone marrow involvement?



Dr Bartlett

**Brentuximab vedotin +
AVD**



Dr Flowers

**Brentuximab vedotin +
AVD**



Dr Friedberg

**Brentuximab vedotin +
AVD**



Dr Hill

ABVD



Dr Kahl

**Brentuximab vedotin +
AVD**



Dr Nastoupil

**Brentuximab vedotin +
AVD**



Dr Williams

**Brentuximab vedotin +
AVD**

A = doxorubicin; V = vinblastine; D = dacarbazine; B = bleomycin

An 85-year-old frail patient with advanced-stage symptomatic HL is not a candidate for aggressive chemotherapy but is seeking active treatment. Regulatory and reimbursement issues aside, what would you recommend?



Dr Bartlett

Brentuximab vedotin + nivolumab



Dr Kahl

Pembrolizumab



Dr Flowers

**Brentuximab vedotin/
dacarbazine**



Dr Nastoupil

Brentuximab vedotin + nivolumab



Dr Friedberg

Brentuximab vedotin + nivolumab



Dr Williams

Brentuximab vedotin



Dr Hill

Brentuximab vedotin

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



Dr Bartlett

Brentuximab vedotin + nivolumab



Dr Kahl

Brentuximab vedotin + nivolumab



Dr Flowers

Brentuximab vedotin + nivolumab



Dr Nastoupil

Brentuximab vedotin + nivolumab



Dr Friedberg

Brentuximab vedotin



Dr Williams

Brentuximab vedotin



Dr Hill

Pembrolizumab

Regulatory and reimbursement issues aside, what is your preferred next line of therapy for a patient with HL who is experiencing disease relapse after ABVD and autologous stem cell transplant?



Dr Bartlett

Pembrolizumab



Dr Flowers

Brentuximab vedotin + nivolumab



Dr Friedberg

Nivolumab



Dr Hill

Pembrolizumab



Dr Kahl

Brentuximab vedotin + nivolumab



Dr Nastoupil

Pembrolizumab



Dr Williams

Brentuximab vedotin + nivolumab

Have you administered or would you administer brentuximab vedotin in combination with an immune checkpoint inhibitor to a patient with HL outside of a clinical trial setting?



Dr Bartlett

I have



Dr Kahl

I have



Dr Flowers

I haven't but would for the right patient



Dr Nastoupil

I have



Dr Friedberg

I haven't but would for the right patient



Dr Williams

I haven't but would for the right patient










Dr Hill

I haven't but would for the right patient

Follicular Lymphoma

What treatment do you generally recommend for an otherwise healthy 65-year-old patient with symptomatic FL requiring treatment?

 Dr Bartlett	Bendamustine/ rituximab (BR)	 Dr Kahl	BR
 Dr Flowers	Lenalidomide/ rituximab	 Dr Nastoupil	BR
 Dr Friedberg	BR	 Dr Williams	BR
 Dr Hill	BR		

What treatment do you generally recommend for a patient with symptomatic FL requiring treatment who refuses to receive cytotoxic chemotherapy?



Dr Bartlett

Rituximab alone



Dr Kahl

**Lenalidomide/
rituximab**



Dr Flowers

**Lenalidomide/
rituximab**



Dr Nastoupil

**Lenalidomide/
rituximab**



Dr Friedberg

**Lenalidomide/
rituximab**



Dr Williams

**Lenalidomide/
rituximab**



Dr Hill

**Lenalidomide/
rituximab**

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 bendamustine/rituximab (BR) but then experiences disease relapse 4 years later?



Dr Bartlett

**Lenalidomide/
rituximab**



Dr Kahl

**Lenalidomide/
rituximab**



Dr Flowers

**Lenalidomide/
rituximab**



Dr Nastoupil

**Lenalidomide/
rituximab**



Dr Friedberg

**Lenalidomide/
obinutuzumab**



Dr Williams

**Lenalidomide/
rituximab**



Dr Hill

**Lenalidomide/rituximab
or rituximab alone**

What is your usual third- and fourth-line treatment for a patient with FL (EZH2 wild type) who receives first-line BR, second-line lenalidomide/rituximab and then develops disease progression?



Dr Bartlett

**Duvelisib →
tazemetostat**



Dr Flowers

**Tazemetostat →
umbralisib**



Dr Friedberg

**Umbralisib →
tazemetostat**



Dr Hill

**Tazemetostat →
umbralisib**



Dr Kahl

**Tazemetostat →
umbralisib**



Dr Nastoupil

Umbralisib → axi-cel



Dr Williams

**Umbralisib →
tazemetostat**

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



Dr Bartlett

Duvelisib →
tazemetostat



Dr Flowers

Tazemetostat →
umbralisib



Dr Friedberg

Tazemetostat →
umbralisib



Dr Hill

Tazemetostat →
umbralisib



Dr Kahl

Tazemetostat →
umbralisib



Dr Nastoupil

Tazemetostat → axi-cel



Dr Williams

Tazemetostat →
umbralisib

Are you typically assessing EZH2 mutation status for your patients with FL?



Dr Bartlett

No



Dr Kahl

No



Dr Flowers

**Yes, for select patients:
relapse after 2nd line**



Dr Nastoupil

**Yes, for select patients:
3rd line**



Dr Friedberg

Yes, for all patients



Dr Williams







**Yes, for select patients:
3rd line**



Dr Hill

**Yes, for select patients:
at relapse**

Which PI3K inhibitor do you use most commonly?

 Dr Bartlett	Duvelisib	 Dr Kahl	Umbralisib
 Dr Flowers	Umbralisib	 Dr Nastoupil	Umbralisib
 Dr Friedberg	Umbralisib	 Dr Williams	Umbralisib
 Dr Hill	Umbralisib		

How would you generally sequence PI3K inhibitors and tazemetostat for a patient with relapsed FL who is eligible to receive both?



Dr Bartlett

**PI3K inhibitor →
tazemetostat**



Dr Kahl

**Tazemetostat →
PI3K inhibitor**



Dr Flowers

**Tazemetostat →
PI3K inhibitor**



Dr Nastoupil

**Tazemetostat →
PI3K inhibitor**



Dr Friedberg

**Tazemetostat →
PI3K inhibitor**



Dr Williams








**Tazemetostat →
PI3K inhibitor**



Dr Hill

**Tazemetostat →
PI3K inhibitor**

At what point in the treatment course are you referring patients with FL for consultation regarding CAR T-cell therapy?

 Dr Bartlett	Not referring for CAR T	 Dr Kahl	At third relapse
 Dr Flowers	At second relapse	 Dr Nastoupil	At second relapse
 Dr Friedberg	At third relapse	 Dr Williams	At second relapse
 Dr Hill	At second relapse		

Mantle Cell Lymphoma

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



Dr Bartlett

**Brexucabtagene
autoleucel**



Dr Kahl

**Brexucabtagene
autoleucel**



Dr Flowers

**Brexucabtagene
autoleucel**



Dr Nastoupil

**Brexucabtagene
autoleucel**



Dr Friedberg

**Brexucabtagene
autoleucel**



Dr Williams

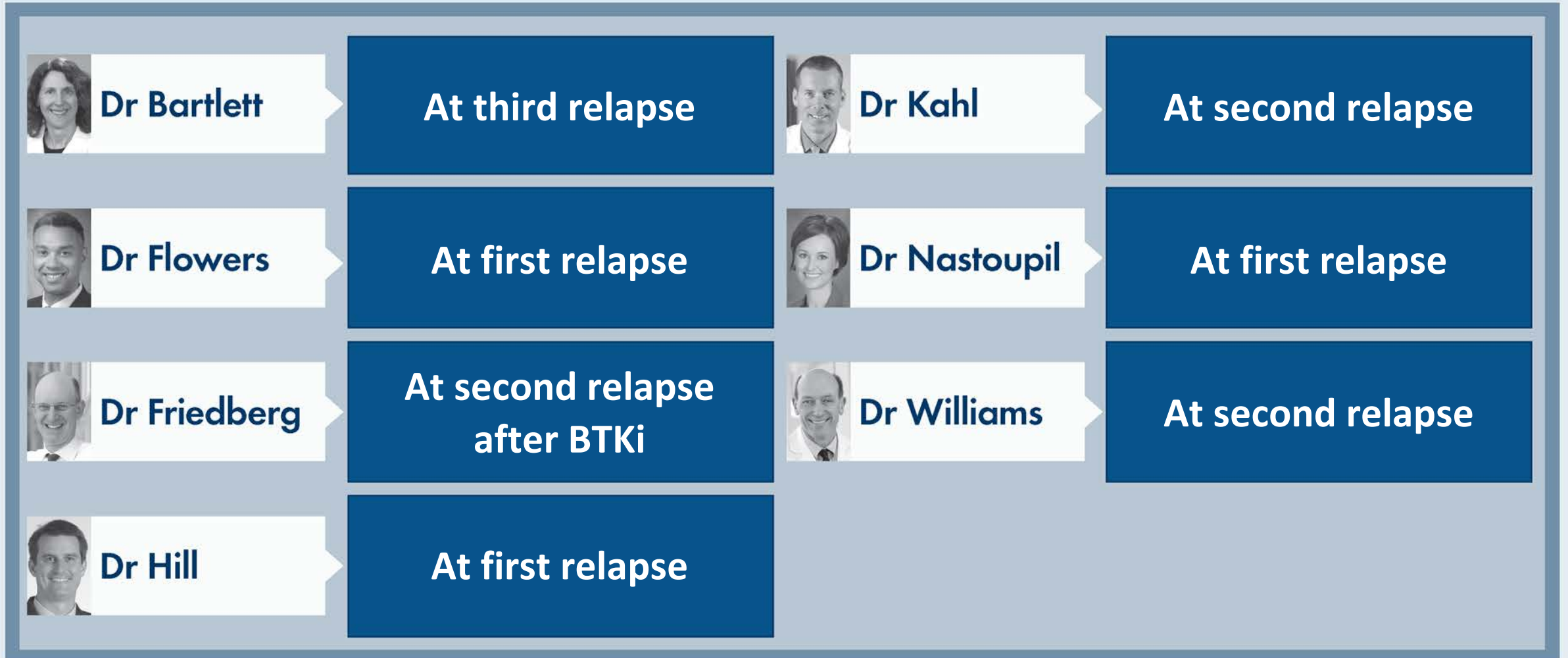
**Venetoclax +
rituximab**



Dr Hill

**Brexucabtagene
autoleucel**

At what point in the treatment course are you referring patients with mantle cell lymphoma for consultation regarding CAR T-cell therapy?



Meet The Professor with Dr Nastoupil

Introduction: Is the management of diffuse large B-cell lymphoma (DLBCL) about to change dramatically?

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Diffuse Large B-Cell Lymphoma

Polatuzumab Vedotin in Relapsed or Refractory Diffuse Large B-Cell Lymphoma

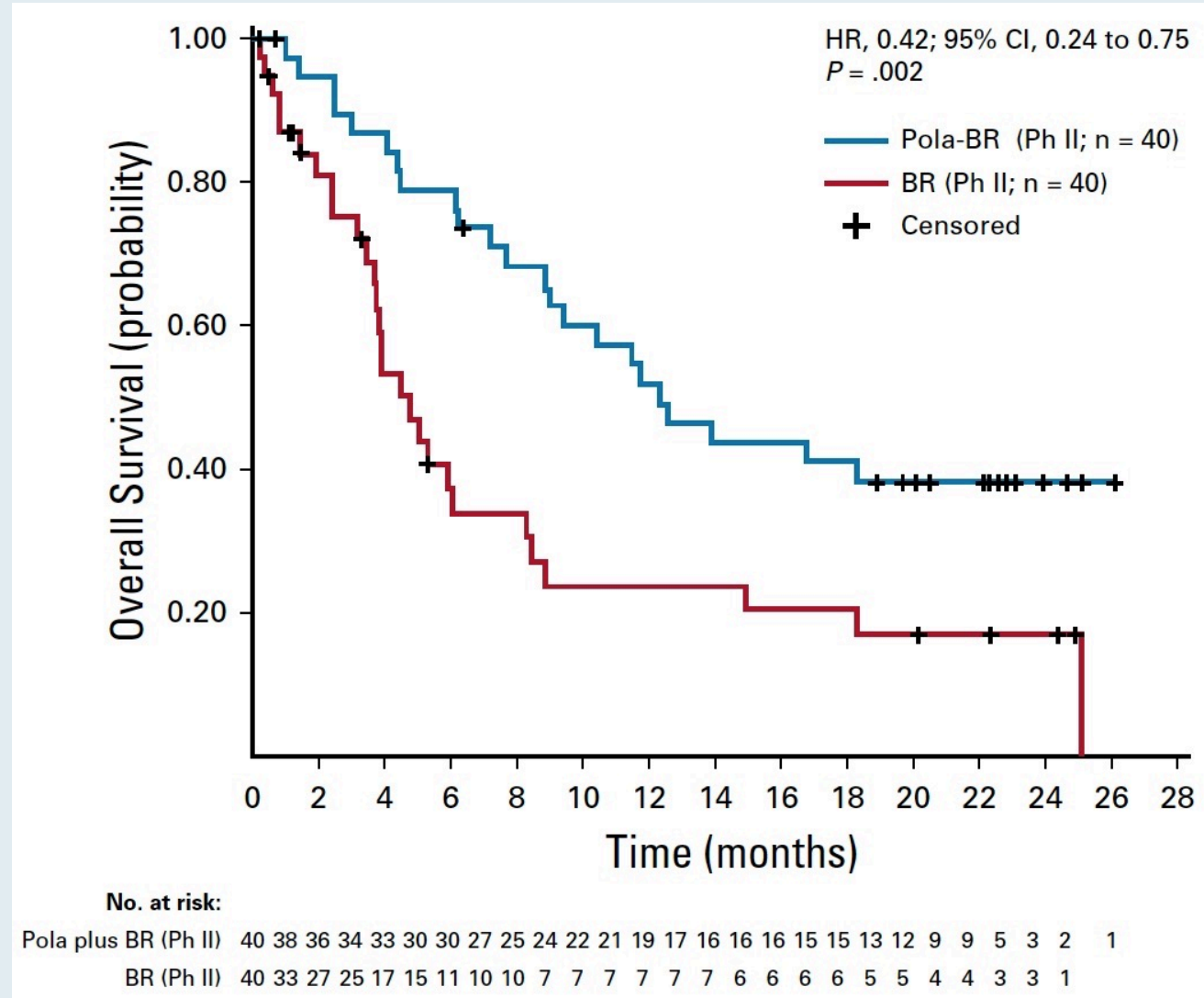
Laurie H. Sehn, MD, MPH¹; Alex F. Herrera, MD²; Christopher R. Flowers, MD, MSc³; Manali K. Kamdar, MD, MBBS⁴; Andrew McMillan, PhD⁵; Mark Hertzberg, MBBS, PhD⁶; Sarit Assouline, MDCM, MSc⁷; Tae Min Kim, MD⁸; Won Seog Kim, MD, PhD⁹; Muhit Ozcan, MD¹⁰; Jamie Hirata, PharmD¹¹; Elicia Penuel, PhD¹¹; Joseph N. Paulson, PhD¹¹; Ji Cheng, PhD¹²; Grace Ku, MD¹¹; and Matthew J. Matasar, MD¹³

