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

Part 2 — Hodgkin and Non-Hodgkin Lymphoma

Wednesday, February 3, 2021 5:00 PM - 6:00 PM ET

Faculty

John Kuruvilla, MD John P Leonard, MD Michael E Williams, MD, ScM



Faculty



John Kuruvilla, MD
Hematologist, Princess Margaret Cancer Centre
Associate Professor, University of Toronto
Toronto, Ontario, Canada



Michael E Williams, MD, ScM
Byrd S Leavell Professor of Medicine
Chief, Hematology/Oncology Division
Physician Lead, Cancer Service Line
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Commercial Support

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Dr Love — Disclosures

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Dr Kuruvilla — **Disclosures**

Consulting Agreements	AbbVie Inc, Bristol-Myers Squibb Company, Gilead Sciences Inc, Karyopharm Therapeutics, Merck, Roche Laboratories Inc, Seagen Inc		
Contracted Research	AstraZeneca Pharmaceuticals LP, Bristol-Myers Squibb Company, Celgene Corporation, Gilead Sciences Inc, Janssen Biotech Inc, Karyopharm Therapeutics, Merck, Novartis, Roche Laboratories Inc, Seagen Inc		
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Dr Leonard — **Disclosures**

Consulting Agreements	ADC Therapeutics SA, AstraZeneca Pharmaceuticals LP, Bayer HealthCare Pharmaceuticals, BeiGene, Celgene Corporation, Genentech, a member of the Roche Group, Gilead Sciences Inc, Karyopharm Therapeutics, MEI Pharma Inc, MorphoSys, Nordic Nanovector, Novartis, Roche Laboratories Inc, Sutro Biopharma	
Data and Safety Monitoring Board/Committee	Biotest Pharmaceuticals Corporation, Bristol-Myers Squibb Comp	

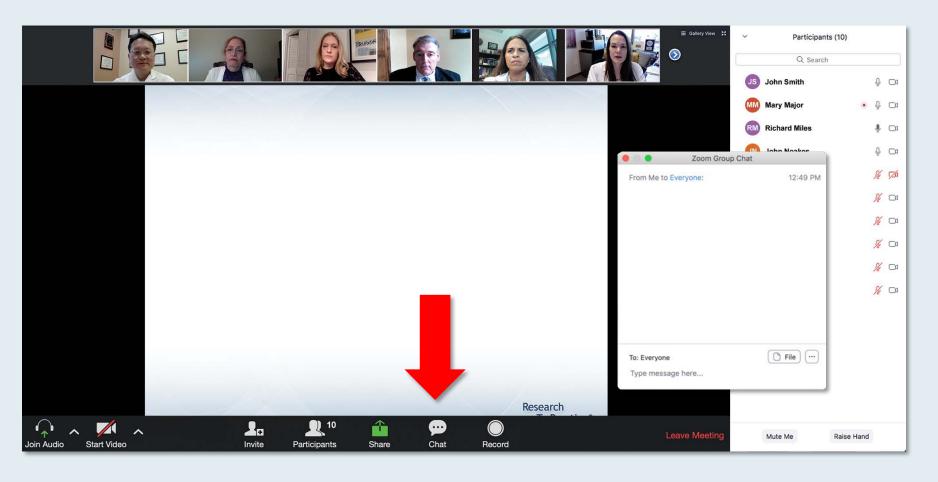


Dr Williams — Disclosures

Advisory Committee	AbbVie Inc		
Consulting Agreements	Celgene Corporation, Gilead Sciences Inc, TG Therapeutics Inc		
Contracted Research	Allos Therapeutics, Celgene Corporation, Gilead Sciences Inc, Janssen Biotech Inc, Pharmacyclics LLC, an AbbVie Company, TG Therapeutics Inc.		
Speakers Bureau	Xian Janssen Pharmaceutical Ltd		



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

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ONCOLOGY TODAY

WITH DR NEIL LOVE

CHIMERIC ANTIGEN RECEPTOR
T-CELL THERAPY IN NON-HODGKIN
LYMPHOMA



DR TANYA SIDDIQI
CITY OF HOPE NATIONAL MEDICAL CENTER









Cases from the Community: Investigators Discuss Emerging Research and Actual Patients with Gastroesophageal Cancers (Part 2 of a 3-Part Series)

Thursday, February 4, 2021 5:00 PM - 6:30 PM ET

Faculty

Daniel Catenacci, MD Yelena Y Janjigian, MD Rutika Mehta, MD, MPH Zev Wainberg, MD, MSc



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

Breast Cancer

Tuesday, February 9, 2021 5:00 PM - 6:00 PM ET

Faculty
Harold Burstein, MD
Lisa Carey, MD



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

Part 3 — Multiple Myeloma

Wednesday, February 10, 2021 5:00 PM - 6:00 PM ET

Faculty

Rafael Fonseca, MD Robert Z Orlowski, MD, PhD Edward A Stadtmauer, MD



Cases from the Community: Investigators Discuss Emerging Research and Actual Patients with Colorectal Cancer (Part 3 of a 3-Part Series)

Thursday, February 11, 2021 5:00 PM - 6:00 PM ET

Faculty

Kristen K Ciombor, MD, MSCI Eric Van Cutsem, MD, PhD





Current Concepts and Recent Advances in Oncology: A Daylong Clinical Summit Hosted in Partnership with North Carolina Oncology Association (NCOA) and South Carolina Oncology Society (SCOS)

Saturday, February 13, 2021 8:30 AM – 4:30 PM ET

Faculty

Courtney D DiNardo, MD, MSCE
Robert Dreicer, MD, MS
Justin F Gainor, MD
Sara Hurvitz, MD
Ian E Krop, MD, PhD

John M Pagel, MD, PhD
Alexander Perl, MD
Daniel P Petrylak, MD
Philip A Philip, MD, PhD, FRCP
Paul G Richardson, MD

Mitchell R Smith, MD, PhD Eric Van Cutsem, MD, PhD Peter Voorhees, MD Heather Wakelee, MD

