

# 13<sup>th</sup> Annual Oncology Grand Rounds

*A Complimentary NCPD Live Webinar Series  
Held During the 46<sup>th</sup> Annual ONS Congress*

## Hodgkin and Non-Hodgkin Lymphomas

**Thursday, April 22, 2021**

**5:00 PM – 6:30 PM ET**

### **Medical Oncologists**

**Stephen M Ansell, MD, PhD**

**Carla Casulo, MD**

**John P Leonard, MD**

### **Oncology Nurse Practitioners**

**Jacklyn Gideon, MSN, AGPCNP-BC**

**Robin Klebig, APRN, CNP, AOCNP**

**Mollie Moran, APRN-CNP, AOCNP**

### **Moderator**

**Neil Love, MD**

## Medical Oncologists



**Stephen M Ansell, MD, PhD**  
Professor of Medicine  
Chair, Lymphoma Group  
Mayo Clinic  
Rochester, Minnesota



**Carla Casulo, MD**  
Associate Professor of Medicine  
Division of Hematology/Oncology  
Director, Hematology/Oncology  
Fellowship Program  
University of Rochester  
Wilmot Cancer Institute  
New York, New York



**John P Leonard, MD**  
Richard T Silver Distinguished Professor of  
Hematology and Medical Oncology  
Senior Associate Dean for Innovation  
and Initiatives  
Executive Vice Chair, Joan and Sanford I Weill  
Department of Medicine  
Weill Cornell Medicine  
New York, New York

## Oncology Nurse Practitioners



**Jacklyn Gideon, MSN, AGPCNP-BC**  
Advanced Practice Provider  
Lead Apheresis APP  
Hematopoietic Cellular Therapy Program  
Section of Hematology/Oncology  
The University of Chicago Medicine and  
Biological Sciences  
Chicago, Illinois



**Robin Klebig, APRN, CNP, AOCNP**  
Nurse Practitioner  
Assistant Professor of Medicine  
Division of Hematology  
Mayo Clinic  
Rochester, Minnesota



**Mollie Moran, APRN-CNP, AOCNP**  
The James Cancer Hospital and Solove  
Research Institute  
The Ohio State University

## Commercial Support

This activity is supported by educational grants from Bristol-Myers Squibb Company, Epizyme Inc, Incyte Corporation, Novartis and Seagen Inc.

## Dr Love — Disclosures

**Dr Love** is president and CEO of Research To Practice. Research To Practice receives funds in the form of educational grants to develop CME activities from the following companies: AbbVie Inc, Adaptive Biotechnologies Corporation, Agios Pharmaceuticals Inc, Alexion Pharmaceuticals, Amgen Inc, Array BioPharma Inc, a subsidiary of Pfizer Inc, Astellas, AstraZeneca Pharmaceuticals LP, Aveo Pharmaceuticals, Bayer HealthCare Pharmaceuticals, BeiGene Ltd, Blueprint Medicines, Boehringer Ingelheim Pharmaceuticals Inc, Bristol-Myers Squibb Company, Celgene Corporation, Clovis Oncology, Daiichi Sankyo Inc, Eisai Inc, Epizyme Inc, Exact Sciences Inc, Exelixis Inc, Five Prime Therapeutics Inc, Foundation Medicine, Genentech, a member of the Roche Group, Gilead Sciences Inc, GlaxoSmithKline, Grail Inc, Halozyme Inc, Helsinn Healthcare SA, ImmunoGen Inc, Incyte Corporation, Ipsen Biopharmaceuticals Inc, Janssen Biotech Inc, administered by Janssen Scientific Affairs LLC, Jazz Pharmaceuticals Inc, Karyopharm Therapeutics, Kite, A Gilead Company, Lilly, Loxo Oncology Inc, a wholly owned subsidiary of Eli Lilly & Company, Merck, Novartis, Novocure Inc, Oncopeptides, Pfizer Inc, Pharmacyclics LLC, an AbbVie Company, Puma Biotechnology Inc, Regeneron Pharmaceuticals Inc, Sanofi Genzyme, Seagen Inc, Sumitomo Dainippon Pharma Oncology Inc, Taiho Oncology Inc, Takeda Oncology, Tesaro, A GSK Company, Turning Point Therapeutics Inc and Verastem Inc.



# Research To Practice CME Planning Committee Members, Staff and Reviewers

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

## Dr Ansell — Disclosures

<b>Contracted Research to Institution</b>	ADC Therapeutics SA, Affimed, Bristol-Myers Squibb Company, Regeneron Pharmaceuticals Inc, Seagen Inc, Takeda Oncology, Trillium Therapeutics Inc
---	---

## Dr Casulo — Disclosures

No relevant conflicts of interest to disclose.

## Dr Leonard — Disclosures

<b>Consulting Agreements</b>	AbbVie Inc, AstraZeneca Pharmaceuticals LP, Bayer HealthCare Pharmaceuticals, Bristol-Myers Squibb Company, Celgene Corporation, Epizyme Inc, Genentech, a member of the Roche Group, Genmab, Gilead Sciences Inc, Incyte Corporation, Karyopharm Therapeutics, Kite, A Gilead Company, Miltenyi Biotec, Regeneron Pharmaceuticals Inc, Sutro Biopharma
<b>Contracted Research</b>	Epizyme Inc, Genentech Foundation, Janssen Biotech Inc

## Ms Gideon — Disclosures

No relevant conflicts of interest to disclose.

## Ms Klebig — Disclosures

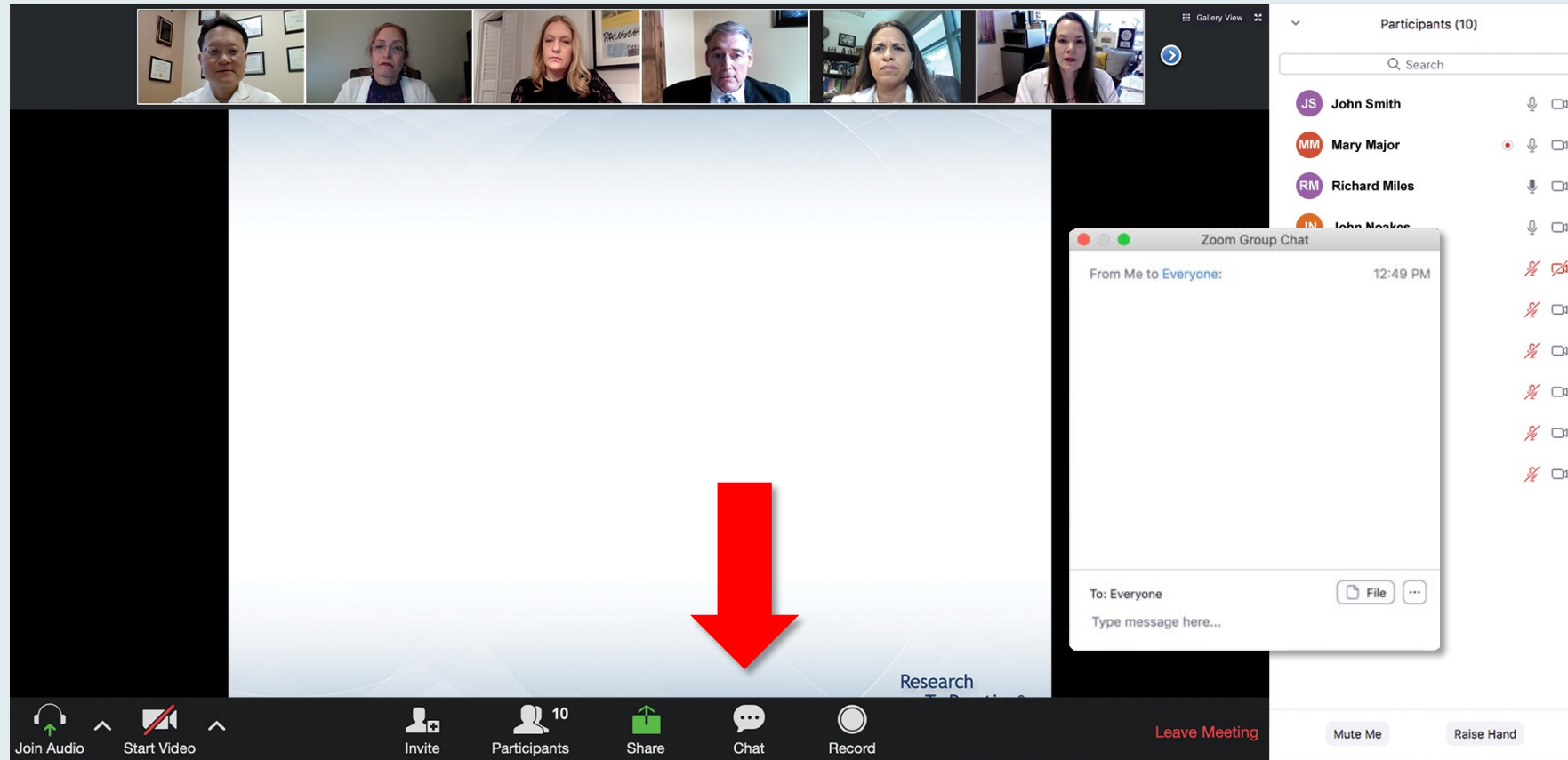
No relevant conflicts of interest to disclose.

## Ms Moran — Disclosures

No relevant conflicts of interest to disclose.



# We Encourage Clinicians in Practice to Submit Questions



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

# Familiarizing Yourself with the Zoom Interface

## How to answer poll questions

The screenshot displays a Zoom meeting interface. At the top, a gallery view shows six participants. The main screen displays a poll question: "What is your usual treatment recommendation for a patient with MM who has been followed by ASCT for 1-2 years who then experiences an asymptomatic relapse?". Below the question is a list of ten treatment options, each preceded by a number. A "Quick Poll" overlay is visible, showing a list of radio button options corresponding to the poll choices. The bottom of the screen features a toolbar with icons for "Join Audio", "Start Video", "Invite", "Participants" (showing 10), "Share", "Chat", "Record", and a "Leave Meeting" button. On the right side, a "Participants (10)" list is shown, including names like John Smith, Mary Major, Richard Miles, John Noakes, Alice Suarez, Jane Perez, Robert Stiles, Juan Fernandez, Ashok Kumar, and Jeremy Smith, each with a status icon.

What is your usual treatment recommendation for a patient with MM who has been followed by ASCT for 1-2 years who then experiences an asymptomatic relapse?

Quick Poll

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

Submit

Co-provided by USF Health Research To Practice®

Join Audio Start Video Invite Participants 10 Share Chat Record Leave Meeting Mute Me Raise Hand

Participants (10)

Search

- 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







When a poll question pops up, click your answer choice from the available options.

# Familiarizing Yourself with the Zoom Interface

## Expand chat submission box

The screenshot displays a Zoom meeting interface. At the top, a video bar shows participants: RTP Coordinat..., Kirsten Miller, RTP Mike Rivera, and Lisa Suarez. Below the video bar, a 'Recording...' indicator is visible. The main content area shows a presentation slide titled 'Meet The Professor Program Steering Committee'. The slide lists six members of the steering committee, each with a portrait photo and their name and affiliation. The chat window on the right is open, showing messages from 'Me to Panelists' and 'Me to Panelists and Attendees'. A red arrow points to the white line above the chat submission box, indicating where to drag to expand the box.

**Meet The Professor Program Steering Committee**

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

**Chat**

Me to Panelists 4:31 PM

Welcome and thank you for attending! To access the slides from today's session please use the link below.  
[http://images.researchtopractice.com/2021/Meetings/Slides/MTP\\_ToGo\\_CLL\\_2021\\_April1.pdf](http://images.researchtopractice.com/2021/Meetings/Slides/MTP_ToGo_CLL_2021_April1.pdf)

Me to Panelists and Attendees 4:32 PM

Welcome and thank you for attending! To access the slides from today's session please use the link below.  
[http://images.researchtopractice.com/2021/Meetings/Slides/MTP\\_ToGo\\_CLL\\_2021\\_April1.pdf](http://images.researchtopractice.com/2021/Meetings/Slides/MTP_ToGo_CLL_2021_April1.pdf)

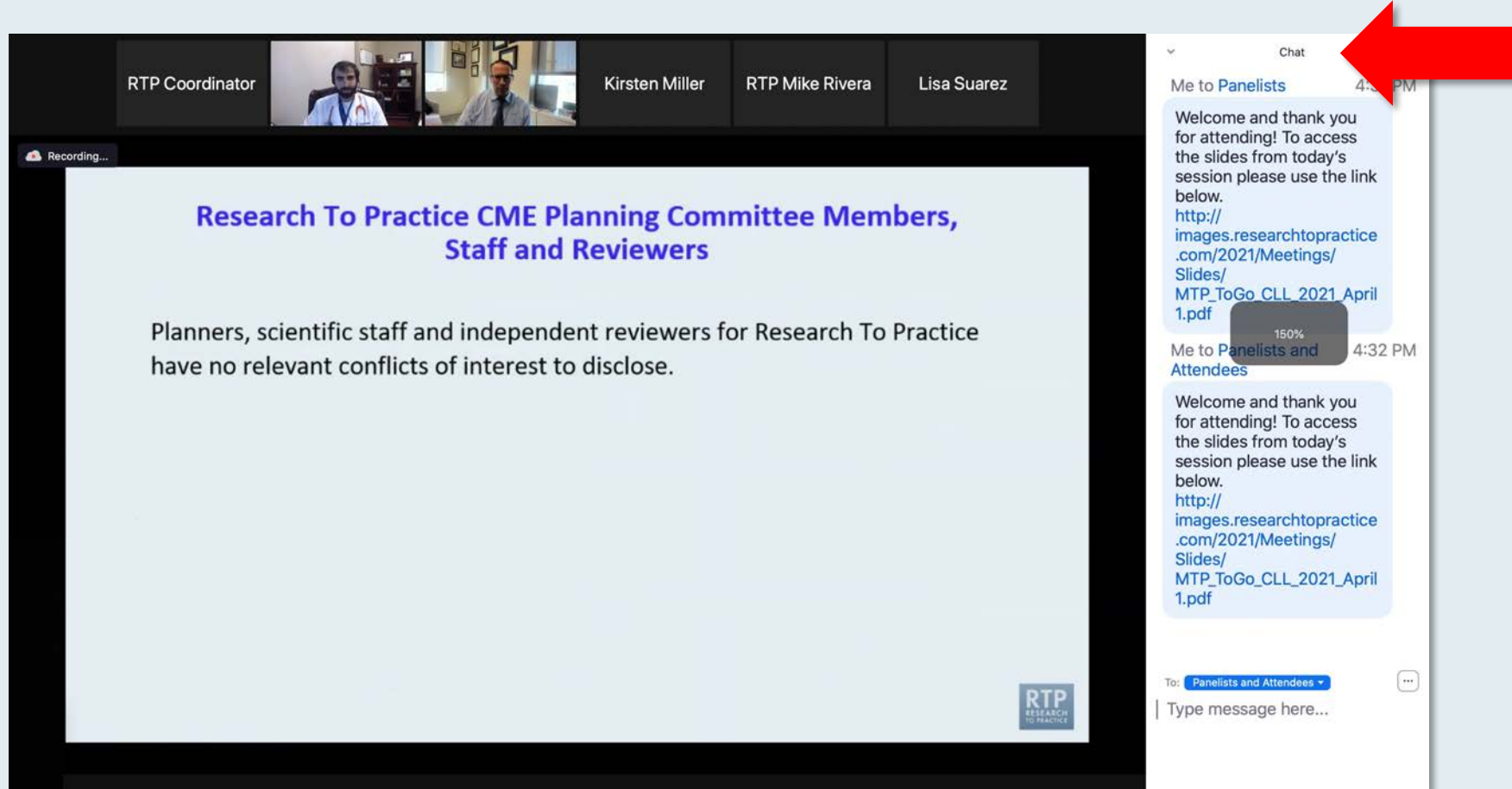
To: Panelists and Attendees ▼

Type message here...