J Clin Oncol 2020;38(2):155-65.

Polatuzumab Vedotin with Bendamustine/Rituximab for Transplant-Ineligible R/R DLBCL: End-of-Treatment CR Rate

Outcome	Phase II Randomized	
	Pola-BR (n = 40)	BR (n = 40)
End of treatment		
IRC, objective response	18 (45.0)	7 (17.5)
Complete response	16 (40.0)	7 (17.5)
Partial response	2 (5.0)	0
Stable disease	6 (15.0)	1 (2.5)
Progressive disease	8 (20.0)	10 (25.0)
Missing or unevaluable†	8 (20.0)	22 (55.0)

Polatuzumab Vedotin with Bendamustine/Rituximab for Transplant-Ineligible R/R DLBCL: Overall Survival



FDA Approves Selinexor for R/R DLBCL

Press Release – June 22, 2020

“The Food and Drug Administration granted accelerated approval to selinexor for adult patients with relapsed or refractory diffuse large B-cell lymphoma (DLBCL), not otherwise specified, including DLBCL arising from follicular lymphoma, after at least 2 lines of systemic therapy.

Approval was based on SADAL (KCP-330-009; NCT02227251), a multicenter, single-arm, open-label trial in patients with DLBCL after 2 to 5 systemic regimens. Patients received selinexor 60 mg orally on days 1 and 3 of each week.”

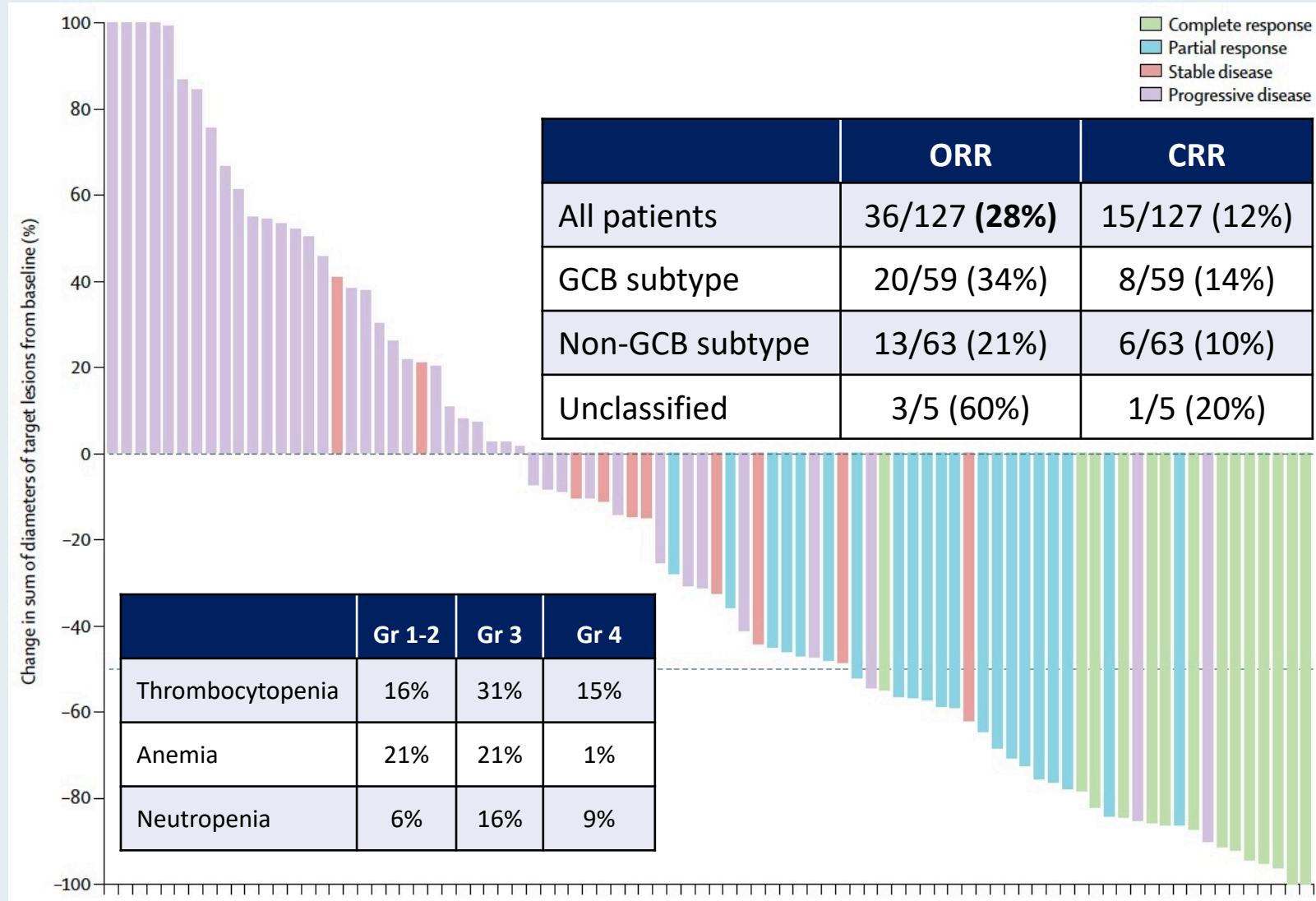
Lancet Haematol 2020;7:e511-22.

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



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

SADAL: Efficacy and Safety of Selinexor for R/R DLBCL After at Least 2 Previous Lines of Chemoimmunotherapy



FDA Grants Accelerated Approval to Tafasitamab-cxix for DLBCL

Press Release – July 31, 2020

“The Food and Drug Administration granted accelerated approval to tafasitamab-cxix, a CD19-directed cytolytic antibody, indicated in combination with lenalidomide for adult patients with relapsed or refractory diffuse large B-cell lymphoma (DLBCL) not otherwise specified, including DLBCL arising from low grade lymphoma, and who are not eligible for autologous stem cell transplant.

The efficacy of tafasitamab-cxix with lenalidomide was evaluated in L-MIND (NCT02399085), an open label, multicenter single-arm trial in 81 patients. Patients received tafasitamab-cxix 12 mg/kg intravenously with lenalidomide (25 mg orally on days 1 to 21 of each 28-day cycle) for maximum of 12 cycles, followed by tafasitamab-cxix as monotherapy.”

Lancet Oncol 2020;21:978-88



Tafasitamab plus lenalidomide in relapsed or refractory diffuse large B-cell lymphoma (L-MIND): a multicentre, prospective, single-arm, phase 2 study

Gilles Salles, Johannes Duell*, Eva González Barca, Olivier Tournilhac, Wojciech Jurczak, Anna Marina Liberati, Zsolt Nagy, Aleš Obr, Gianluca Gaidano, Marc André, Nagesh Kalakonda, Martin Dreyling, Johannes Weirather, Maren Dirnberger-Hertweck, Sumeet Ambarkhane, Günter Fingerle-Rowson, Kami Maddocks*

L-MIND: Best Objective Response According to Independent Radiology Committee or Clinical Review Committee

	Patients treated with tafasitamab plus lenalidomide (n=80)*
Best objective response	
Complete response	34 (43%; 32–54)
Partial response	14 (18%; 10–28)
Stable disease	11 (14%; 7–23)
Progressive disease	13 (16%; 9–26)
Not evaluable†	8 (10%; 4–19)
PET-confirmed complete response	30/34 (88%; 73–97)
Objective response‡	48 (60%; 48–71)
Disease control§	59 (74%; 63–83)

Data are n (%; 95% CI) or n/N (%). *One patient received tafasitamab only.
†Patients had no valid postbaseline response assessments. ‡Complete response plus partial response. §Complete response plus partial response plus stable disease.

FDA Grants Accelerated Approval to Loncastuximab Tesirine-Ipyl for Large B-Cell Lymphoma

Press Release – April 23, 2021

“The Food and Drug Administration granted accelerated approval to loncastuximab tesirine-ipyil, a CD19-directed antibody and alkylating agent conjugate, for adult patients with relapsed or refractory large B-cell lymphoma after two or more lines of systemic therapy, including diffuse large B-cell lymphoma (DLBCL) not otherwise specified, DLBCL arising from low grade lymphoma, and high-grade B-cell lymphoma.

Approval was based on LOTIS-2 (NCT03589469), an open-label, single-arm trial in 145 adult patients with relapsed or refractory DLBCL or high-grade B-cell lymphoma after at least two prior systemic regimens. Patients received loncastuximab tesirine-ipyil 0.15 mg/kg every 3 weeks for 2 cycles, then 0.075 mg/kg every 3 weeks for subsequent cycles. Patients received treatment until progressive disease or unacceptable toxicity.”

Lancet Oncol 2021;22:790-800



Loncastuximab tesirine in relapsed or refractory diffuse large B-cell lymphoma (LOTIS-2): a multicentre, open-label, single-arm, phase 2 trial

Paolo F Caimi, Weiyun Ai, Juan Pablo Alderuccio, Kirit M Ardeshta, Mehdi Hamadani, Brian Hess, Brad S Kahl, John Radford, Melhem Solh, Anastasios Stathis, Pier Luigi Zinzani, Karin Havenith, Jay Feingold, Shui He, Yajuan Qin, David Ungar, Xiaoyan Zhang, Carmelo Carlo-Stella

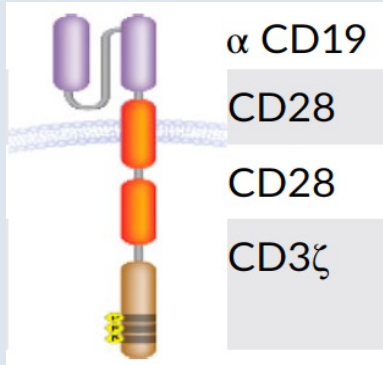
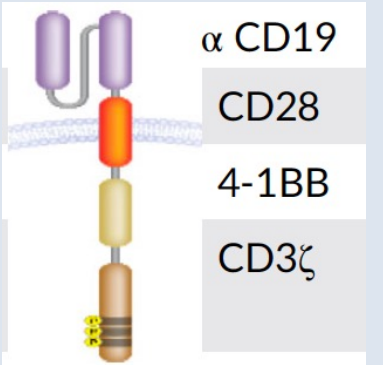
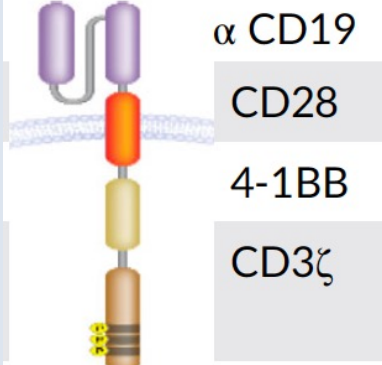
LOTIS-2: Response and Survival with Loncastuximab Tesirine for R/R DLBCL