Moderator

Neil Love, MD



Saturday, February 13, 2021 — 8:30 AM – 4:30 PM

Chronic Lymphocytic Leukemia and Lymphomas: John Pagel, Mitchell Smith

Multiple Myeloma: Paul Richardson, Peter Voorhees

Genitourinary Cancers: Robert Dreicer, Daniel Petrylak

Lung Cancer: Justin Gainor, Heather Wakelee

Gastrointestinal Cancers: Philip Philip, Eric Van Cutsem

Breast Cancer: Sara Hurvitz, Ian Krop

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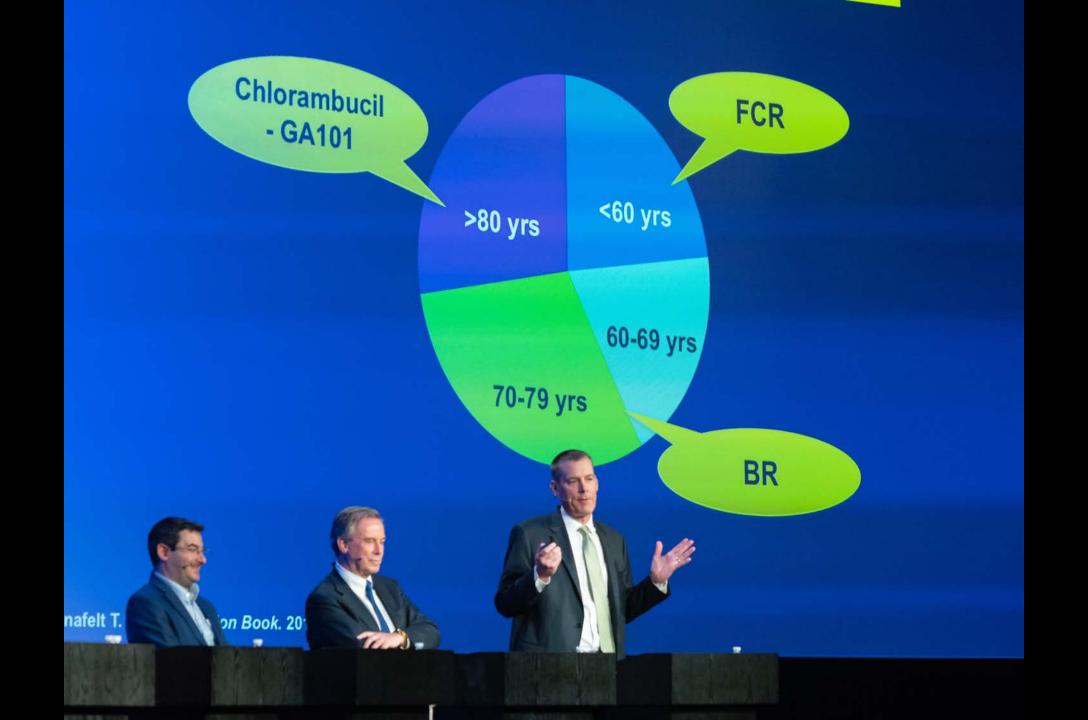










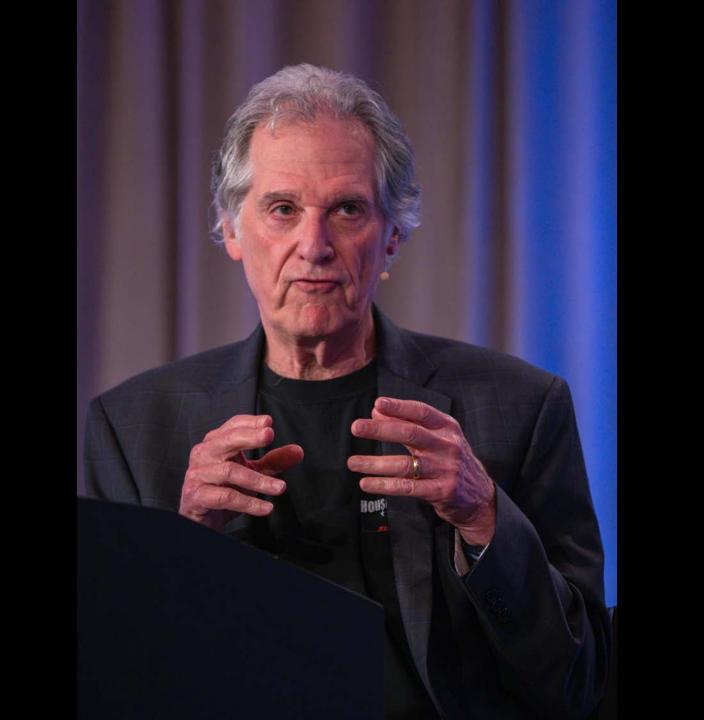
















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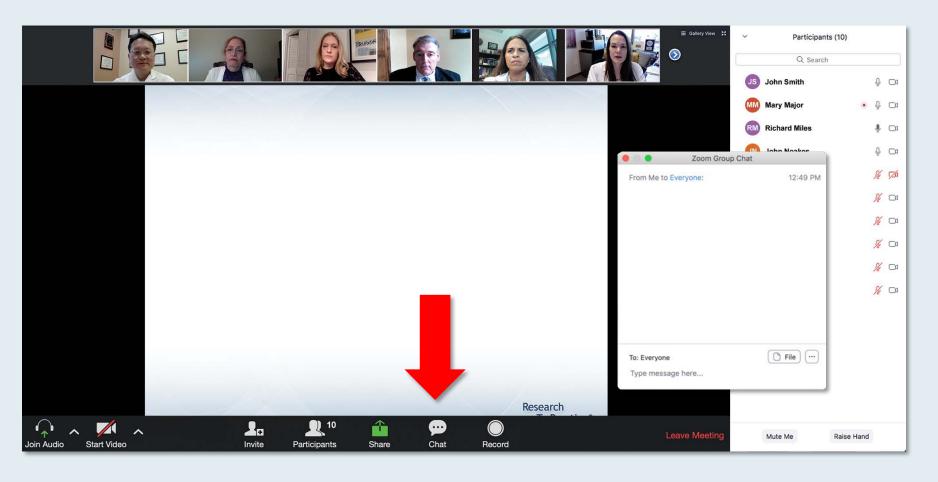
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Meet The ProfessorManagement of Lung Cancer

Friday, February 5, 2021 12:00 PM - 1:00 PM ET

Faculty
Joshua Bauml, MD



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

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Agenda

Module 1: Evolving treatment paradigm for patients with diffuse large B-cell lymphoma (DLBCL) – Ann S LaCasce, MD, MMSc

Module 2: Optimal management of newly diagnosed and relapsed/refractory follicular lymphoma – Dr Leonard

Module 3: Available and emerging approaches for mantle cell lymphoma – Dr Williams

Module 4: Selection and sequencing of therapies for patients with advanced Hodgkin lymphoma – Dr Kuruvilla

Module 5: Advances in chimeric antigen receptor T-cell therapy for DLBCL and other lymphoma subtypes – Jonathan W Friedberg, MD, MMSc



CNS prophylaxis with high-dose methotrexate significantly reduces the rate of CNS relapse for patients with DLBCL.

