

What Clinicians Want to Know About the Management of Relapsed/Refractory Mantle Cell Lymphoma

A CME/MOC-Accredited Virtual Event

Tuesday, September 26, 2023

5:00 PM – 6:00 PM ET

Faculty

Toby A Eyre, MBChB, DipMedEd, MRCP, MD

Brad S Kahl, MD

Moderator

Neil Love, MD

Faculty



Toby A Eyre, MBChB, DipMedEd, MRCP, MD
Haematology Consultant
Honorary Senior Clinical Lecturer in Haematology
Oxford University Hospitals NHS Foundation Trust
Churchill Hospital, Headington
Oxford, United Kingdom



Moderator
Neil Love, MD
Research To Practice



Brad S Kahl, MD
Professor of Medicine
Washington University School of Medicine
Director, Lymphoma Program
Siteman Cancer Center
St Louis, Missouri

Commercial Support

This activity is supported by an educational grant from Lilly.

Dr Love — Disclosures

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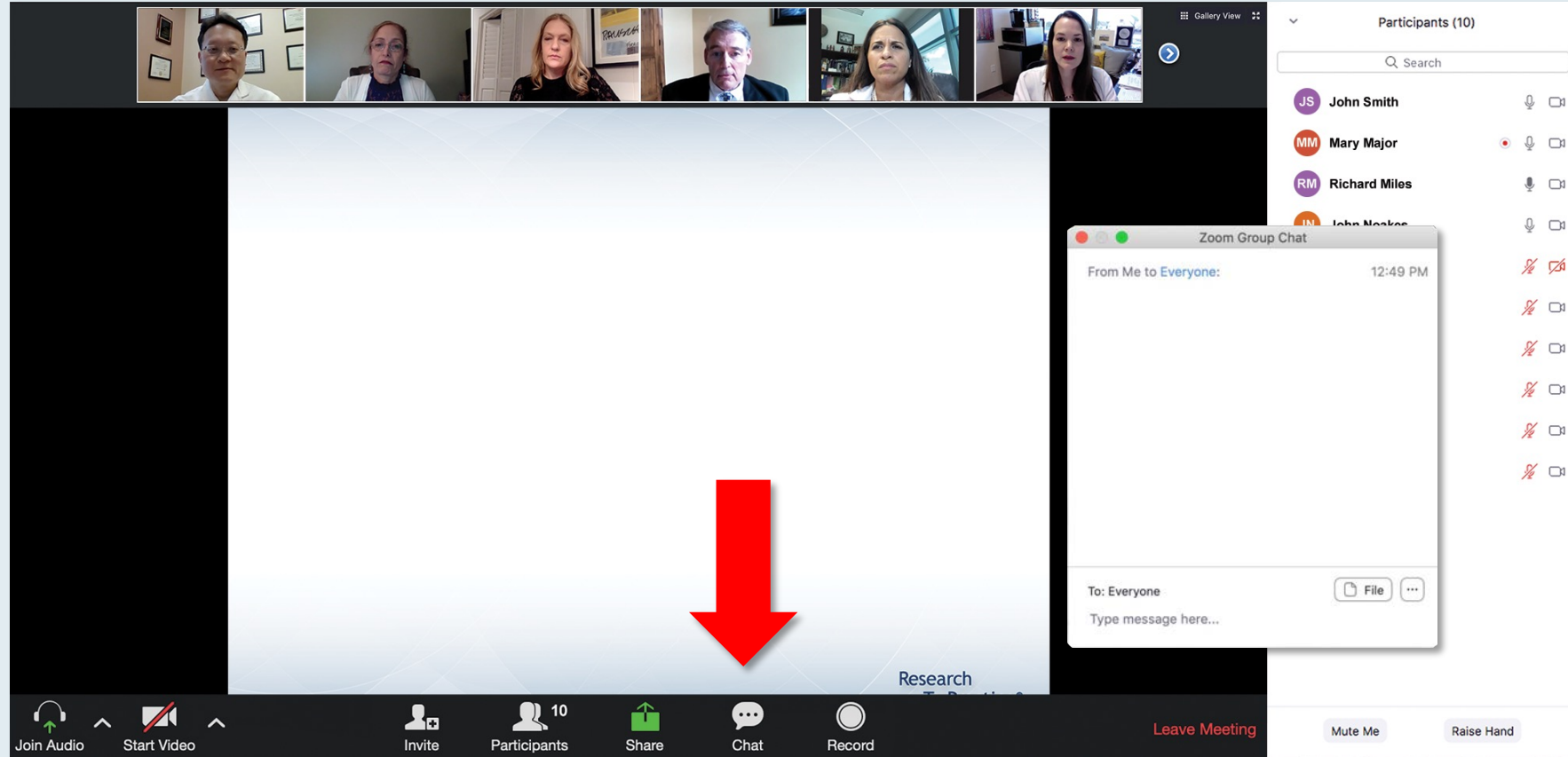
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We Encourage Clinicians in Practice to Submit Questions



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. A 'Recording...' indicator is visible in the top left. The main content is a slide titled 'Meet The Professor Program Participating Faculty' with six faculty members listed:

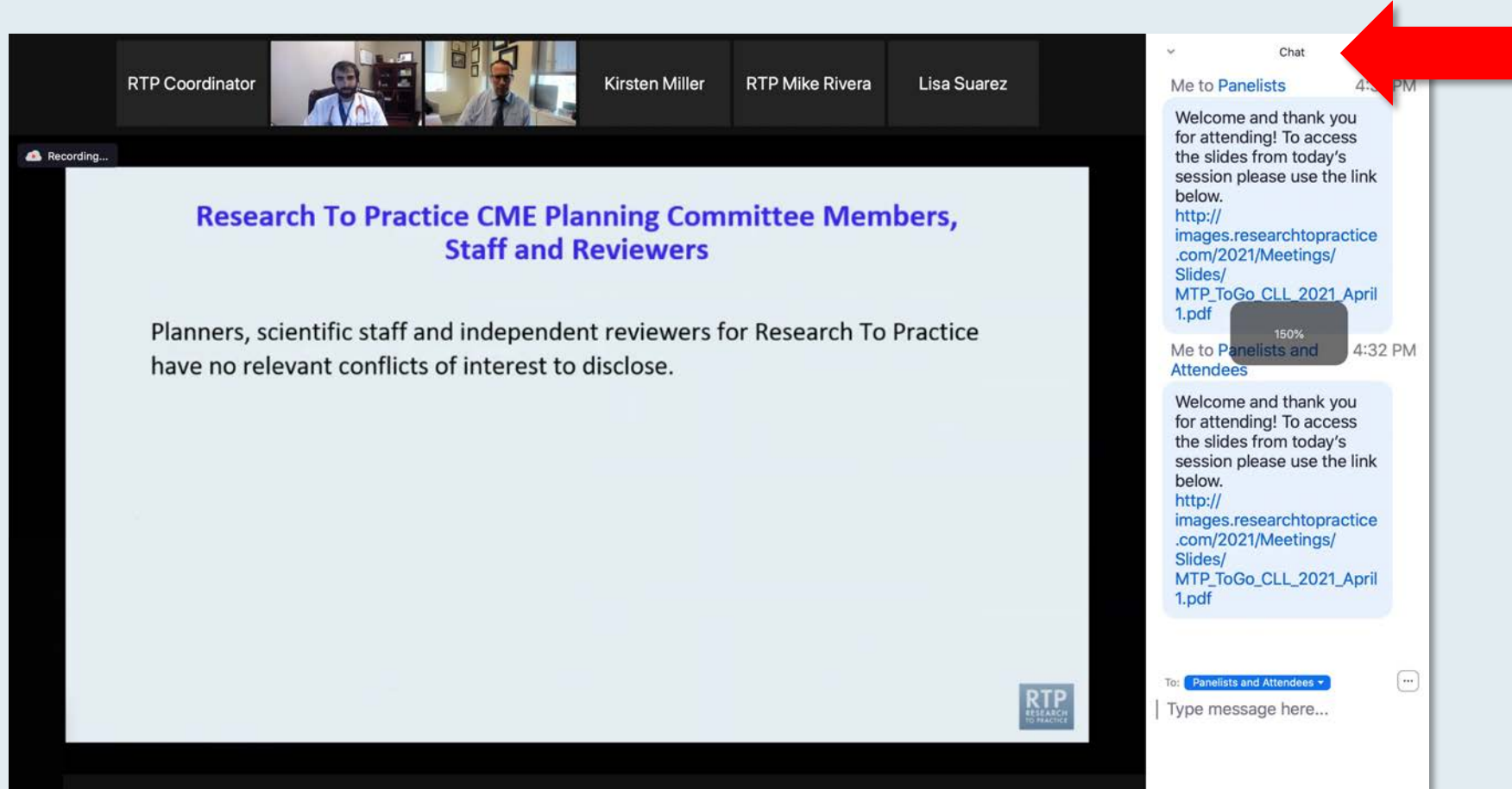
- Nancy L Bartlett, MD**
Professor of Medicine
Koman Chair in Medical Oncology
Washington University School of Medicine
St Louis, Missouri
- Jonathan W Friedberg, MD, MMSc**
Samuel E Durand Professor of Medicine
Director, James P Wilmot Cancer Institute
University of Rochester
Rochester, New York
- Carla Casulo, MD**
Associate Professor of Medicine
Division of Hematology/Oncology
Director, Hematology/Oncology Fellowship Program
University of Rochester
Wilmot Cancer Institute
Rochester, New York
- Brian T Hill, MD, PhD**
Director, Lymphoid Malignancy Program
Cleveland Clinic Taussig Cancer Institute
Cleveland, Ohio
- Christopher R Flowers, MD, MS**
Chair, Professor
Department of Lymphoma/Myeloma
The University of Texas MD Anderson Cancer Center
Houston, Texas
- Brad S Kahl, MD**
Professor of Medicine
Washington University School of Medicine
Director, Lymphoma Program
Siteman Cancer Center
St Louis, Missouri

The chat window on the right is expanded, showing a message from 'Me to Panelists' at 4:31 PM and another from 'Me to Panelists and Attendees' at 4:32 PM. A red arrow points to the white line above the chat submission box, which is used to expand the chat area.

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.**

Clinicians in the Audience, Please Complete the Pre- and Postmeeting Surveys

The screenshot shows a Zoom meeting with a presentation slide on the left and a 'Quick Survey' overlay on the right. The slide text reads: 'Meet The Prof...', 'Optimizing the Selection and...', 'of Therapy for Patients with...', 'Gastrointestinal Ca...', 'Wednesday, August 25, 5:00 PM – 6:00 PM E...', 'Faculty Wells A Messersmith, Moderator Neil Love, MD'. The survey overlay lists several treatment combinations with radio buttons for selection: 'Carfilzomib +/- dexamethasone', 'Pomalidomide +/- dexamethasone', 'Carfilzomib + pomalidomide +/- dexamethasone', 'Eltuzumab + lenalidomide +/- dexamethasone', 'Eltuzumab + pomalidomide +/- dexamethasone', 'Daratumumab + lenalidomide +/- dexamethasone', 'Daratumumab + pomalidomide +/- dexamethasone', 'Daratumumab + bortezomib +/- dexamethasone', and 'Ixazomib + Rd'. A 'Submit' button is at the bottom of the survey. The Zoom interface includes a top video bar with 7 participants, a 'Participants (10)' list on the right, and a bottom toolbar with 'Join Audio', 'Start Video', 'Invite', 'Participants', 'Share', 'Chat', 'Record', 'Leave Meeting', 'Mute Me', and 'Raise Hand'.

The screenshot shows a Zoom meeting with a presentation slide on the left and a 'Quick Poll' overlay on the right. The slide text reads: 'Regulatory and reimbursement issues aside, which would you recommend for a 65-year-old patient with clear cell renal cell carcinoma (ccRCC) if follow-up 3 years later is found to have asymptomatic (PS 0)?'. The poll overlay lists 8 options with radio buttons: '1. Nivolumab/ipilimumab', '2. Avelumab/axitinib', '3. Pembrolizumab/axitinib', '4. Pembrolizumab/lenvatinib', '5. Nivolumab/cabozantinib', '6. Tyrosine kinase inhibitor (TKI) monotherapy', '7. Anti-PD-1/PD-L1 monotherapy', and '8. Other'. A 'Submit' button is at the bottom of the poll. The Zoom interface is identical to the first screenshot, showing the same participants and toolbar.