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



**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



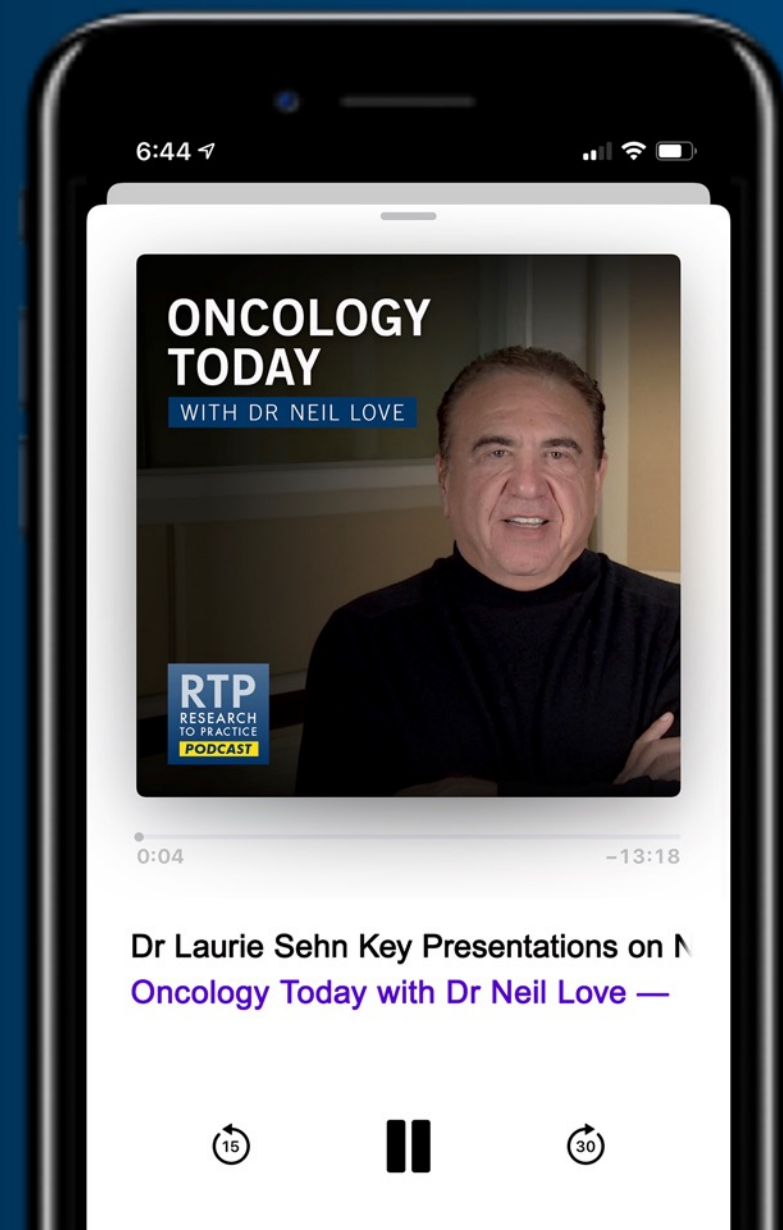
Listen on  
Apple Podcasts



Spotify®



Listen on  
Google Podcasts



# 13<sup>th</sup> Annual Oncology Grand Rounds

*A Complimentary NCPD Live Webinar Series Held During the 46<sup>th</sup> Annual ONS Congress*

## **Breast Cancer**

**Tuesday, April 20, 2021**

8:30 AM – 10:00 AM ET

## **Non-Small Cell Lung Cancer**

**Tuesday, April 20, 2021**

5:00 PM – 6:30 PM ET

## **Acute Myeloid Leukemia**

**Wednesday, April 21, 2021**

12:00 PM – 1:00 PM ET

## **Colorectal and Gastroesophageal Cancers**

**Wednesday, April 21, 2021**

4:45 PM – 5:45 PM ET

## **Prostate Cancer**

**Thursday, April 22, 2021**

8:30 AM – 10:00 AM ET

## **Hodgkin and Non-Hodgkin Lymphomas**

**Thursday, April 22, 2021**

5:00 PM – 6:30 PM ET

## **Multiple Myeloma**

**Tuesday, April 27, 2021**

8:30 AM – 10:00 AM ET

## **Gynecologic Cancers**

**Tuesday, April 27, 2021**

5:00 PM – 6:30 PM ET

## **Urothelial Bladder Carcinoma**

**Wednesday, April 28, 2021**

12:00 PM – 1:00 PM ET

## **Chronic Lymphocytic Lymphoma**

**Thursday, April 29, 2021**

8:30 AM – 10:00 AM ET

## **Chimeric Antigen Receptor T-Cell Therapy**

**Thursday, April 29, 2021**

5:00 PM – 6:30 PM ET

# **Ask the Expert: Clinical Investigators Provide Perspectives on the Management of Renal Cell Carcinoma**

*In Partnership with Project Echo® and Florida Cancer Specialists*

**Tuesday, May 4, 2021  
5:00 PM – 6:00 PM ET**

## **Faculty**

**Chung-Han Lee, MD, PhD**

## **Moderator**

**Neil Love, MD**



# **Current Concepts and Recent Advances in Oncology**

*A Daylong Clinical Summit Hosted in  
Partnership with Medical Oncology  
Association of Southern California (MOASC)*

**Saturday, May 15, 2021  
10:30 AM – 6:30 PM ET**

# Saturday, May 15, 2021

**10:30 AM — Breast Cancer**

**Ruth O'Regan, Tiffany A Traina**

**11:30 AM — Multiple Myeloma**

**Kenneth Anderson, Noopur Raje**

**12:50 PM — Chronic Lymphocytic Leukemia and Lymphomas**

**Craig Moskowitz, Jeff Sharman**

**1:50 PM — Genitourinary Cancers**

**Joaquim Bellmunt, Sumanta Kumar Pal**

**Saturday, May 15, 2021**

**3:15 PM — Gastrointestinal Cancers**

**Wells A Messersmith, Eileen M O'Reilly**

**4:15 PM — Acute Myeloid Leukemia and Myelodysplastic Syndromes**

**Harry Paul Erba, Rami Komrokji**

**5:35 PM — Lung Cancer**

**D Ross Camidge, Benjamin Levy**

# **Up for Debate: Oncology Investigators Provide Their Take on Current Controversies in Patient Care**

*A Daylong Multitumor Educational Webinar  
in Partnership with Florida Cancer Specialists*

**Saturday, May 22, 2021  
10:15 AM – 4:15 PM ET**

# Saturday, May 22, 2021

**10:15 AM — Lung Cancer**

**John V Heymach, Stephen V Liu**

**11:30 AM — Genitourinary Cancers**

**Maha Hussain, Elizabeth R Plimack**

**12:45 PM — Chronic Lymphocytic Leukemia and Lymphomas**

**Jonathan W Friedberg, Laurie H Sehn**

**2:00 PM — Multiple Myeloma**

**Irene M Ghobrial, Sagar Lonial**

**3:15 PM — Breast Cancer**

**Virginia Kaklamani, Nancy U Lin**

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

***NCPD credit information will be emailed  
to each participant shortly.***

# 13<sup>th</sup> Annual Oncology Grand Rounds

*A Complimentary NCPD Live Webinar Series  
Held During the 46<sup>th</sup> Annual ONS Congress*

## Hodgkin and Non-Hodgkin Lymphomas

**Thursday, April 22, 2021**

**5:00 PM – 6:30 PM ET**

### Medical Oncologists

**Stephen M Ansell, MD, PhD**

**Carla Casulo, MD**

**John P Leonard, MD**

### Oncology Nurse Practitioners

**Jacklyn Gideon, MSN, AGPCNP-BC**

**Robin Klebig, APRN, CNP, AOCNP**

**Mollie Moran, APRN-CNP, AOCNP**

### Moderator

**Neil Love, MD**



## Medical Oncologists



**Stephen M Ansell, MD, PhD**  
Professor of Medicine  
Chair, Lymphoma Group  
Mayo Clinic  
Rochester, Minnesota



**Carla Casulo, MD**  
Associate Professor of Medicine  
Division of Hematology/Oncology  
Director, Hematology/Oncology  
Fellowship Program  
University of Rochester  
Wilmot Cancer Institute  
New York, New York



**John P Leonard, MD**  
Richard T Silver Distinguished Professor of  
Hematology and Medical Oncology  
Senior Associate Dean for Innovation  
and Initiatives  
Executive Vice Chair, Joan and Sanford I Weill  
Department of Medicine  
Weill Cornell Medicine  
New York, New York

## Oncology Nurse Practitioners



**Jacklyn Gideon, MSN, AGPCNP-BC**  
Advanced Practice Provider  
Lead Apheresis APP  
Hematopoietic Cellular Therapy Program  
Section of Hematology/Oncology  
The University of Chicago Medicine and  
Biological Sciences  
Chicago, Illinois

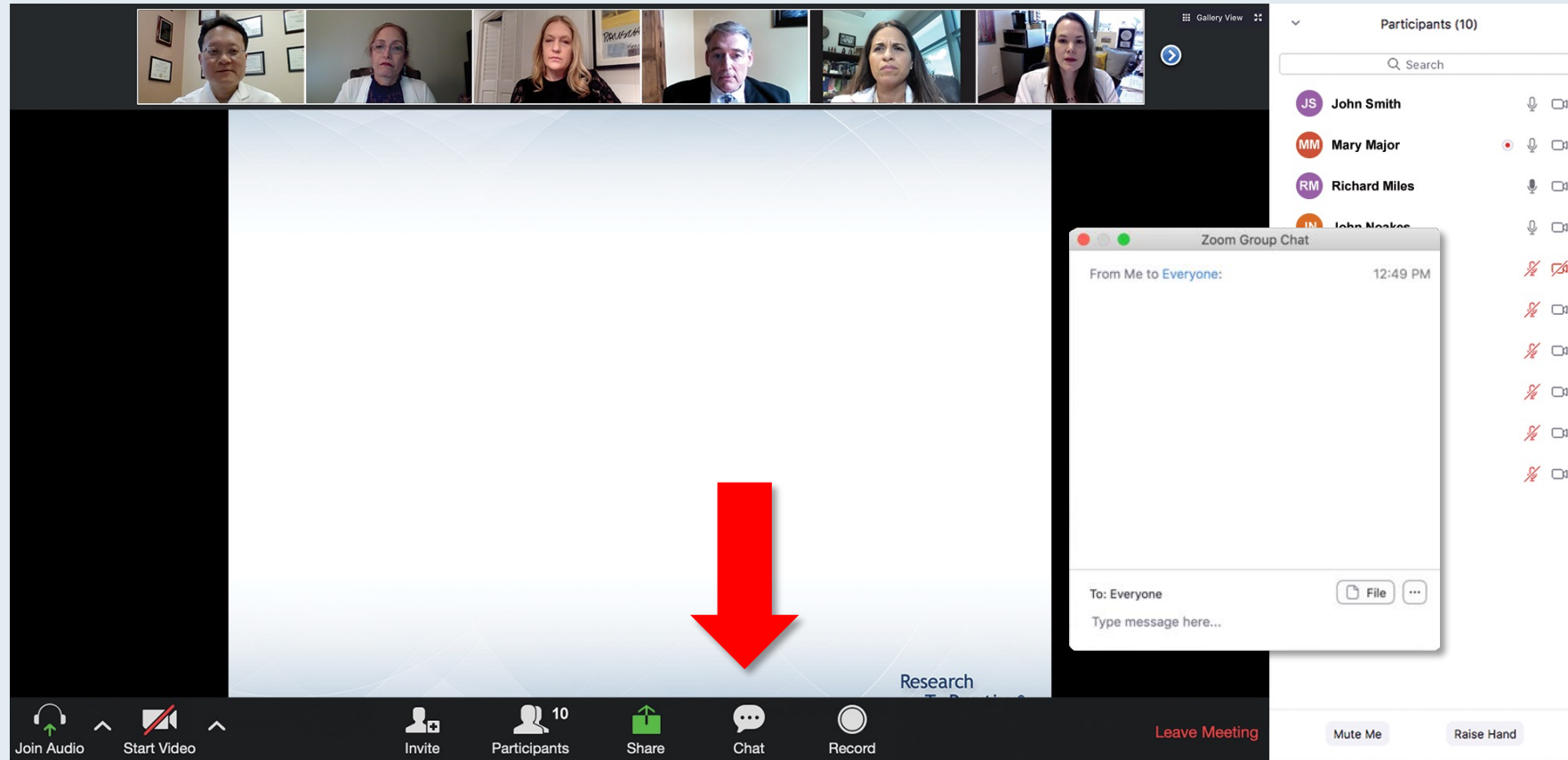


**Robin Klebig, APRN, CNP, AOCNP**  
Nurse Practitioner  
Assistant Professor of Medicine  
Division of Hematology  
Mayo Clinic  
Rochester, Minnesota



**Mollie Moran, APRN-CNP, AOCNP**  
The James Cancer Hospital and Solove  
Research Institute  
The Ohio State University

# We Encourage Clinicians in Practice to Submit Questions



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

# Familiarizing Yourself with the Zoom Interface

## How to answer poll questions

The screenshot displays a Zoom meeting interface. At the top, a gallery view shows six participants. The main screen displays a poll question: "What is your usual treatment recommendation for a patient with MM who has been followed by ASCT for 1-5 years who then experiences an asymptomatic relapse?". Below the question is a list of ten treatment options, each preceded by a number. A "Quick Poll" overlay is visible, showing a list of radio button options corresponding to the poll choices. The bottom of the screen features a toolbar with icons for "Join Audio", "Start Video", "Invite", "Participants" (showing 10), "Share", "Chat", "Record", and a "Leave Meeting" button. On the right side, a "Participants (10)" list is shown, including names like John Smith, Mary Major, Richard Miles, John Noakes, Alice Suarez, Jane Perez, Robert Stiles, Juan Fernandez, Ashok Kumar, and Jeremy Smith, each with a status icon.

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

Quick Poll

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

Submit

Co-provided by USF Health Research To Practice®

Join Audio Start Video Invite Participants 10 Share Chat Record Leave Meeting Mute Me Raise Hand

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

When a poll question pops up, click your answer choice from the available options.

# **Current Concepts and Recent Advances in Oncology**

*A Daylong Clinical Summit Hosted in  
Partnership with Medical Oncology  
Association of Southern California (MOASC)*

**Saturday, May 15, 2021  
10:30 AM – 6:30 PM ET**

**Saturday, May 15, 2021**

**10:30 AM — Breast Cancer**

**Ruth O'Regan, Tiffany A Traina**

**11:30 AM — Multiple Myeloma**

**Kenneth Anderson, Noopur Raje**

**12:50 PM — Chronic Lymphocytic Leukemia and Lymphomas**

**Craig Moskowitz, Jeff Sharman**

**1:50 PM — Genitourinary Cancers**

**Joaquim Bellmunt, Sumanta Kumar Pal**

**Saturday, May 15, 2021**

**3:15 PM — Gastrointestinal Cancers**

**Wells A Messersmith, Eileen M O'Reilly**

**4:15 PM — Acute Myeloid Leukemia and Myelodysplastic Syndromes**

**Harry Paul Erba, Rami Komrokji**

**5:35 PM — Lung Cancer**

**D Ross Camidge, Benjamin Levy**

# **Up for Debate: Oncology Investigators Provide Their Take on Current Controversies in Patient Care**

*A Daylong Multitumor Educational Webinar  
in Partnership with Florida Cancer Specialists*

**Saturday, May 22, 2021  
10:15 AM – 4:15 PM ET**



# Saturday, May 22, 2021

**10:15 AM — Lung Cancer**

**John V Heymach, Stephen V Liu**

**11:30 AM — Genitourinary Cancers**

**Maha Hussain, Elizabeth R Plimack**

**12:45 PM — Chronic Lymphocytic Leukemia and Lymphomas**

**Jonathan W Friedberg, Laurie H Sehn**

**2:00 PM — Multiple Myeloma**

**Irene M Ghobrial, Sagar Lonial**

**3:15 PM — Breast Cancer**

**Virginia Kaklamani, Nancy U Lin**

# 13<sup>th</sup> Annual Oncology Grand Rounds

*A Complimentary NCPD Live Webinar Series Held During the 46<sup>th</sup> Annual ONS Congress*

## **Breast Cancer**

**Tuesday, April 20, 2021**

8:30 AM – 10:00 AM ET

## **Non-Small Cell Lung Cancer**

**Tuesday, April 20, 2021**

5:00 PM – 6:30 PM ET

## **Acute Myeloid Leukemia**

**Wednesday, April 21, 2021**

12:00 PM – 1:00 PM ET

## **Colorectal and Gastroesophageal Cancers**

**Wednesday, April 21, 2021**

4:45 PM – 5:45 PM ET

## **Prostate Cancer**

**Thursday, April 22, 2021**

8:30 AM – 10:00 AM ET

## **Hodgkin and Non-Hodgkin Lymphomas**

**Thursday, April 22, 2021**

5:00 PM – 6:30 PM ET

## **Multiple Myeloma**

**Tuesday, April 27, 2021**

8:30 AM – 10:00 AM ET

## **Gynecologic Cancers**

**Tuesday, April 27, 2021**

5:00 PM – 6:30 PM ET

## **Urothelial Bladder Carcinoma**

**Wednesday, April 28, 2021**

12:00 PM – 1:00 PM ET

## **Chronic Lymphocytic Lymphoma**

**Thursday, April 29, 2021**

8:30 AM – 10:00 AM ET

## **Chimeric Antigen Receptor T-Cell Therapy**

**Thursday, April 29, 2021**

5:00 PM – 6:30 PM ET

# Medical Oncologists



**Jeremy Abramson, MD**

Director, Center for Lymphoma  
Massachusetts General Hospital  
Associate Professor of Medicine  
Harvard Medical School  
Boston, Massachusetts



**Johanna Bendell, MD**

Chief Development Officer  
Director, Drug Development Unit Nashville  
Sarah Cannon Research Institute  
Tennessee Oncology  
Nashville, Tennessee



**Carey K Anders, MD**

Professor of Medicine  
Medical Director of the Duke Center  
of Brain and Spine Metastases  
Duke Cancer Institute  
Durham, North Carolina



**Carla Casulo, MD**

Associate Professor of Medicine  
Division of Hematology/Oncology  
Director, Hematology/Oncology  
Fellowship Program  
University of Rochester  
Wilmot Cancer Institute  
New York, New York



**Stephen M Ansell, MD, PhD**

Professor of Medicine  
Chair, Lymphoma Group  
Mayo Clinic  
Rochester, Minnesota