- 1. Agree
- 2. Disagree
- 3. There are no data to support this
- 4. I don't know











Ineffectiveness of IV High-Dose Methotrexate for Prevention of CNS Relapse in Patients with High-Risk DLBCL

Robert Puckrin, Haidar El Darsa, Sunita Ghosh, Anthea Peters, Douglas A. Stewart
University of Calgary & University of Alberta
Alberta, Canada

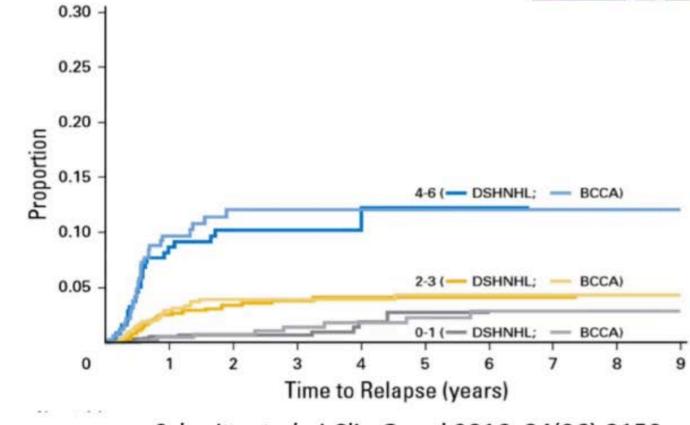


Predicting CNS relapse



CNS-IPI score:

- Age >60 y
- ECOG 2-4
- Elevated LDH
- Stage III/IV
- >1 extranodal site
- Kidney/adrenal involvement



Schmitz et al., J Clin Oncol 2016; 34(26):3150



Preventing CNS relapse



IT chemo

No convincing evidence of benefit ¹

Rituximab

Etoposide

HD-MTX

May be associated with ↓ CNS relapse (3%) 5

1. Haematologica 2020;105(7):1914 2. Blood 2009;113(17):3896 3. Ann Oncol 2007;18(1):149 4. J Clin Oncol 2016;34(26):3150 5. Cancer 2010;116(18):4283



Conclusions



- CNS relapse affects 6% of DLBCL patients
- ALG high-risk criteria and CNS-IPI score are predictive of CNS relapse
- Risk of CNS relapse was similar with vs. without HD-MTX (11.2% vs. 12.2%) and similar to rates reported in prior publications (10-12%)
- Consolidative autotransplant or intensive chemoimmunotherapy trended to reduce CNS relapse, a finding worthy of further study



Polatuzumab Vedotin plus Venetoclax with Rituximab in Relapsed/Refractory Diffuse Large B-Cell Lymphoma: Primary Efficacy Analysis of a Phase Ib/II Study

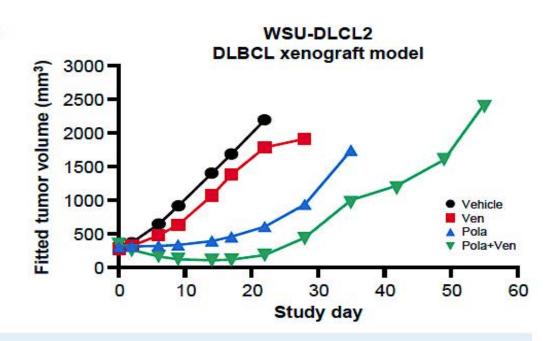
Giuseppe Gritti¹, Paula Marlton², Tycel Phillips³, Christopher Arthur⁴, Rajat Bannerji⁵, Paolo Corradini⁶, Anna Johnston⁷, John F Seymour⁸, Sam Yuen⁹, Jamie Hirata¹⁰, Lisa Musick¹⁰, Sourish Saha¹⁰, Brandon Croft¹⁰, Christopher Flowers^{11,12}

¹ASST Papa Giovanni XXIII, Bergamo, Italy; ²University of Queensland and Princess Alexandra Hospital, Brisbane, Australia; ³University of Michigan Comprehensive Cancer Center, Ann Arbor, MI, USA; ⁴Royal North Shore Hospital (RNSH), St Leonards, Australia; ⁵Rutgers Cancer Institute of New Jersey, New Brunswick, NJ, USA; ⁶Fondazione IRCCS Istituto Nazionale dei Tumori, University of Milan, Milan, Italy; ⁷Royal Hobart Hospital (RHH), Hobart, Australia; ⁸Peter MacCallum Cancer Centre and Royal Melbourne Hospital, Melbourne, Australia; ⁹Calvary Mater Newcastle, Waratah, Australia; ¹⁰Genentech, Inc., South San Francisco, CA, USA; ¹¹The Winship Cancer Institute of Emory University, Atlanta, GA, USA, ¹²UT MD Anderson Cancer Center, Houston, TX, USA



Pola potentiates Ven activity in NHL cell lines by targeting MCL-1

- In NHL cell lines, the pro-survival MCL-1 protein confers resistance to Ven, a potent inhibitor of BCL-2^{1,2}
- Preclinical studies show that concurrent treatment with Pola promotes MCL-1 degradation and enhances anti-tumor efficacy in vivo, thus providing a strong rationale for the combination with Ven³



In preclinical studies, Pola+Ven improved anti-tumor activity compared with the single agents

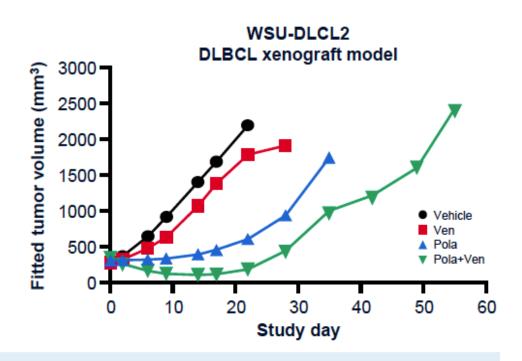
BCL-2, B-cell lymphoma-2; MCL-1, myeloid cell leukaemia-1; NHL, non-Hodgkin lymphoma; PO, by mouth; Pola, polatuzumab vedotin; Ven, venetoclax

Adams C, et al. Front Oncol 2018;8:636
 Phillips D, et al. Blood Cancer J 2016;6:e403
 Amin D, et al. AACR; Cancer Res 2020;80(16 Suppl):Abstract CT133