ONCOLOGY TODAY

WITH DR NEIL LOVE

What Clinicians Want to Know About Toxicity Considerations Associated with BTK Inhibitors



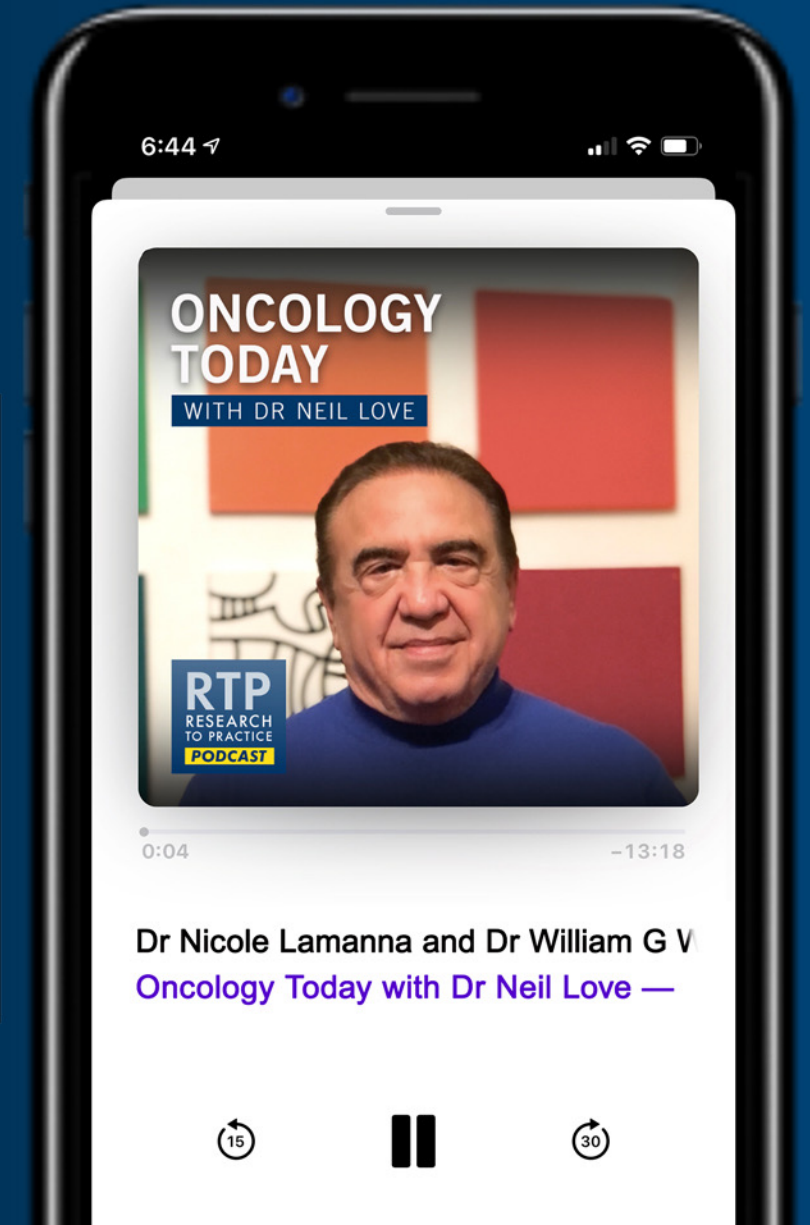
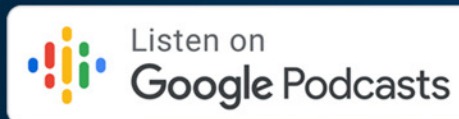
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CANCER CENTER



DR WILLIAM G WIERDA

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Faculty

Peter C Enzinger, MD

Moderator

Neil Love, MD

Inside the Issue: Optimizing the Management of Nonmelanoma Skin Cancer

A CME/MOC-Accredited Live Webinar

Tuesday, October 3, 2023

5:00 PM – 6:00 PM ET

Faculty

Nikhil I Khushalani, MD

Anna C Pavlick, DO, MBA

Moderator

Neil Love, MD

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Current Approaches and Future Strategies in Oncology

*A Multitumor Educational Symposium in Partnership
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Saturday, October 7, 2023

ER-Positive Breast Cancer

7:15 AM – 8:15 AM ET

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Prostate Cancer

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Lymphoma

**9:30 AM – 10:30 AM PT
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March 22-24, 2024

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To Learn More or to Register, Visit
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Thank you for joining us!

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

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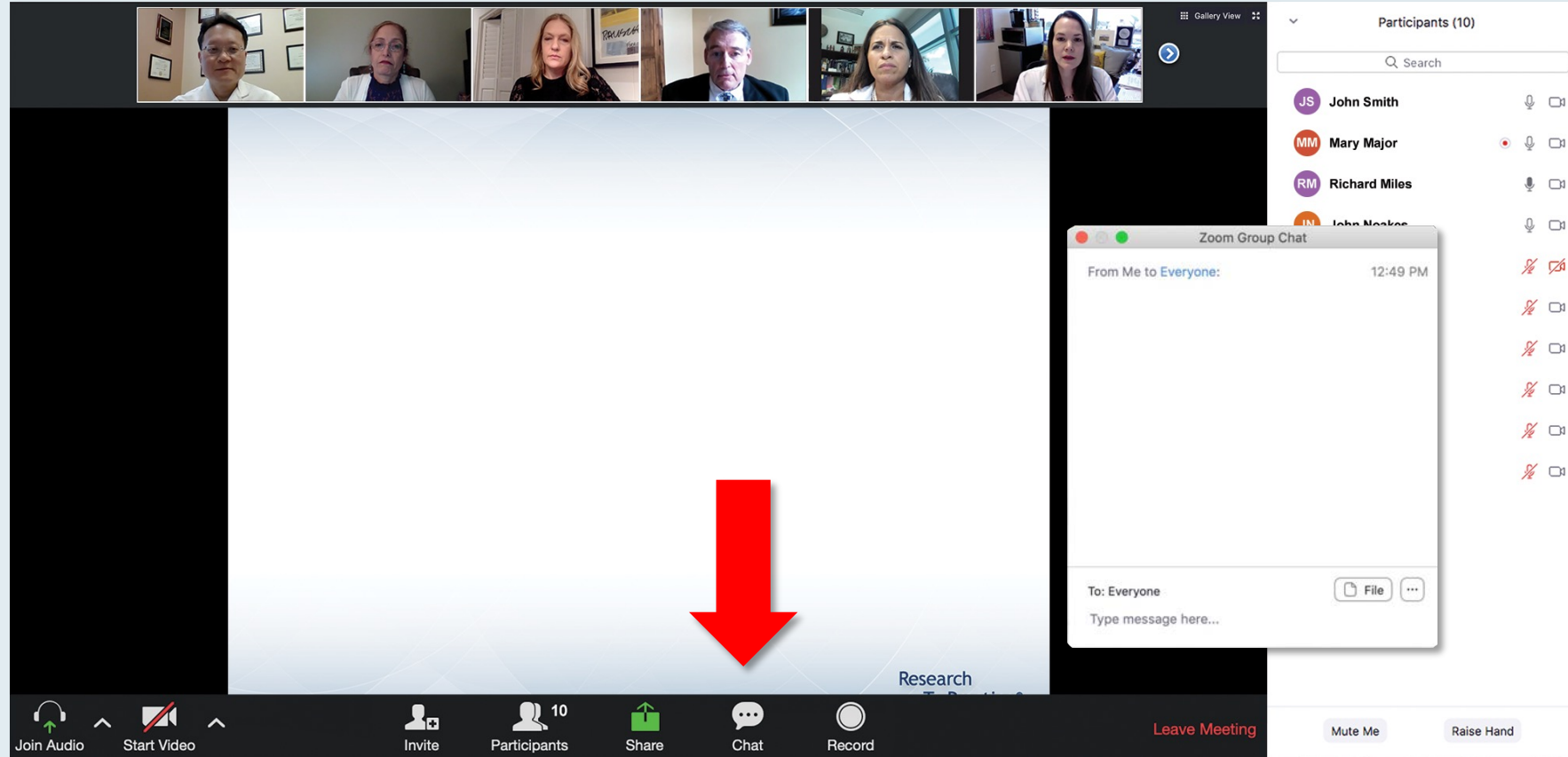


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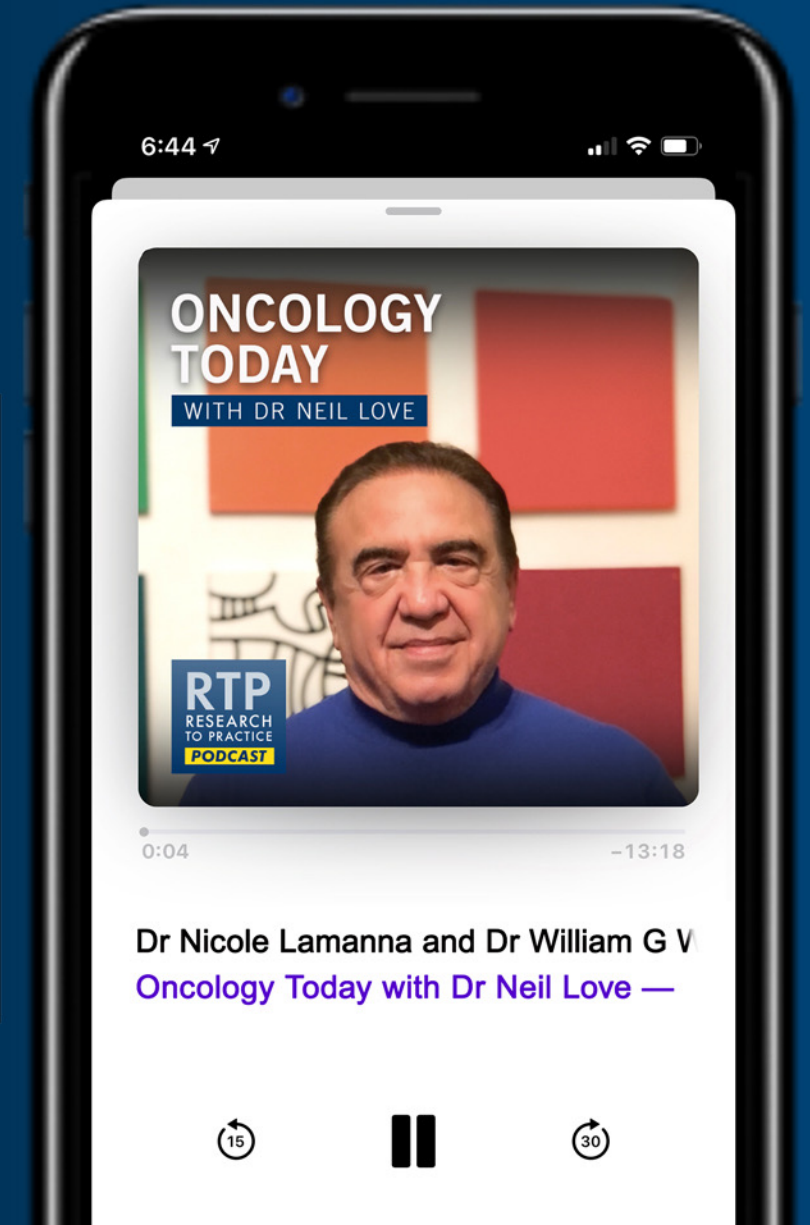
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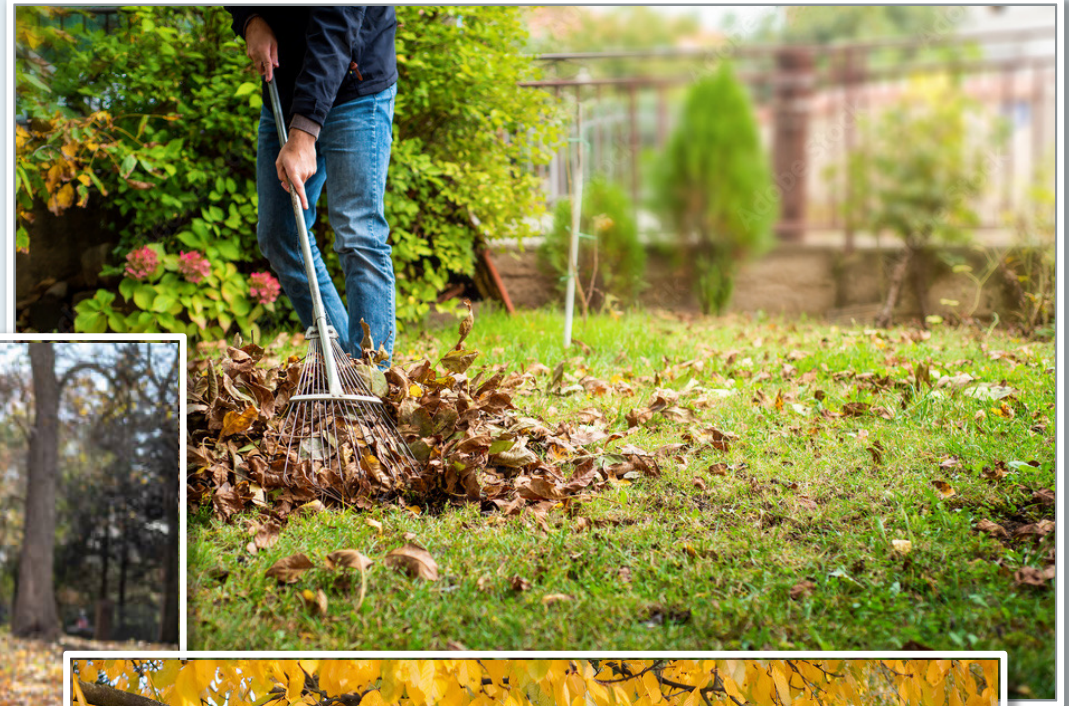
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Lynn Cancer Institute
Boca Raton, Florida



Neil Morganstein, MD
Atlantic Health System
Summit, New Jersey



Zanetta S Lamar, MD
Florida Cancer
Specialists and Research Institute
Naples, Florida



Henna Malik, MD
Texas Oncology
Houston, Texas



Eric H Lee, MD, PhD
Compassionate Cancer Care
Medical Group
Fountain Valley, California



Michael Wang, MD
MD Anderson Cancer Center
Houston, Texas

Agenda

INTRODUCTION: Mantle Cell Lymphoma (MCL) and the General Medical Oncologist

MODULE 1: Sequencing of Therapy for MCL: 2009 – 2025

MODULE 2: Cases and Questions from the Community

APPENDIX

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APPENDIX

Questions and Comments: Frequency of MCL in general medical oncology practice, common questions from general medical oncologists (GMOs)