Response	As-treated population (N = 145)
Overall response rate	70/145 (48.3%)
Complete response rate	35/145 (24.1%)
Complete response	35 (24%)
Partial response	35 (24%)
Stable disease	22 (15%)
Progressive disease	30 (21%)
Not evaluable	23 (16%)
Survival	As-treated population (N = 145)
Median progression-free survival	4.9 months
Median overall survival	9.9 months

LOTIS-2: Common Treatment-Emergent Adverse Events

Treatment-Emergent AEs	Grade 1-2	Grade 3-4
Anemia	16%	10%
Thrombocytopenia	15%	18%
Neutropenia	14%	26%
Leukopenia	6%	9%

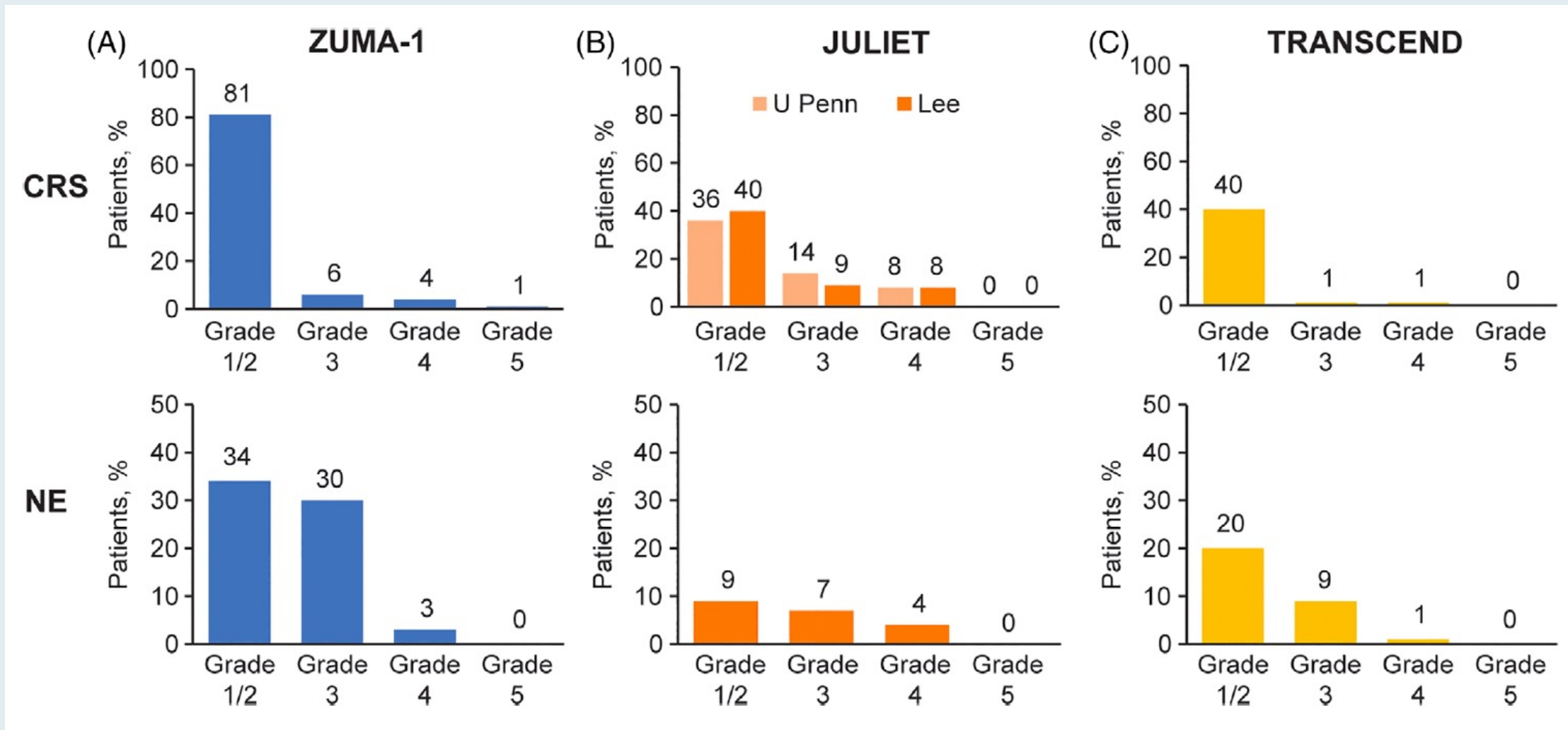
Summary of CAR T-Cell Pivotal Studies in DLBCL

	Axi-cel ZUMA-1 (N = 108 infused)	Tisagenlecleucel JULIET (N = 108 infused)	Liso-cel TRANSCEND (N = 294 infused)
CAR			
Transmembrane domain	CD28	CD28	CD28
Co-stimulatory domain	CD28	4-1BB	4-1BB
T-cell activation domain	CD3 ζ	CD3 ζ	CD3 ζ
Leukapheresis	Fresh product	Cryopreserved product	Fresh product
Outpatient administration	Not allowed	Allowed	Allowed
Bridging therapy, %	Not allowed	92%	59%
Lymphodepletion chemotherapy	Cy/Flu 500/30 mg/m ² × 3d	Cy/Flu 250/25 mg/m ² × 3d Bendamustine 90 mg/m ² × 2d	Cy/Flu 300/30 mg/m ² × 3d

Summary of Efficacy Outcomes in Pivotal Studies of CAR T-Cell Therapy for DLBCL

	Axi-cel ZUMA-1 (N = 108 infused)	Tisagenlecleucel JULIET (N = 115 infused)	Liso-cel TRANSCEND (N = 294 infused)
Overall response rate	74%	52%	73%
Complete response rate	54%	40%	53%
24-month OS rate	50.5%	40.0%	44.9%
Indication	DLBCL, High grade, PMBCL, tFL	DLBCL, High grade, tFL	DLBCL, HGBCL, PMBCL, tFL, tIND

Cytokine Release Syndrome and Neurologic Events in Pivotal Studies of CAR T-Cell Therapy for DLBCL



CAR-T-Associated Cytokine Release Syndrome (CRS) and Neurologic Toxicity

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%

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

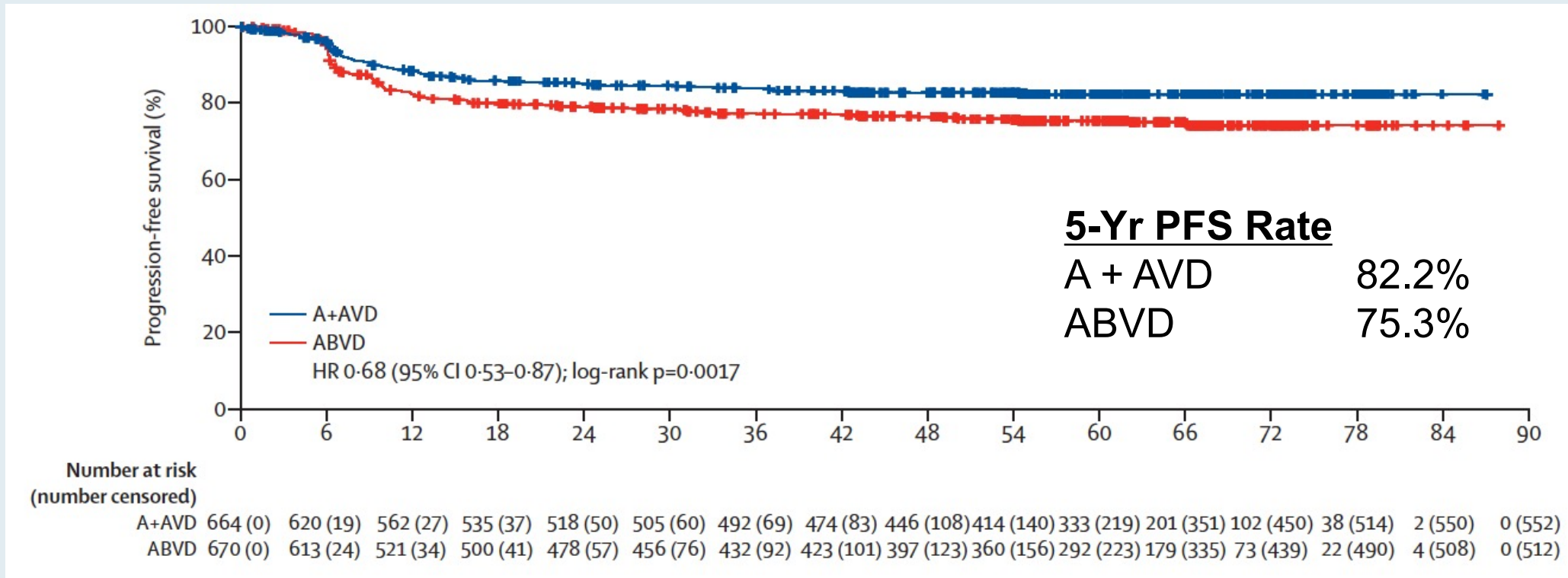
Hodgkin Lymphoma



Brentuximab vedotin with chemotherapy for stage III or IV classical Hodgkin lymphoma (ECHELON-1): 5-year update of an international, open-label, randomised, phase 3 trial

David J Straus, Monika Długosz-Danecka, Joseph M Connors, Sergey Alekseev, Árpád Illés, Marco Picardi, Ewa Lech-Maranda, Tatyana Feldman, Piotr Smolewski, Kerry J Savage, Nancy L Bartlett, Jan Walewski, Radhakrishnan Ramchandren, Pier Luigi Zinzani, Martin Hutchings, Javier Munoz, Hun Ju Lee, Won Seog Kim, Ranjana Advani, Stephen M Ansell, Anas Younes, Andrea Gallamini, Rachael Liu, Meredith Little, Keenan Fenton, Michelle Fanale, John Radford

ECHELON-1: Five-Year Update



- Five-year PFS was higher with A + AVD than with ABVD for both PET-2-negative and positive patients
- Peripheral neuropathy continued to improve or resolve over time with both A + AVD and ABVD; more patients had ongoing peripheral neuropathy in the A + AVD group than in the ABVD group (19% vs 9%).

Brentuximab Vedotin Combined With Chemotherapy in Patients With Newly Diagnosed Early-Stage, Unfavorable-Risk Hodgkin Lymphoma

Anita Kumar, MD¹; Carla Casulo, MD²; Ranjana H. Advani, MD³; Elizabeth Budde, MD⁴; Paul M. Barr, MD²; Connie L. Batlevi, MD, PhD¹; Philip Caron, MD¹; Louis S. Constine, MD²; Savita V. Dandapani, MD⁴; Esther Drill, MD¹; Pamela Drullinsky, MD¹; Jonathan W. Friedberg, MD²; Clare Grieve, BA¹; Audrey Hamilton, MD¹; Paul A. Hamlin, MD¹; Richard T. Hoppe, MD³; Steven M. Horwitz, MD¹; Ashlee Joseph, BA¹; Niloufer Khan, MD¹; Leana Laraque, BA¹; Matthew J. Matasar, MD¹; Alison J. Moskowitz, MD¹; Ariela Noy, MD¹; Maria Lia Palomba, MD¹; Heiko Schöder, MD¹; David J. Straus, MD¹; Shreya Vemuri, BA¹; Joanna Yang, MD⁵; Anas Younes, MD⁶; Andrew D. Zelenetz, MD, PhD¹; Joachim Yahalom, MD¹; and Craig H. Moskowitz, MD⁷

J Clin Oncol 2021;[Online ahead of print].

Multicenter Pilot Study of BV + AVD with or without Consolidative Radiation Therapy for Early-Stage, Unfavorable-Risk Hodgkin Lymphoma

- Patients who achieved a negative end-of-therapy (EOT) PET-4 scan after 4 cycles of BV + AVD were studied with de-escalating radiation dose and field

Clinical endpoint	Cohort 1 30-Gy ISRT (n = 29)	Cohort 2 20-Gy ISRT (n = 29)	Cohort 3 30-Gy CVRT (n = 29)	Cohort 4 No radiation (n = 29)	All patients (n = 114)
EOT CR rate	27 (93%)	29 (100%)	27 (93%)	28 (97%)	111 (96%)
2-year PFS rate	93.1%	96.6%	89.7%	96.6%	94%

“BV + AVD x four cycles is a highly active and well-tolerated treatment program for ES, unfavorable-risk Hodgkin lymphoma, including bulky disease. The efficacy of BV + AVD supports the safe reduction or elimination of consolidative radiation among PET-4–negative patients.”

Frontline Brentuximab Vedotin as Monotherapy or in Combination for Older Hodgkin Lymphoma Patients

Yasenchak CA et al.
ASH 2020;Abstract 471.