# Medical Oncologists



**Daniel Catenacci, MD**

Associate Professor, Department of Medicine  
Section of Hematology and Oncology  
Director, Interdisciplinary Gastrointestinal  
Oncology Program  
Assistant Director, Translational Research  
Comprehensive Cancer Center  
The University of Chicago Medical Center and  
Biological Sciences  
Chicago, Illinois



**Courtney D DiNardo, MD, MSCE**

Associate Professor, Department of Leukemia  
Division of Cancer Medicine  
The University of Texas MD Anderson Cancer Center  
Houston, Texas



**Robert L Coleman, MD**

Chief Scientific Officer  
US Oncology Research  
Gynecologic Oncology  
The Woodlands, Texas



**Elisabeth I Heath, MD**

Associate Center Director, Translational Sciences  
Chair, Genitourinary Oncology Multidisciplinary Team  
Professor of Oncology and Medicine  
Hartmann Endowed Chair for Prostate Cancer Research  
Director, Prostate Cancer Research  
Karmanos Cancer Institute  
Wayne State University School of Medicine  
Detroit, Michigan

# Medical Oncologists



**Thomas J Herzog, MD**

Paul and Carolyn Flory Professor  
Deputy Director, University of Cincinnati  
Cancer Center  
Vice-Chair, Quality and Safety  
Department of Obstetrics and Gynecology  
University of Cincinnati Medical Center  
Associate Director, GOG Partners  
Cincinnati, Ohio



**John V Heymach, MD, PhD**

Professor and Chair  
Thoracic/Head and Neck Medical Oncology  
The University of Texas MD Anderson Cancer Center  
Houston, Texas



**Brian T Hill, MD, PhD**

Director, Lymphoid Malignancy Program  
Cleveland Clinic Taussig Cancer Institute  
Cleveland, Ohio



**Caron Jacobson, MD**

Assistant Professor of Medicine  
Harvard Medical School  
Dana-Farber Cancer Institute  
Boston, Massachusetts



**Shaji K Kumar, MD**

Mark and Judy Mullins Professor of  
Hematological Malignancies  
Consultant, Division of Hematology  
Professor of Medicine  
Mayo Clinic  
Rochester, Minnesota



**John P Leonard, MD**

Richard T Silver Distinguished Professor of  
Hematology and Medical Oncology  
Senior Associate Dean for Innovation and Initiatives  
Executive Vice Chair, Joan and Sanford I Weill  
Department of Medicine  
Weill Cornell Medicine  
New York, New York

# Medical Oncologists



**Sagar Lonial, MD**

Chair and Professor  
Department of Hematology and Medical Oncology  
Anne and Bernard Gray Family Chair in Cancer  
Chief Medical Officer  
Winship Cancer Institute  
Emory University School of Medicine  
Atlanta, Georgia



**Paul K Paik, MD**

Associate Attending Physician  
Clinical Director, Thoracic Oncology Service  
Memorial Sloan Kettering Cancer Center  
New York, New York



**Kathy D Miller, MD**

Ballvé-Lantero Professor  
Division of Hematology/Oncology  
Associate Director for Clinical Research  
The Indiana University Melvin and Bren Simon  
Cancer Center  
Indianapolis, Indiana



**Daniel P Petrylak, MD**

Professor of Internal Medicine  
(Medical Oncology) and Urology  
Yale School of Medicine  
New Haven, Connecticut



**John M Pagel, MD, PhD**

Chief of Hematologic Malignancies Program  
Center for Blood Disorders and Stem Cell  
Transplantation  
Swedish Cancer Institute  
Seattle, Washington



**Zofia Piotrowska, MD, MHS**

Assistant Professor of Medicine  
Harvard Medical School  
Massachusetts General Hospital  
Boston, Massachusetts



# Medical Oncologists



**Noopur Raje, MD**

Director, Center for Multiple Myeloma  
Massachusetts General Hospital Cancer Center  
Professor of Medicine  
Harvard Medical School  
Boston, Massachusetts



**A Oliver Sartor, MD**

CE and Bernadine Laborde Professor for  
Cancer Research  
Medical Director, Tulane Cancer Center  
Assistant Dean for Oncology  
Tulane Medical School  
New Orleans, Louisiana



**Paul G Richardson, MD**

Clinical Program Leader and Director of  
Clinical Research  
Jerome Lipper Multiple Myeloma Center  
Dana-Farber Cancer Institute  
RJ Corman Professor of Medicine  
Harvard Medical School  
Boston, Massachusetts



**Eytan M Stein, MD**

Assistant Attending Physician  
Director, Program for Drug Development in Leukemia  
Leukemia Service, Department of Medicine  
Memorial Sloan Kettering Cancer Center  
New York, New York



**Charles J Ryan, MD**

Professor of Medicine  
BJ Kennedy Chair in Clinical Medical Oncology  
Director, Division of Hematology, Oncology  
and Transplantation  
University of Minnesota  
Minneapolis, Minnesota



**Mary-Ellen Taplin, MD**

Professor of Medicine  
Harvard School of Medicine  
Dana-Farber Cancer Institute  
Boston, Massachusetts

# Medical Oncologists



**Krishnansu S Tewari, MD**

Professor and Division Director  
Division of Gynecologic Oncology  
University of California, Irvine  
Irvine, California



**Jennifer Woyach, MD**

Professor  
Division of Hematology  
Department of Internal Medicine  
The Ohio State University Comprehensive  
Cancer Center  
Columbus, Ohio



**Sara M Tolaney, MD, MPH**

Associate Director  
Susan F Smith Center for Women's Cancers  
Director of Clinical Trials, Breast Oncology  
Director of Breast Immunotherapy Clinical Research  
Senior Physician  
Breast Oncology Program  
Dana-Farber Cancer Institute  
Associate Professor of Medicine  
Harvard Medical School  
Boston, Massachusetts



# Oncology Nurse Practitioners



**Paula J Anastasia, MN, RN, AOCN**  
GYN Oncology Advanced Practice Nurse  
University of California, Los Angeles  
Los Angeles, California



**Kristen E Battiato, AGNP-C**  
Advanced Practice Providers  
Memorial Sloan Kettering Cancer Center  
New York, New York



**Courtney Arn, CNP**  
The James Cancer Hospital and  
Solove Research Institute  
The Ohio State University  
Columbus, Ohio



**Kathy D Burns, RN, MSN, AGACNP-BC, OCN**  
GU Medical Oncology  
City of Hope Comprehensive Cancer Center  
Duarte, California



**Monica Averia, MSN, AOCNP, NP-C**  
Oncology Nurse Practitioner  
USC Norris Cancer Center  
Los Angeles, California



**Gretchen Santos Fulgencio, MSN, FNP-BC**  
University of California, San Francisco  
Berkeley, California



**Lesley Camille Ballance, MSN, FNP-BC**  
Sarah Cannon Center for Blood Cancer  
Tennessee Oncology  
Nashville, Tennessee



**Ilene Galinsky, NP**  
Senior Adult Leukemia Program Research  
Nurse Practitioner  
Dana-Farber Cancer Institute  
Boston, Massachusetts

# Oncology Nurse Practitioners



**Jacklyn Gideon, MSN, AGPCNP-BC**  
Advanced Practice Provider  
Lead Apheresis APP  
Hematopoietic Cellular Therapy Program  
Section of Hematology/Oncology  
The University of Chicago Medicine and  
Biological Sciences  
Chicago, Illinois



**Kelly EH Goodwin, MSN, RN, ANP-BC**  
Thoracic Cancer Center  
Massachusetts General Hospital  
Boston, Massachusetts



**Charise Gleason, MSN, NP-C, AOCNP**  
Advanced Practice Provider Chief  
Winship Cancer Institute of Emory University  
Adjunct Faculty, Nell Hodgson Woodruff  
School of Nursing  
Atlanta, Georgia



**Allie Hershey, MSN, RN, ANP-BC, AOCNP**  
Oncology Nurse Practitioner, Breast Oncology  
Susan F Smith Center for Women's Cancers  
Dana-Farber Cancer Institute  
Boston, Massachusetts



**Sonia Glennie, ARNP, MSN, OCN**  
Swedish Cancer Institute Center for  
Blood Disorders  
Seattle, Washington



**Corinne Hoffman, MS, APRN-CNP, AOCNP**  
Nurse Practitioner, Hematology  
The James Comprehensive Cancer Center  
The Ohio State University Wexner Medical Center  
Columbus, Ohio

# Oncology Nurse Practitioners



**Robin Klebig, APRN, CNP, AOCNP**  
Nurse Practitioner  
Assistant Professor of Medicine  
Division of Hematology  
Mayo Clinic  
Rochester, Minnesota



**Brenda Martone, MSN, NP-BC, AOCNP**  
Northwestern Medicine  
Northwestern Memorial Hospital  
Chicago, Illinois



**Kelly Leonard, MSN, FNP-BC**  
Family Nurse Practitioner  
Dana-Farber Cancer Institute  
Boston, Massachusetts



**Alli McClanahan, MSN, APRN, ANP-BC**  
Nurse Practitioner  
Division of Hematology  
Mayo Clinic  
Rochester, Minnesota



**Jessica Mitchell, APRN, CNP, MPH**  
Assistant Professor of Oncology  
Mayo Clinic College of Medicine and Science  
Rochester, Minnesota



**Patricia Mangan, RN, MSN, CRNP, APN, BC**  
Nurse Lead, Hematologic Malignancies and  
Stem Cell Transplant Programs  
Abramson Cancer Center  
University of Pennsylvania  
Philadelphia, Pennsylvania



**Mollie Moran, APRN-CNP, AOCNP**  
The James Cancer Hospital and Solove  
Research Institute  
The Ohio State University  
Columbus, Ohio

# Oncology Nurse Practitioners



**Tara Plues, APRN, MSN**  
Hematology and Medical Oncology  
Cleveland Clinic  
Cleveland, Ohio



**Kimberly A Spickes, MNSc, RN, APRN, OCN, ACNP-BC**  
Nurse Practitioner  
UAMS Division of Gynecologic Oncology  
University of Arkansas for Medical Sciences  
Little Rock, Arkansas



**Tiffany A Richards, PhD, ANP-BC, AOCNP**  
Nurse Practitioner  
Department of Lymphoma/Myeloma  
The University of Texas  
MD Anderson Cancer Center  
Houston, Texas



**Ronald Stein, JD, MSN, NP-C, AOCNP**  
Clinical Instructor of Medicine  
USC Norris Comprehensive Cancer Center  
Los Angeles, California



**Victoria Sherry, DNP, CRNP, AOCNP**  
Oncology Nurse Practitioner for Thoracic  
Malignancies  
Abramson Cancer Center  
Perelman Center for Advanced Medicine  
University of Pennsylvania Medical Center  
Faculty, University of Pennsylvania School of Nursing  
Philadelphia, Pennsylvania



**Elizabeth Zerante, MS, AGACNP-BC**  
APN Inpatient Hematopoietic Cellular  
Therapy Service  
University of Chicago Medicine  
Chicago, Illinois



# Oncology Grand Rounds Nursing Webinar Series

Monday	Tuesday	Wednesday	Thursday	Friday
19	20	21	22	23
	<b>Breast Ca</b> <b>8:30 AM</b> <hr/> <b>Lung Ca</b> <b>5:00 PM</b>	<b>AML</b> <b>12:00 PM</b> <hr/> <b>CRC and GE Ca</b> <b>4:45 PM</b>	<b>Prostate Ca</b> <b>8:30 AM</b> <hr/> <b>Lymphomas</b> <b>5:00 PM</b>	
26	27	28	29	30
	<b>Multiple Myeloma</b> <b>8:30 AM</b> <hr/> <b>GYN</b> <b>5:00 PM</b>	<b>Bladder Ca</b> <b>12:00 PM</b>	<b>CLL</b> <b>8:30 AM</b> <hr/> <b>CAR-T</b> <b>5:00 PM</b>	







# 13<sup>th</sup> Annual Oncology Grand Rounds

## **Oncology Nurse Practitioners**

### ***Case Presentations***

- Key patient-education issues
- Biopsychosocial considerations:
  - Family/loved ones
  - The bond that heals

## **Clinical Investigators**

### ***Oncology Strategy***

- New agents and regimens
- Predictive biomarkers
- Ongoing research and implications



# 13<sup>th</sup> Annual Oncology Grand Rounds

*A Complimentary NCPD Live Webinar Series  
Held During the 46<sup>th</sup> Annual ONS Congress*

## Hodgkin and Non-Hodgkin Lymphomas

**Thursday, April 22, 2021**

**5:00 PM – 6:30 PM ET**

### Medical Oncologists

**Stephen M Ansell, MD, PhD**

**Carla Casulo, MD**

**John P Leonard, MD**

### Oncology Nurse Practitioners

**Jacklyn Gideon, MSN, AGPCNP-BC**

**Robin Klebig, APRN, CNP, AOCNP**

**Mollie Moran, APRN-CNP, AOCNP**

### Moderator

**Neil Love, MD**



Jacklyn Gideon, MSN, AGPCNP-BC



Robin Klebig, APRN, CNP, AOCNP



Mollie Moran, APRN-CNP, AOCNP

# Agenda

**Case 1 (Ms Moran): A 27-year-old woman with Hodgkin lymphoma**

**Case 2 (Ms Klebig): A 76-year-old man with newly diagnosed follicular lymphoma**

**Case 3 (Ms Klebig): An 83-year-old woman with relapsed DLBCL**

**Case 4 (Ms Gideon): A 66-year-old woman with relapsed DLBCL**

**Case 5 (Ms Gideon): A 70-year-old man with relapsed mantle cell lymphoma**

# Communicating bad news



**Robin Klebig, APRN, CNP, AOCNP**

# Agenda

**Case 1 (Ms Moran): A 27-year-old woman with Hodgkin lymphoma**

**Case 2 (Ms Klebig): A 76-year-old man with newly diagnosed follicular lymphoma**

**Case 3 (Ms Klebig): An 83-year-old woman with relapsed DLBCL**

**Case 4 (Ms Gideon): A 66-year-old woman with relapsed DLBCL**

**Case 5 (Ms Gideon): A 70-year-old man with relapsed mantle cell lymphoma**



# Case Presentation – A 27-year-old woman with Hodgkin lymphoma (Part 1)



**Ms Moran**

- Patient notices lumps in her neck, feels “run down”
- Antibiotics for presumed infection are not effective
- Biopsy of lymph nodes in her neck → Stage II classical Hodgkin lymphoma
  - Bulky bilateral neck, supraclavicular, axillary lymphadenopathy

# Case Presentation – A 27-year-old woman with Hodgkin lymphoma (Part 2)



Ms Moran

- Patient notices lumps in her neck, feels “run down”
- Antibiotics for presumed infection are not effective
- Biopsy of lymph nodes in her neck → Stage II classical Hodgkin lymphoma
  - Bulky bilateral nodes in neck, supraclavicular, axillary
- ***ABVD x 6 – “cruised right through it”***
  - ***End of therapy PET: residual disease in the mediastinum biopsy-proven HL***

## Case Presentation – A 27-year-old woman with Hodgkin lymphoma (Part 3)



Ms Moran

- Patient notices lumps in her neck, feels “run down”
- Antibiotics for presumed infection are not effective
- Biopsy of lymph nodes in her neck → Stage II classical Hodgkin lymphoma
  - Bulky bilateral nodes in neck, supraclavicular, axillary
- ABVD x 6 – “cruised right through it”
  - End of therapy PET: residual disease in the mediastinum biopsy-proven HL
- ***Currently, on maintenance brentuximab vedotin (mild peripheral neuropathy)***



## Patient education regarding brentuximab vedotin



**Robin Klebig, APRN, CNP, AOCNP**

**Based on the results of the Phase III ECHELON-1 trial, which of the following regimens resulted in a progression-free survival advantage over standard ABVD as first-line therapy for patients with Stage III or IV classical Hodgkin lymphoma (HL)?**

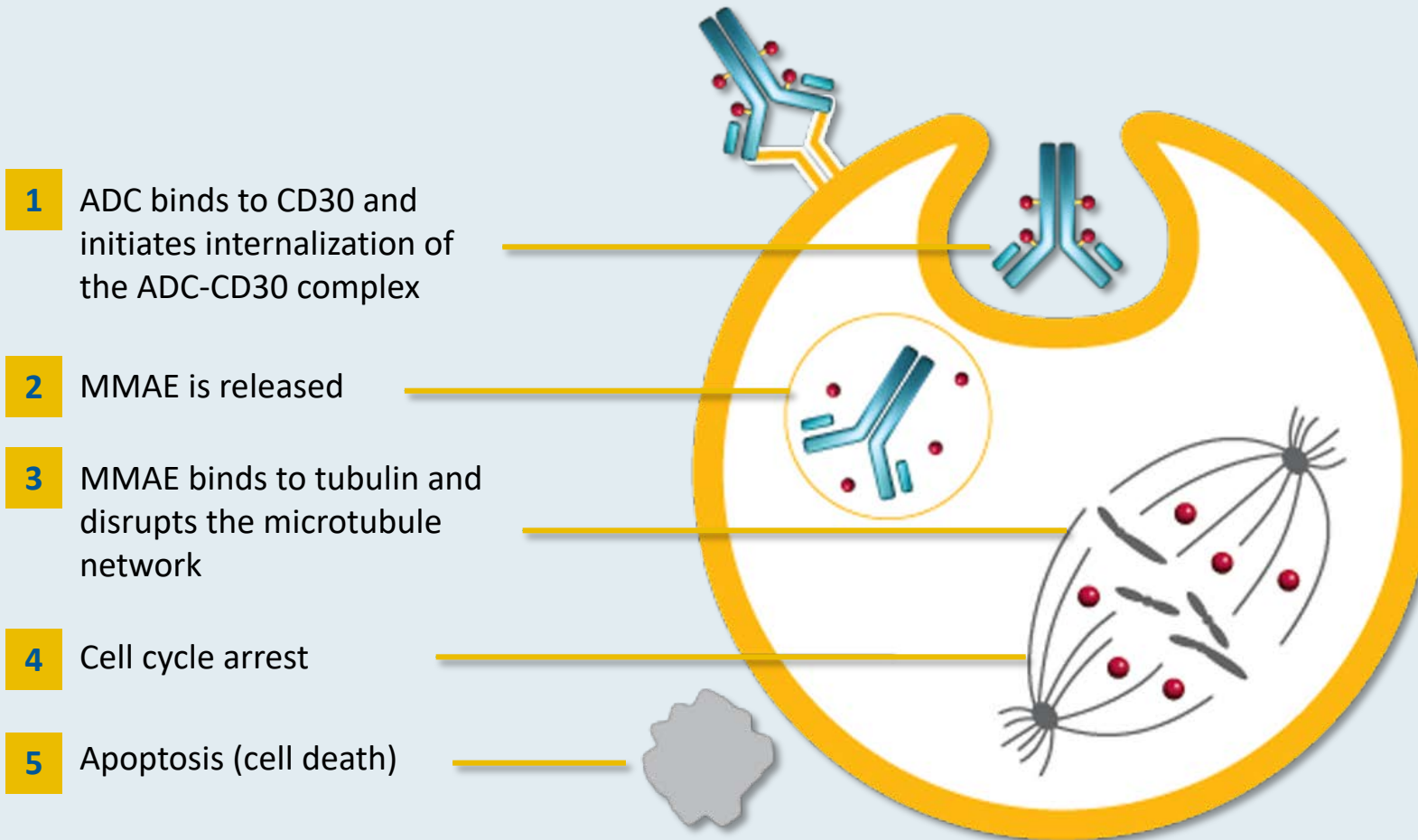
1. ABVD + bendamustine
2. ABVD + nivolumab
3. AVD + brentuximab vedotin
4. Brentuximab vedotin + nivolumab
5. I don't know

## Patients at high risk for disease progression after undergoing transplant for relapsed HL may receive 1 year of consolidation treatment with...