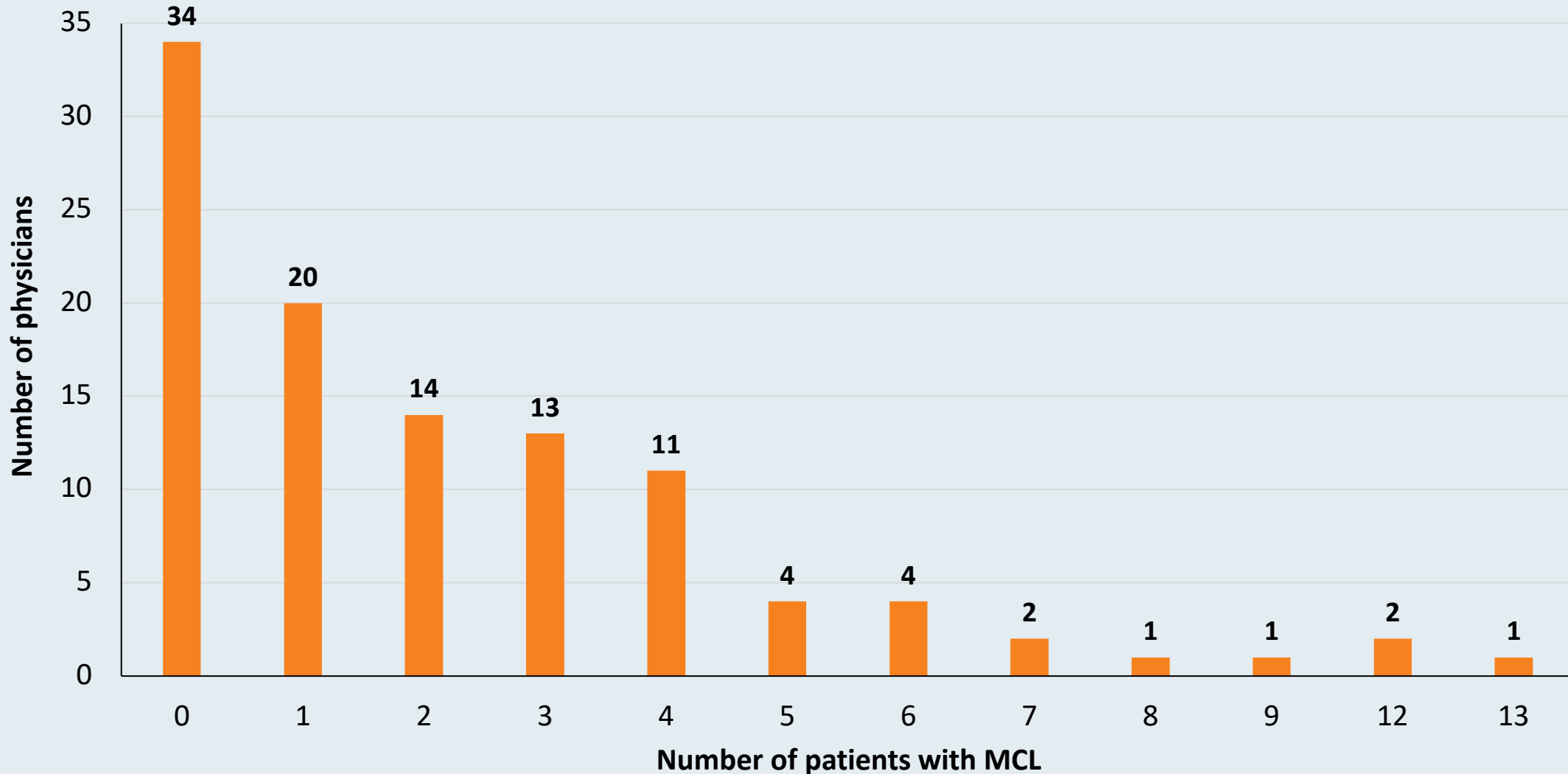
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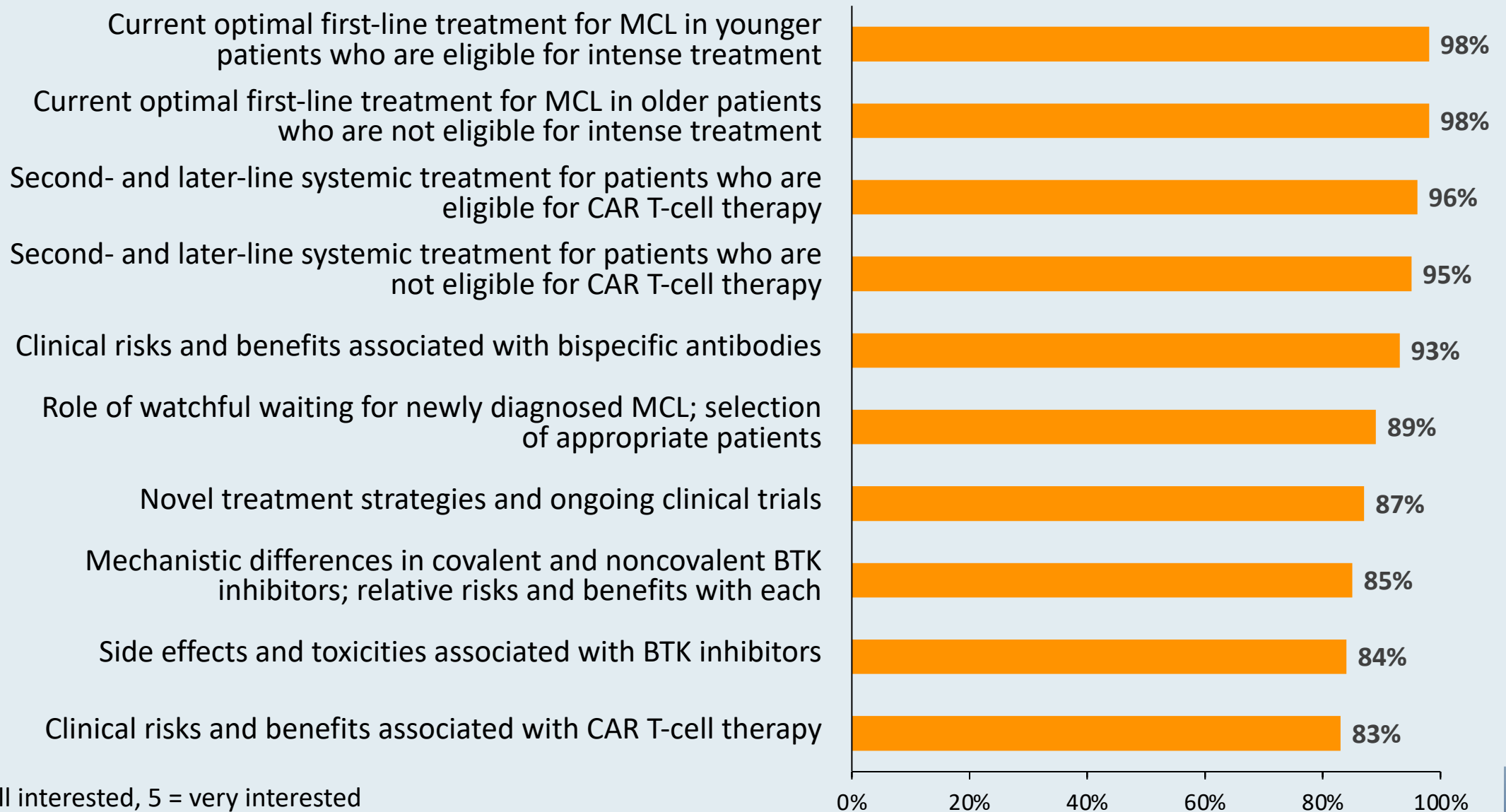
Dr Zanetta Lamar (Naples, Florida)

Patients with MCL Seen During the Past Year in the American Oncology Network

243 patients; 107 physicians



Level of Interest in Listening to Clinical Investigators Discuss the Following Topics: Proportion of Participants Who Responded 4 or 5*



*1 = not at all interested, 5 = very interested

Survey of US-based general medical oncologists, August 2023. N = 55

Agenda

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MODULE 1: Sequencing of Therapy for MCL: 2009 – 2025

MODULE 2: Cases and Questions from the Community

APPENDIX

Management of Relapsed/Refractory MCL

2009 – 2013

- **First line:** Chemoimmunotherapy (bendamustine/rituximab)
- **Second line:** Targeted treatment (lenalidomide, bortezomib)

2023

- **First line:** Chemoimmunotherapy (bendamustine/rituximab)
- **Second line:**
 - Noncovalent BTK inhibitor (ibrutinib, acalabrutinib, zanubrutinib)
 - Targeted treatment (venetoclax +/- rituximab)
- **Third line and beyond:**
 - Covalent BTK inhibitor (pirtobrutinib)
 - CAR T-cell therapy (brexucabtagene autoleucel)

2025?

- **First line:** BTK inhibitor/anti-CD20 antibody/venetoclax with or without chemotherapy
- **Second line:**
 - Covalent BTK inhibitor (pirtobrutinib)
 - CAR T-cell therapy (brexucabtagene autoleucel)
 - ? Bispecific antibodies (glofitamab)

Questions and Comments: Front-line treatment without chemotherapy



Dr Michael Wang (Houston, Texas)

Three generations of BTK inhibitors

FIRST GENERATION

Ibrutinib

covalently binds to **Cys481 residue** in BTK resulting in blocking of enzymatic activity

SECOND GENERATION

Acalabrutinib

Zanubrutinib

Orelabrutinib

THIRD GENERATION

Nemtabrutinib

Pirtobrutinib

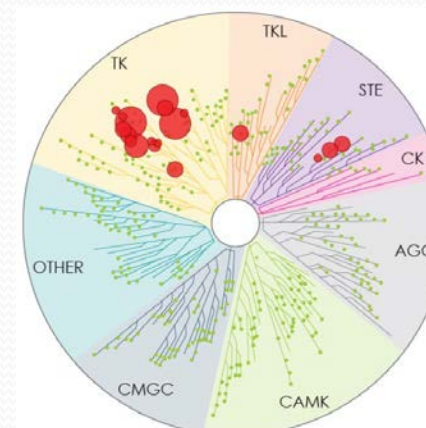
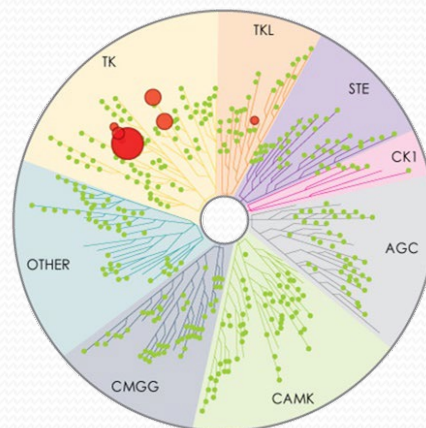
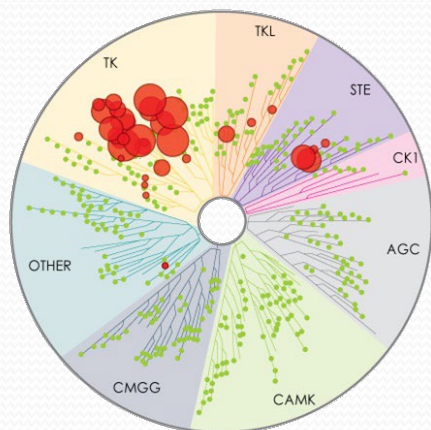
Vecabrutinib

Covalent BTKi: different kinase selectivity

Ibrutinib

Acalabrutinib

Zanubrutinib



IC₅₀/EC₅₀ (nM)

Kinase	Ibrutinib	Acalabrutinib	Zanubrutinib
BTK	1.5	5.1	0.5
TEC	10	126	44
ITK	4.9	> 1000	50
BMX	0.8	46	1.4
EGFR	5.3	> 1000	21
ERBB4	3.4	16	6.9
JAK3	32	> 1000	1377
BLK	0.1	> 1000	2.5

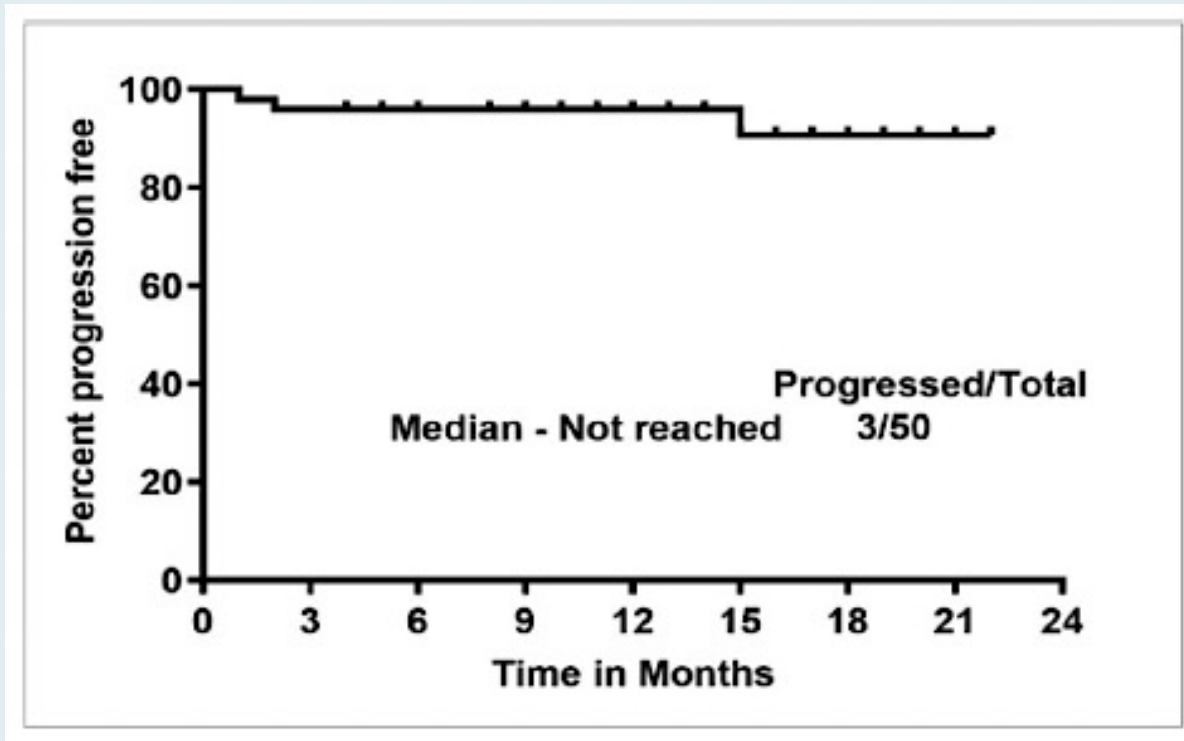
Acalabrutinib with Rituximab as First-Line Therapy for Older Patients (≥ 65) with Mantle Cell Lymphoma – A Phase II Clinical Trial

Jain P et al.