Best Responses per Investigator – Efficacy Evaluable Set

Efficacy Evaluable Set	Part A BV mono N=25	Part B BV+DTIC N=19	Part C BV+benda N=17	Part D BV+nivo N=19
ORR, n (%)	23 (92)	19 (100)	17 (100)	18 (95)
Best overall response				
Complete response	18 (72)	13 (68)	15 (88)	15 (79)
Partial response	5 (20)	6 (32)	2 (12)	3 (16)
Stable disease	2 (8)	0	0	1 (5)
Progressive disease	0	0	0	0
Duration of response, n	23	19	17	18
Median (min, max)	9.1 (2.8, 81.4+)	45.4 (0.0+, 67.3)	39.0 (0.0+, 56.8+)	NR (1.4+, 27.5+)

Patients who were not efficacy-evaluable included:

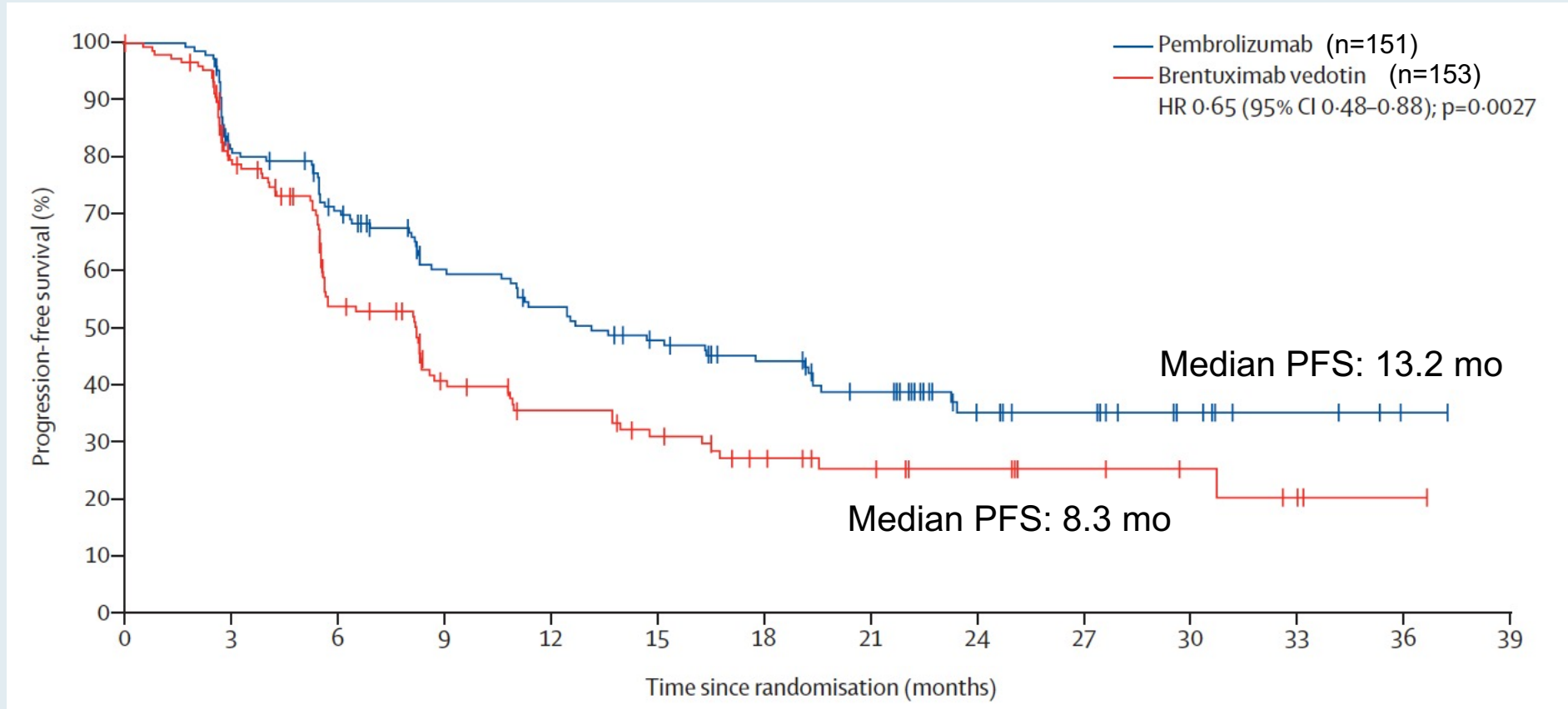
- Patients with no post-baseline response assessment due to deaths (n=3) and patient withdrawal (non-AE related, n=2) on or before the first scheduled post-baseline scan at Cycle 2
- One patient lost to follow-up
- One patient who was not an eligible cHL subtype (nodular lymphocyte-predominant HL) but still achieved partial response after receiving BV



Pembrolizumab versus brentuximab vedotin in relapsed or refractory classical Hodgkin lymphoma (KEYNOTE-204): an interim analysis of a multicentre, randomised, open-label, phase 3 study

*John Kuruvilla, Radhakrishnan Ramchandren, Armando Santoro, Ewa Paszkiewicz-Kozik, Robin Gasiorowski, Nathalie A Johnson, Laura Maria Fogliatto, Iara Goncalves, Jose S R de Oliveira, Valeria Buccheri, Guilherme F Perini, Neta Goldschmidt, Iryna Kriachok, Michael Dickinson, Mieczyslaw Komarnicki, Andrew McDonald, Muhit Ozcan, Naohiro Sekiguchi, Ying Zhu, Akash Nahar, Patricia Marinello, Pier Luigi Zinzani, on behalf of the KEYNOTE-204 investigators**

KEYNOTE-204: Interim Analysis



- The most common Grade 3-5 TRAEs in the pembrolizumab and brentuximab vedotin study arms included pneumonitis (4% vs 1%), neutropenia (2% vs 7%), and peripheral neuropathy (1% vs 3%).
- Serious TRAEs occurred in 16% of patients receiving pembrolizumab and 11% of patients receiving brentuximab vedotin.

J Clin Oncol 2020;38(32):3794-804.

original reports

Anti-CD30 CAR-T Cell Therapy in Relapsed and Refractory Hodgkin Lymphoma

Carlos A. Ramos, MD^{1,2}; Natalie S. Grover, MD^{3,4}; Anne W. Beaven, MD^{3,4}; Premal D. Lulla, MD^{1,2}; Meng-Fen Wu, MS^{1,5}; Anastasia Ivanova, PhD^{3,6}; Tao Wang, PhD^{1,5}; Thomas C. Shea, MD^{3,4}; Cliona M. Rooney, PhD^{1,7,8}; Christopher Dittus, DO^{3,4}; Steven I. Park, MD³; Adrian P. Gee, PhD^{1,7}; Paul W. Eldridge, PhD³; Kathryn L. McKay, MS³; Birju Mehta, MS¹; Catherine J. Cheng, MS³; Faith B. Buchanan, PA³; Bambi J. Grilley, RPh¹; Kaitlin Morrison, PhD³; Malcolm K. Brenner, MD, PhD^{1,2,7}; Jonathan S. Serody, MD^{3,4,9}; Gianpietro Dotti, MD^{3,9}; Helen E. Heslop, MD^{1,2,7}; and Barbara Savoldo, MD, PhD^{3,9,10}

Anti-CD30 CAR T-Cell Therapy After Lymphodepletion Regimens for R/R Hodgkin Lymphoma (HL)

- Two parallel Phase I/II studies (NCT02690545 and NCT02917083) at 2 independent centers involving patients with relapsed or refractory HL
- Anti-CD30 CAR T cells were administered after lymphodepletion with either bendamustine alone, bendamustine and fludarabine or cyclophosphamide and fludarabine

Response	All Patients (N = 37)	Benda (n = 5)	Benda-Flu (n = 15)	Cy-Flu (n = 17)
ORR				
CR + PR	23 (62)	0 (0)	12 (80)	11 (65)
Response rate				
CR	19 (51)	0 (0)	11 (73)	8 (47)
PR	4 (11)	0 (0)	1 (7)	3 (18)

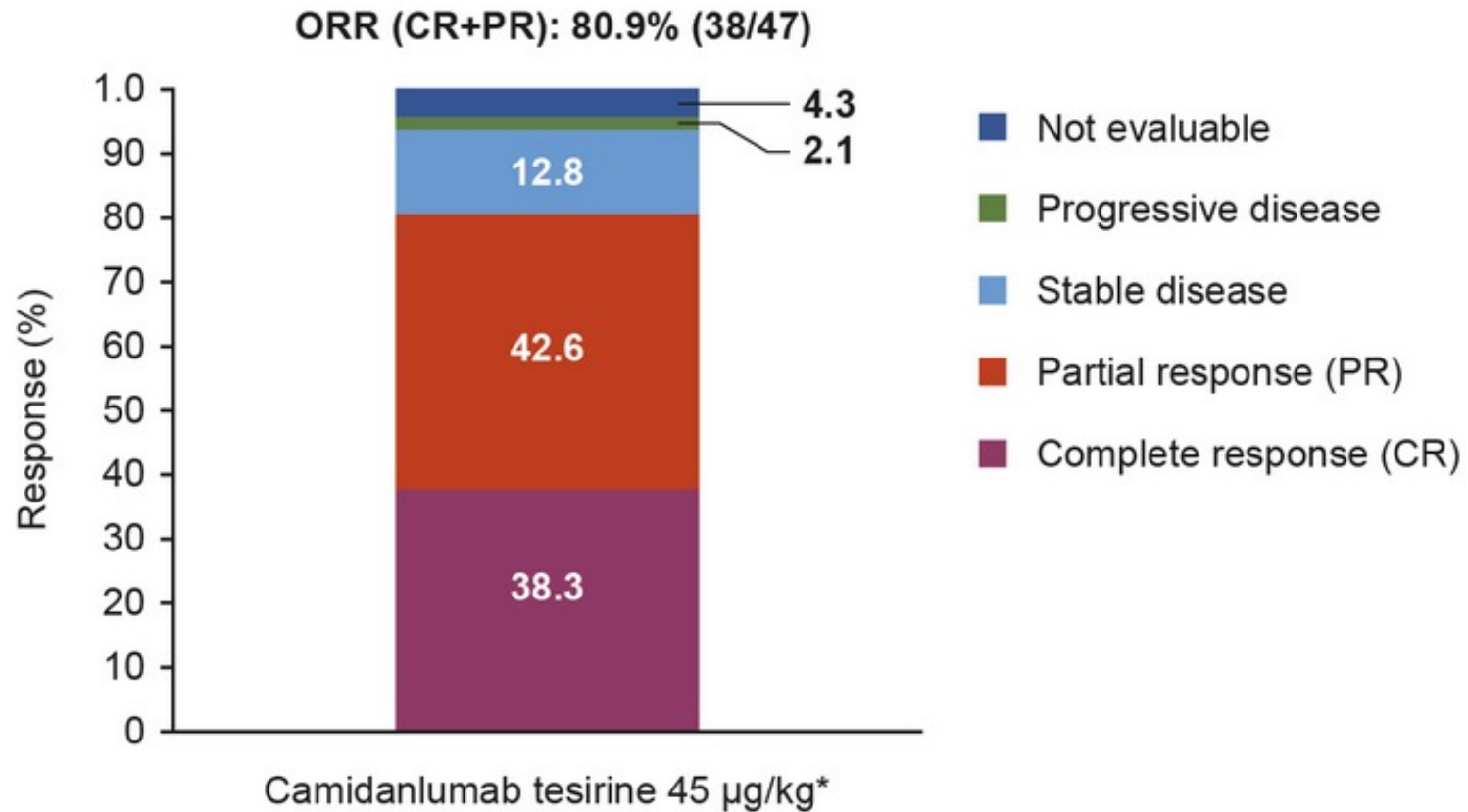
- Cytokine release syndrome was observed in 10 patients, all of which were Grade 1. No neurologic toxicity was observed

Preliminary Results of a Phase 2 Study of Camidanlumab Tesirine (Cami), a Novel Pyrrolobenzodiazepine-Based Antibody-Drug Conjugate, in Patients with Relapsed or Refractory Hodgkin Lymphoma

Herrera AF et al.

ASH 2020;Abstract 2020.

Response to Camidanlumab Tesirine in Patients with R/R Classical Hodgkin Lymphoma



*45 µg/kg for 2 cycles, then 30 µg/kg for subsequent cycles.
ORR, overall response rate.

Follicular Lymphoma

Approved PI3K Inhibitors for FL: Indication and Dosing

	Idelalisib ¹	Copanlisib ²	Duvelisib ³	Umbralisib ⁴
Mechanism of action	Selective PI3K δ inhibitor	Dual inhibitor of PI3K δ,α	Dual inhibitor of PI3K δ,γ	Dual inhibitor of PI3K δ and casein kinase CK1 ϵ
Indication	Relapsed FL after at least 2 prior systemic therapies	Relapsed FL after at least 2 prior systemic therapies	R/R FL after at least 2 prior systemic therapies	R/R FL after at least 3 prior systemic therapies
Dosing	150 mg orally, twice daily	60 mg as a 1-hour IV infusion weekly (3 weeks on, 1 week off)	25 mg orally, twice daily	800 mg orally, once daily

¹ Gopal AK et al. *N Engl J Med* 2014;370(11):1008-18; Idelalisib package insert, January 2018.

² Dreyling M et al. *J Clin Oncol* 2017;35(35):3898-905; Copanlisib package insert, September 2017.