1. Nivolumab
2. Brentuximab vedotin
3. Nivolumab + brentuximab vedotin
4. Chemotherapy
5. Other
6. I don't know

# Mechanism of Action of Brentuximab Vedotin

**Brentuximab vedotin is an antibody-drug conjugate (ADC) targeted to cells expressing CD30 on their surface**



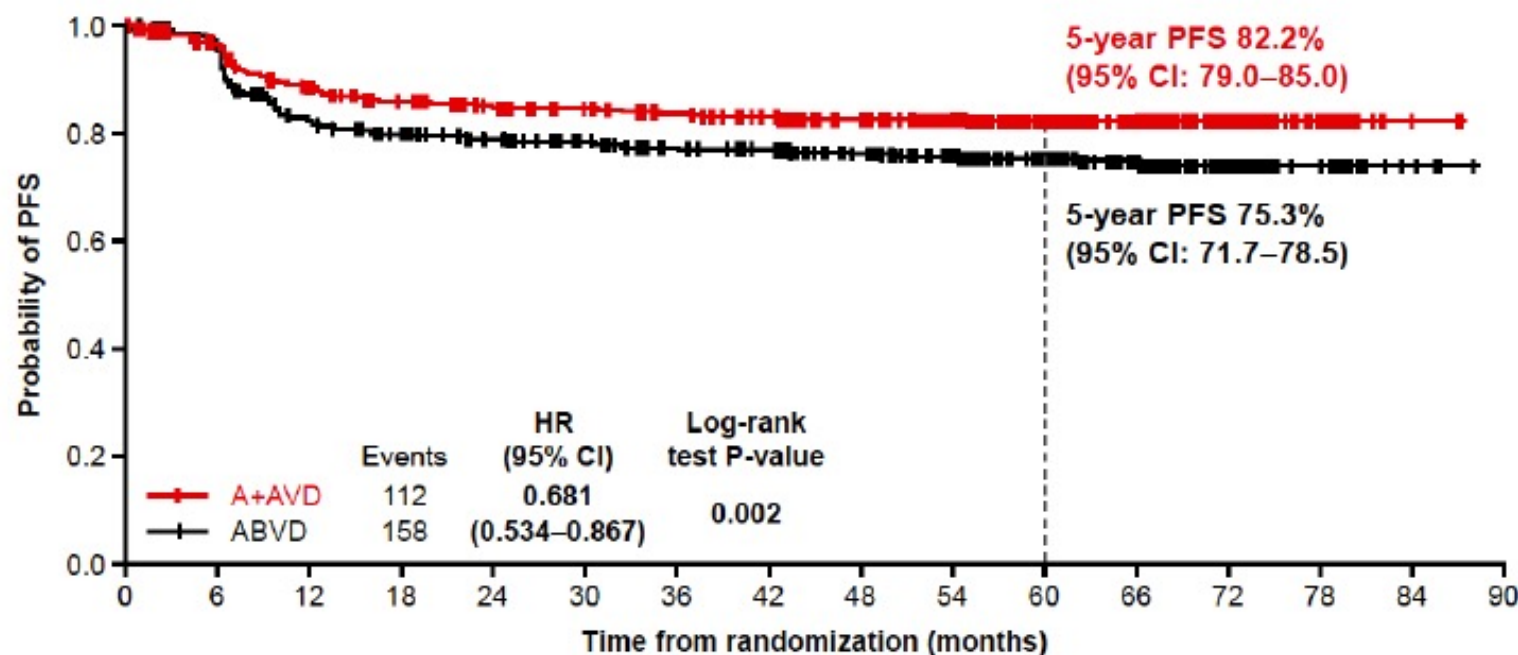
# **Brentuximab Vedotin with Chemotherapy for Patients with Previously Untreated, Stage III/IV Classical Hodgkin Lymphoma: 5-Year Update of the ECHELON-1 Study**

Straus DJ et al.

ASH 2020;Abstract 2973.



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



## Number of patients at risk

A+AVD	664	620	562	535	518	505	492	474	446	414	333	201	102	38	2	0
ABVD	670	613	521	500	478	456	432	423	397	360	292	179	73	22	4	0

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

\*September 14, 2020 data cut-off.

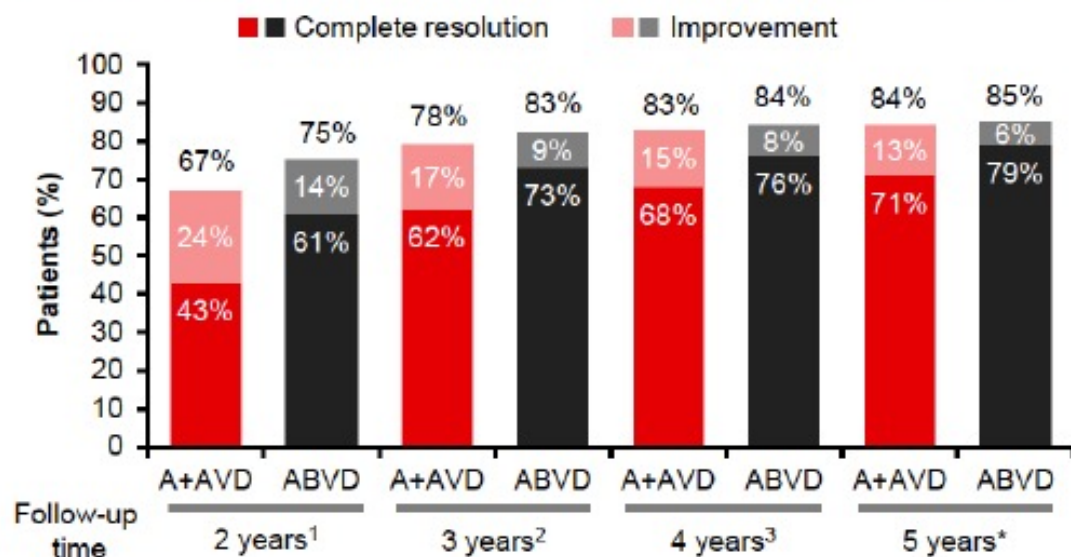




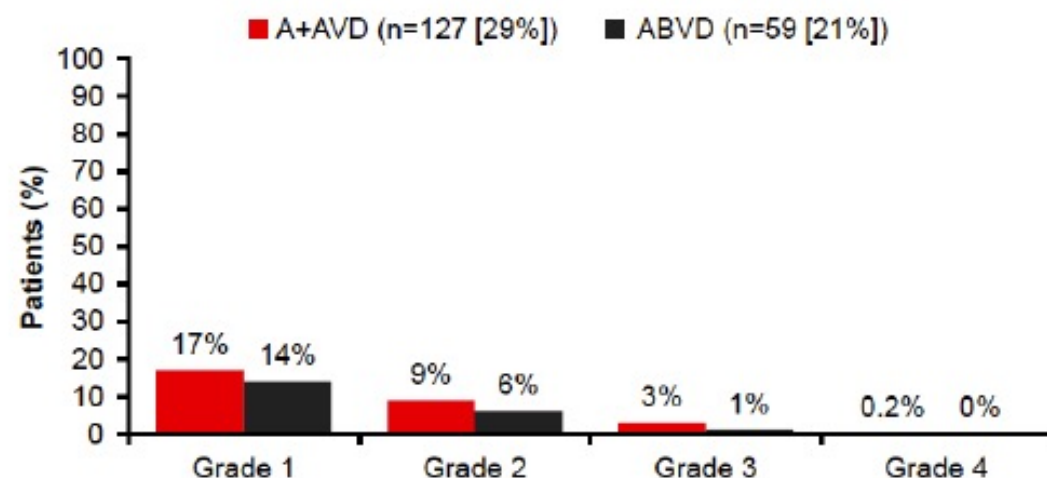
# ECHELON-1: PN resolution and improvement

- At the primary analysis, 442 and 286 patients in A+AVD and ABVD arms, respectively, had experienced PN.

Patients with complete resolution or improvement of PN over time (%)<sup>\*</sup>

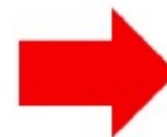


Patients with ongoing PN by grade at last follow-up<sup>†</sup>



Resolution was defined as event outcome of "resolved" or "resolved with sequelae"; Improvement was defined as "improved by  $\geq 1$  grade from worst grade as of the latest assessment"; <sup>\*</sup>Percentages rounded to nearest integer; <sup>†</sup>Median follow-up 236.9 weeks (range: 0–344); Assessment of ongoing PN with maximum severity of grade 3/4 was confounded in 12 of the 15 A+AVD patients by death prior to resolution (n=3), loss to follow-up (n=4), and withdrawal from study (n=5); Among the ABVD patients with grade 3 PN, two were lost to follow-up and two died prior to resolution of PN.

- Connors JM, et al. N Engl J Med 2018;378:331–44;
- Straus DJ, et al. Blood 2020;135:735–42;
- Bartlett NL, et al. Blood 2019;134 (Suppl. 1):4026.

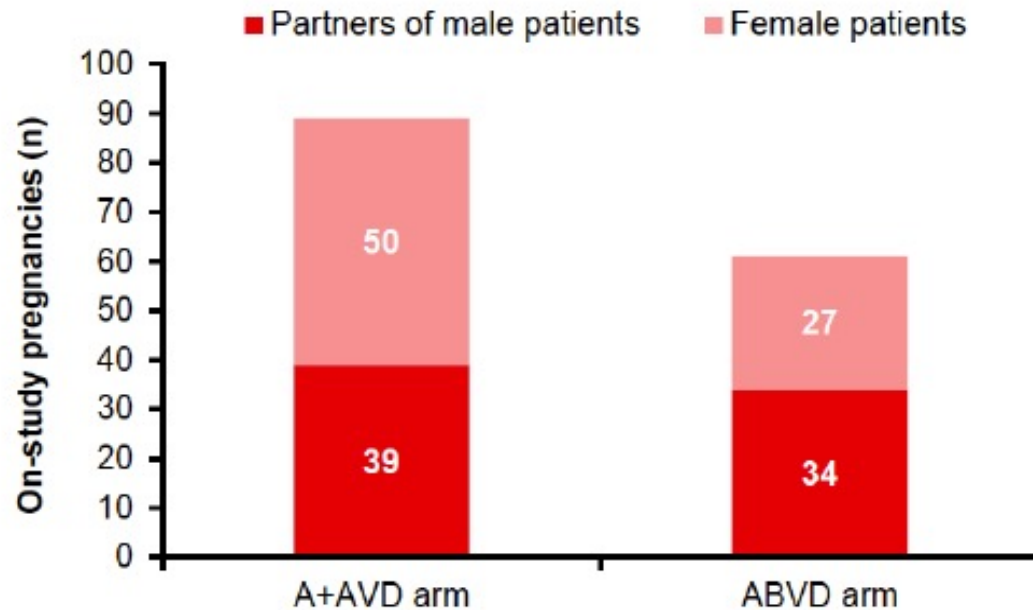




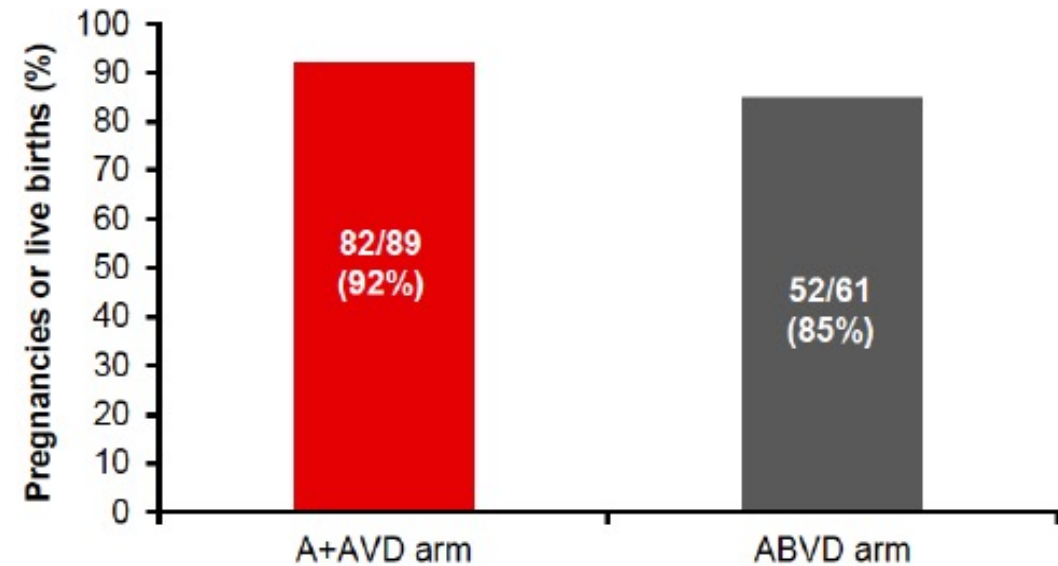
# ECHELON-1: Pregnancies

- A total of 150 pregnancies were reported among study participants and their partners.