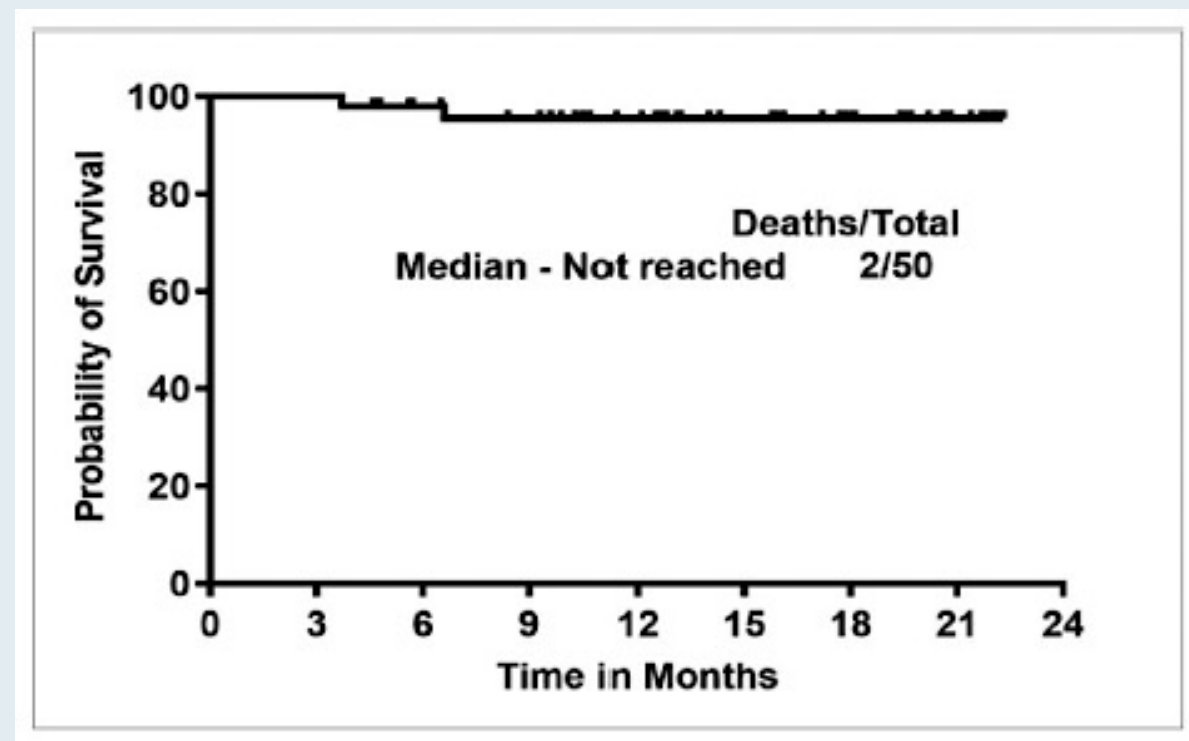
ICML 2023;Abstract 099.

Progression-Free Survival (PFS) and Overall Survival (OS) with Acalabrutinib/Rituximab as First-Line Therapy for Older Patients with MCL

PFS



OS



Response: ORR = 94% (CR = 90%, PR = 4%), nonevaluable = 6%

Acalabrutinib plus Venetoclax and Rituximab in Patients with Treatment-Naïve Mantle Cell Lymphoma: 2-Year Safety and Efficacy Analysis

Wang M et al.

Blood 2022;140(Supplement 1):6477-9.

Study Design

Enrollment target: 20-32 patients

Key inclusion criteria

- Adults with treatment-naïve MCL
- ECOG PS ≤ 2

Key exclusion criteria

- Any history of CNS lymphoma or leptomeningeal disease
- Significant CV disease



Acalabrutinib

Starting cycle 1, day 1 with 100 mg BID until disease progression or discontinuation for other reasons

+

Venetoclax

Starting on cycle 2, day 1 with initial 5-week ramp-up (20, 50, 100, and 200 mg/d) to 400 mg daily, through cycle 25

+

Rituximab

375 mg/m² on day 1 of each 28-day cycle for 6 cycles, followed by maintenance every other cycle for patients achieving CR or PR through cycle 24

Primary endpoint

- Safety profile of AVR

Secondary endpoints per Lugano criteria*

- Overall response rate
- Duration of response
- Progression-free survival

Exploratory endpoint

- Minimal residual disease

DLT was assessed from cycle 2, day 1 to cycles 3, day 28[†]

* Efficacy endpoints evaluated per the Lugano classification for non-Hodgkin lymphoma, which requires PET/CT and bone marrow biopsy confirmation of a CR.

[†] DLTs were evaluated in the first 6 patients enrolled.

AVR = acalabrutinib + venetoclax + rituximab; BID = twice daily; CNS = central nervous system; CR = complete response; CT = computed tomography; CV = cardiovascular; DLT = dose-limiting toxicity; ECOG PD = Eastern Cooperative Oncology Group performance status; MCL = mantle cell lymphoma; PET = positron-emission tomography; PR = partial response.

WINDOW-2 Trial Objectives

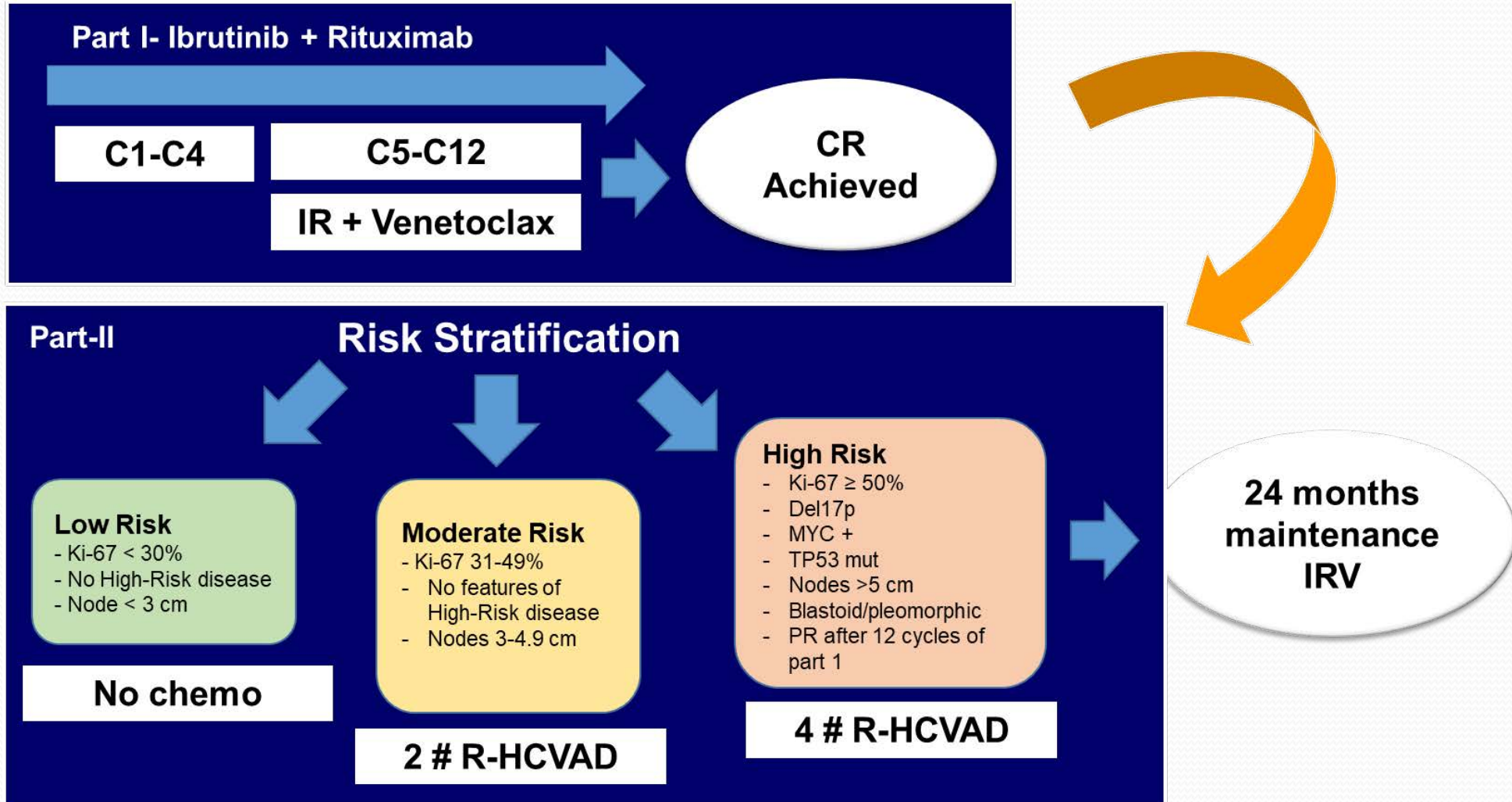
➤ Primary Objective

- **Efficacy- CR PART A:** Complete response rate of the ibrutinib plus rituximab combination followed by venetoclax in newly diagnosed young MCL patients.

➤ Secondary Objectives

- **PFS, OS, and safety**

Treatment Schema



Responses

Response (ITT)	All patients
Part A – IR Best response	N (%)
Evaluable patients	46
ORR	44 (88)
CR	23 (46)
Part A – IRV Best response	
Evaluable patients	46
ORR	46 (96)
CR	46 (92)

- **Two pts had isolated GI/BM disease with CR on part A**
- **Best response to IRV was 100% and CR of 100% (no ITT)**
- **The median number of cycles of triplet IRV to reach best response was 8 cycles (range 2-12)**

Median number of cycles of chemo R-HCVAD was 2 (range 0-4); 3 pts got only one cycle of chemo and discontinued due to AEs; ORR and CR with part B (no ITT) 100%

TRIANGLE:

autologous Transplantation after a
Rituximab/Ibrutinib/Ara-c containing iNduction
in Generalized mantle cell Lymphoma –
a randomized European mcl network trial

M Dreyling, J Doorduijn, E Giné, M Jerkeman, J Walewski, M Hutchings, U Mey, J Riise, M Trneny, V Vergote, M Celli, O Shpilberg,
M Gomes da Silva, S Leppa, L Jiang, C Pott, W Klapper, D Gözel, C Schmidt, M Unterhalt, M Ladetto*, E Hoster

LMU University Hospital Munich, Germany; Erasmus MC Cancer Institute, University Medical Center Rotterdam, Netherlands; Hospital Clinic of
Barcelona, Spain; Skane University Hospital and Lund University, Lund, Sweden; Maria Sklodowska-Curie National Research Institute of
Oncology, Warsaw, Poland; Rigshospitalet, Copenhagen University Hospital, Denmark; Kantonsspital Graubuenden, Chur, Switzerland; Oslo
University Hospital, Oslo, Norway; Charles University and General University Hospital, Prague, Czech Republic; University Hospitals Leuven,
Belgium; Ospedale degli Infermi di Rimini, Italy; Assuta Ramat Hahayal Medical Center, Tel Aviv, Israel; Instituto Português de Oncologia,
Lisboa, Portugal; Helsinki University Hospital Comprehensive Cancer Center, Finland;
IBE, LMU University Munich, Germany; University of Schleswig-Holstein, Kiel, Germany; Az Ospedaliera Santi Antonio e Biagio e Cesare
Arrigo, Alessandria, Italy

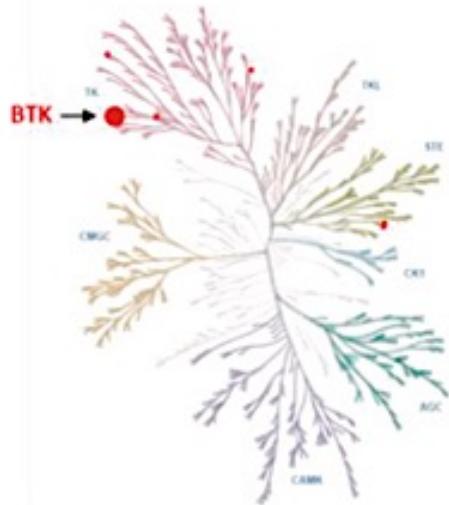
Ibrutinib plus Bendamustine and Rituximab in Untreated Mantle-Cell Lymphoma

Michael L. Wang, M.D., Wojciech Jurczak, M.D., Ph.D., Mats Jerkeman, M.D., Ph.D.,
Judith Trotman, F.R.A.C.P., Pier L. Zinzani, M.D., Ph.D., David Belada, M.D., Ph.D.,
Carola Boccomini, M.D., Ian W. Flinn, M.D., Ph.D., Pratyush Giri, F.R.A.C.P.,
Andre Goy, M.D., Paul A. Hamlin, M.D., Olivier Hermine, M.D., Ph.D.,
José-Ángel Hernández-Rivas, M.D., Ph.D., Xiaonan Hong, M.D.,
Seok Jin Kim, M.D., Ph.D., David Lewis, F.R.C.Path., Ph.D.,
Yuko Mishima, M.D., Ph.D., Muhit Özcan, M.D., Guilherme F. Perini, M.D.,
Christopher Pocock, M.D., Ph.D., Yuqin Song, M.D., Ph.D.,
Stephen E. Spurgeon, M.D., John M. Storing, M.D., Jan Walewski, M.D.,
Jun Zhu, M.D., Ph.D., Rui Qin, Ph.D., Todd Henninger, Ph.D.,
Sanjay Deshpande, M.D., Angela Howes, Ph.D., Steven Le Gouill, M.D., Ph.D.,
and Martin Dreyling, M.D., for the SHINE Investigators*