³ Flinn IW et al. *J Clin Oncol* 2019;[Epub ahead of print]; Zinzani PL et al. EHA 2017;Abstract S777; Duvelisib package insert, September 2018. ⁴ Umbralisib package insert, February 2021.

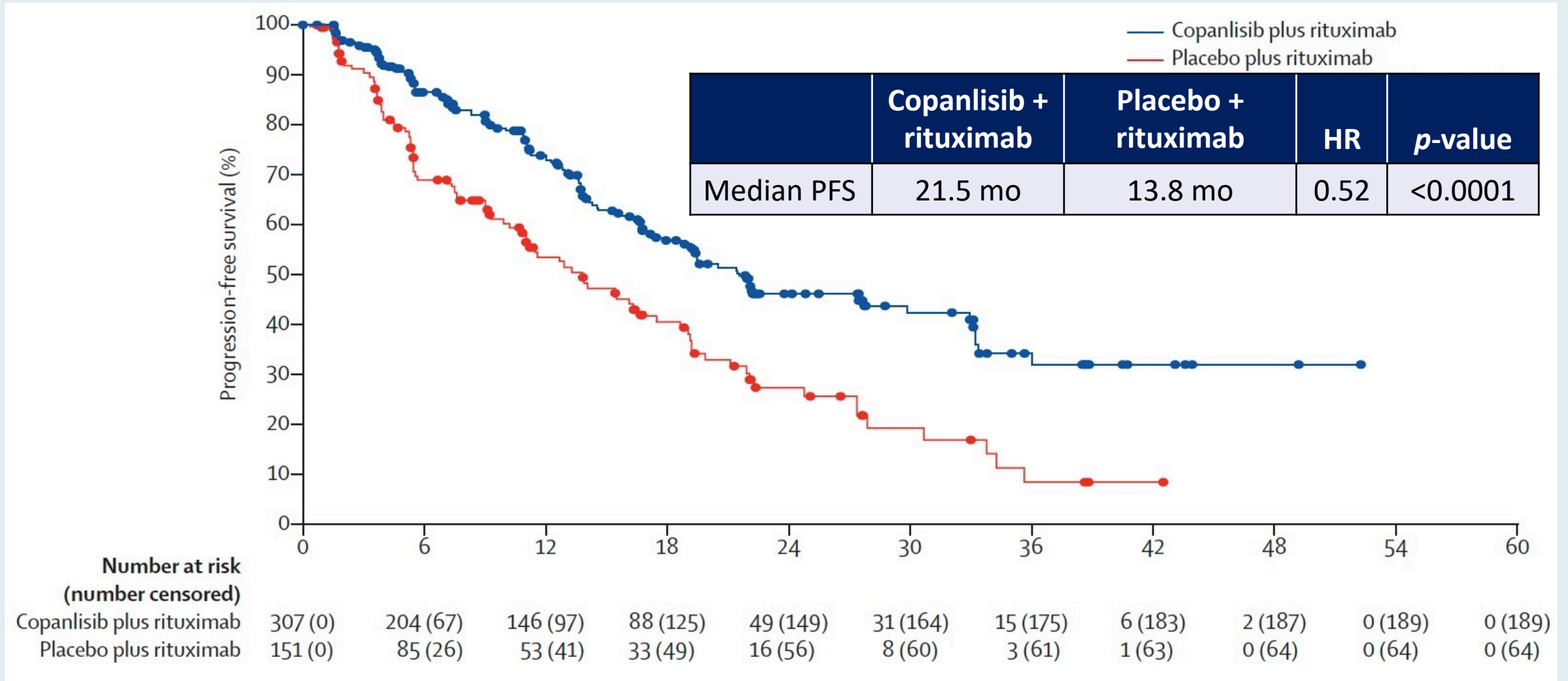
Lancet Oncol 2021;22:678-89



Copanlisib plus rituximab versus placebo plus rituximab in patients with relapsed indolent non-Hodgkin lymphoma (CHRONOS-3): a double-blind, randomised, placebo-controlled, phase 3 trial

Matthew J Matasar, Marcelo Capra, Muhit Özcan, Fangfang Lv, Wei Li, Eduardo Yañez, Katya Sapunarova, Tongyu Lin, Jie Jin, Wojciech Jurczak, Aryan Hamed, Ming-Chung Wang, Ross Baker, Igor Bondarenko, Qingyuan Zhang, Jifeng Feng, Klaus Geissler, Mihaela Lazaroiu, Guray Saydam, Árpád Szomor, Krimo Bouabdallah, Rinat Galiulin, Toshiki Uchida, Lidia Mongay Soler, Anjun Cao, Florian Hiemeyer, Aruna Mehra, Barrett H Childs, Yuankai Shi, Pier Luigi Zinzani

CHRONOS-3: Progression-Free Survival in R/R Indolent NHL



FDA Grants Accelerated Approval to Umbralisib for Marginal Zone Lymphoma and Follicular Lymphoma

Press Release – February 5, 2021

“The Food and Drug Administration granted accelerated approval to umbralisib, a kinase inhibitor including PI3K-delta and casein kinase CK1-epsilon, for the following indications:

- Adult patients with relapsed or refractory marginal zone lymphoma (MZL) who have received at least one prior anti-CD20-based regimen;
- Adult patients with relapsed or refractory follicular lymphoma (FL) who have received at least three prior lines of systemic therapy.

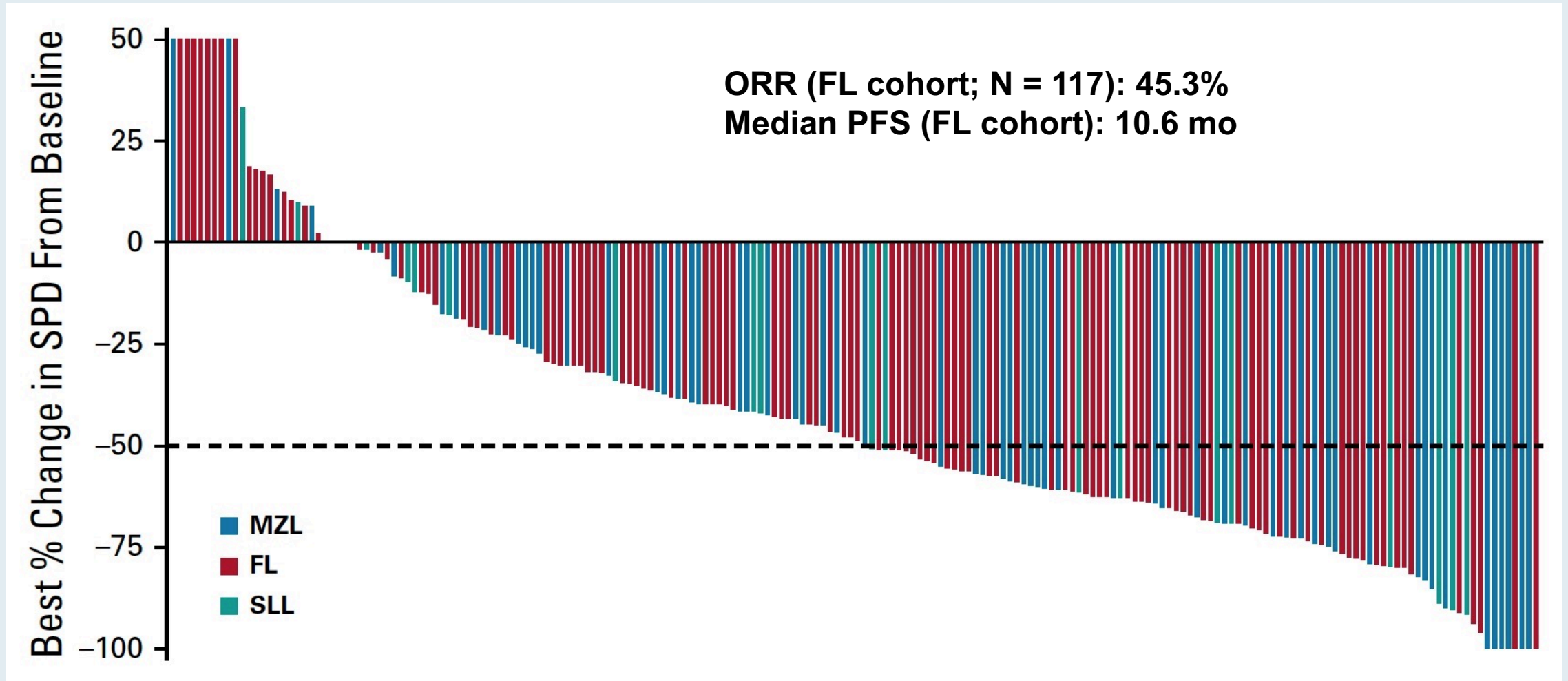
Approval was based on two single-arm cohorts of an open-label, multi-center, multi-cohort trial, UTX-TGR-205 (NCT02793583), in 69 patients with MZL who received at least one prior therapy, including an anti-CD20 containing regimen, and in 117 patients with FL after at least 2 prior systemic therapies. Patients received umbralisib 800 mg orally once daily until disease progression or unacceptable toxicity.”

Umbralisib, a Dual PI3K δ /CK1 ϵ Inhibitor in Patients With Relapsed or Refractory Indolent Lymphoma

Nathan H. Fowler, MD¹; Felipe Samaniego, MD¹; Wojciech Jurczak, MD, PhD²; Nilanjan Ghosh, MD, PhD³; Enrico Derenzini, MD^{4,5}; James A. Reeves, MD⁶; Wanda Knopińska-Postuszny, MD⁷; Chan Y. Cheah, DMSc⁸; Tycel Phillips, MD⁹; Ewa Lech-Maranda, MD, PhD¹⁰; Bruce D. Cheson, MD¹¹; Paolo F. Caimi, MD¹²; Sebastian Grosicki, MD, PhD¹³; Lori A. Leslie, MD¹⁴; Julio C. Chavez, MD¹⁵; Gustavo Fonseca, MD¹⁶; Sunil Babu, MD¹⁷; Daniel J. Hodson, MD¹⁸; Spencer H. Shao, MD¹⁹; John M. Burke, MD²⁰; Jeff P. Sharman, MD²¹; Jennie Y. Law, MD²²; John M. Pagel, MD, PhD²³; Hari P. Miskin, MSc²⁴; Peter Sportelli, BS²⁴; Owen A. O'Connor, MD, PhD^{24,25}; Michael S. Weiss, JD²⁴; and Pier Luigi Zinzani, MD, PhD^{26,27}

J Clin Oncol 2021;39:1609-18

Umbralisib for Heavily Pretreated R/R Indolent NHL



FDA Grants Accelerated Approval to Tazemetostat for Follicular Lymphoma

Press Release: June 18, 2020

“The Food and Drug Administration granted accelerated approval to tazemetostat, an EZH2 inhibitor, for adult patients with relapsed or refractory (R/R) follicular lymphoma (FL) whose tumors are positive for an EZH2 mutation as detected by an FDA-approved test and who have received at least 2 prior systemic therapies, and for adult patients with R/R FL who have no satisfactory alternative treatment options.

Today, the FDA also approved the cobas®. EZH2 Mutation Test (Roche Molecular Systems, Inc) as a companion diagnostic for tazemetostat.

Approval was based on two open-label, single-arm cohorts (Cohort 4 - EZH2 mutated FL and Cohort 5 - EZH2 wild-type FL) of a multi-center trial (Study E7438-G000-101, NCT01897571) in patients with histologically confirmed FL after at least 2 prior systemic therapies. EZH2 mutations were identified prospectively using formalin-fixed, paraffin-embedded tumor samples, which were centrally tested using the cobas EZH2 Mutation Test. Patients received tazemetostat 800 mg orally twice daily until confirmed disease progression or unacceptable toxicity.”