## On-study pregnancies in patients or their partners

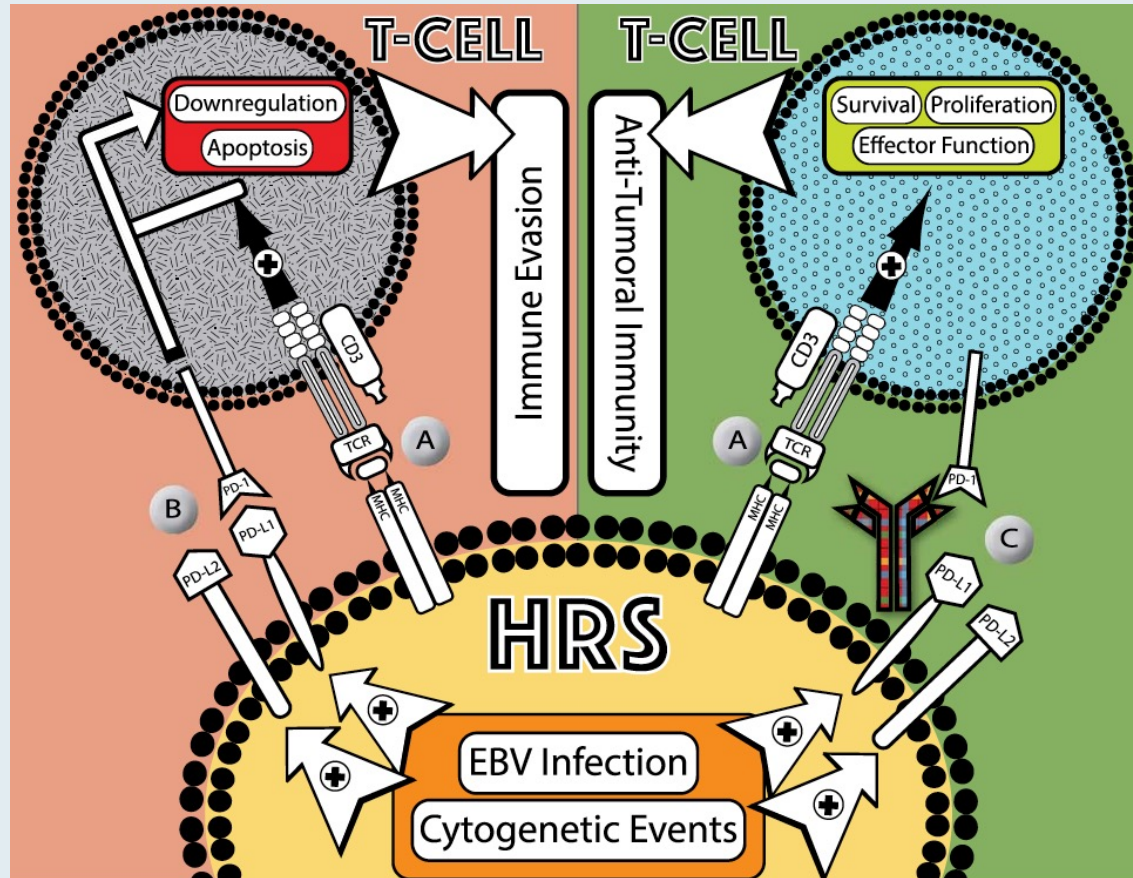


## Ongoing pregnancies or live births





# Targeting the PD-1/PD-L1 Axis in HL

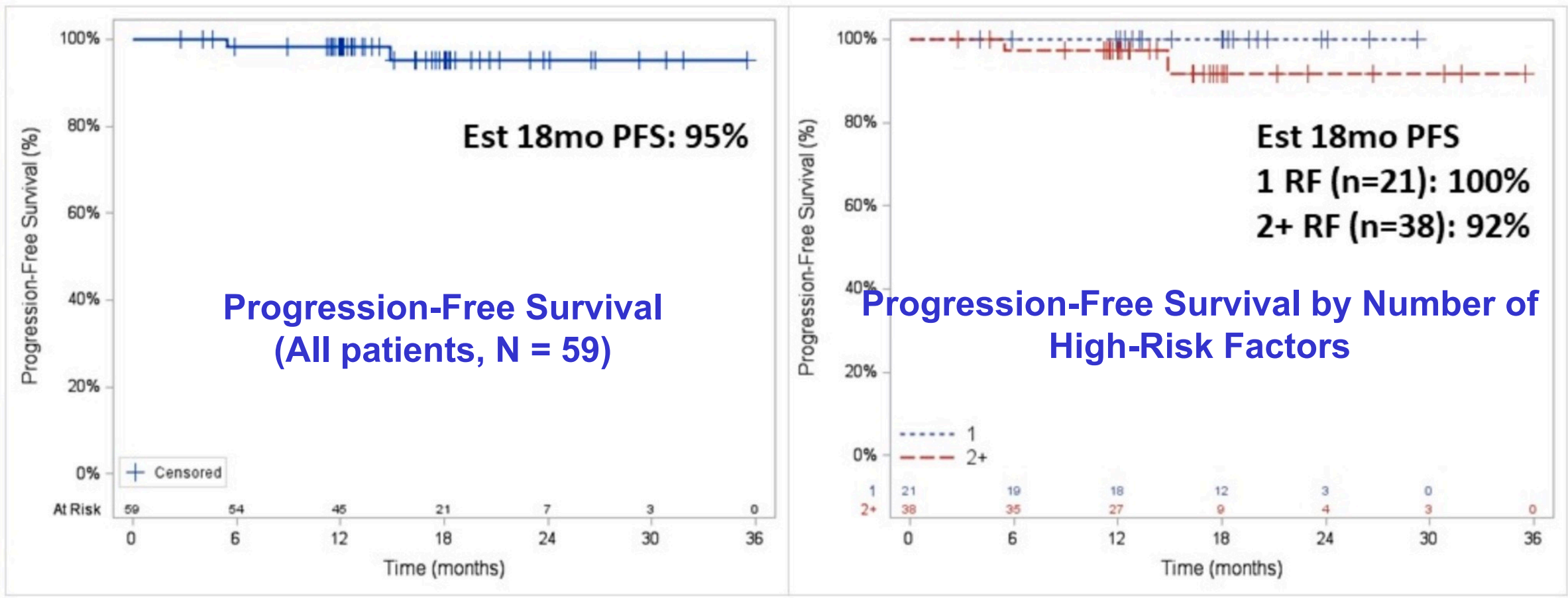


- HL characterized by small number of malignant Hodgkin Reed-Sternberg cells (HRS) surrounded by normal immune cells
- 9p24.1 chromosomal abnormalities frequently observed in HRS
- **More than 90% of HRS have alterations in PD-L1 and PD-L2 loci**
- Malignant Hodgkin and RS cells overexpress PD-L1/L2 ligands (due to cytogenetic events, infection with EBV)

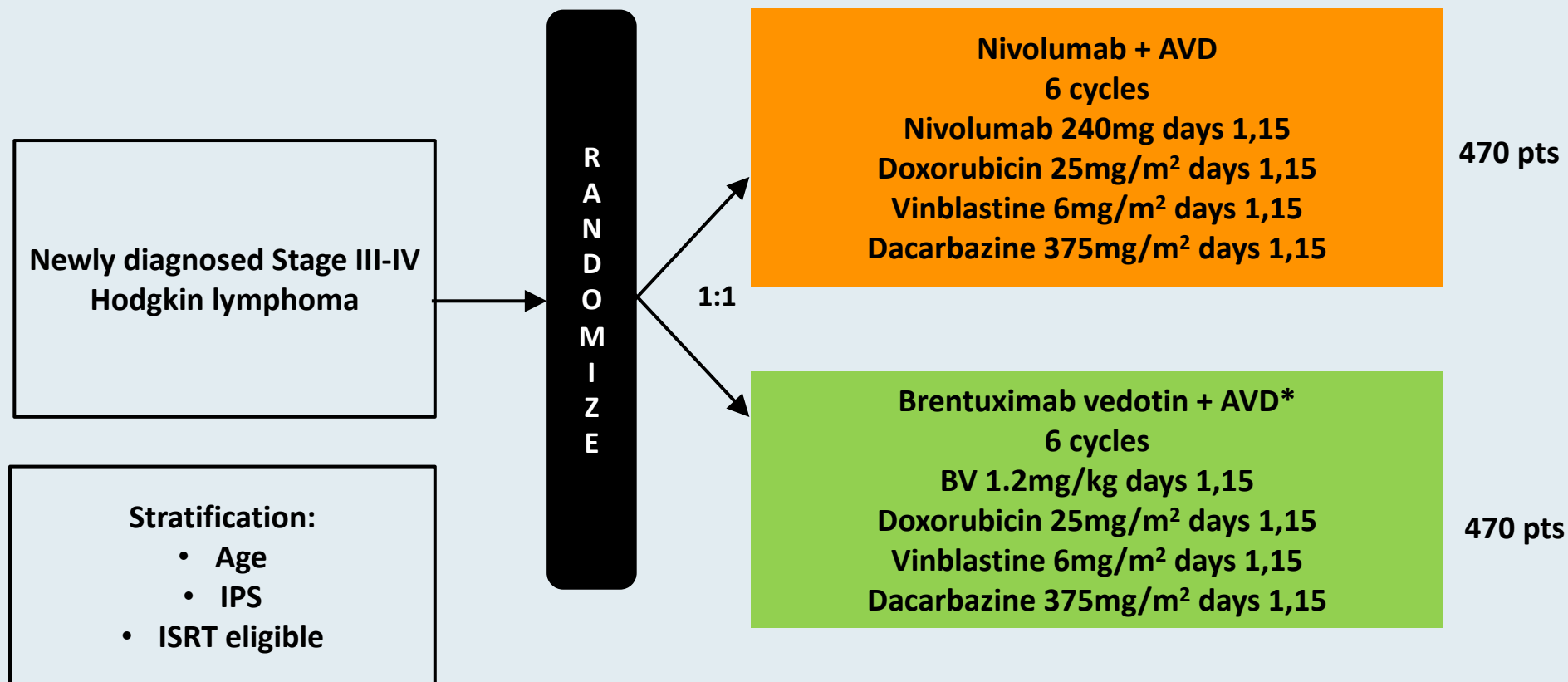
# **Consolidation with Nivolumab and Brentuximab Vedotin After Autologous Hematopoietic Cell Transplantation in Patients with High-Risk Hodgkin Lymphoma**

Herrera AF et al.  
ASH 2020;Abstract 472.

# Consolidation with Nivolumab and Brentuximab Vedotin After ASCT: Progression-Free Survival



# SWOG-1826: Ongoing Phase III Trial of Nivolumab or Brentuximab Vedotin with Combination Chemotherapy for Newly Diagnosed Stage III-IV Classical HL



\* G-CSF is mandatory in BV-AVD arm, optional in N-AVD

# Agenda

**Case 1 (Ms Moran): A 27-year-old woman with Hodgkin lymphoma**

**Case 2 (Ms Klebig): A 76-year-old man with newly diagnosed follicular lymphoma**

**Case 3 (Ms Klebig): An 83-year-old woman with relapsed DLBCL**

**Case 4 (Ms Gideon): A 66-year-old woman with relapsed DLBCL**

**Case 5 (Ms Gideon): A 70-year-old man with relapsed mantle cell lymphoma**

# Case Presentation – A 76-year-old man with newly diagnosed follicular lymphoma (Part 1)



Ms Klebig

- PMH: Progressive aphasia, short-term memory loss likely due to Alzheimer's disease
- Patient is a farmer, wife is healthcare surrogate
- 9/2019: Diagnosed with Grade 1-2, Stage IV follicular lymphoma
- Lenalidomide/rituximab (R<sup>2</sup>), with rash and neutropenia requiring dose adjustments
  - After 5 months: Complete remission (CR)
- Currently, remains in CR

## Case Presentation – A 76-year-old man with newly diagnosed follicular lymphoma (Part 2)



Ms Klebig

- PMH: Progressive aphasia, short-term memory loss likely due to Alzheimer's disease
- Patient is a farmer, wife is healthcare surrogate
- 9/2019: Diagnosed with Grade 1-2, Stage IV follicular lymphoma
- Lenalidomide/rituximab (R<sup>2</sup>), with rash and neutropenia requiring dose adjustments
  - After 5 months: Complete remission (CR)
- Currently, remains in CR
- ***Neurologic condition worsenening, decrease in awareness***
- ***Counseling patient and caregiver about potential side effects***

**Which of the following regimens appears to have the same efficacy as bendamustine/rituximab (BR) as first-line treatment for symptomatic follicular lymphoma (FL)?**

1. Rituximab alone
2. Lenalidomide/rituximab
3. Obinutuzumab
4. R-CHOP
5. None of the above
6. I don't know

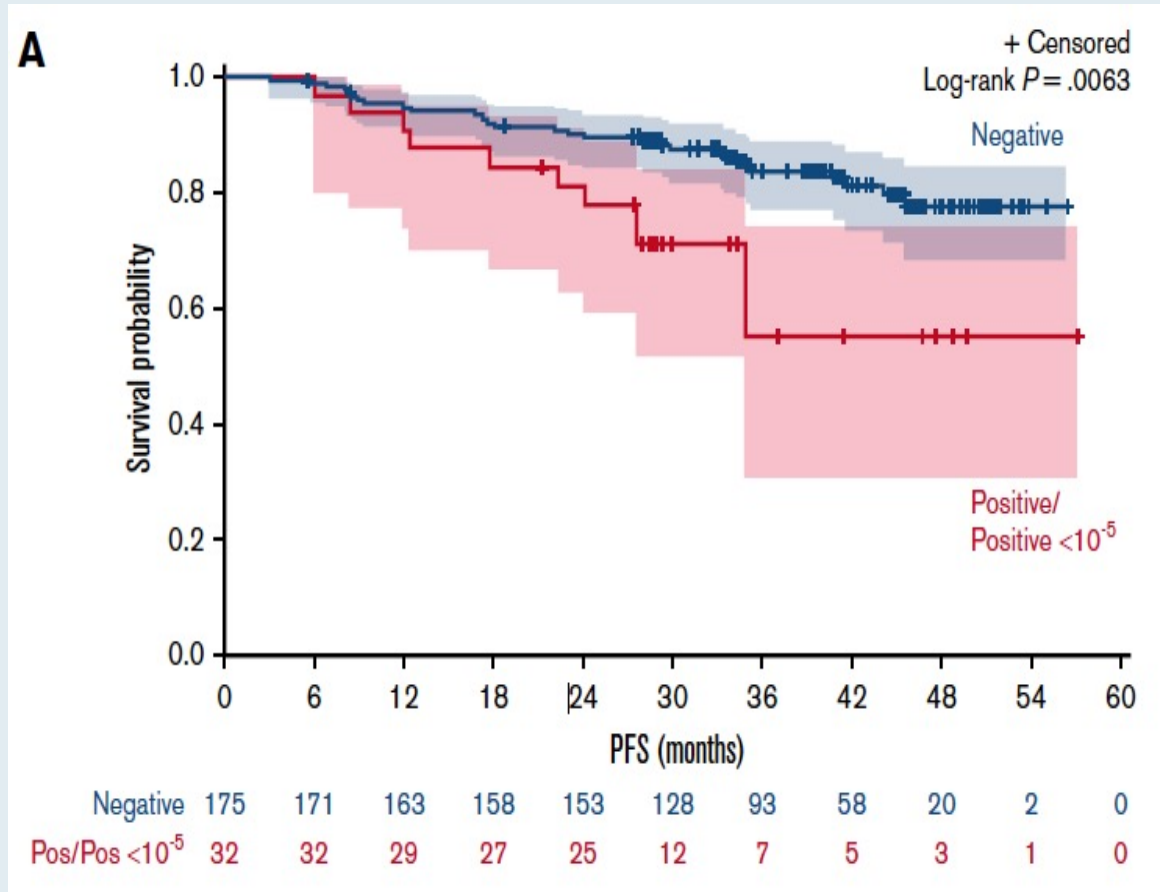


# What is the usual second-line therapy for a patient with FL who experiences disease progression on first-line BR?

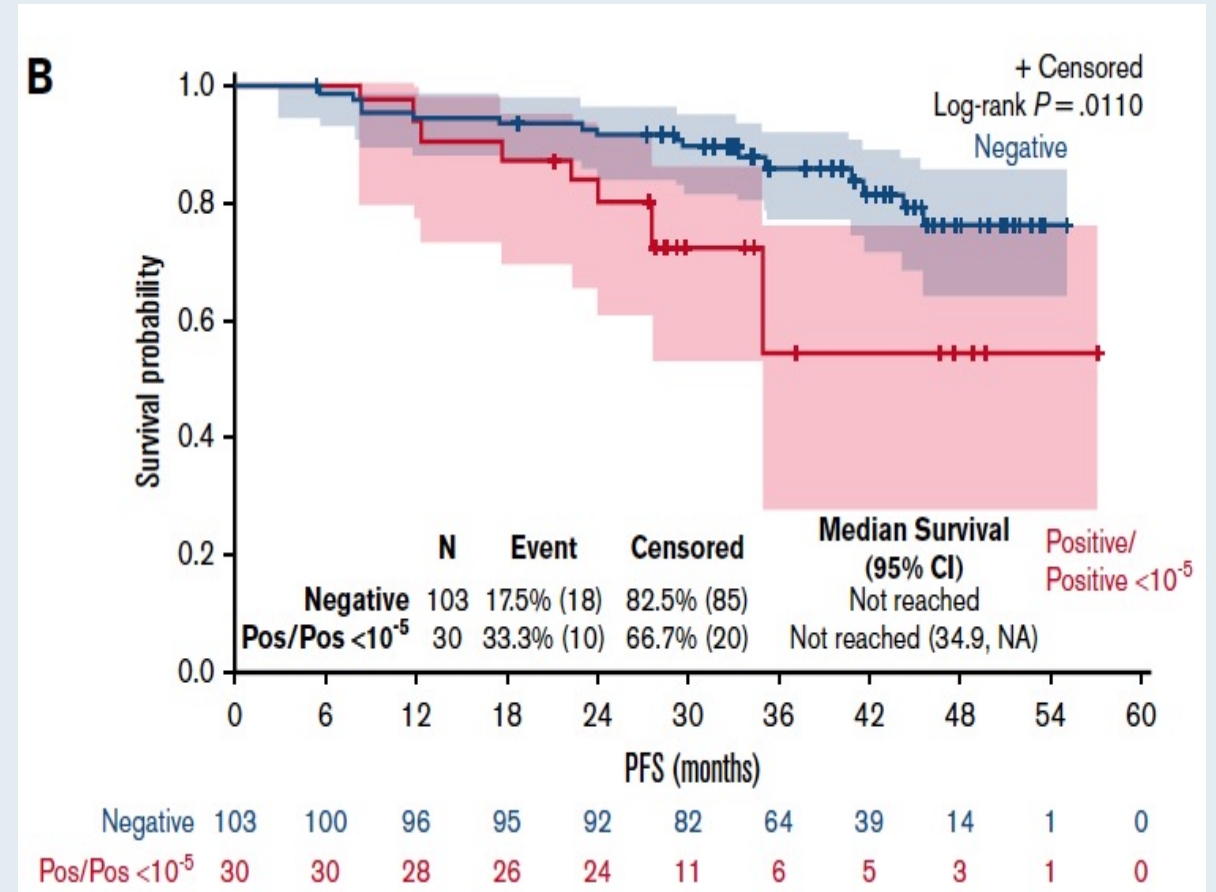
1. Re-treatment with BR
2. Obinutuzumab/bendamustine
3. Rituximab/lenalidomide
4. A PI3K inhibitor (eg, idelalisib, copanlisib, duvelisib, umbralisib)
5. I don't know