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1. Adams C, et al. Front Oncol 2018;8:636 2. Phillips D, et al. Blood Cancer J 2016;6:e403 3. Amin D, et al. AACR; Cancer Res 2020;80(16 Suppl):Abstract CT133







Selinexor in Combination with R-CHOP for Frontline Treatment of Non-Hodgkin Lymphoma: Results of a Phase 1b Study

Erlene K. Seymour¹, Li Yi¹, Mahmoud Chaker¹, Amro Aboukameel¹, Radhakrishanan Ramchandren², Golbon Sterbis¹, Jay Yang¹, Divaya Bhutani³, Ramzi M. Mohammad¹, Asfar S. Azmi^{1*}, Jeffrey A. Zonder^{1*}

¹Department of Oncology, Wayne State University School of Medicine and Karmanos Cancer Institute, Detroit, MI; ²Department of Oncology, University of Tennessee, Knoxville, TN; ³Department of Oncology, Columbia University, New York, NY

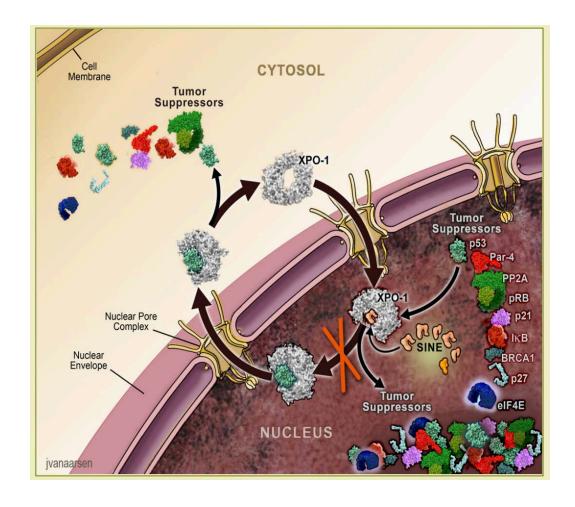
Presenting Author: Erlene K. Seymour, MD

Abstract #2109

December 6, 2020



Selinexor has a novel mechanism of action: XPO-1 inhibitor

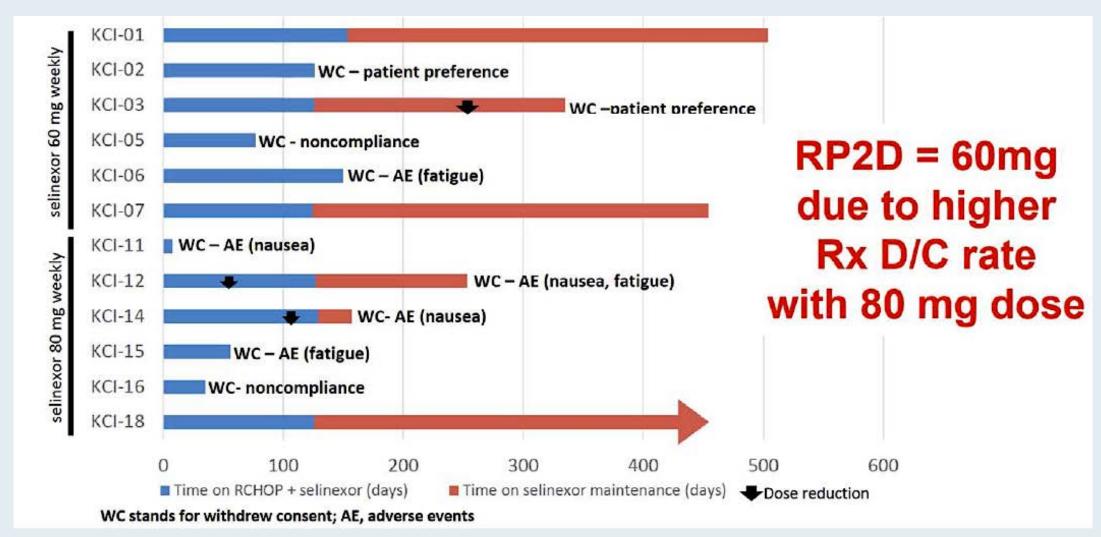


XPO1 over-expressed in DLBCL and correlates with poor prognosis

Induces nuclear accumulation of tumor suppressors including p53, p73, lkBk and FOXO

Decreases production of oncoproteins including c-MYC, BCL2, BCL6 and BCL-XL

Frontline Selinexor plus R-CHOP: Time on Study and Recommended Phase II Dose





Frontline Selinexor plus R-CHOP: Efficacy

	Patient	Diagnosis	Days on Selinexor	Best Response
Selinexor 60 mg weekly	KCI-01	Transformed DLBCL	514	CR
	KCI-02	Transformed DLBCL	134	CR
	KCI-03	DLBCL (non-GCB)	371	CR
	KCI-05	DLBCL (non-GCB)	88	PR
	KCI-06	DLBCL (non-GCB)	152	CR
	KCI-07	DLBCL (non-GCB)	461	CR
Selinexor 80 mg weekly	KCI-12	FL	258	CR
	KCI-14	DLBCL (GCB)	164	CR
	KCI-15	Transformed DLBCL	84	CR
1	KCI-18	DLBCL (non-GCB)	443	CR

ORR: 100%

CR rate: 90%

All CRs ongoing Median F/U: 476 days



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

Kami J Maddocks*1, Johannes Duell², Eva González-Barca³, Wojciech Jurczak⁴, Anna Marina Liberati⁵, Sven de Vos⁶, Zsolt Nagy³, Aleš Obr⁶, Gianluca Gaidano⁶, Pau Abrisqueta¹⁰, Marc André¹¹, Martin Dreyling¹², Tobias Menne¹³, Maren Dirnberger-Hertweck¹⁴, Johannes Weirather¹⁴, Sumeet Ambarkhane¹⁴, Gilles Salles¹⁵

¹Department of Internal Medicine, Arthur G James Comprehensive Cancer Center, Ohio State University Wexner Medical Center, Columbus, OH, USA;

²Medizinische Klinik und Poliklinik II, Universitätsklinik Würzburg, Würzburg, Germany;

³Department of Hematology, Institut Català d'Oncologia (ICO), Hospital Duran i Reynals, IDIBELL, Universitat de Barcelona, Barcelona, Spain;

⁴ Department of Clinical Oncology, Maria Sklodowska-Curie National Research Institute of Oncology, Kraków, Poland;

⁵Università degli Studi di Perugia, Azienda Ospedaliera Santa Maria di Terni, Terni, Italy;