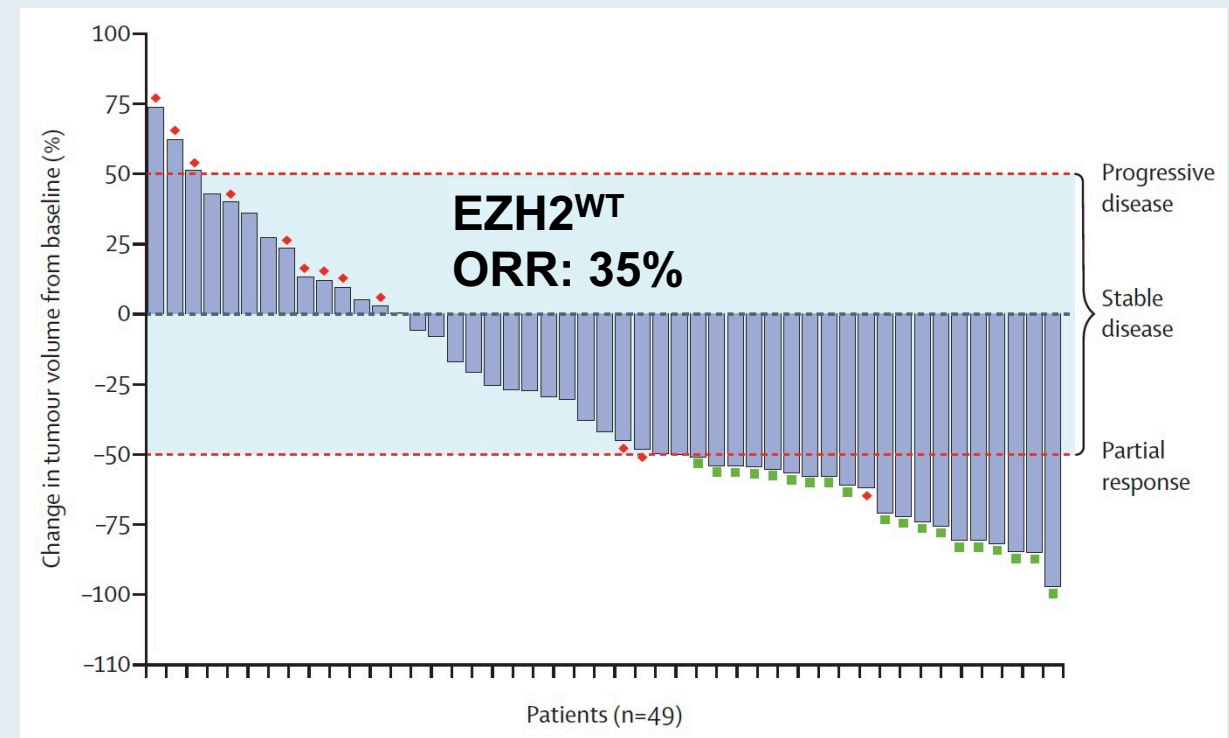
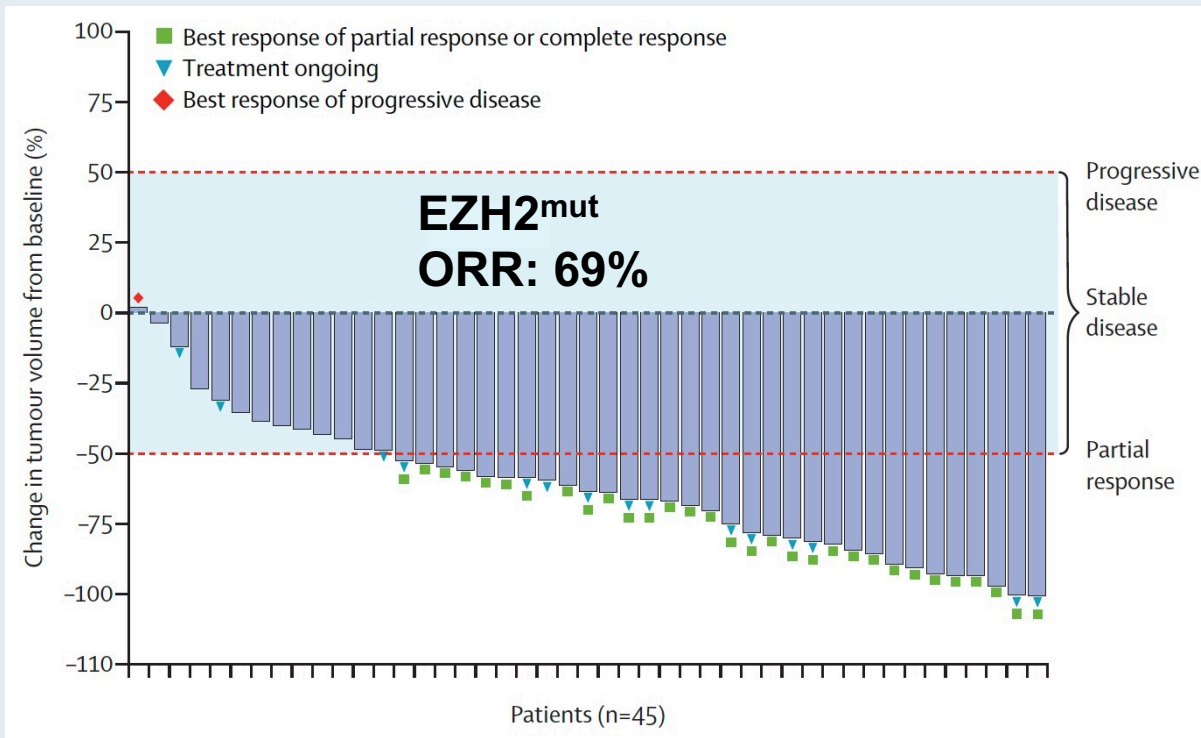
Lancet Oncol 2020;21:1433-42

Tazemetostat for patients with relapsed or refractory follicular lymphoma: an open-label, single-arm, multicentre, phase 2 trial


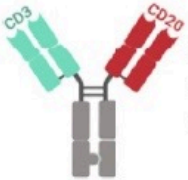
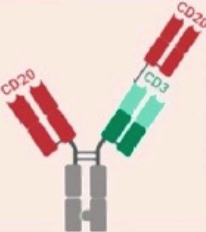
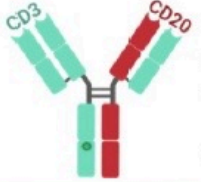



Franck Morschhauser, Hervé Tilly, Aristeidis Chaidos, Pamela McKay, Tycel Phillips, Sarit Assouline, Connie Lee Batlevi, Phillip Campbell, Vincent Ribrag, Gandhi Laurent Damaj, Michael Dickinson, Wojciech Jurczak, Maciej Kazmierczak, Stephen Opat, John Radford, Anna Schmitt, Jay Yang, Jennifer Whalen, Shefali Agarwal, Deyaa Adib, Gilles Salles

Response to Tazemetostat in Patients with R/R FL and EZH2-Mutated or EZH2 Wild-Type Tumors



Structure of Selected Bispecific Antibodies

Bi-Specific Antibody	Targets	Design	Ig Fragment Formats
blinatumomab	CD19 x CD3		<ul style="list-style-type: none"> two murine scFv joined by a glycine-serine linker monovalent CD19 and monovalent CD3 binding cloned from anti-CD19 (clone HD37) and anti-CD3 (clone L2K-07) murine mAbs
mosunetuzumab	CD20 x CD3		<ul style="list-style-type: none"> humanized mouse heterodimeric IgG1-based antibody monovalent CD20 and monovalent CD3ε binding modified Fc devoid of FcγR and complement binding
glofitamab	(CD20) ₂ x CD3		<ul style="list-style-type: none"> humanized mouse IgG1-based antibody bivalent CD20 and monovalent CD3ε binding modified Fc devoid of FcγR and complement binding
odronextamab	CD20 x CD3		<ul style="list-style-type: none"> fully human IgG4-based heterodimeric antibody monovalent CD20 and monovalent CD3ε binding Fc-dependent effector function-minimized antibody with Fc of the anti-CD3ε heavy chain modified to reduce Protein A binding common κ light chain from anti-CD3ε mAb
epcoritamab	CD20 x CD3		<ul style="list-style-type: none"> humanized mouse IgG1-based heterodimeric antibody monovalent CD20 and monovalent CD3 binding IgG1 Fc modified to minimize Fc-dependent effector functions and to control Fab-arm exchange of mAb half-molecules, resulting in high bispecific product yield

Ig, immunoglobulin; scFv, single-chain variable fragment; mAb, monoclonal antibody; Fc, fragment crystallizable; FcγR, Fc gamma receptor

FDA Grants Breakthrough Therapy Designation for the CD20 x CD3 Bispecific Cancer Immunotherapy Mosunetuzumab for Follicular Lymphoma

Press Release: July 14, 2020

“[The] investigational CD20xCD3 T-cell engaging bispecific mosunetuzumab has been granted Breakthrough Therapy Designation (BTD) by the US Food and Drug Administration (FDA) for the treatment of adult patients with relapsed or refractory (R/R) follicular lymphoma who have received at least two prior systemic therapies.

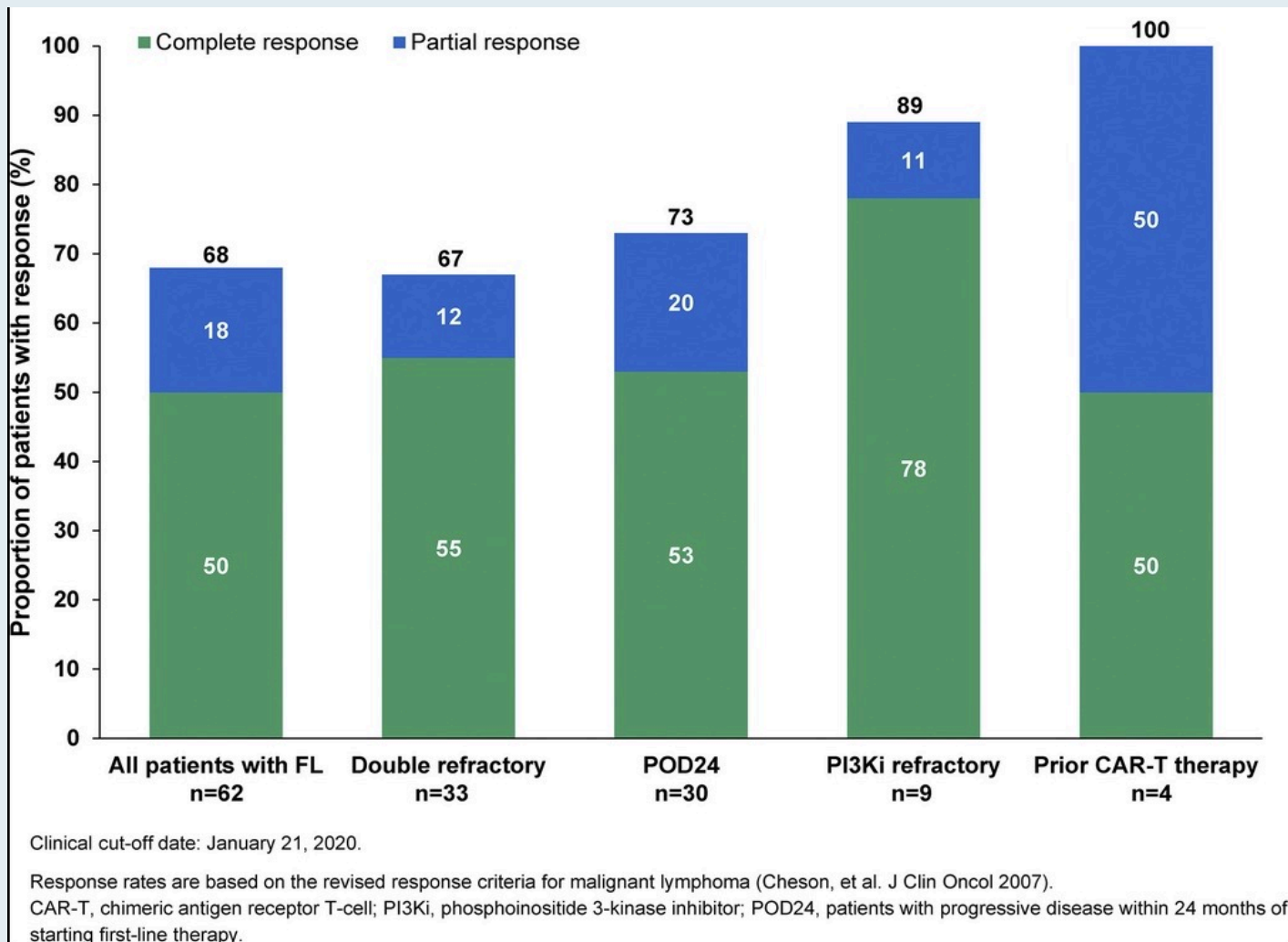
This designation was granted based on encouraging efficacy results observed in the phase I/Ib GO29781 study [[NCT02500407](#)] investigating mosunetuzumab in R/R non-Hodgkin lymphoma (NHL). The safety profile of this T-cell engaging bispecific was consistent with its mechanism of action.”

Mosunetuzumab Shows Promising Efficacy in Patients with Multiply Relapsed Follicular Lymphoma: Updated Clinical Experience from a Phase I Dose-Escalation Trial

Assouline SE et al.

ASH 2020;Abstract 702.