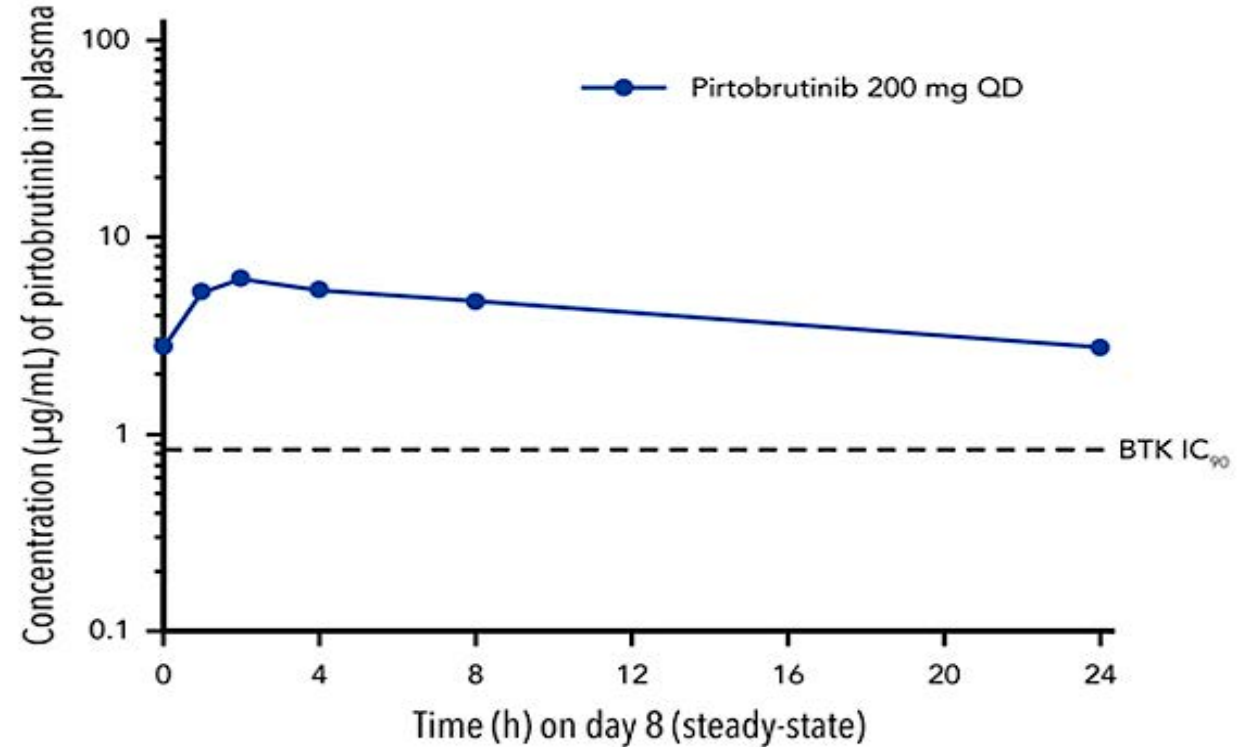
N Engl J Med 2022;386(26):2482-94

Noncovalent BTK Inhibitor Pirtobrutinib

Mechanism of action: Highly selective for BTK.



Pharmacology: Long half-life with concentration exceeding IC_{90} throughout the dosing interval.



FDA Grants Accelerated Approval to Pirtobrutinib for Relapsed or Refractory Mantle Cell Lymphoma

Press Release: January 27, 2023

“On January 27, 2023, the Food and Drug Administration (FDA) granted accelerated approval to pirtobrutinib for relapsed or refractory mantle cell lymphoma (MCL) after at least two lines of systemic therapy, including a BTK inhibitor.

Efficacy was evaluated in BRUIN (NCT03740529), an open-label, multicenter, single-arm trial of pirtobrutinib monotherapy that included 120 patients with MCL previously treated with a BTK inhibitor. Patients had a median of 3 prior lines of therapy, with 93% having 2 or more prior lines. The most common prior BTK inhibitors received were ibrutinib (67%), acalabrutinib (30%), and zanubrutinib (8%); 83% had discontinued their last BTK inhibitor due to refractory or progressive disease. Pirtobrutinib was administered orally at 200 mg once daily and was continued until disease progression or unacceptable toxicity.”

J Clin Oncol 2023 May 16;[Online ahead of print].

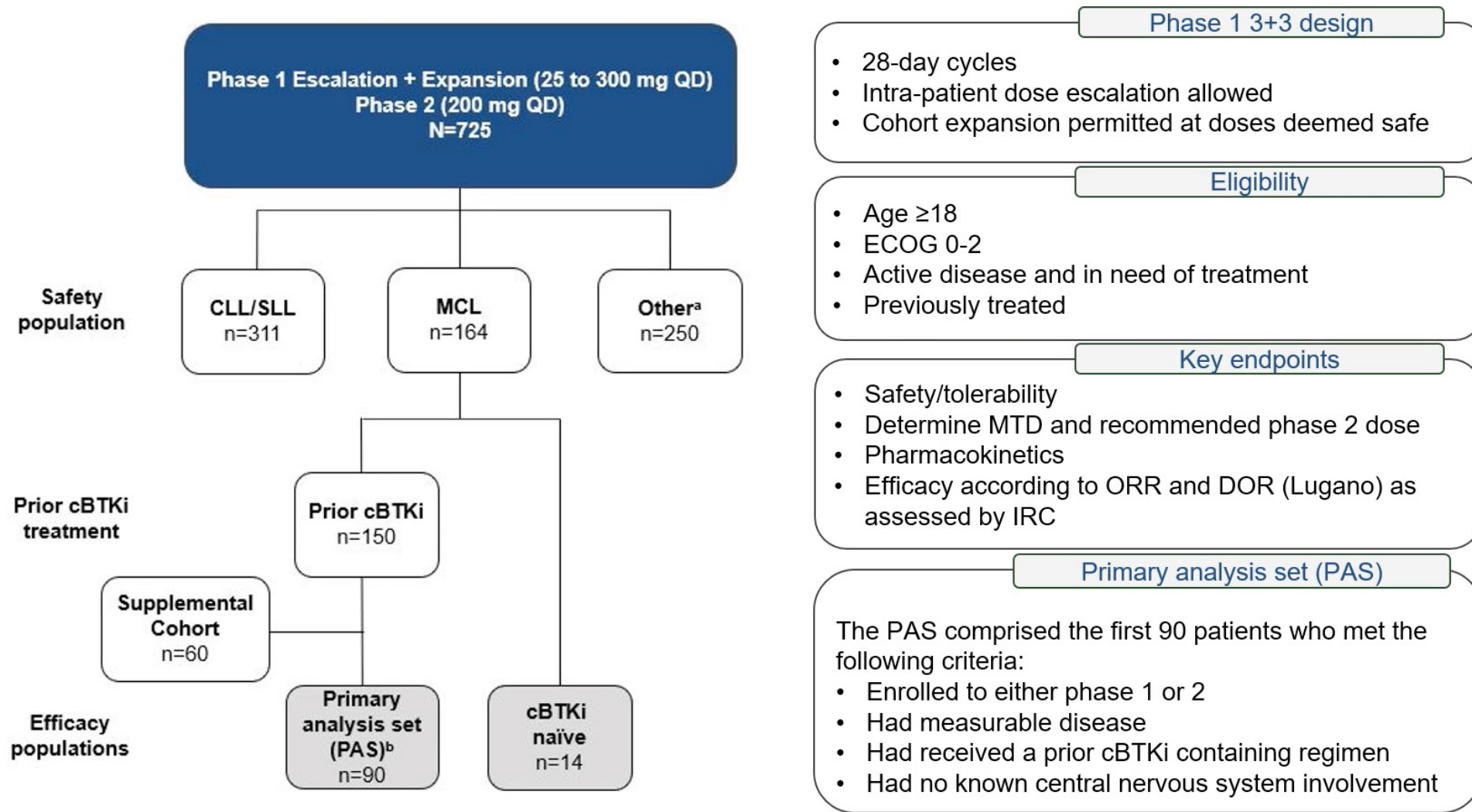
Rapid Communications

① Pirtobrutinib in Covalent Bruton Tyrosine Kinase Inhibitor Pretreated Mantle-Cell Lymphoma

Michael L. Wang, MD¹ ; Wojciech Jurczak, MD, PhD²; Pier Luigi Zinzani, MD, PhD^{3,4} ; Toby A. Eyre, MD, MBChB, DipMedEd, MRCP, FRCPath⁵ ; Chan Y. Cheah, MD^{6,7} ; Chaitra S. Ujjani, MD⁸; Youngil Koh, MD⁹ ; Koji Izutsu, MD, PhD¹⁰ ; James N. Gerson, MD¹¹; Ian Flinn, MD, PhD¹² ; Benoit Tessoulin, MD¹³ ; Alvaro J. Alencar, MD¹⁴ ; Shuo Ma, MD, PhD¹⁵ ; David Lewis, PhD, MBChB¹⁶ ; Ewa Lech-Maranda, MD, PhD¹⁷ ; Joanna Rhodes, MD^{18,19} ; Krish Patel, MD²⁰ ; Kami Maddocks, MD²¹; Nicole Lamanna, MD²² ; Yucai Wang, MD, PhD²³ ; Constantine S. Tam, MD²⁴ ; Talha Munir, MBBS²⁵ ; Hirokazu Nagai, MD, PhD²⁶; Francisco Hernandez-Ilizaliturri, MD²⁷; Anita Kumar, MD²⁸ ; Timothy S. Fenske, MD, MS²⁹ ; John F. Seymour, PhD, MBBS, FRACP²⁴ ; Andrew D. Zelenetz, MD, PhD²⁸ ; Binoy Nair, PhD³⁰; Donald E. Tsai, MD, PhD³⁰; Minna Balbas, PhD³⁰; Richard A. Walgren, MD, PhD³⁰; Paolo Abada, MD, PhD³⁰ ; Chunxiao Wang, PhD³¹; Junjie Zhao, PhD³⁰; Anthony R. Mato, MD, MSCE²⁸ ; and Nirav N. Shah, MD²⁹ 

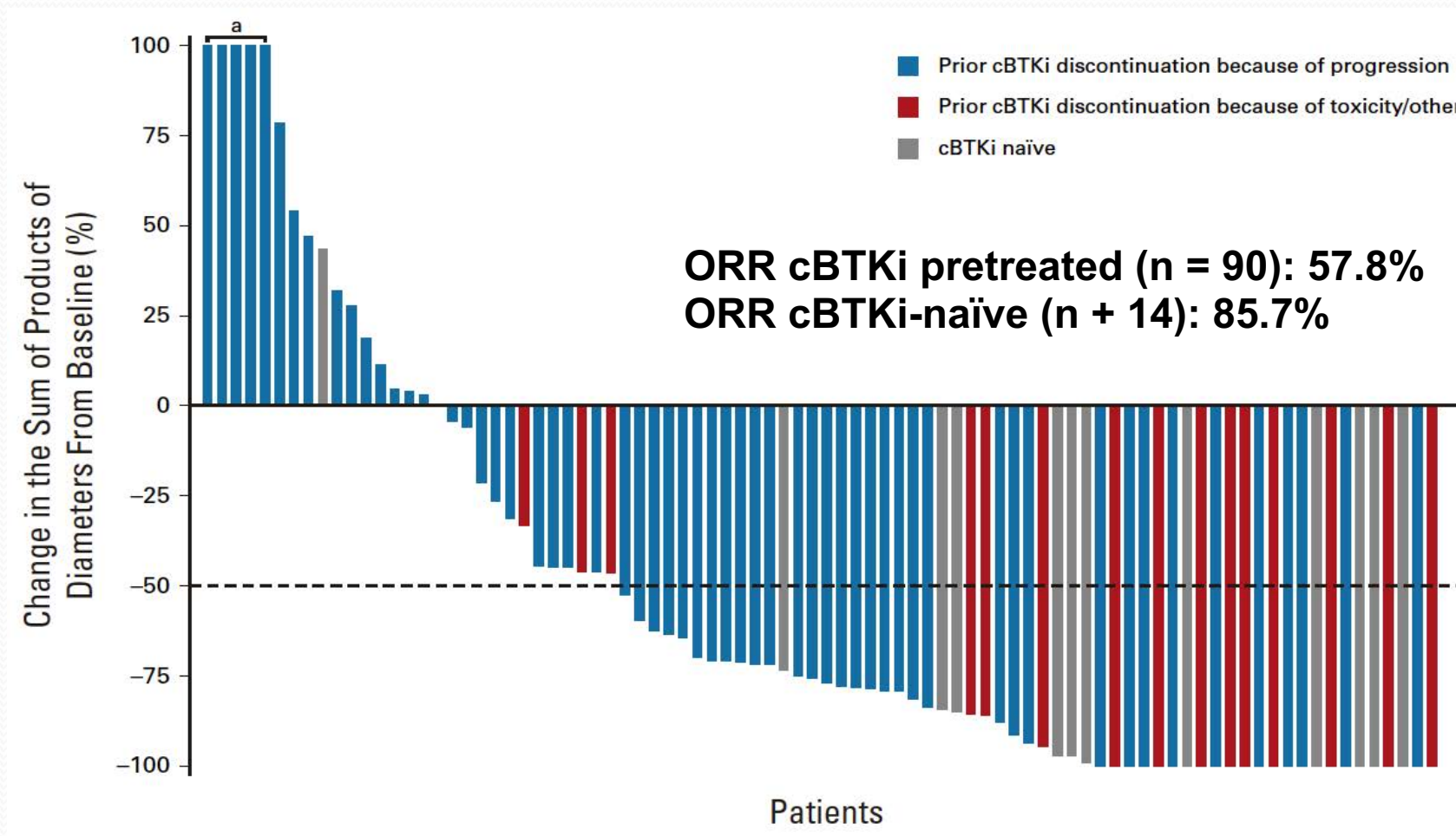
DOI <https://doi.org/10.1200/JCO.23.00562>