⁶Department of Medicine, Ronald Reagan UCLA Medical Center, Santa Monica, CA;

⁷1st Department of Internal Medicine, Semmelweis University, Budapest, Hungary;

⁸Department of Hemato-Oncology, Palacký University and University Hospital, Olomouc, Czech Republic;

⁹Division of Hematology, Department of Translational Medicine, University of Piemonte Orientale Amedeo Avogadro, Novara, Italy;

¹⁰Department of Hematology, Vall d'Hebron Institute of Oncology (VHIO), Vall d'Hebron University Hospital, Barcelona, Spain;

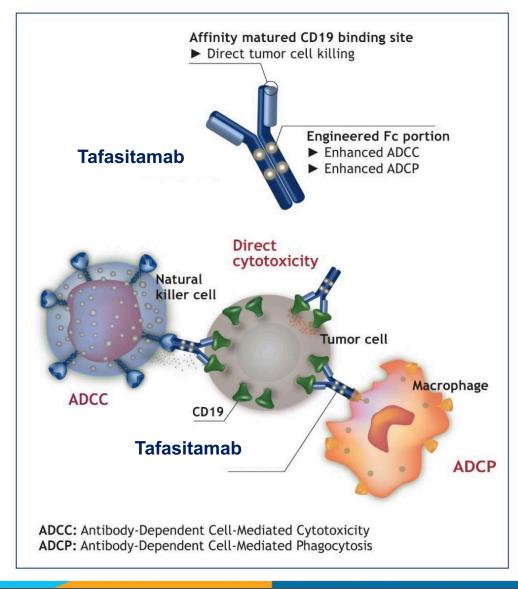
¹¹Department of Haematology, Université Catholique de Louvain, CHU UCL Namur, Yvoir, Belgium; ¹²LMU Hospital, Munich, Germany;

¹³Department of Haematology, Freeman Hospital, Newcastle Upon Tyne Hospitals NHS Foundation Trust, Newcastle Upon Tyne, UK;

¹⁴MorphoSys AG, Planegg, Germany; ¹⁵Hématologie, Hospices Civils de Lyon and Université de Lyon, Lyon, France

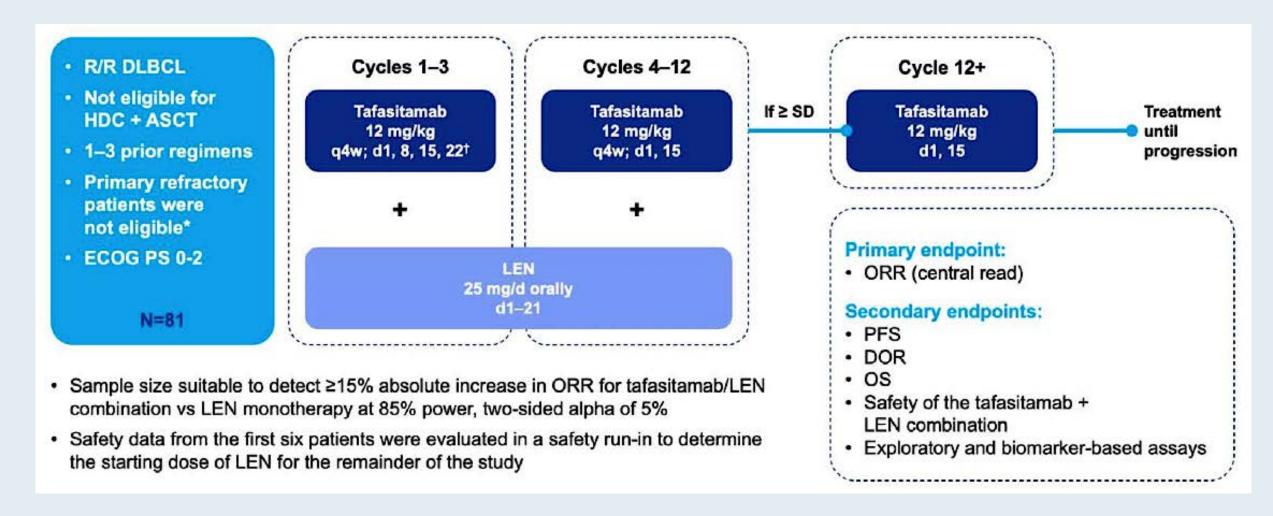


Tafasitamab (MOR208)



Lenalidomide enhances
NK function with
enhanced ADCC in vitro

L-MIND: Study Design





A Phase Ib, Open-Label, Randomized Study to Assess Safety and Preliminary Efficacy of Tafasitamab (MOR208) or Tafasitamab + Lenalidomide in Addition to R-CHOP in Patients with Newly Diagnosed Diffuse Large B-cell Lymphoma (DLBCL): Preliminary Data

David Belada¹, Grzegorz Nowakowski², Juan Miguel Bergua Burgues³, Marc André⁴, Katerina Kopeckova⁵, Don Stevens⁶,
Marek Trněnýˀ, Ernesto Perez Persona⁶, Petra Pichler⁶, Pia Klöpfer¹⁰, Bettina Brackertz¹⁰, Emanuel Lohrmann¹⁰, Anirban Lahiry¹⁰,
Neha Shah¹⁰, Günter Fingerle-Rowson¹⁰, Wolfram Brugger¹⁰, John Burke¹¹

1. 4th Department of Internal Medicine – Hematology, University Hospital and Faculty of Medicine, Hradec Králové, Czech Republic; 2. Division of Hematology, Mayo Clinic, Rochester, MN; 3. Hematology, Hospital San Pedro Alcántara, Caceres, Spain;

4. Department of Haematology, Université Catholique de Louvain, CHU UCL Namur, Yvoir, Belgium; 5. Fakultni nemocnice v Motole, Prague, Czech Republic; 6. Norton Cancer Institute - St Matthews Campus, Louisville, KY; 7. 1st Dept. of Internal Medicine, First Medical Faculty, Charles University and General University Hospital, Prague, Czech Republic; 8. Hospital Universitario de Alava, Vitoria-Gasteiz, Spain; 9. Department of Internal Medicine, University Hospital of St Pölten, Karl