Investigator-Assessed Best Response to Mosunetuzumab in Patients with Follicular Lymphoma Who Have Received at Least 2 Prior Systemic Therapies



Cytokine release syndrome (CRS) rate: 35% (N = 22)

- Classified as serious adverse event in N = 4
- No patient required tocilizumab, intensive care unit admission or use of vasopressors for CRS management

Neurologic adverse event rate: 45% (N = 28)

- All Grade 1/2

Glofitamab, a Novel, Bivalent CD20-Targeting T-Cell–Engaging Bispecific Antibody, Induces Durable Complete Remissions in Relapsed or Refractory B-Cell Lymphoma: A Phase I Trial

Martin Hutchings, PhD¹; Franck Morschhauser, MD, PhD²; Gloria Iacoboni, MD^{3,4}; Carmelo Carlo-Stella, MD⁵; Fritz C. Offner, MD, PhD⁶; Anna Sureda, MD, PhD⁷; Gilles Salles, MD⁸; Joaquín Martínez-Lopez, MD, PhD, MBA⁹; Michael Crump, MD¹⁰; Denise N. Thomas, MSc¹¹; Peter N. Morcos, PharmD¹¹; Cristiano Ferlini, MD¹¹; Ann-Marie E. Bröske, PhD¹²; Anton Belousov, PhD¹³; Marina Bacac, PhD¹³; Natalie Dimier, PhD¹⁴; David J. Carlile, PhD¹⁴; Linda Lundberg, PhD¹⁵; David Perez-Callejo, MD, PhD¹⁵; Pablo Umaña, PhD¹³; Tom Moore, MD¹²; Martin Weisser, MD¹²; and Michael J. Dickinson, MBBS, DMedSci¹⁶

J Clin Oncol 2021;39:1959-70.

FDA Grants Accelerated Approval to Axicabtagene Ciloleucel for Relapsed or Refractory Follicular Lymphoma

Press Release – March 5, 2021

“The Food and Drug Administration granted accelerated approval to axicabtagene ciloleucel for adult patients with relapsed or refractory follicular lymphoma (FL) after two or more lines of systemic therapy.

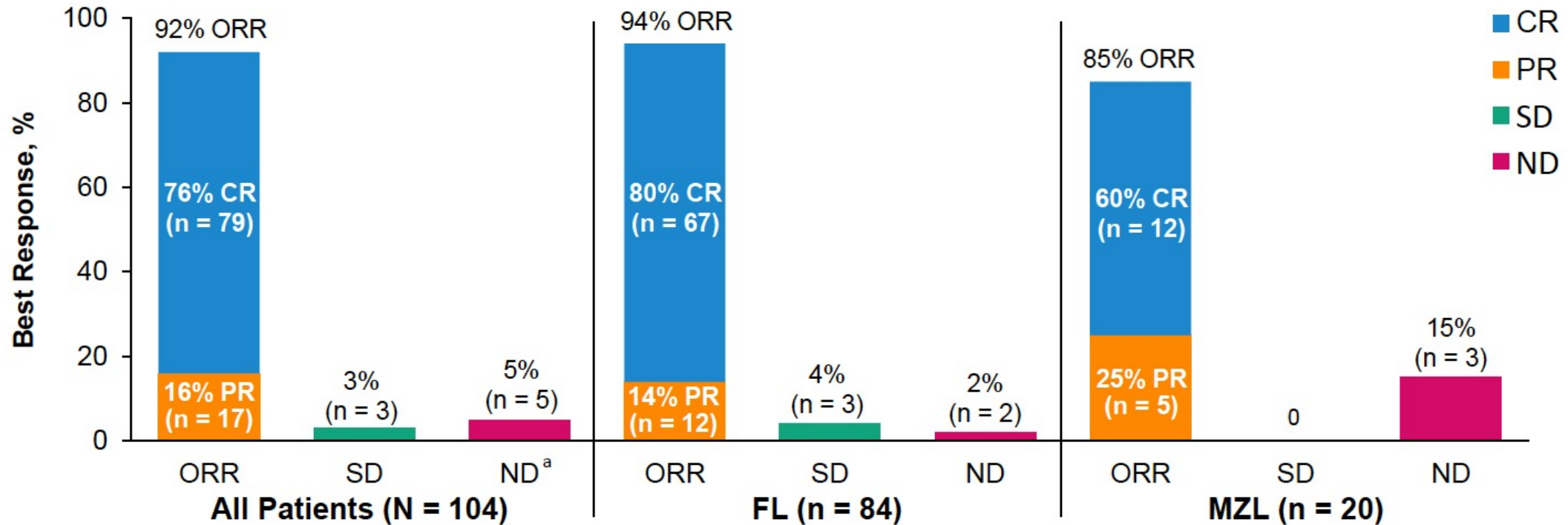
Approval in FL was based on a single-arm, open-label, multicenter trial (ZUMA-5; NCT03105336) that evaluated axicabtagene ciloleucel, a CD19-directed chimeric antigen receptor (CAR) T cell therapy, in adult patients with relapsed or refractory FL after two or more lines of systemic therapy, including the combination of an anti-CD20 monoclonal antibody and an alkylating agent. Following lymphodepleting chemotherapy, axicabtagene ciloleucel was administered as a single intravenous infusion.”

Primary Analysis of ZUMA-5: A Phase 2 Study of Axicabtagene Ciloleucel (Axi-Cel) in Patients With Relapsed/Refractory Indolent Non-Hodgkin Lymphoma

Caron Jacobson, MD¹; Julio C. Chavez, MD²; Alison Sehgal, MD³; Basem William, MD⁴; Javier Munoz, MD, MS, FACP⁵; Gilles Salles, MD, PhD⁶; Pashna Munshi, MD⁷; Carla Casulo, MD⁸; David Maloney, MD, PhD⁹; Sven de Vos, MD, PhD¹⁰; Ran Reshef, MD¹¹; Lori Leslie, MD¹²; Ibrahim Yakoub-Agha, MD, PhD¹³; Olalekan Oluwole, MD, MPH, MBBS¹⁴; Henry Chi Hang Fung, MD¹⁵; Joseph Rosenblatt, MD¹⁶; John Rossi, MS¹⁷; Lovely Goyal, PhD¹⁷; Vicki Plaks, LLB, PhD¹⁷; Yin Yang, MS¹⁷; Jennifer Lee, BS¹⁷; Wayne Godfrey, MS, MD¹⁷; Remus Vezan, MD, PhD¹⁷; Mauro Avanzi, MD, PhD¹⁷; and Sattva S. Neelapu, MD¹⁸

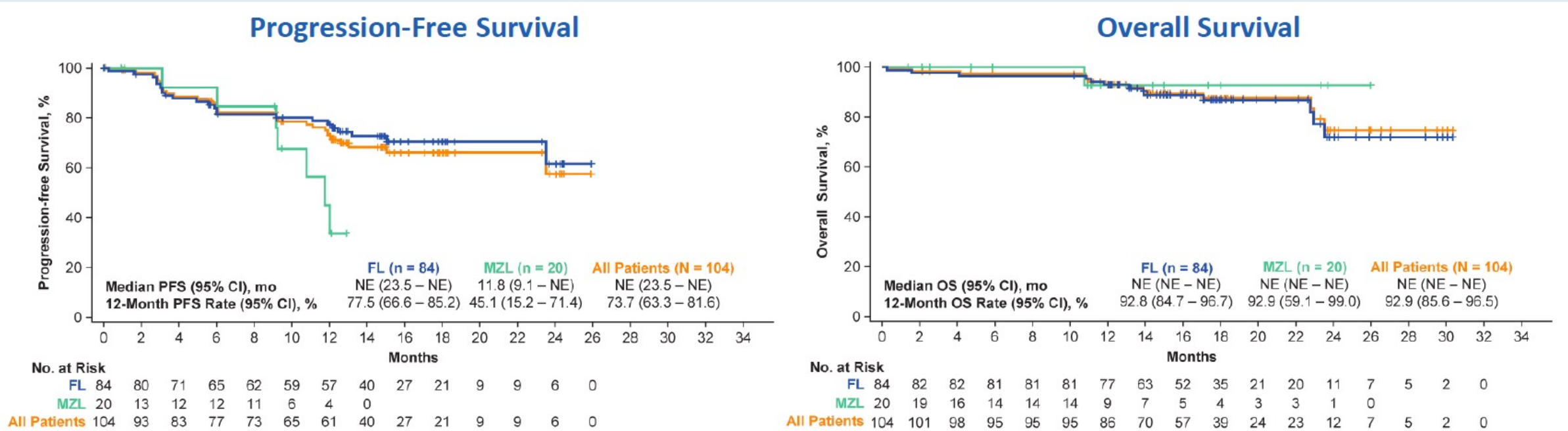
¹Dana-Farber Cancer Institute, Boston, MA, USA; ²University of South Florida H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL, USA; ³UPMC Hillman Cancer Center, Pittsburgh, PA, USA; ⁴The Ohio State University Comprehensive Cancer Center, Columbus, OH, USA; ⁵Banner MD Anderson Cancer Center, Gilbert, AZ, USA; ⁶Centre Hospitalier Lyon Sud, Pierre-Bénite, France; ⁷Georgetown Lombardi Comprehensive Cancer Center, Washington, DC, USA; ⁸University of Rochester Medical Center - James P. Wilmot Cancer Center, Rochester, NY, USA; ⁹Fred Hutchinson Cancer Research Center, Seattle, WA, USA; ¹⁰Ronald Reagan University of California Los Angeles Medical Center, Santa Monica, CA, USA; ¹¹Columbia University Herbert Irving Comprehensive Cancer Center, New York, NY, USA; ¹²John Theurer Cancer Center, Hackensack, NJ, USA; ¹³CHU de Lille, Univ Lille, INSERM U1286, Infnite, 59000 Lille, France; ¹⁴Vanderbilt University Medical Center, Nashville, TN, USA; ¹⁵Fox Chase Cancer Center, Philadelphia, PA, USA; ¹⁶University of Miami Sylvester Comprehensive Cancer Center, Miami, FL, USA; ¹⁷Kite, a Gilead Company, Santa Monica, CA, USA; and ¹⁸The University of Texas MD Anderson Cancer Center, Houston, TX, USA

ZUMA-5: ORR by IRRC Assessment for Patients with Follicular Lymphoma Receiving Axicabtagene Ciloleucel



- The median time to first response was 1 month (range, 0.8 – 3.1)
- Among the 25 patients with FL who initially had a PR, 13 (52%) subsequently converted to a CR after a median of 2.2 months (range, 1.9 – 11.2)

ZUMA-5: Progression-Free and Overall Survival



- With a median follow-up of 17.5 months, median PFS and median OS were not reached
 - The 12-month PFS rate was 73.7% (95% CI, 63.3 – 81.6) for all patients
 - The 12-month OS rate was 92.9% (95% CI, 85.6 – 96.5) for all patients

ZUMA-5: Cytokine Release Syndrome and Neurologic Events

Cytokine release syndrome (CRS)	FL (n = 124)	MZL (n = 22)
Any grade	78%	100%
Grade ≥3	6%	9%
Median time to onset (range)	4 (1-15) days	4 (1-9) days
Median duration of events (range)	6 (1-27) days	6 (2-14) days
Patients with resolved events	99%	100%
Neurologic events		
Any grade	56%	77%
Grade ≥3	15%	41%
Median time to onset (range)	7 (1-177) days	7 (3-19) days
Median duration of events (range)	14 (1-452) days	10 (2-81) days
Patients with resolved events	96%	82%

Oral Presentation 7508

Efficacy and Safety of Tisagenlecleucel in Adult Patients With Relapsed/Refractory Follicular Lymphoma: Primary Analysis of the Phase 2 ELARA Trial

Stephen J. Schuster,¹ Michael Dickinson,² Martin Dreyling,³ Joaquin Martinez-Lopez,⁴ Arne Kolstad,⁵ Jason Butler,⁶ Monalisa Ghosh,⁷ Leslie Popplewell,⁸ Julio C. Chavez,⁹ Emmanuel Bachy,¹⁰ Koji Kato,¹¹ Hideo Harigae,¹² Marie José Kersten,¹³ Charalambos Andreadis,¹⁴ Peter A. Riedell,¹⁵ Ahmed Abdelhady,^{16a} Aiesha Zia,¹⁷ Mony Chenda Morisse,¹⁶ Nathan Hale Fowler,^{18,19,*} Catherine Thieblemont^{20,*}

¹University of Pennsylvania, Philadelphia, PA; ²Peter MacCallum Cancer Centre and Royal Melbourne Hospital, Melbourne, Australia; ³Medizinische Klinik III, LMU Klinikum, Munich, Germany; ⁴Hospital 12 De Octubre, Complutense University, CNIO, Madrid, Spain; ⁵Oslo University Hospital, Oslo, Norway; ⁶Royal Brisbane Hospital, Herston, Australia; ⁷Michigan Medicine University of Michigan, Ann Arbor, MI; ⁸City of Hope National Medical Center, Duarte, CA; ⁹Moffitt Cancer Center, Tampa, FL; ¹⁰Hospices Civils de Lyon and Université Claude Bernard Lyon 1, Lyon, France; ¹¹Kyushu University Hospital, Fukuoka, Japan; ¹²Tohoku University Hospital, Sendai, Japan; ¹³Amsterdam UMC, University of Amsterdam, Cancer Center Amsterdam, Amsterdam, Netherlands, on behalf of HOVON/LLPC; ¹⁴Helen Diller Family Comprehensive Cancer Center, University of California San Francisco, San Francisco, CA; ¹⁵University of Chicago, Chicago, IL; ¹⁶Novartis Pharmaceuticals Corporation, East Hanover, NJ; ¹⁷Novartis Pharma AG, Basel, Switzerland; ¹⁸The University of Texas MD Anderson Cancer Center, Houston, TX; ¹⁹BostonGene, Waltham, MA; ²⁰APHP, Hôpital Saint-Louis-Université de Paris, Paris, France

*Dr Fowler and Dr Thieblemont are co-senior authors. ^aAnalysis completed while employed by Novartis Pharmaceuticals Corporation.