# RELEVANCE Trial: R<sup>2</sup> Induces High Molecular Response in Untreated FL

Impact of positive MRD at week 24 on PFS in PB and/or BM



Impact of positive MRD at week 24 on PFS in BM



# Approved PI3K inhibitors in **R/R Follicular Lymphoma**

	Idelalisib	Copanlisib	Duvelisib	Umbralisib
<b>FDA approval</b>	Jul 29, 2014	Sep 14, 2017	Sep 24, 2018	Feb 5, 2021
<b>Isoforms</b>	PI3K delta	Pan-PI3K	PI3K delta/gamma	PI3K-delta and CK1-epsilon
<b>Formulation</b>	150 mg <b>PO</b> BID	60 mg <b>IV</b> Q weekly 3 wks on, 1 wk off	25 mg <b>PO</b> BID	800 mg <b>PO</b> QD
<b>Indication in FL</b>	Relapsed after at least two prior systemic therapies	Relapsed after at least two prior systemic therapies	Relapsed after at least two prior systemic therapies	Relapsed after at least three prior systemic therapies
<b>Pivotal trial</b>	Study 101-09	CHRONOS-1	NCT02204982	UTX-TGR-205
<b>Results</b>	iNHL, n=125 <b>ORR 57%, CR 6%</b>	FL, n=104 <b>ORR 59%, CR 14%</b>	FL, n=83 <b>ORR 42%, 1 CR</b>	FL, n = 117 <b>ORR 43%, CR 3%</b>
	mDOR 12.5 mo	mDOR 12.2 mo	43% maintained responses for $\geq 6$ mo, 17% maintained responses for $\geq 12$ mo	mDOR 11.1 mo
<b>Side effects</b>	<b>Pneumonitis, transaminitis, colitis</b>	<b>Hyperglycemia, hypertension, infections, neutropenia</b>	<b>Infection, diarrhea or colitis, pneumonia</b>	<b>Infection, neutropenia, diarrhea or noninfectious colitis</b>

# FDA Grants Accelerated Approval to Tazemetostat for Follicular Lymphoma

Press Release – June 18, 2020

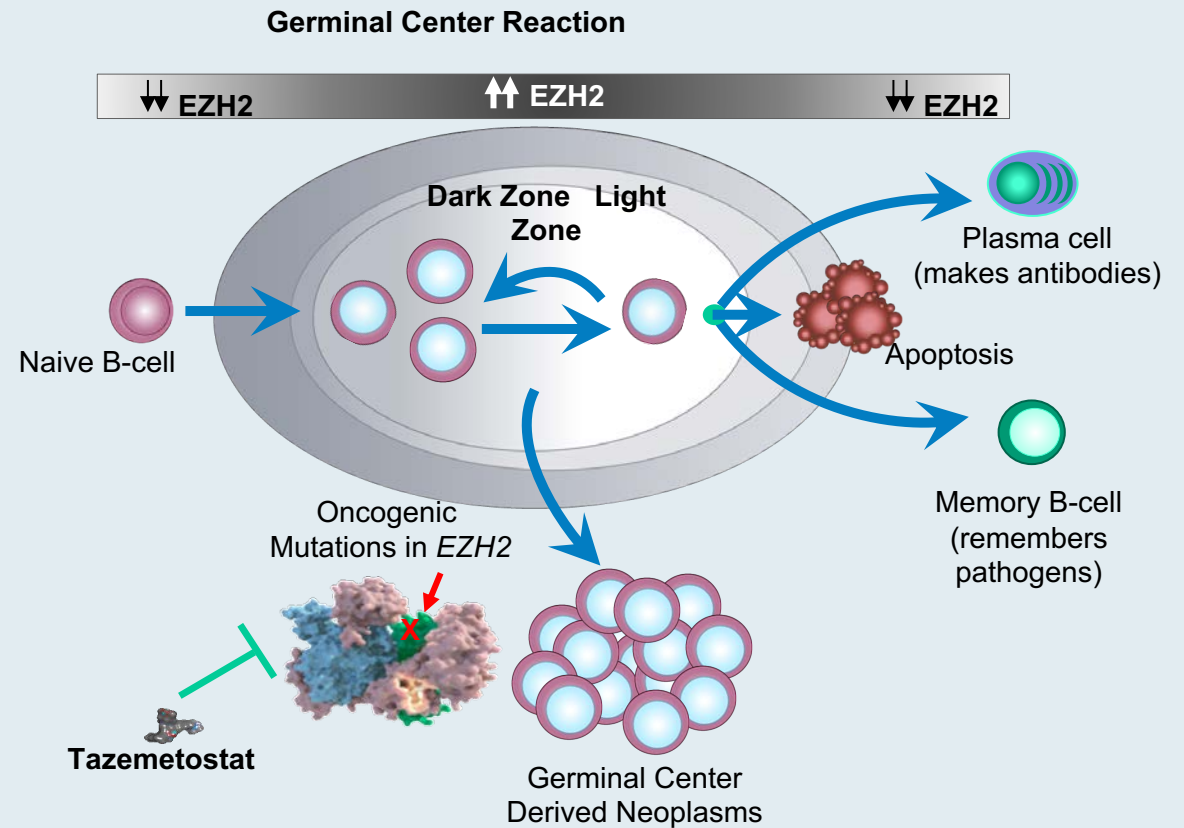
“The Food and Drug Administration granted accelerated approval to tazemetostat, an EZH2 inhibitor, for adult patients with relapsed or refractory (R/R) follicular lymphoma (FL) whose tumors are positive for an EZH2 mutation as detected by an FDA-approved test and who have received at least 2 prior systemic 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 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.”

# Follicular Lymphoma and EZH2

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



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

1. Gan L, et al. *Biomark Res.* 2018;6(1):10; 2. Béguelin W, et al. *Cancer Cell.* 2013;23(5)677-692.  
 3. Bödör C, et al. *Blood.* 2013;122:3165-3168. 4. Italiano A, et al. *Lancet Oncol.* 2018;19(5):649-59;  
 5. Morschhauser F, et al. *Hematol Oncol.* 2017 Jun;35:24-5.

# Analyzing Efficacy Outcomes from the Phase 2 Study of Single-Agent Tazemetostat as Third-Line Therapy in Patients with Relapsed or Refractory Follicular Lymphoma to Identify Predictors of Response

Salles G et al.

ASH 2020;Abstract 2047.



## Phase 2 Efficacy Outcomes

Efficacy Outcome <sup>a</sup>	Combined WT and MT <i>EZH2</i> (N=99)	WT <i>EZH2</i> (n=54) <sup>1</sup>	MT <i>EZH2</i> (n=45) <sup>1</sup>
ORR, % (95% CI)	51 (40–61)	35 (23-49)	69 (53-82)
Median DOR, months (95% CI)	11 (7–19)	13 (6-NE)	11 (7-NE)
Median PFS, months (95% CI)	12 (8–15)	11 (4-15)	14 (11-22)
Median OS, months (95% CI)	NR (38–NE)	NR	NR

- The DOR was consistent between WT and MT *EZH2* groups<sup>1</sup>
- Consistent ORRs were also observed across high-risk subgroups, such as patients with POD24, double-refractory disease, and refractoriness to rituximab therapy, regardless of mutation status<sup>1</sup>

<sup>a</sup>ORR, DOR, and PFS are based on IRC assessments.

1. Morschhauser F, et al. *Lancet Oncology*; 2020;21(11):1433-42.

CI, confidence interval; DOR, duration of response; ECOG, Eastern Cooperative Oncology Group; *EZH2*, enhancer of zeste homolog 2; IRC, independent radiology committee; MT, mutant; NE, not estimable; NR, not reached; ORR, objective response rate; OS, overall survival; MT, mutant; NE, not evaluable; NR, not reached; PFS, progression-free survival; WT, wild type.



American Society of Hematology

# Ongoing Phase Ib/III Trial of Tazemetostat + Lenalidomide/Rituximab (R<sup>2</sup>) for R/R FL

## Target accrual (N = 518)

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

**R**

```
graph LR; R((R)) --> A[Tazemetostat + R2]; R --> B[Placebo + R2];
```

**Tazemetostat**

**+**

**R<sup>2</sup>**

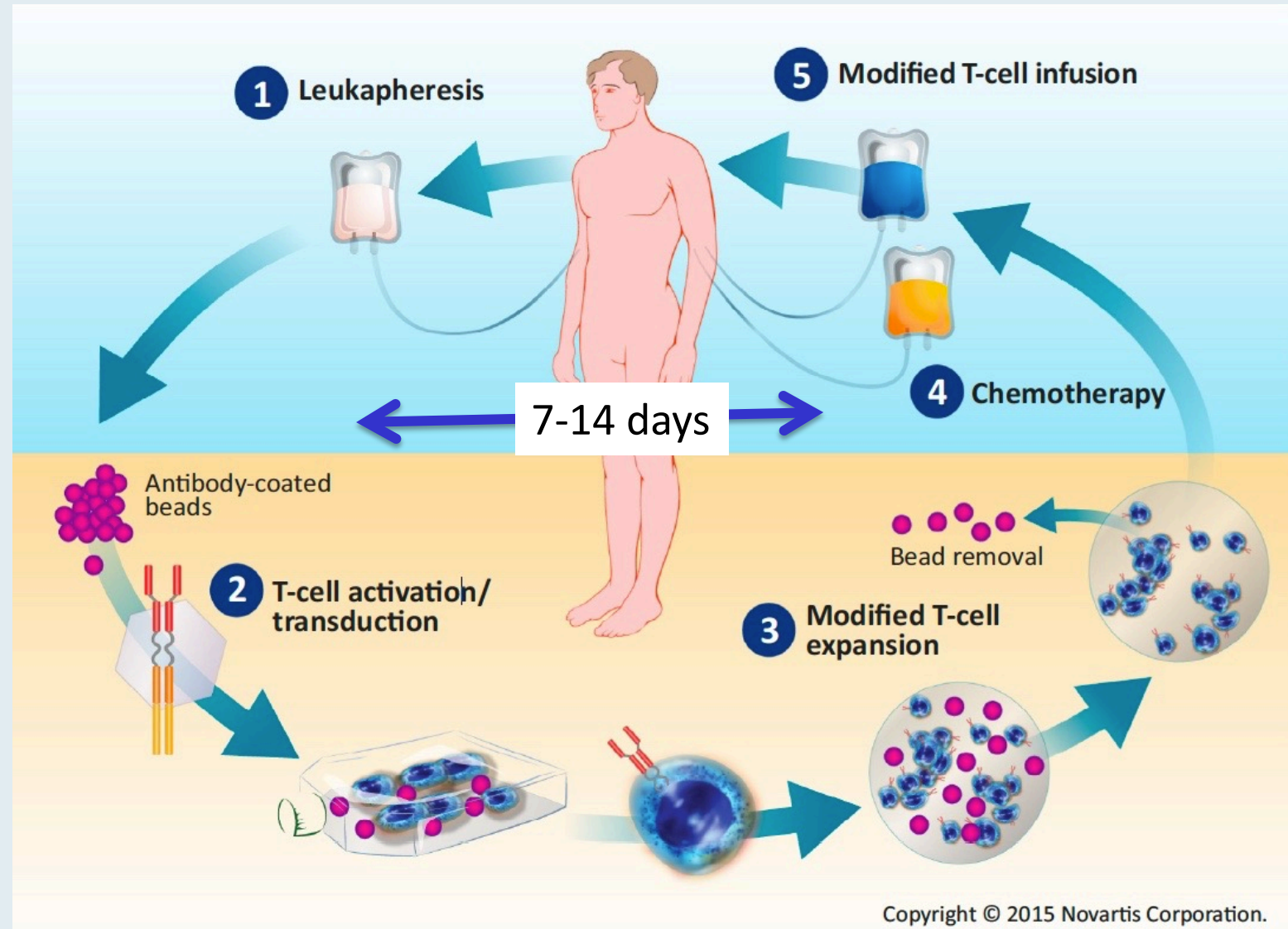
**Placebo**

**+**

**R<sup>2</sup>**

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

# Overview of CAR T-Cell Therapy



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

Fowler NH et al.

ASH 2020;Abstract 1149.

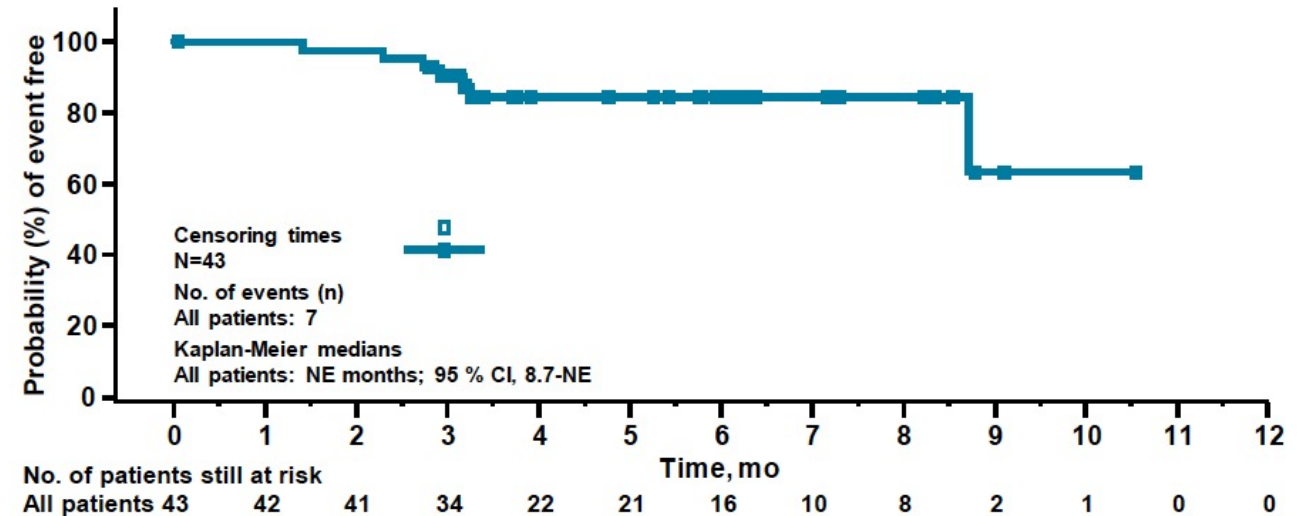
# ELARA Interim Analysis: Primary CR Endpoint

## Best Overall Response Rate

Response Rate, %	Patients Evaluable for Efficacy <sup>a</sup> (n=52)
CR	65.4 <sup>a</sup>
PR	17.3
ORR (CR + PR)	82.7

- Investigator-assessed CR rate was 67.3%<sup>b</sup> (ORR 88.5%)
- ORR was consistent across subgroups, including prior SCT, disease status, and high-risk features

## At 10 Months Median Follow-up for Efficacy, Median DOR Not Reached



- Median follow-up for efficacy (n=52): 9.9 months (6.0-15.6)
- Probability for a responding patient to remain in response  $\geq 6$  months was 84.4%
- 8 of 18 PRs (44%) converted to CRs; all but 1 occurred between Month 3 and Month 6
- Median time to next antilymphoma treatment was not reached
- 69% (36/52) had ongoing responses at the time of data cutoff



# ELARA: Overall Safety Profile

Adverse Events, n (%)	Treated Patients N=97
Any AE (all grade)	92 (94.8)
AEs suspected to be drug-related	71 (73.2)
Any SAE	37 (38.1)
Suspected to be drug-related	26 (26.8)
Any grade 3/4 AE	68 (70.1)
Suspected to be drug-related	37 (38.1)
Death	3 (3.1)
Deaths due to study indication	3 (3.1)
Deaths within 30 days post infusion	0

	Treated Patients N=97	
AESI (within 8 weeks of infusion)	All grades, %	Grade ≥3, %
Cytokine release syndrome <sup>a</sup>	48.5	0
Serious neurological adverse reactions	9.3	1.0
Infections	18.6	4.1
Tumor lysis syndrome	1.0	0
Prolonged depletion of B cells/ agammaglobulinemia	9.3	0
Hematologic disorders including cytopenias		
Neutropenia <sup>b,c</sup>	28.9	24.7
Anemia <sup>b</sup>	22.7	12.4
Thrombocytopenia <sup>b</sup>	15.5	8.2

- Median onset of neurological events was 8.5 (4-190<sup>d</sup>) days
- Only 1 case of serious ICANS within the first 8 weeks
- CRS median onset was 4.0 (1-14) days

- **All neurological and CRS events resolved with appropriate management**



# 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.

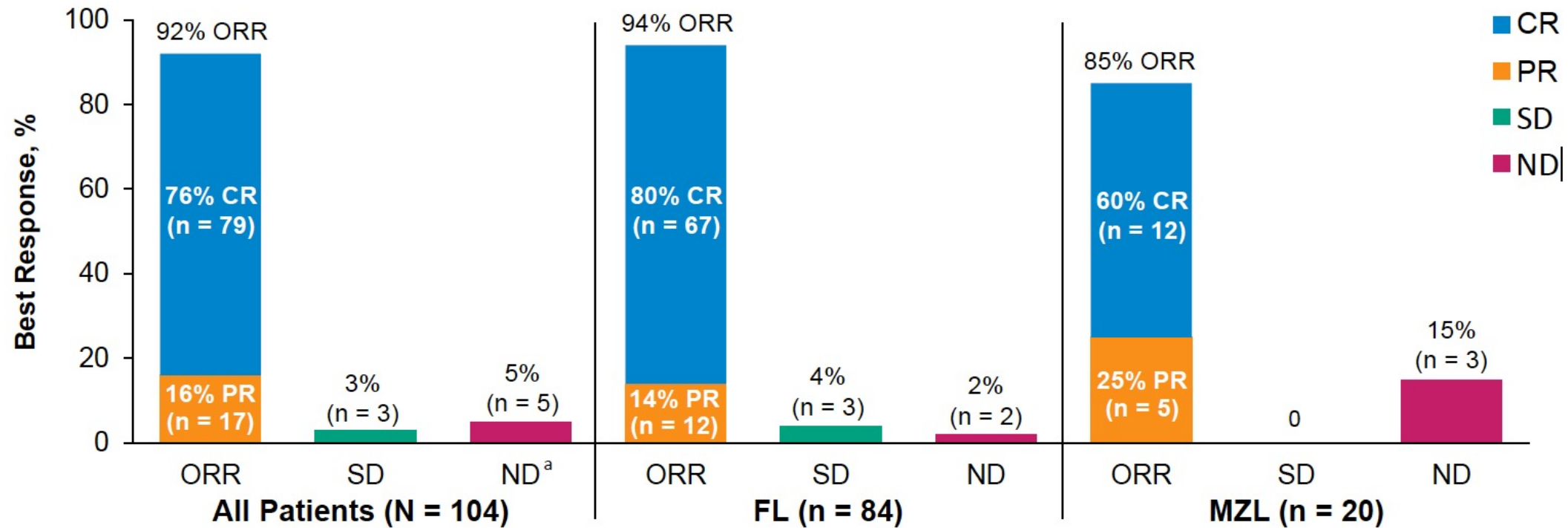
The main efficacy measures were objective response rate (ORR) and duration of response (DOR) as determined by an independent review committee. Among 81 patients in the primary efficacy analysis, the ORR was 91% with a complete remission (CR) rate of 60% and a median time-to-response of 1 month. The median DOR was not reached, and the 1-year rate of continued remission was 76.2%. For all leukapheresed patients in this trial (n=123), the ORR was 89% with a CR rate of 62%.”