Phase 1/2 BRUIN Study Design



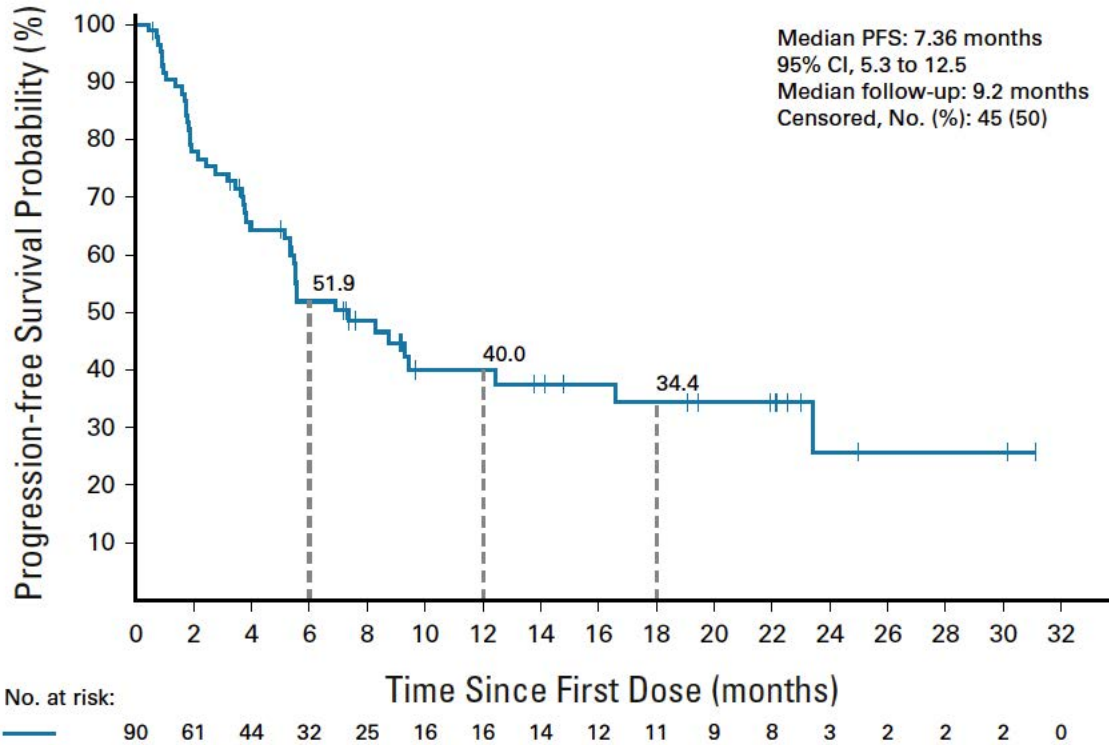
Data cutoff date of 31 January 2022. ^aOther includes DLBCL, WM, FL, MZL, Richter's transformation, B-PLL, Hairy Cell Leukemia, PCNSL, and other transformation. ^bTo ensure adequate follow-up, a cut-off of 31 January 2022 was utilized which allowed the vast majority (>90%) of responders in the PAS to be followed for at least 9 months from onset of initial response to the data cut-off date.

BRUIN: Efficacy of Pirtobrutinib in Patients with cBTKi Pretreated and cBTKi-Naïve MCL

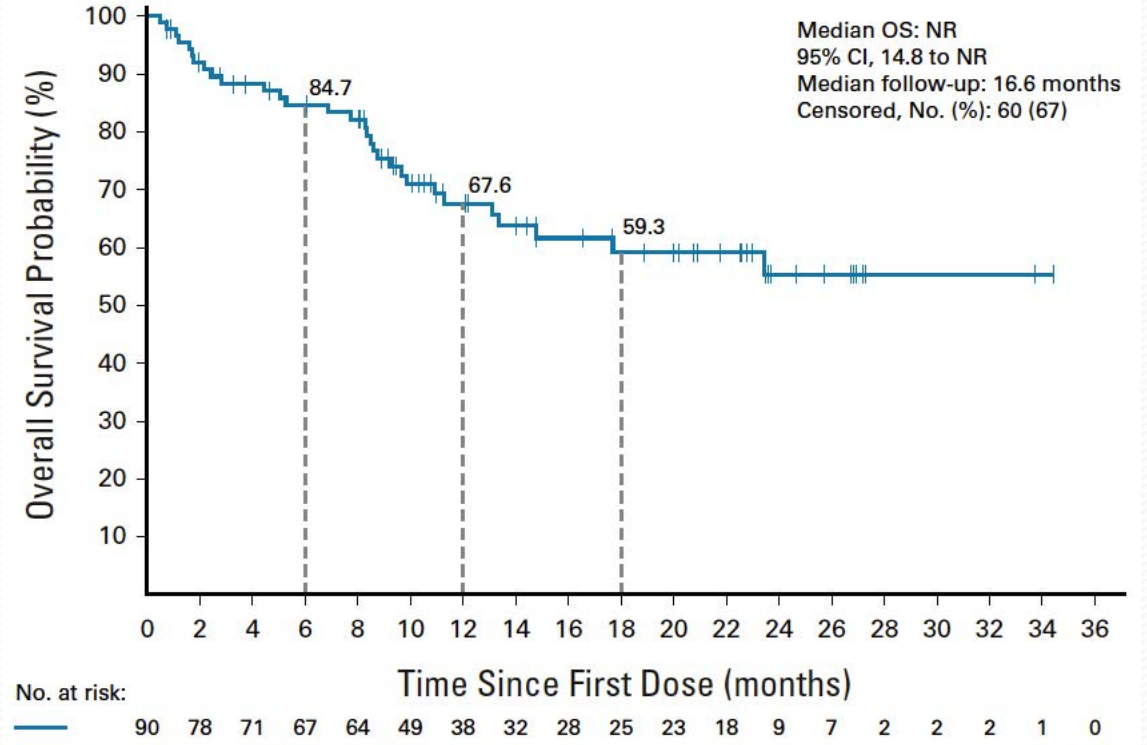


BRUIN: PFS and OS with Pirtobrutinib in Patients with cBTKi Pretreated MCL

PFS



OS



Adverse Events of Special Interest with Pirtobrutinib in Patients with MCL

Adverse Event	MCL Safety Population (n = 164)			
	TEAE, ($\geq 10\%$), No. (%)		TRAE, No. (%)	
	Any Grade	Grade ≥ 3	Any Grade	Grade ≥ 3
Infections	59 (36.0)	28 (17.1)	24 (14.0)	5 (3.0)
Bleeding	45 (27.4)	6 (3.7)	26 (15.9)	1 (0.6)
Thrombocytopenia	24 (14.6)	11 (6.7)	2 (1.2)	0
Neutropenia ^b	23 (14.0)	22 (13.4)	15 (9.1)	14 (8.5)
Bruising ^c	27 (16.5)	0	19 (11.6)	0 (0.0)
Hemorrhage	25 (15.2)	6 (3.7)	11 (6.7)	1 (0.6)
Atrial fibrillation/atrial flutter ^d	6 (3.7)	2 (1.2)	1 (0.6)	0 (0.0)

BRUIN MCL-321 Phase III Study Design

BRUIN MCL-321 is a randomized, open-label, global, phase 3 study (NCT04662255)

Key Inclusion Criteria

- Confirmed diagnosis of MCL
- ≥ 1 prior (non-BTKi) line of systemic therapy for MCL
- Measurable disease per Lugano criteria
- Radiographically/histologically confirmed PD on the most recent line of therapy or relapse
- ≥ 18 years of age and ECOG 0–2

N=500

1:1
Randomization

Arm A

Pirtobrutinib 200 mg orally once daily

Arm B

Investigator's choice of ibrutinib, acalabrutinib, or zanubrutinib per labeled doses

Stratification factors

- sMIPI risk group (low/intermediate vs high)
- Intended comparator BTK inhibitor (ibrutinib vs acalabrutinib/zanubrutinib)
- Number of prior lines of therapy (1 vs ≥ 2)

Ongoing Phase II Study of Pirtobrutinib with Venetoclax for Relapsed/Refractory MCL

Clinical trial identifier: NCT05529069

- Confirmed MCL with or without t(11;14), (q13;q32) and/or cyclin D overexpression
- Relapsed MCL including prior BTK inhibitor or CAR-T cell therapy
- ECOG PS \leq 2

Pirtobrutinib + venetoclax

Primary endpoint: Overall response rate

Single-Agent Venetoclax for Relapsed or Refractory MCL

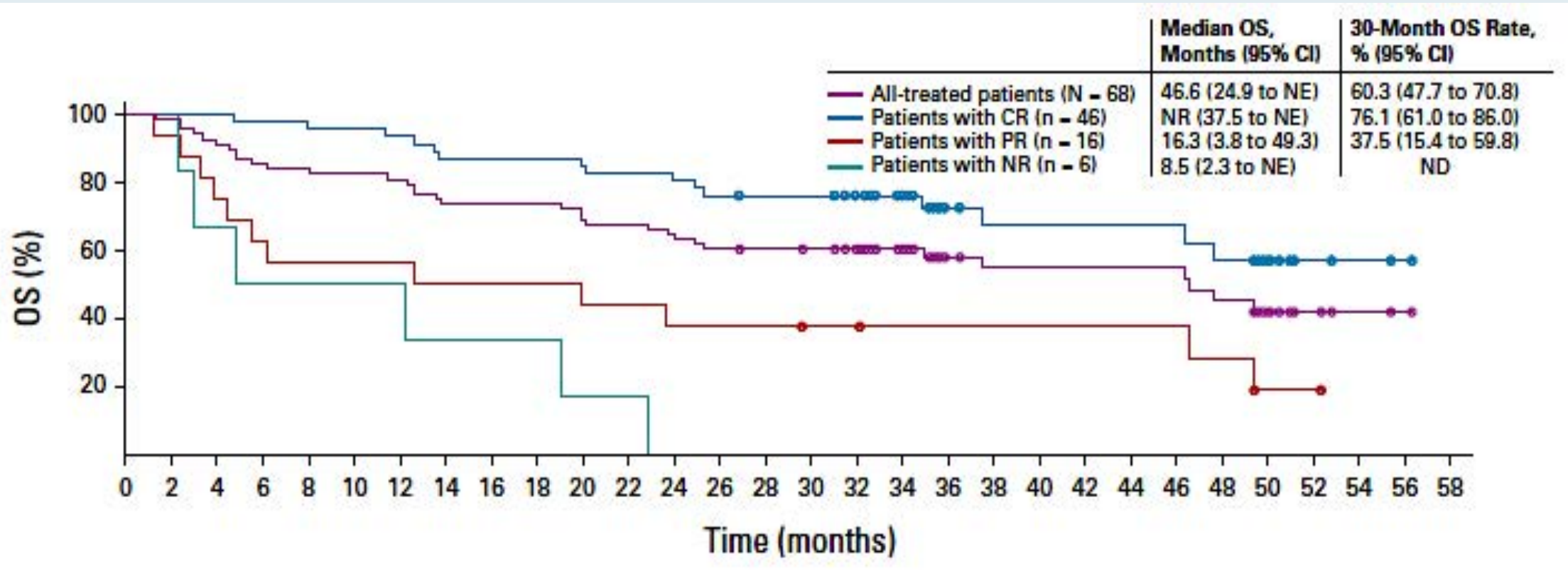
Study	N	Median # prior therapies	ORR (CR)	Median PFS	Median DoR	Median OS
Eyre <i>Haematologica</i> 2019	20	3	53% (18%)	3.2 mo	8.1 mo	9.4 mo
Zhao <i>Amer J Hematol</i> 2020	24	5	50% (21%)	8 mo	4 mo	13.5 mo
Dauids <i>Clin Cancer Res</i> 2021	28	3	67% (21%)	11.3 mo	15.7 mo	Not reported

Three-Year Follow-Up of KTE-X19 in Patients With Relapsed/Refractory Mantle Cell Lymphoma, Including High-Risk Subgroups, in the ZUMA-2 Study

Michael Wang, MD¹; Javier Munoz, MD, MS, MBA²; Andre Goy, MD, MS³; Frederick L. Locke, MD⁴; Caron A. Jacobson, MD, MMSc⁵; Brian T. Hill, MD, PhD⁶; John M. Timmerman, MD⁷; Houston Holmes, MD, MBA⁸; Samantha Jaglowski, MD⁹; Ian W. Flinn, MD, PhD¹⁰; Peter A. McSweeney, MB, ChB¹¹; David B. Miklos, MD, PhD¹²; John M. Pagel, MD, PhD, DSc¹³; Marie José Kersten, MD, PhD¹⁴; Krimo Bouabdallah, MD¹⁵; Rashmi Khanal, MD¹⁶; Max S. Topp, MD¹⁷; Roch Houot, MD, PhD¹⁸; Amer Beitinjaneh, MD¹⁹; Weimin Peng, PhD²⁰; Xiang Fang, PhD²⁰; Rhine R. Shen, PhD²⁰; Rubina Siddiqi, PhD²⁰; Ioana Kloos, MD²⁰; and Patrick M. Reagan, MD²¹

J Clin Oncol 2023;41(3):555-67

ZUMA-2 Three-Year Follow-Up: Overall Survival with Brexucabtagene Autoleucel in All Treated Patients (N = 68)