ELARA Primary Endpoint: Complete Response Rate by IRC

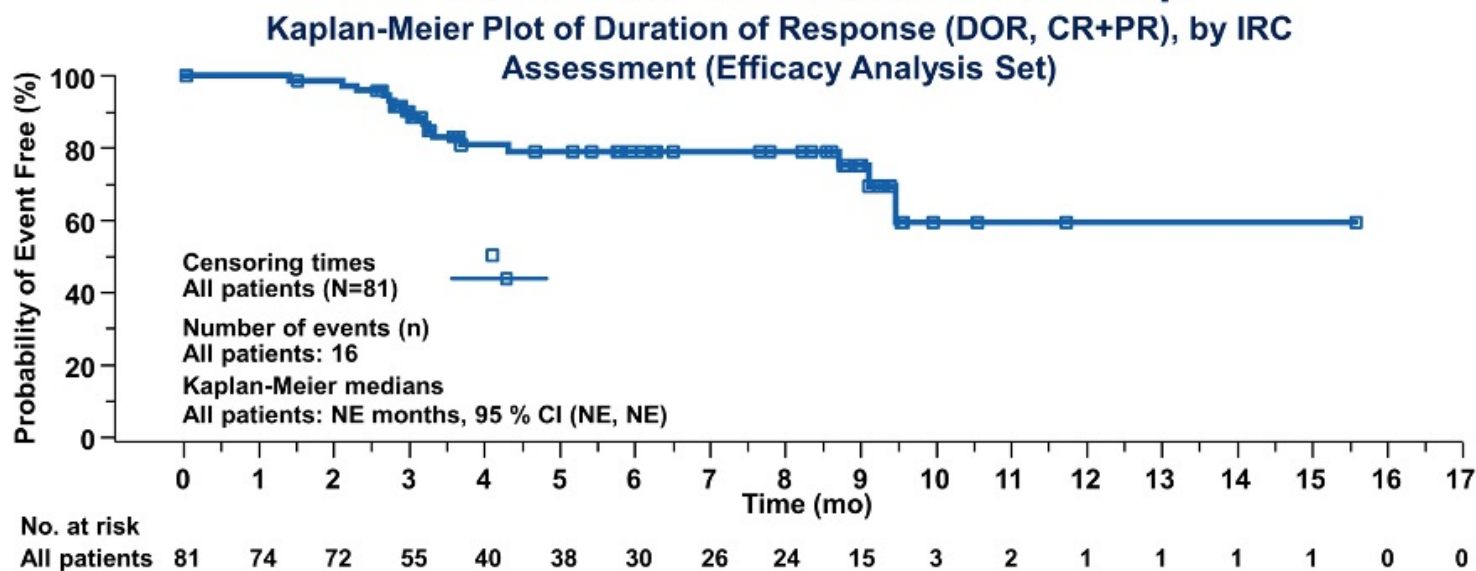
Best Overall Response Rate

Response Rate, %	Patients Evaluable for Efficacy ^b (n=94)
CR	66.0 ^b
PR	20.2
ORR (CR+PR)	86.2

- Investigator-assessed CRR was 69.1%^c (ORR 90.4%)
- CRRs/ORRs were comparable among key high-risk subgroups

- Median follow-up for efficacy (n=94): 10.9 (4.3-19.7) months
- Probability for a responding patient to remain in response ≥ 6 months was 79% (95% CI, 66-87)
- 12 of 31 PRs (38.7%) converted to CRs; all but 1 occurred between Month 3 and Month 6
- Median time to next antilymphoma treatment was not reached

Median DOR Was Not Reached at 11 Months Median Follow-Up



Mantle Cell Lymphoma

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

Eligibility criteria

- Age \geq 18 years
- High-risk LBCL
 - HGBCL, with *MYC* and *BLCL2* and/or *BCL6* translocations, or
 - LBCL with IPI score \geq 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

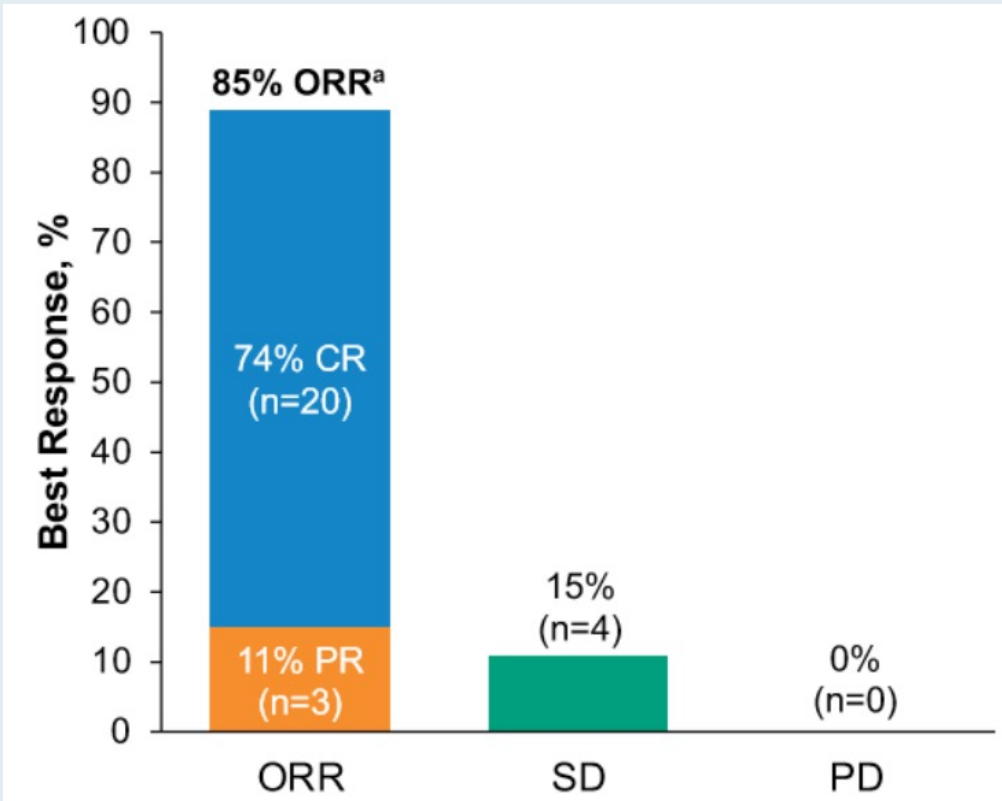
- CR^b

Key secondary endpoints

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

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

ORR and CR in response-evaluable cohort (N = 27)



Safety	CRS (N = 32)	Neurologic events (N = 32)
Any grade, n (%)	32 (100%)	22 (69%)
Grade ≥3, n (%)	3 (9%)	8 (25%)
Grade 4, n (%)	0	2 (6%)
Grade 5, n (%)	0	0
Most common any-grade symptoms, n (%)	Pyrexia: 32 (100%) Chills: 8 (25%) Hypotension: 8 (25%)	Encephalopathy: 10 (31%) Confusional state: 9 (28%)

FDA Approves Brexucabtagene Autoleucel for Relapsed or Refractory Mantle Cell Lymphoma

Press Release – July 24, 2020

“The Food and Drug Administration granted accelerated approval to brexucabtagene autoleucel, a CD19-directed genetically modified autologous T cell immunotherapy, for the treatment of adult patients with relapsed or refractory mantle cell lymphoma (MCL).

Approval was based on ZUMA-2 (NCT02601313), an open-label, multicenter, single-arm trial of 74 patients with relapsed or refractory MCL who had previously received anthracycline- or bendamustine-containing chemotherapy, an anti-CD20 antibody, and a Bruton tyrosine kinase inhibitor. Patients received a single infusion of brexucabtagene autoleucel following completion of lymphodepleting chemotherapy. The primary efficacy outcome measure was objective response rate (ORR) per Lugano [2014] criteria as assessed by an independent review committee.”

N Engl J Med 2020;382(14):1331-42

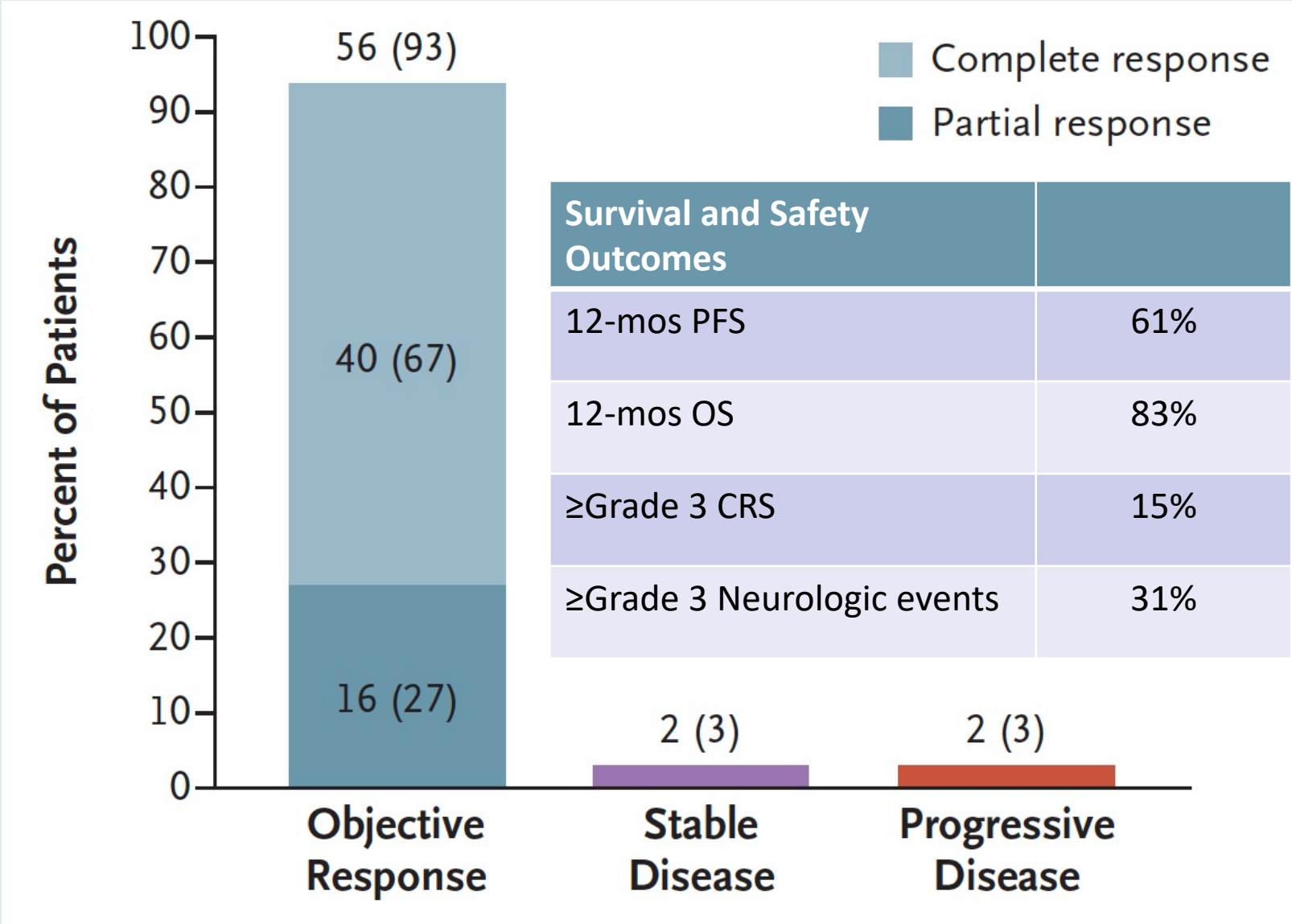
The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

KTE-X19 CAR T-Cell Therapy in Relapsed or Refractory Mantle-Cell Lymphoma

M. Wang, J. Munoz, A. Goy, F.L. Locke, C.A. Jacobson, B.T. Hill, J.M. Timmerman, H. Holmes, S. Jaglowski, I.W. Flinn, P.A. McSweeney, D.B. Miklos, J.M. Pagel, M.-J. Kersten, N. Milpied, H. Fung, M.S. Topp, R. Houot, A. Beitinjaneh, W. Peng, L. Zheng, J.M. Rossi, R.K. Jain, A.V. Rao, and P.M. Reagan

ZUMA-2: Response Rates, Survival and Select Safety Outcomes with Brexucabtagene Autoleucel for Mantle Cell Lymphoma



Wang M et al. *N Engl J Med* 2020;382(14):1331-42.



Meet The Professor

Optimizing the Selection and Sequencing of Therapy for Patients with Advanced Gastrointestinal Cancers

**Friday, September 17, 2021
12:00 PM – 1:00 PM ET**

Faculty

Philip A Philip, MD, PhD, FRCP

Moderator

Neil Love, MD

Thank you for joining us!

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