# Primary Analysis of Zuma-5: A Phase 2 Study of Axicabtagene Ciloleucel (Axi-cel) in Patients with Relapsed/Refractory (R/R) Indolent Non-Hodgkin Lymphoma (iNHL)

Jacobson CA et al.

ASH 2020;Abstract 700.

## ZUMA-5 Primary Endpoint: ORR by IRRC Assessment



- 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)

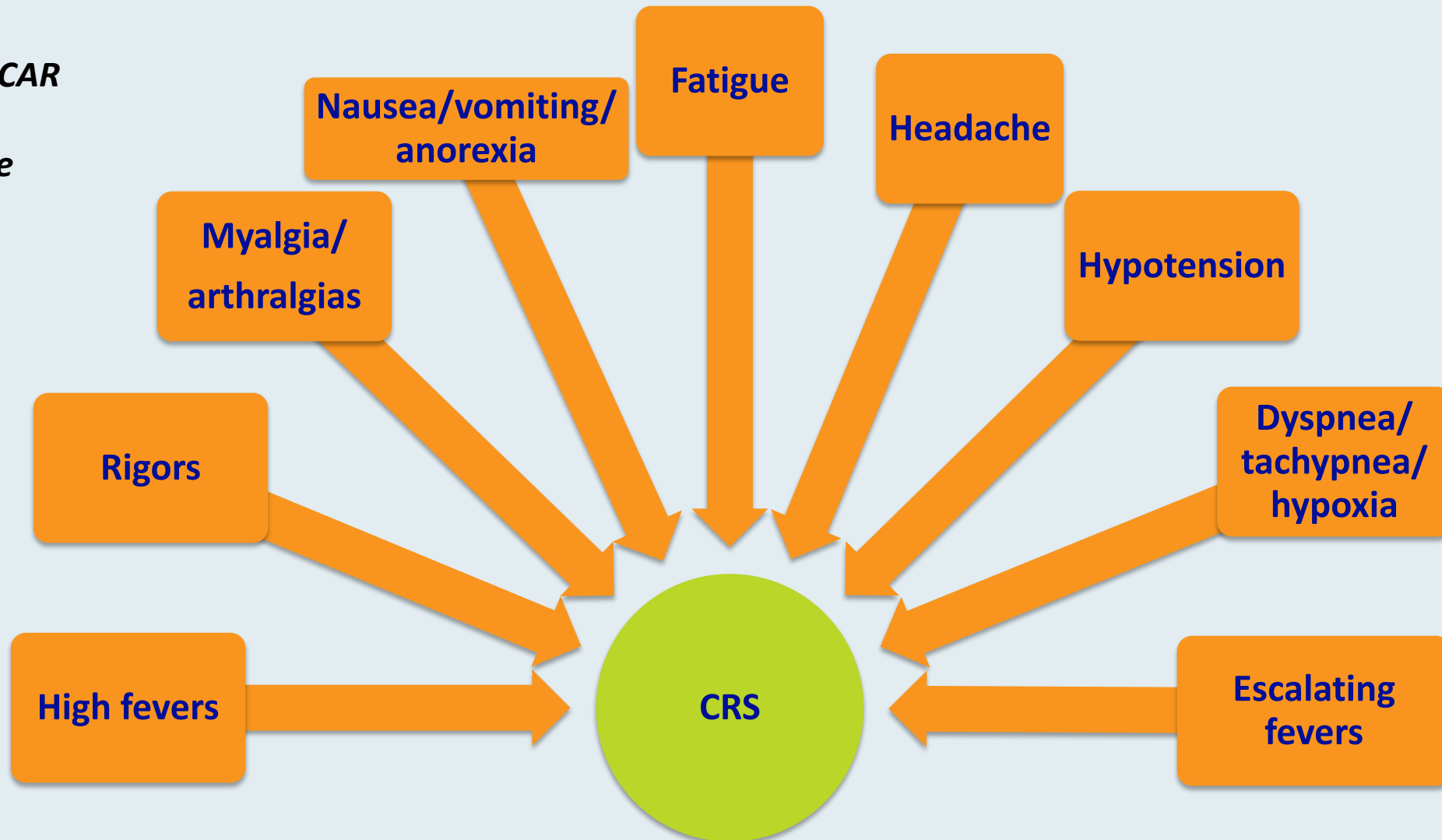
# CAR T-Cell Therapy-Associated Cytokine Release Syndrome (CRS)

## CRS — May be mild or life-threatening

- Occurs with CART19 activation and expansion
- Dramatic cytokine elevations (IL-6, IL10, IFN $\gamma$ , 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%

# Cytokine Release Syndrome (CRS): Common Symptoms

*Based on CAR  
T-cell  
experience*



Diagnosis based on clinical symptoms and events

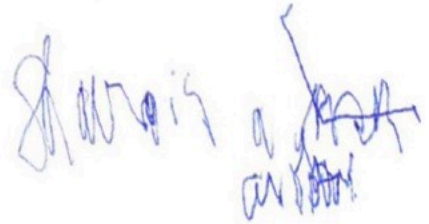
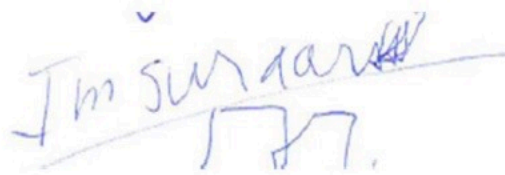
# CAR T-Cell Therapy-Associated Neurologic Toxicity

## 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



# Example of Handwriting Deterioration Associated with Neurotoxicity from CAR T-Cell Therapy

Day 4 9 am	I love Shawnee, KS.	MMSE score 29/30
Day 5 01:30 PM Toci 8 mg/kg		27/30
Day 5 03:30 PM		27/30
Day 6 9 am	I miss my kids.	29/30

MMSE, mini mental status exam; Toci, tocilizumab.  
Neelapu SS et al. Nat Rev Clin Oncol 2018; 15:47-62

# Agenda

**Case 1 (Ms Moran): A 27-year-old woman with Hodgkin lymphoma**

**Case 2 (Ms Klebig): A 76-year-old man with newly diagnosed follicular lymphoma**

**Case 3 (Ms Klebig): An 83-year-old woman with relapsed DLBCL**

**Case 4 (Ms Gideon): A 66-year-old woman with relapsed DLBCL**

**Case 5 (Ms Gideon): A 70-year-old man with relapsed mantle cell lymphoma**

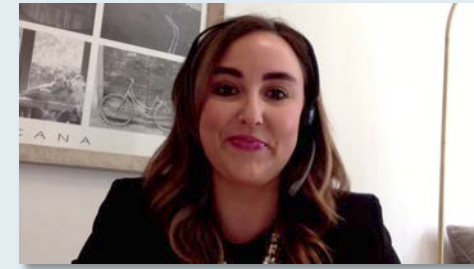
# Case Presentation – An 83-year-old woman with relapsed DLBCL



**Ms Klebig**

- 2018: Diagnosed with DLBCL s/p R-CHOP x 6
- 2019: Relapsed disease → Rituximab x 4 → PD 2 months later
- Tafasitamab/bendamustine on clinical trial MOR208C204
  - Treatment every 2 weeks until PD or intolerability
- Recent imaging confirms sustained remission for over 18 months

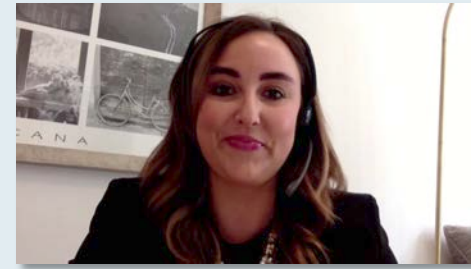
# Case Presentation – A 66-year-old woman with relapsed DLBCL (Part 1)



**Ms Gideon**

- Healthy pilates instructor who developed hip and back pain to the point that she became debilitated by a large paraspinal mass
- Induction therapy, with a CR with relapsed disease shortly thereafter
- Depression, anxiety about upcoming treatment and hospitalization

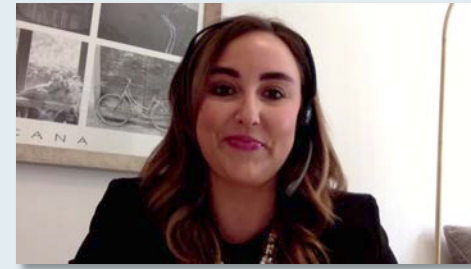
## Case Presentation – A 66-year-old woman with relapsed DLBCL (Part 2)



Ms Gideon

- Healthy pilates instructor who developed hip and back pain to the point that she became debilitated by a large paraspinal mass
- Induction therapy, with a CR with relapsed disease shortly thereafter
- Depression, anxiety about upcoming treatment and hospitalization
- ***Referred for salvage chemotherapy and ASCT versus CAR T-cell therapy***
- ***CAR T-cell therapy with axicabtagene ciloleucel***
  - ***Developed CRS 3 days after the infusion, treated with tocilizumab***

# Case Presentation – A 66-year-old woman with relapsed DLBCL (Part 3)

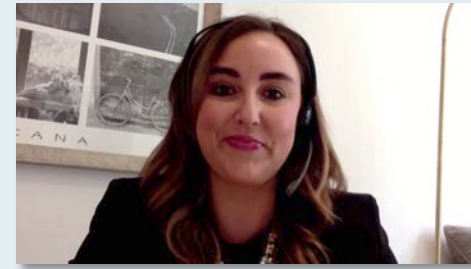


Ms Gideon

- Healthy pilates instructor who developed hip and back pain to the point that she became debilitated by a large paraspinal mass
- Induction therapy, with a CR with relapsed disease shortly thereafter
- Depression, anxiety about upcoming treatment and hospitalization
- Referred for salvage chemotherapy and ASCT versus CAR T-cell therapy
- CAR T-cell therapy with axicabtagene ciloleucel
  - Developed CRS 3 days after the infusion, treated with tocilizumab
  - ***Discharged 12 days after the infusion, significant improvement in pain***
  - ***Near CR 30 days later***



# Case Presentation – A 66-year-old woman with relapsed DLBCL (Part 4)



Ms Gideon

- Healthy pilates instructor who developed hip and back pain to the point that she became debilitated by a large paraspinal mass
- Induction therapy, with a CR with relapsed disease shortly thereafter
- Depression, anxiety about upcoming treatment and hospitalization
- Referred for salvage chemotherapy and ASCT versus CAR T-cell therapy
- CAR T-cell therapy with axicabtagene ciloleucel
  - Developed CRS 3 days after the infusion, treated with tocilizumab
  - Discharged 12 days after the infusion, significant improvement in pain
  - Near CR 30 days later
- ***Patient “shocked” about the effectiveness of treatment; patient desires to return to the pilates studio***

# Chimeric antigen receptor (CAR) T-cell therapy is commonly associated with...

1. Cytokine release syndrome
2. Neurotoxicity
3. Rash
4. Peripheral neuropathy
5. I don't know

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

1. Agree
2. Disagree
3. I don't know

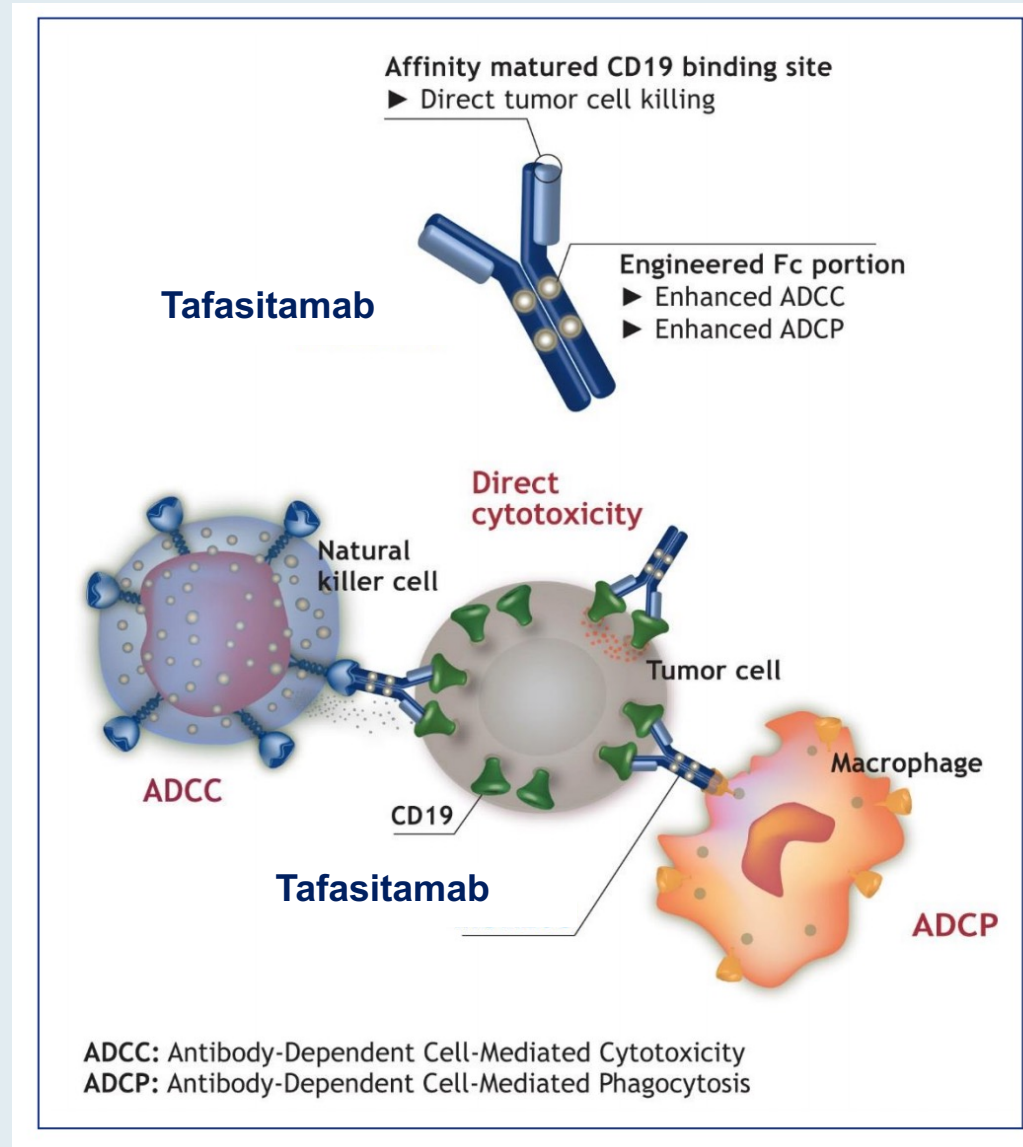
# FDA Grants Accelerated Approval to Tafasitamab-cxix for Diffuse Large B-Cell Lymphoma

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.”