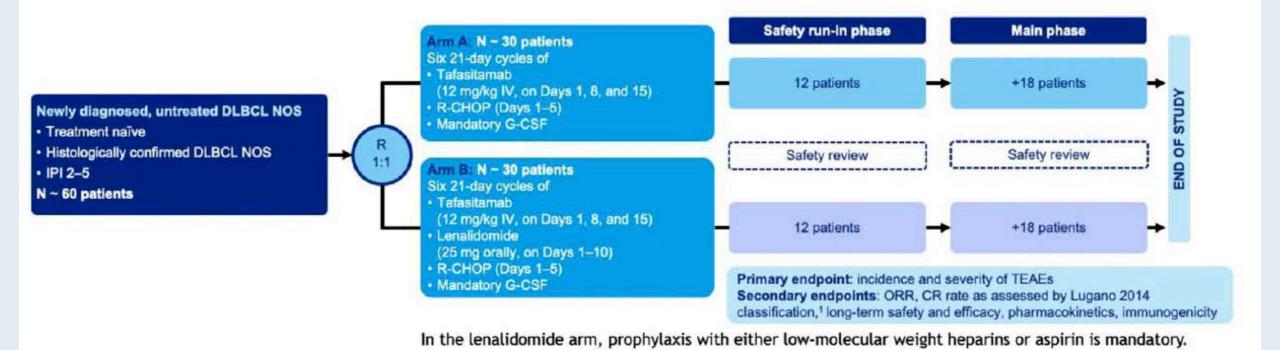
Landsteiner University of Health Sciences, Karl Landsteiner Institute for Nephrology and Hemato Oncology, St Pölten, Austria;

10. MorphoSys AG, Planegg, Germany; 11. US Oncology Hematology Research Program, US Oncology Research and Rocky Mountain Cancer Centers, Aurora, CO.



First-MIND: Study Design

 An open-label, prospective, randomized, Phase Ib study designed to evaluate the safety and preliminary efficacy of tafasitamab or tafasitamab + lenalidomide in addition to R-CHOP in patients with newly diagnosed DLBCL





First-MIND: Treatment Emergent Adverse Events

Overall summary by toxicity grade, n (%) [E]	Arm A: tafasitamab + R-CHOP (n=33)	Arm B: tafasitamab + lenalidomide + R-CHOP (n=33)	Total (N=66)
Patients with TEAEs and the total number of events	32* (97.0) [345]	33 (100) [443]	65 (98.5) [788]
Grade 1	26 (78.8) [140]	27 (81.8) [161]	53 (80.3) [301]
Grade 2	27 (81.8) [120]	28 (84.8) [135]	55 (83.3) [255]
Grade 3	21 (63.6) [48]	22 (66.7) [72]	43 (65.2) [120]
Grade 4	13 (39.4) [36]	19 (57.6) [75]	32 (48.5) [111]
Grade 5	1 (3.0) [1]	0	1 (1.5) [1]
Grade 3 or higher	23 (69.7) [85]	27 (81.8) [147]	50 (75.8) [232]
Overall summary of serious TEAEs, n (%) [E]	Arm A: tafasitamab + R-CHOP (n=33)	Arm B: tafasitamab + lenalidomide + R-CHOP (n=33)	Total (N=66)
Patients with serious TEAEs and the total number of events	13 (39.4) [28]	16 (48.5) [27]	29 (43.9) [55]

- Overall, 98.5% of patients experienced TEAEs; of these, 75.8% were grade 3 or higher
- Serious TEAEs were experienced by 29 patients in total (43.9%), 13 patients in arm A and 16 in arm B (39.4% vs 48.5%)
- No new safety signals were identified with either tafasitamab + R-CHOP or tafasitamab + lenalidomide + R-CHOP compared with previous Phase III studies with R-CHOP or R2-CHOP¹⁻³

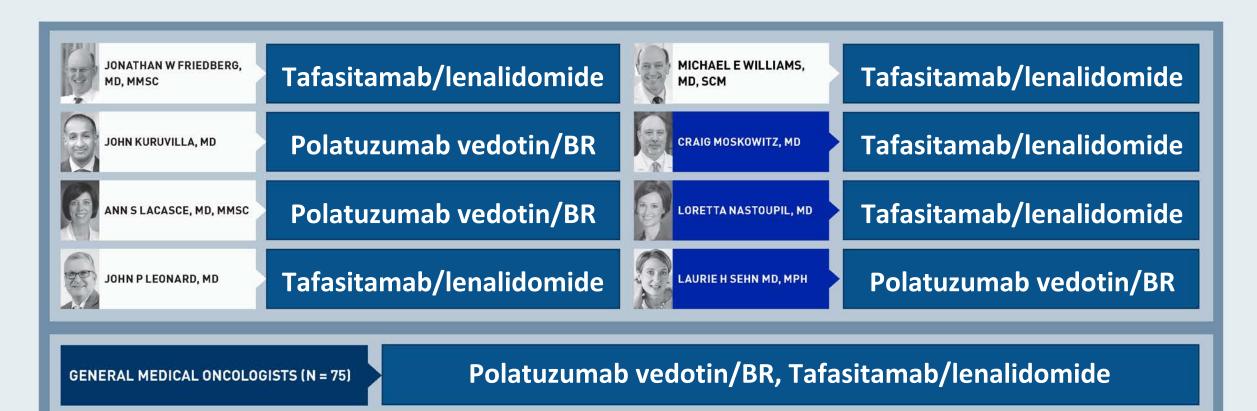


Which therapy would you generally recommend first for a patient with DLBCL who experiences disease progression on front-line R-CHOP and is <u>not eligible for high-dose therapy and CAR T-cell therapy</u>?

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



Which therapy would you generally recommend first for a patient with DLBCL who experiences disease progression on front-line R-CHOP and is <u>unfit for high-dose therapy and CAR T-cell therapy</u>?



Agenda

Module 1: Evolving treatment paradigm for patients with diffuse large B-cell lymphoma (DLBCL) – Dr LaCasce

Module 2: Optimal management of newly diagnosed and relapsed/refractory follicular lymphoma – Dr Leonard

Module 3: Available and emerging approaches for mantle cell lymphoma – Dr Williams

Module 4: Selection and sequencing of therapies for patients with advanced Hodgkin lymphoma – Dr Kuruvilla

Module 5: Advances in chimeric antigen receptor T-cell therapy for DLBCL and other lymphoma subtypes – Dr Friedberg