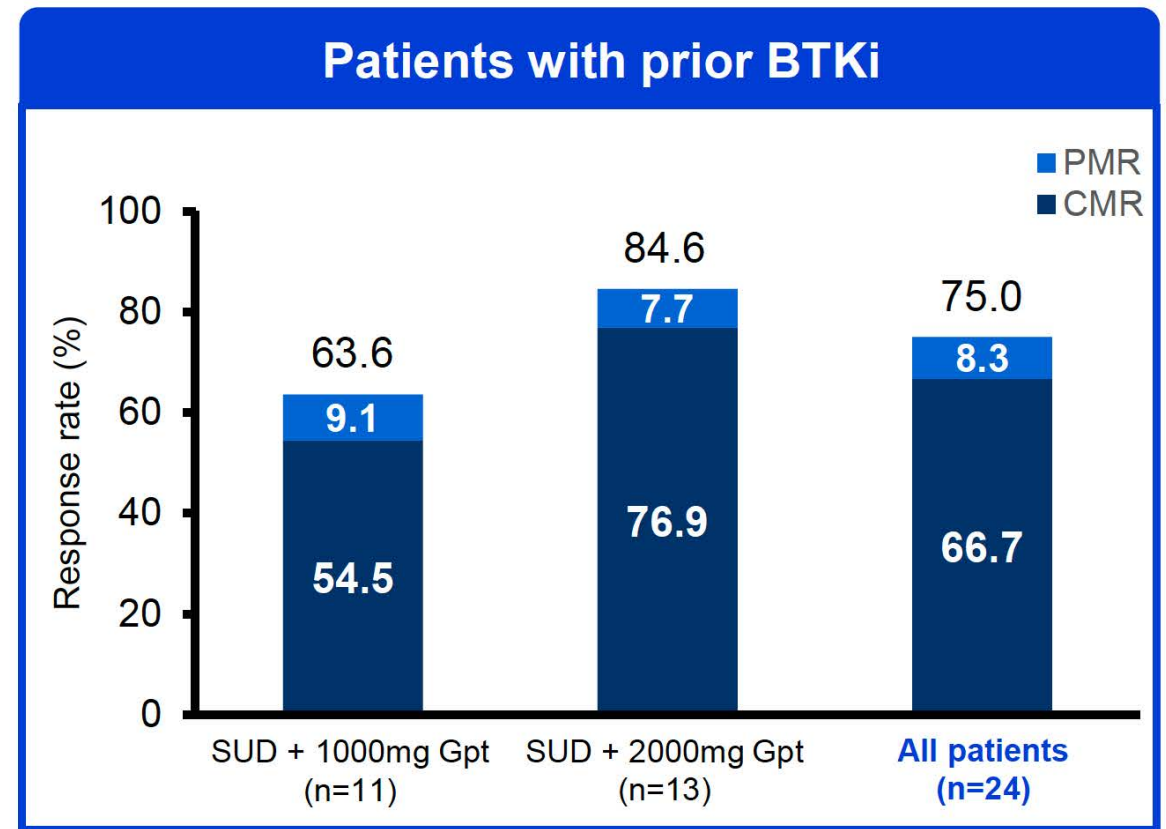
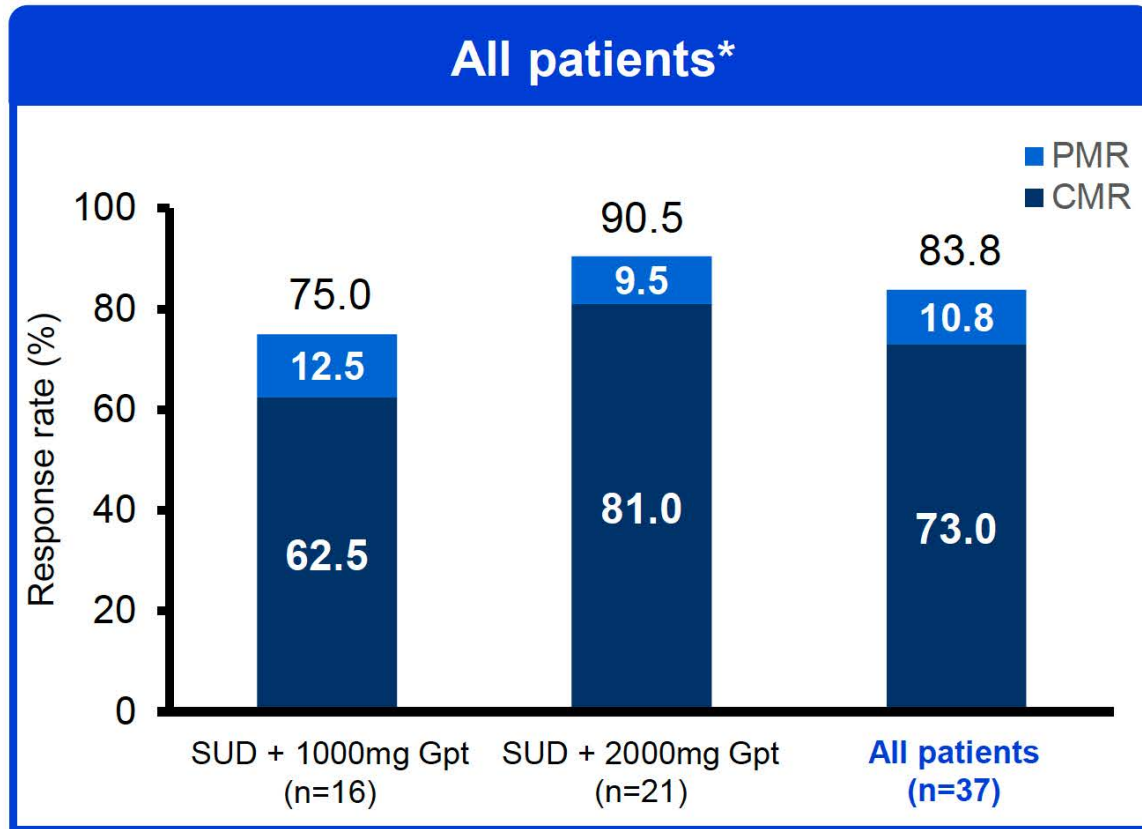
Glofitamab Monotherapy Induces High Complete Response Rates in Patients with Heavily Pretreated Relapsed or Refractory Mantle Cell Lymphoma

Tycel Phillips,¹ Michael Dickinson,² Franck Morschhauser,³ Emmanuel Bachy,⁴ Michael Crump,⁵ Marek Trněný,⁶ Nancy L. Bartlett,⁷ Jan Zaucha,⁸ Tomasz Wrobel,⁹ Fritz Offner,¹⁰ Kathryn Humphrey,¹¹ Linda Lundberg,¹² James Relf,¹¹ Audrey Filezac de L'Etang,¹² David Carlile,¹¹ Ben Byrne,¹¹ Naseer Qayum,¹¹ Carmelo Carlo-Stella¹³

¹University of Michigan Medical School, Ann Arbor, MI, USA; ²Peter MacCallum Cancer Centre, Royal Melbourne Hospital and The University of Melbourne, Melbourne, Australia; ³CHU Lille, Service des Maladies du Sang, Lille, France; ⁴Hospices Civils de Lyon and Université Claude Bernard, Pierre-Bénite, France; ⁵Princess Margaret Hospital, Toronto, ON, Canada; ⁶1st Faculty of Medicine, Charles University, General Hospital, Prague, Czech Republic; ⁷Siteman Cancer Center, Washington University, St. Louis, MO, USA; ⁸Medical University of Gdańsk, Gdańsk, Poland; ⁹Wrocław Medical University, Wrocław, Poland; ¹⁰Dept Hematology Universitair Ziekenhuis, Gent, Belgium; ¹¹Roche Products Ltd, Welwyn Garden City, United Kingdom; ¹²F. Hoffmann-La Roche Ltd, Basel, Switzerland; ¹³Humanitas University and IRCCS Humanitas Research Hospital, Milan, Italy.

Presented at the 64th ASH Annual Meeting | December 10–13, 2022

Response Rates by Glofitamab Regimen



High response rates with glofitamab monotherapy in patients with R/R MCL

Agenda

INTRODUCTION: Mantle Cell Lymphoma (MCL) and the General Medical Oncologist

MODULE 1: Sequencing of Therapy for MCL: 2009 – 2025

MODULE 2: Cases and Questions from the Community

APPENDIX

Questions and Comments: Ibrutinib and ventricular arrhythmias/sudden cardiac death



Dr Neil Morganstein (Summit, New Jersey)

Questions and Comments: Acalabrutinib-associated headache; side effect profile of pirtobrutinib



Dr Henna Malik (Houston, Texas)

Case Presentation: 81-year-old man with R/R MCL with “brain fog” on zanubrutinib



Dr Spencer Bachow (Boca Raton, Florida)

Case Presentation: An uninsured 58-year-old man with symptomatic MCL



Dr Zanetta Lamar (Naples, Florida)

GMO Survey: Questions and Cases Overview

- **55-yo male in remission after R-Benda in 2021. Now enlarging nodes and B symptoms. Optimal therapy?**
- **41 yo mantle cell in the eyelids only. Rest of the PET negative. Marrow negative...any need for systemic therapy?**
- **Is bendamustine + rituximab a better option than lenalidomide + rituximab as induction Rx in older patients?**
- **72 yo on rituximab maintenance for 17 months post transplant, MRD-negative, would like to discontinue due to risks and inconvenience or switch to a BTKi now or observe?**
- **Does Ki-67 influence your choice of induction therapy, and if so, how?**

GMO Survey: Questions and Cases

First-Line Management

- **Which MCL can be observed?**
- **How do you approach TP53 indolent MCL?**
- **Would you treat an asymptomatic MCL patient who harbored a very high risk feature such as a p53 mutation?**

GMO Survey: Questions and Cases First-Line Management (con't)

- **What is the present role of autotransplant? What is the role of MRD testing? Can MRD testing be used in decision-making to determine who may benefit from intensification or de-escalation of therapy?**
- **Are you still performing auto-SCT in your fit and eligible patients with MCL? Are you using the TRIANGLE trial regimen at all?**
- **Acalabrutinib + venetoclax + rituximab — good chemo-free option? Has good/high response rates. Role of those agents and rituximab in the maintenance therapy.**
- **Is there still a role for R-Hyper-CVAD? Can you discuss the current treatment paradigm for first-line therapy in older and younger MCL?**
- **Role of transplant in 2023?**

GMO Survey: Questions and Cases Older Patients; Poor Performance Status

- **85-yo male with R/R mantle CL — would you use BTK inhibitor or lenalidomide?**
- **Mantle cell in a 90 yo man with GI bleeding from disease.**
- **I have an 80-yo F, lives alone, poor support and borderline performance status, presented with anemia and splenomegaly. Flow cytometry revealed low-grade MCL.**
- **In elderly patients, would investigators use first-line BTK inhibitor, and if so, which one? Toxicity management?**

GMO Survey: Questions and Cases

Noncovalent and Covalent BTKi

- **Can pirtobrutinib be active in patients who have had a prior BTK inhibitor?**
- **I have a 68-year-old male with a prolonged course of MCL. He has had visceral metastasis as well as lymph node disease. I have tried empiric BTK inhibition as he has little exposure (discontinued acalabrutinib due to headache and refused to restart even though this is typically self-limited), and I can't keep him on zanubrutinib empirically due to intolerance (fatigue, dizziness, rise in creatinine). What is the tolerability of pirtobrutinib in patients who do not tolerate other BTK inhibitors?**
- **I have a 79-yo gentleman post BR now on zanubrutinib with worsening neutropenia. Would you recommend G-CSF support if neutropenia is a problem in spite of dose reduction?**

GMO Survey: Questions and Cases Noncovalent and Covalent BTKi (con't)

- **I have a 61-yo patient with HTN now on zanubrutinib, but HTN is not controlled. What would you recommend?**
- **I have a 74-yo MCL patient with rate-controlled AF on rivaroxaban. What would you recommend in terms of BTKi use?**
- **A patient with MCL on a BTK inhibitor: how do you differentiate lymphocytosis as a side effect of the BTK inhibitor from development of leukemic-variant MCL?**
- **How do you hold BTKs for surgeries, and do they need to be held for minor surgeries (I think they have an aspirin-like effect)?**

GMO Survey: Questions and Cases

CAR T-Cell Therapy

- **A 69-yo patient with relapsed MCL, after induction/ASCT then BTKi, who is a candidate for CAR T. Which regimen would you choose to bridge to CAR T?**
- **When should one refer for CAR T-cell therapy for MCL?**
- **What is the age cut-off for CAR T-cell therapy for a patient with R/R MCL?**
- **When will we be doing CAR T-cell therapy for front-line MCL, especially in blastoid variant?**

GMO Survey: Questions and Cases

Other Novel Approaches; Bispecific Antibodies

- **Sequencing of therapy in post-CART failures?**
- **BiTE therapy and bispecifics in MCL.**
- **If a patient with MCL has aggressive relapse and is not a candidate for CAR T, is there a role for combining a BTKi with venetoclax?**
- **Can intrathecal chemotherapy ever be an adjunct to systemic chemo?**
- **I have an uninsured patient whose disease has progressed through BR and BTKi. What is the best next line of therapy?**

GMO Survey: Questions and Cases

Other Novel Approaches; Bispecific Antibodies (con't)

- **Have a young MCL patient who is relapsing after brexu-cel. What is your recommendation for next-line treatment?**
- **Does bortezomib have a role anymore?**
- **What is your preferred BTKi in MCL patients with CNS disease?**
- **Is there any role for antibody-drug conjugates against MCL?**

Questions and Comments: BTK inhibitor-based front-line treatment for MCL



Dr Michael Wang (Houston, Texas)

Agenda

INTRODUCTION: Mantle Cell Lymphoma (MCL) and the General Medical Oncologist

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APPENDIX

Voluntary Withdrawal of Accelerated Approvals for Ibrutinib for MCL and MZL

Press Release: April 6, 2023

Today the intent to voluntarily withdraw, in the US, accelerated ibrutinib approvals for patients with mantle cell lymphoma (MCL) who have received at least one prior therapy and with marginal zone lymphoma (MZL) who require systemic therapy and have received at least one prior anti-CD20-based therapy was announced.