# Tafasitamab (MOR208)



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

Salles et al. Lancet Onc 2020

# Long-Term Subgroup Analyses from L-Mind, a Phase II Study of Tafasitamab (MOR208) Combined with Lenalidomide in Patients with Relapsed or Refractory Diffuse Large B-Cell Lymphoma

Maddocks KJ et al.

ASH 2020;Abstract 3021.



## L-MIND: Summary

Clinical endpoint	N = 80
ORR	57.5%
CR	40.0%
Median DOR	34.6 mo
24 mo DOR rate	71.3%
24 mo OS rate	57.2%

In the subgroup analysis, patients with CR as best objective response had better outcomes than those with PR:

- Median DOR: NR vs 5.6
- 24-month DOR rate: 86.4% vs 38.5%
- 24-month OS rate: 90.6% vs 42.7%

# FDA Approves Selinexor for Relapsed/Refractory Diffuse Large B-Cell Lymphoma

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.”

# FDA Approves Lisocabtagene Maraleucel for Relapsed or Refractory Large B-Cell Lymphoma

Press Release – February 5, 2021

“The Food and Drug Administration approved lisocabtagene maraleucel for the treatment of adult patients with relapsed or refractory (R/R) large B-cell lymphoma after two or more lines of systemic therapy, including diffuse large B-cell lymphoma (DLBCL) not otherwise specified (including DLBCL arising from indolent lymphoma), high-grade B-cell lymphoma, primary mediastinal large B-cell lymphoma, and follicular lymphoma grade 3B.

Efficacy was evaluated in TRANSCEND (NCT02631044), a single-arm, open label, multicenter trial that evaluated lisocabtagene maraleucel, preceded by lymphodepleting chemotherapy, in adults with R/R large B-cell lymphoma after at least two lines of therapy.”

# Pivotal CAR-T Studies in DLBCL: Summary of Efficacy

	<b>ZUMA-1</b> Axicabtagene ciloleucel	<b>JULIET</b> Tisagenlecleucel	<b>TRANSCEND NHL 001</b> Lisocabtagene maraleucel
Evaluable patients	101	93	102 (core: 73)
Median follow-up	15.4 mo	19.3 mo	12 mo
Best ORR	83%	52%	75%
CR	58%	40%	55%
6-mo ORR	41%	33%	47%
12-mo OS	59%	49%	63%

Locke F et al; ZUMA-1 Investigators. *Lancet Oncol* 2019;20(1):31-42.

Schuster SJ et al; JULIET Investigators. *N Engl J Med* 2019;380(1):45-56.

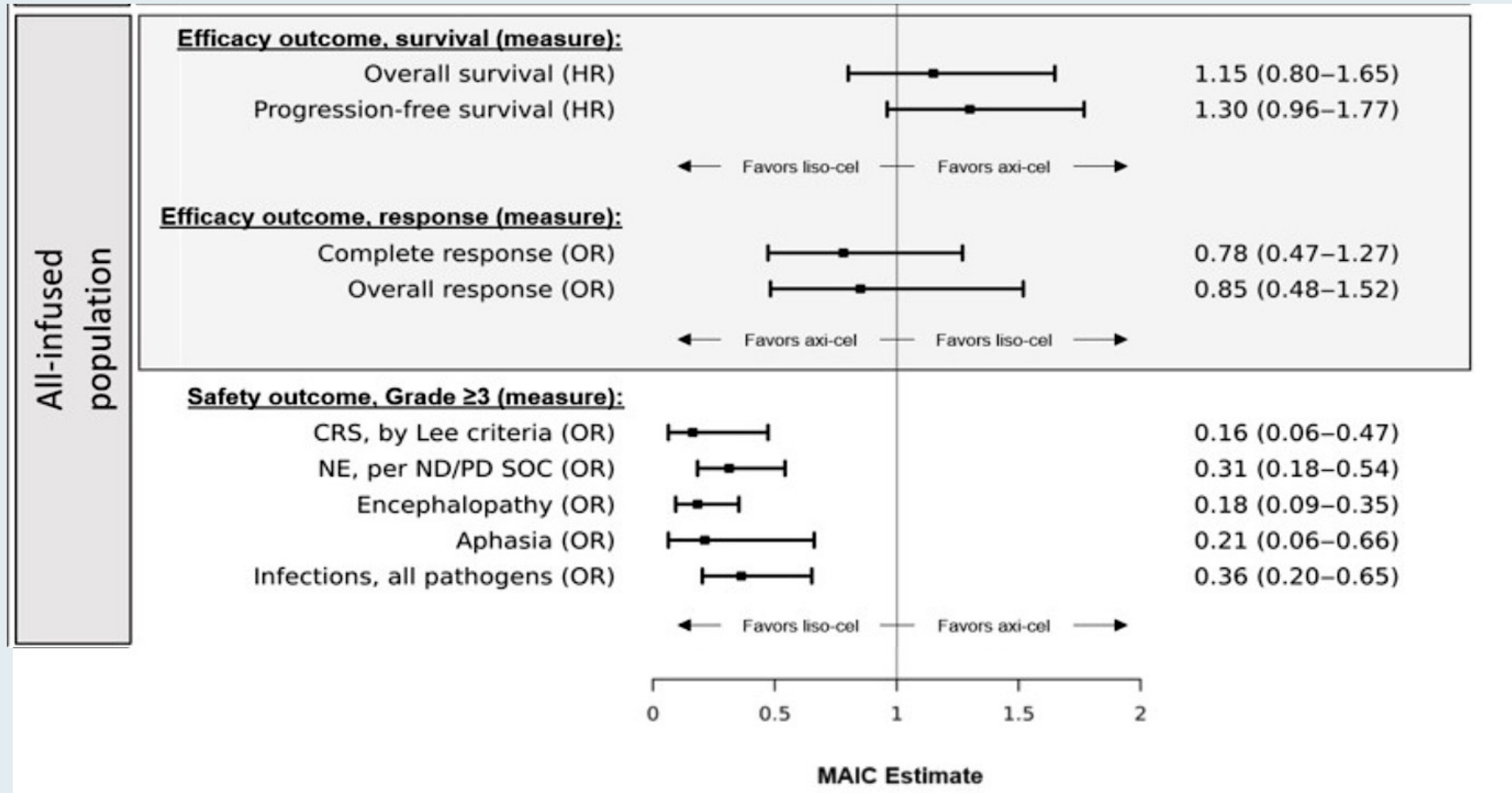
Abramson JS et al; TRANSCEND NHL 001 Investigators. *Proc ASCO* 2018;Abstract 7505.

# Matching-Adjusted Indirect Comparison (MAIC) of Lisocabtagene Maraleucel (Liso-cel) vs Axicabtagene Ciloleucel (Axi-cel) and Tisagenlecleucel in Relapsed/Refractory (R/R) Large B-Cell Lymphoma (LBCL)

Maloney DG et al.

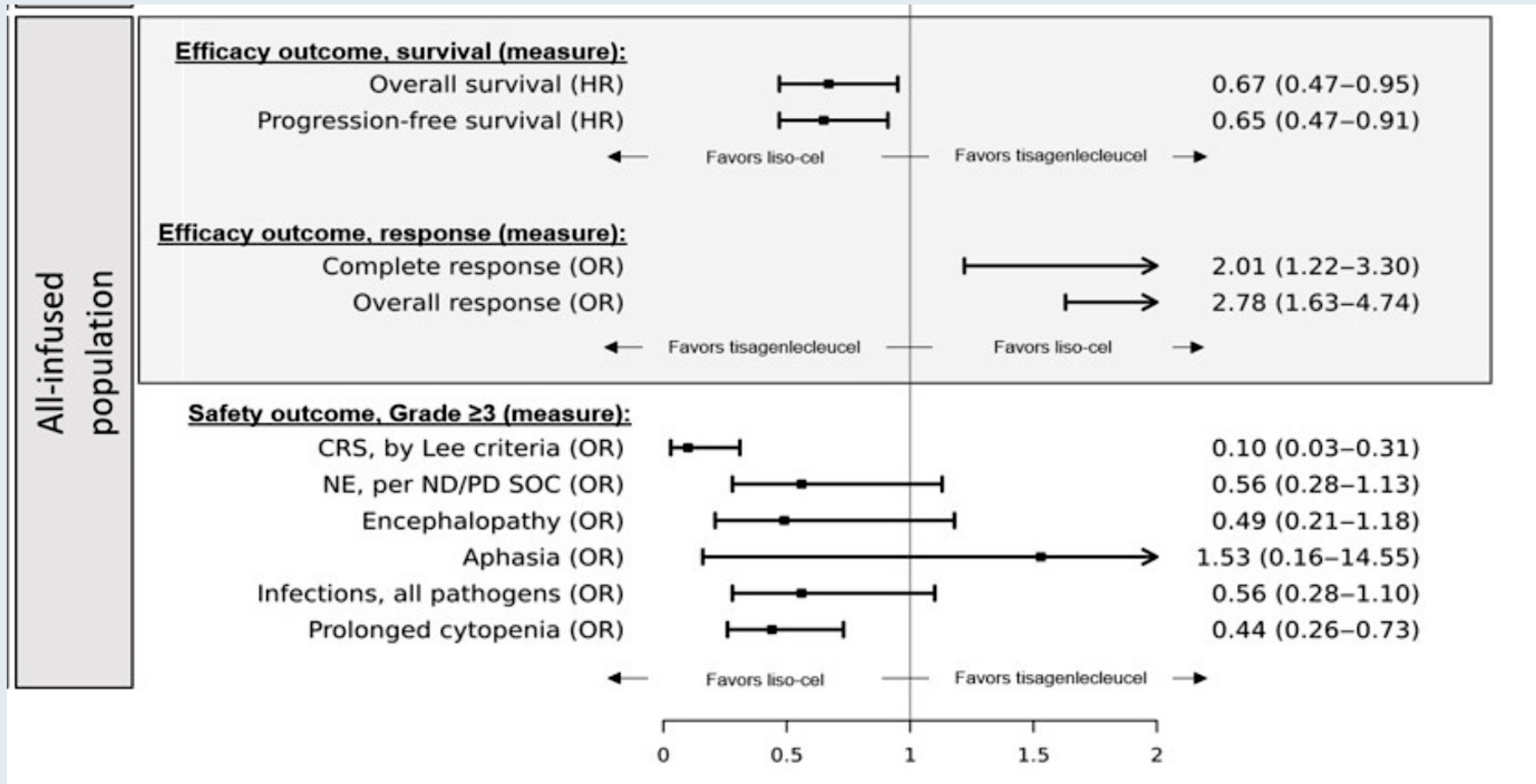
ASH 2020;Abstract 2116.

# Matching-Adjusted Indirect Comparison of Liso-cel versus Axi-cel





# Matching-Adjusted Indirect Comparison of Liso-cel versus Tisagenlecleucel



# Agenda

**Case 1 (Ms Moran): A 27-year-old woman with Hodgkin lymphoma**

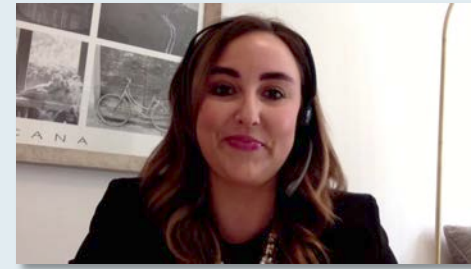
**Case 2 (Ms Klebig): A 76-year-old man with newly diagnosed follicular lymphoma**

**Case 3 (Ms Klebig): An 83-year-old woman with relapsed DLBCL**

**Case 4 (Ms Gideon): A 66-year-old woman with relapsed DLBCL**

**Case 5 (Ms Gideon): A 70-year-old man with relapsed mantle cell lymphoma**

# Case Presentation – A 70-year-old man with relapsed mantle cell lymphoma



Ms Gideon

- PMH: DM, HTN, leptomeningeal disease
- Truck driver, primary caregiver to his 92-year-old mother
- R-CHOP
- Ibrutinib/venetoclax → Symptomatic PD
- CAR T-cell therapy with brexucabtagene autoleucel
  - Grade 3 neurotoxicity for 3-4 days, requiring high-dose steroids
  - By day 30, very good PR with only inguinal adenopathy remaining

# What is generally the most common second-line therapy for patients with mantle cell lymphoma who experience disease progression on first-line BR?

1. A BTK inhibitor (eg, ibrutinib, acalabrutinib, zanubrutinib)
2. Lenalidomide/rituximab
3. Bortezomib
4. Venetoclax
5. I don't know

**Acalabrutinib may result in fewer of the toxicities commonly associated with ibrutinib, but it is noteworthy for the occurrence of \_\_\_\_\_ during the first month of treatment.**

1. Hair loss
2. Headache
3. Constipation
4. Visual disturbances
5. I don't know

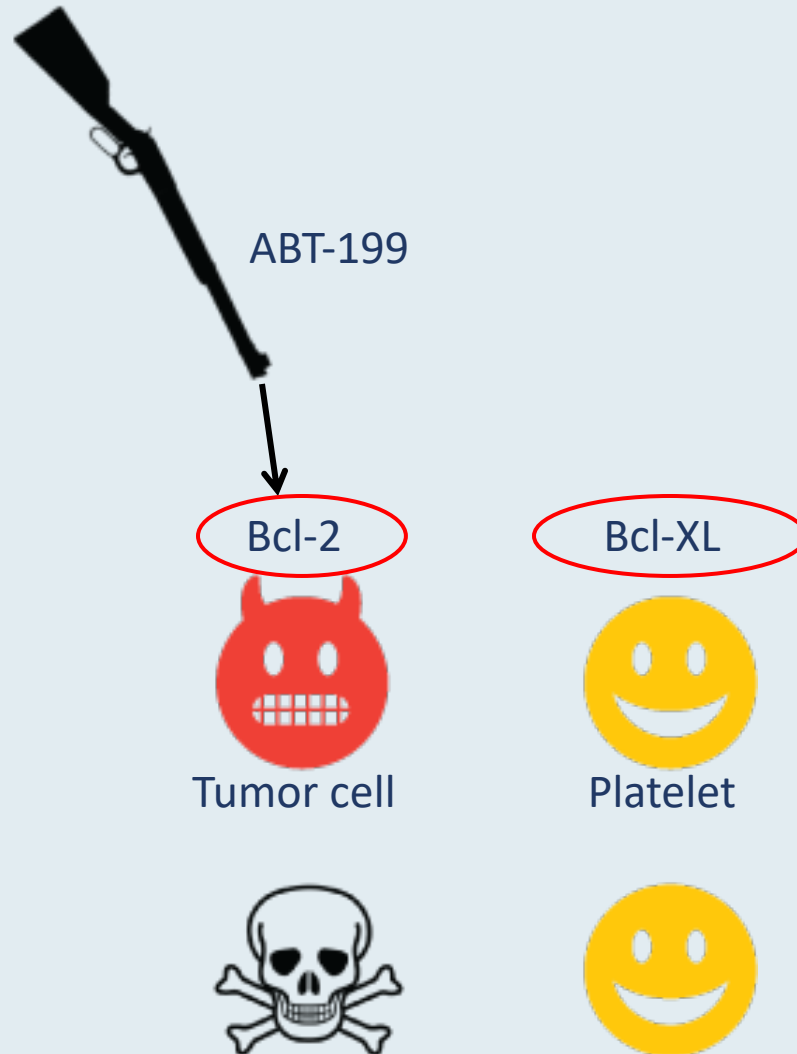
# Overview of FDA-Approved BTK Inhibitors for MCL

## Ibrutinib, Acalabrutinib and Zanubrutinib

- **Similar overall response rates, ~70-80%**
  - Better when used earlier (2<sup>nd</sup> or 3<sup>rd</sup> line)
- **Improved toxicity profile for acalabrutinib and zanubrutinib**
  - More headache with acalabrutinib, especially in first weeks of Rx – responds to caffeine
  - More specific BTKi inhibition (zanubrutinib similar to acalabrutinib)
  - Less afibrillation, bruising/bleeding, arthralgia
  - Prefer over ibrutinib if concurrent anticoagulation and/or anti-platelet therapy



# Mechanism of Action of Venetoclax (ABT-199)



- Bcl-2 functions to prevent cell death by apoptosis
- Venetoclax is specific for Bcl-2 and inhibits its function, thereby removing the block on apoptosis

# Venetoclax Monotherapy for BTK Inhibitor-Resistant MCL: Results Summary

Clinical endpoint	Venetoclax (N = 20)
Overall response rate (ORR)	60%
Complete response rate	20%
ORR (prior response to BTKi)	72.7%
ORR (primary resistance to BTKi)	44.4%
Median PFS	2.6 mo
Median OS	4.3 mo

No cases of clinical TLS were observed.

# 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.”

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

***N Engl J Med 2020;382:1331-42***

# 13<sup>th</sup> Annual Oncology Grand Rounds

*A Complimentary NCPD Live Webinar Series  
Held During the 46th Annual ONS Congress*

## Multiple Myeloma

**Tuesday, April 27, 2021**

**8:30 AM – 10:00 AM ET**

### Medical Oncologists

**Shaji K Kumar, MD**

**Sagar Lonial, MD**

**Paul G Richardson, MD**

### Oncology Nurse Practitioners

**Charise Gleason, MSN, NP-C, AOCNP**

**Patricia Mangan, RN, MSN, CRNP, APN, BC**

**Tiffany A Richards, PhD, ANP-BC, AOCNP**

### Moderator

**Neil Love, MD**

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

***NCPD credit information will be emailed  
to each participant shortly.***