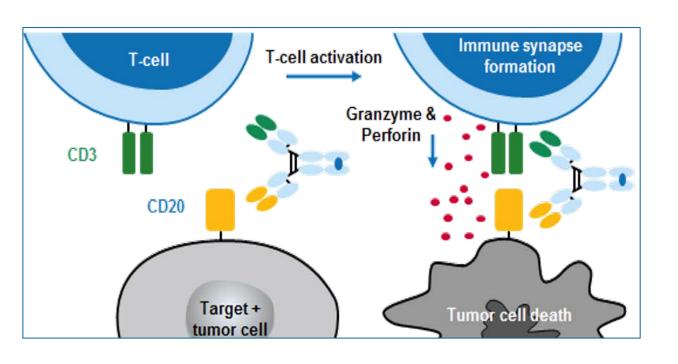
Mosunetuzumab Shows Promising Efficacy in Patients with Multiply Relapsed Follicular Lymphoma: Updated Clinical Experience from a Phase I Dose-Escalation Trial

Sarit Assouline, ¹ Won Seog Kim, ² Laurie H. Sehn, ³ Stephen J. Schuster, ⁴ Chan Yoon Cheah, ⁵ Loretta J. Nastoupil, ⁶ Mazyar Shadman, ⁷ Sung-Soo Yoon, ⁸ Matthew J. Matasar, ⁹ Catherine Diefenbach, ¹⁰ Gareth P. Gregory, ¹¹ Nancy L. Bartlett, ¹² Michael C. Wei, ¹³ Michelle Y. Doral, ¹³ Shen Yin, ¹³ Raluca Negricea, ¹⁴ Chi-Chung Li, ¹³ Elicia Penuel, ¹³ Huang Huang, ¹⁴ L. Elizabeth Budde ¹⁵

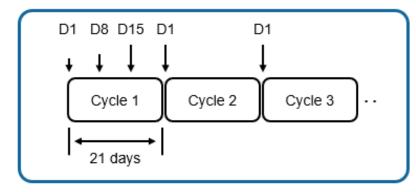
¹Jewish General Hospital, Montreal, QC, Canada; ²Sungkyunkwan University School of Medicine, Samsung Medical Center, Seoul, Republic of Korea; ³BC Cancer Centre for Lymphoid Cancer and The University of British Columbia, Vancouver, BC, Canada; ⁴Abramson Cancer Center, University of Pennsylvania, Philadelphia, PA, USA; ⁵Linear Clinical Research and Sir Charles Gairdner Hospital, Nedlands, WA, Australia; ⁶MD Anderson Cancer Center, Houston, TX, USA; ⁷Fred Hutchinson Cancer Research Center, Seattle, WA, USA; ⁸Seoul National University Hospital, Seoul, Republic of Korea; ⁹Memorial Sloan Kettering Cancer Center, New York, NY, USA; ¹⁰Perlmutter Cancer Center at NYU Langone Health, New York City, NY, USA; ¹¹School of Clinical Sciences at Monash Health, Monash University, Clayton, VIC, Australia; ¹²Department of Medicine, Washington University School of Medicine, St. Louis, MO, USA; ¹³Genentech, Inc., South San Francisco, CA, USA, ¹⁴F. Hoffmann-La Roche Limited, Mississauga, ON, Canada, ¹⁵City of Hope National Medical Center, Duarte, CA, USA.



Mosunetuzumab: full length CD20/CD3 bispecific antibody



Mosunetuzumab regimen

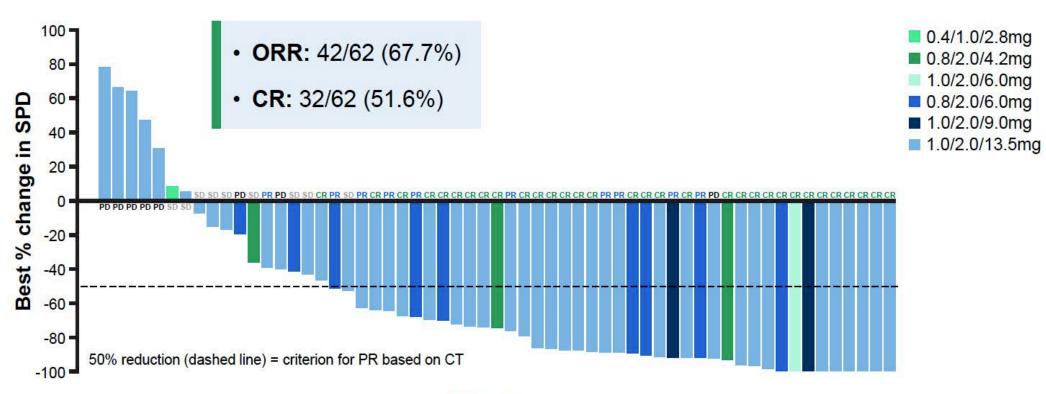


Phase I/Ib GO29781 Trial

Initial treatment = 8 cycles; if CR achieved, treatment discontinued; if PR or SD, treatment continued for up to 17 cycles

Retreatment allowed for CR patients who relapse

Mosunetuzumab antitumor activity in patients with R/R FL across dose levels



Patients

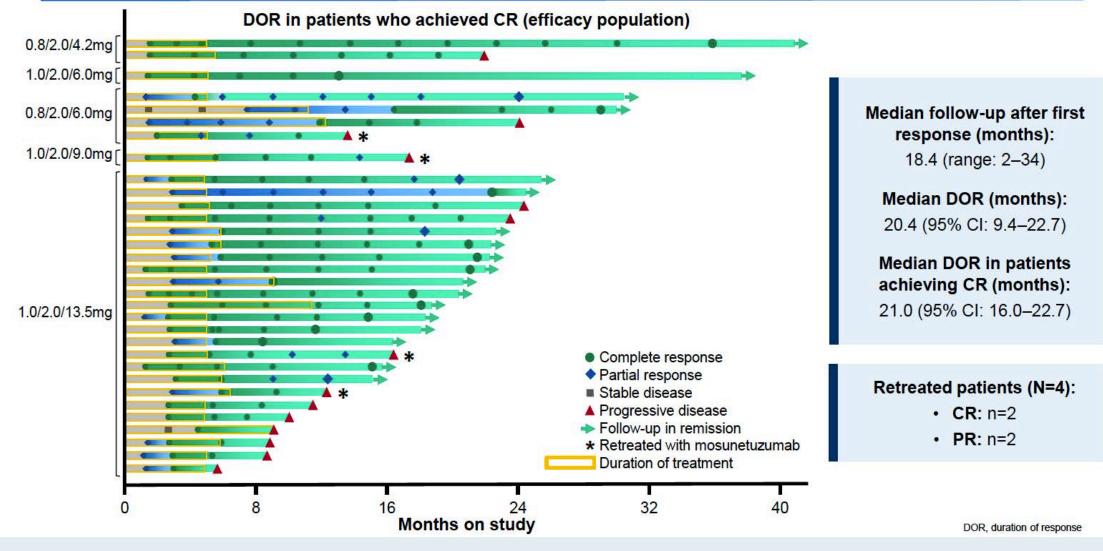
Assessment of higher dose levels is ongoing