“Other approved indications for ibrutinib in the US are not affected. This voluntary action is due to requirements related to the accelerated approval status granted by the US FDA for MCL and MZL. These indications were approved via this pathway based on overall response rates in Phase 2 clinical studies. To confirm clinical benefit following accelerated approvals, additional studies are required by the FDA.

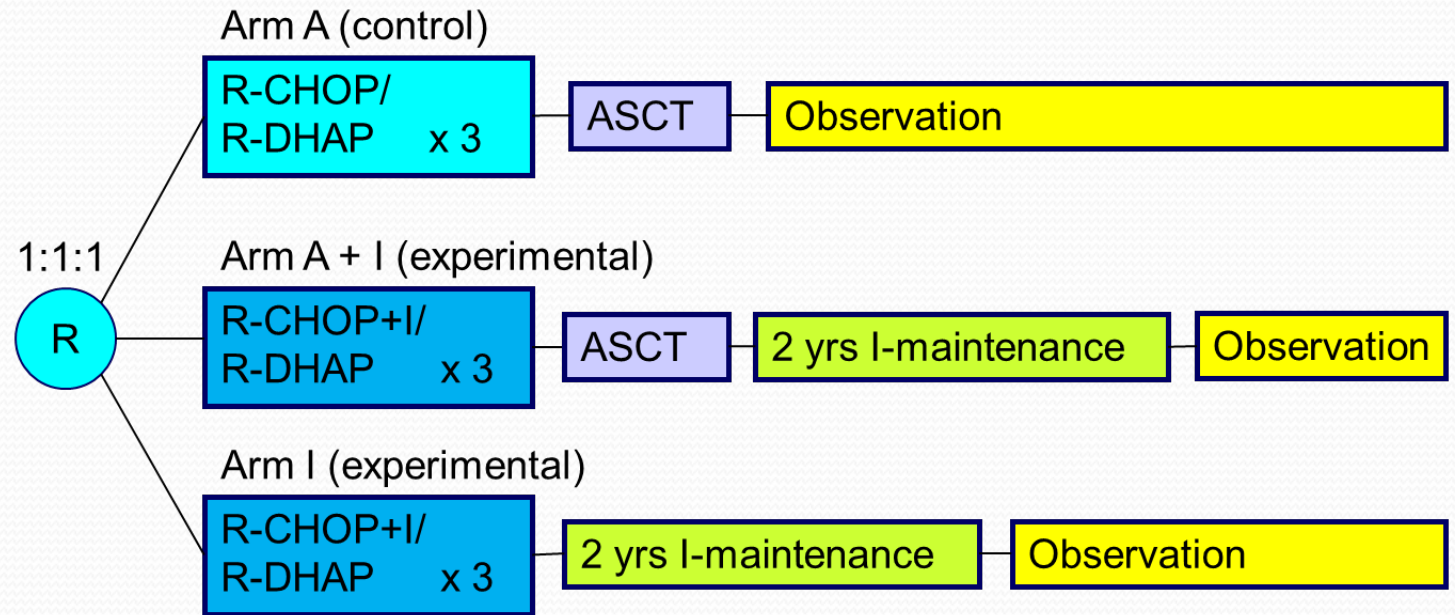
The Phase 3 SHINE (NCT01776840) study in previously untreated MCL and the Phase 3 SELENE study (NCT01974440) in relapsed or refractory MZL served as confirmatory studies. The SHINE study met its primary endpoint of progression-free survival. The addition of ibrutinib to chemoimmunotherapy was associated with increased adverse reactions compared to the placebo-controlled arm.”

TRIANGLE: Trial Design

- MCL patients
- previously untreated
- stage II-IV
- younger than 66 years
- suitable for HA and ASCT
- ECOG 0-2

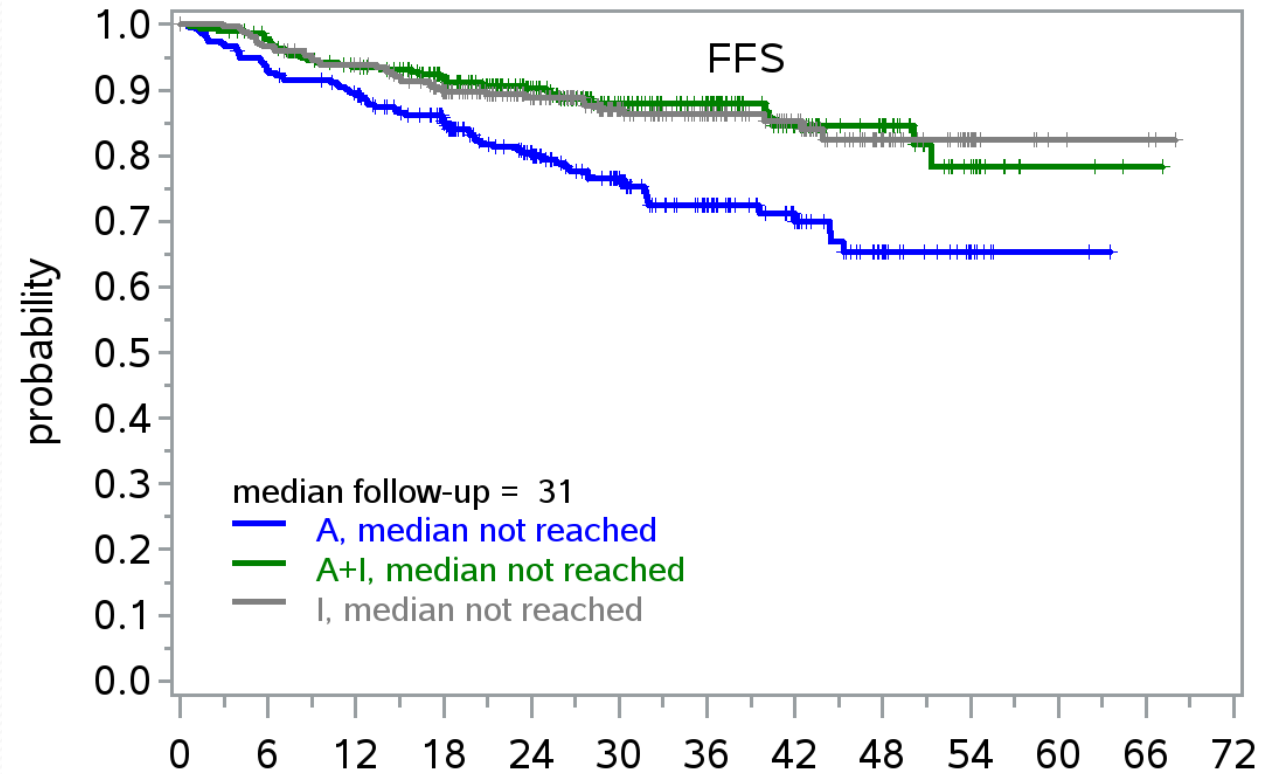
- Primary outcome: FFS

- Secondary outcomes:
 - Response rates
 - PFS, RD
 - OS
 - Safety



- R maintenance was added following national guidelines in all 3 trial arms
- Rituximab maintenance (without or with Ibrutinib) was started in 168 (58 %)/165 (57 %)/158 (54 %) of A/A+I/I randomized patients.

TRIANGLE: FFS Superiority of A+I vs. I ?



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

- Test A+I vs. I ongoing, no decision yet

Next lymphoma treatment (among patients with first treatment failure)	A (n=68)		A+I (n=35)		I (n=37)	
Treatment with Ibrutinib	34	79%	4	24%	3	11%
Treatment without Ibrutinib	9	21%	13	76%	24	89%
No treatment	25		18		10	

A+I arm: IR-CHOP/R-DHAP+ASCT+I; I arm: IR-CHOP/R-DHAP+I. I: ibrutinib

Key Differences Between Available Covalent BTK Inhibitors and Pirtobrutinib

	Ibrutinib	Acalabrutinib	Zanubrutinib	Pirtobrutinib
BTK binding	Covalent C481	Covalent C481	Covalent C481	Reversible ATP pocket Distant from C481
Half-life	6 hours	1 hour	4 hours	20 hours >90% BTK inhibition
BTK Y223 autophosphorylation	Inhibited	Inhibited	Inhibited	Inhibited
BTK Y551 phosphorylation	No effect	No effect	No effect	Inhibited (maintenance of closed conformation)
BTK C481S mutation	Common	Reported	Reported	Not described Effective against C481S
Kinase-dead mutations	Uncommon and restricted to C481* (active against HQK)	Not reported to date	Reported: L528W > C481Y	Reported: L528W > V416L, A428D, C481R, M477I, and M437R
T474I/T474L gatekeeper mutation	Uncommon*; active against T474I and T474L	Reported	Not reported to date	Reported

ZUMA-2 Three-Year Follow-Up: Overall AEs and AEs Occurring Since the Primary Analysis Report with Brexucabtagene Autoleucel

	All-Treated Patients (N=68)				
	Overall AEs Occurring Since Infusion	AEs Occurring Since the Primary Analysis Report			
		Any Grade	Grade 3	Grade 4	Grade 5
AEs, n (%)					
Any	68 (100)	18 (26)	4 (6)	7 (10)	3 (4)
Any KTE-X19-related	66 (97)	9 (13)	2 (3)	6 (9)	0
Serious AEs, n (%)					
Any	48 (71)	8 (12)	4 (6)	0	3 (4)
Serious KTE-X19-related	37 (54)	2 (3)	2 (3)	0	0
CRS or neurologic events, n (%)					
CRS ^a	63 (93)	2 (3)	1 (1)	0	0
Neurologic events	62 (91)	0	0	0	0
Serious neurologic event	43 (63)	2 (3)	1 (1) ^b	0	0
	22 (32)	1 (1)	1 (1) ^b	0	0
Cytopenias, n (%)					
Thrombocytopenia	50 (74)	2 (3)	0	2 (3)	0
Neutropenia	59 (87)	8 (12)	1 (1)	7 (10)	0
Anemia	47 (69)	3 (4)	2 (3)	0	0
Infection, n (%)					
Any	36 (53)	7 (10)	3 (4)	0	1 (1)
Serious	21 (31)	4 (6)	3 (4)	0	1 (1)
COVID-19 associated viral	0	0	0	0	0
Non-COVID-19 associated viral	11 (16)	3 (4)	1 (1)	0	0
Hypogammaglobulinemia, n (%)					
	14 (21)	1 (1)	0	0	0
Tumor lysis syndrome, n (%)					
	1 (1)	0	0	0	0

Data cutoff for the primary analysis was July 19, 2019¹; data cutoff for the present analysis was July 24, 2021. Numbers (percentage) of patients with worst grade of AE are shown; AEs occurring after retreatment are not included. ^aCRS events were graded per revised Lee et al. 2014 grading system¹²; all other AEs were graded per Common Terminology Criteria for Adverse Events version 4.03. ^bThis serious neurologic event of encephalopathy began on day 397; the event resolved on day 408 and was considered unrelated to K1E-X19. AE, adverse event; CRS, cytokine release syndrome; K1E-X19, brexucabtagene autoleucel. 1. Wang M, et al. *N Engl J Med*. 2020;382:1331-1342.

TRANSCEND FL and TRANSCEND NHL 001 Studies of Lisocabtagene Maraleucel in Relapsed/Refractory Follicular Lymphoma and Mantle Cell Lymphoma Meet Primary Endpoints

Press Release: May 1, 2023

Positive topline results were announced from two studies, TRANSCEND FL, an open-label, global, multicenter, Phase 2, single-arm study evaluating lisocabtagene maraleucel in patients with relapsed or refractory follicular lymphoma (FL), and TRANSCEND NHL 001, an open-label, multicenter, pivotal Phase 1, single-arm study evaluating lisocabtagene maraleucel in patients with relapsed or refractory B-cell non-Hodgkin lymphoma, including mantle cell lymphoma (MCL).

“Results showed both studies met the primary endpoint of overall response rate, with lisocabtagene maraleucel demonstrating statistically significant and clinically meaningful responses in relapsed or refractory FL and MCL. The studies also met the key secondary endpoint of complete response rate, demonstrating high rates of complete responses in both relapsed or refractory FL and MCL. No new safety signals were reported for lisocabtagene maraleucel in either disease in these studies.”

Safety and Preliminary Efficacy in Patients with Relapsed/Refractory Mantle Cell Lymphoma Receiving Lisocabtagene Maraleucel in Transcend NHL 001

Palomba ML et al.

ASH 2020;Abstract 118.

TRANSCEND NHL 001: Preliminary Efficacy and Safety of Lisocabtagene Maraleucel for R/R MCL at 2 Dose Levels

No. of Patients		Median # prior therapies (range)	ORR		CR		CRS		NE	
DL1	DL2		DL1	DL2	DL1	DL2	DL1	DL2	DL1	DL2
6	26	3 (1-7)	67%	88%	33%	65%	33%	54%	0	28%

DL1, 50 x 10⁶ CAR T cells, DL2, 100 x 10⁶ CAR T cells

ORR = objective response rate; CR = complete response; CRS = cytokine release syndrome; NE = neurologic event



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Meet The Professor
**Optimizing the Management
of Gastroesophageal Cancers**

Thursday, September 28, 2023
5:00 PM – 6:00 PM ET

Faculty

Peter C Enzinger, MD

Moderator

Neil Love, MD

Thank you for joining us!

Please take a moment to complete the survey currently up on Zoom. Your feedback is very important to us. The survey will remain open for 5 minutes after the meeting ends.

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