SPD, sum of product diameter

1. Cheson BD, et al. J Clin Oncol 2007; 25(5):579–86.



Durable responses achieved with mosunetuzumab in patients with R/R FL







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

Gilles Salles, MD, PhD¹; Hervé Tilly, MD²; Aristeidis Chaidos, MD, PhD³; Pamela McKay, MD⁶; Tycel Phillips, MD⁵; Sarit Assouline, MD⁶; Connie Lee Batlevi, MD, PhD⁷; Phillip Campbell, MB, ChB⁸; Vincent Ribrag, MD⁹; Gandhi Laurent Damaj, MD, PhD¹⁰; Michael Dickinson, DMed Sci¹¹; Wojciech Jurczak, MD, PhD¹²; Maciej Kaźmierczak, MD, PhD¹³; Stephen Opat, MBBS¹⁴; John Radford, MD, FMedSci¹⁵; Anna Schmitt, PhD¹⁶; Jennifer Whalen, DHS¹⁷; Anthony Hamlett, PhD¹⁷; Beth Kamp, PharmD¹⁷; Deyaa Adib, MD¹⁷; Franck Morschhauser, MD¹⁸

¹Lyon-Sud Hospital Center, Pierre-Bénite, France; ²Centre Henri Becquerel, Rouen University, Rouen, France; ³Centre for Haematology, Imperial College London, Imperial College Healthcare NHS Trust, Hammersmith Hospital, London, UK; ⁴Beatson West of Scotland Cancer Centre, Glasgow, Scotland, UK; ⁵University of Michigan, Ann Arbor, MI, USA; ⁶Sir Mortimer B. Davis-Jewish General Hospital, McGill University, Montreal, Quebec, Canada; ⁷Memorial Sloan Kettering Cancer Center, New York, NY, USA; ⁸Barwon Health, Geelong, VIC, Australia; ⁹Gustave Roussy, Villejuif, France; ¹⁰Hematology Institute, University Hospital School of Medicine, Caen, France; ¹¹Peter MacCallum Cancer Centre, Melbourne, VIC, Australia; ¹²Maria Sklodowska-Curie National Research Institute of Oncology, Krakow, Poland; ¹³Examen sp. z o.o, Poznan, Poland, ¹⁴School of Clinical Sciences at Monash Health, Monash University, Victoria, Australia; ¹⁵NIHR Manchester Clinical Research Facility, University of Manchester and the Christie NHS Foundation Trust, Manchester, UK; ¹⁶Institut Bergonie, Bordeaux, France; ¹⁷Epizyme, Inc., Cambridge, MA, USA; ¹⁸Centre Hospitalier Universitaire, Lille, France



Phase 2 Efficacy Outcomes

Efficacy Outcome ^a	Combined WT and MT <i>EZH2</i> (N=99)	WT <i>EZH2</i> (n=54) ¹	MT <i>EZH2</i> (n=45) ¹
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 groups¹
- 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 status¹

^aORR, DOR, and PFS are based on IRC assessments.

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.





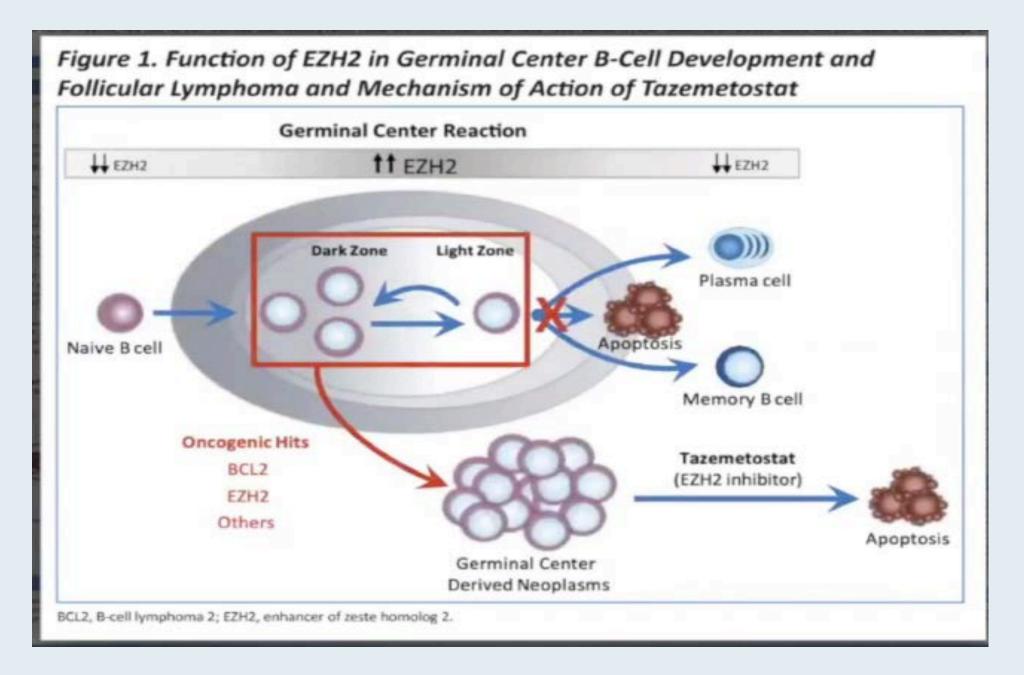


A Phase 1b/3 Randomized, Double-Blind, 3-Stage Study of Tazemetostat or Placebo Plus Lenalidomide and Rituximab in Patients With Relapsed/Refractory Follicular Lymphoma

John Leonard, MD¹; Connie Lee Batlevi, MD, PhD²; Nashat Gabrail, MD³; John M. Pagel, MD, PhD⁴; Jay Yang, PhD⁵; Jennifer Whalen, DHS⁵; Deyaa Adib, MD⁵; Franck Morschhauser, MD⁶

¹Weill Cornell Medicine, New York City, NY, USA; ²Memorial Sloan Kettering Cancer Center, New York City, NY, USA; ³Gabrail Cancer Center, Canton, OH, USA; ⁴Swedish Cancer Institute, Seattle, WA, USA; ⁵Epizyme, Inc., Cambridge, MA, USA; ⁵Université Lille, CHU Lille, ULR 7365 – GRITA – Groupe de Recherche sur les formes Injectables et les Technologies Associées, Lille, France





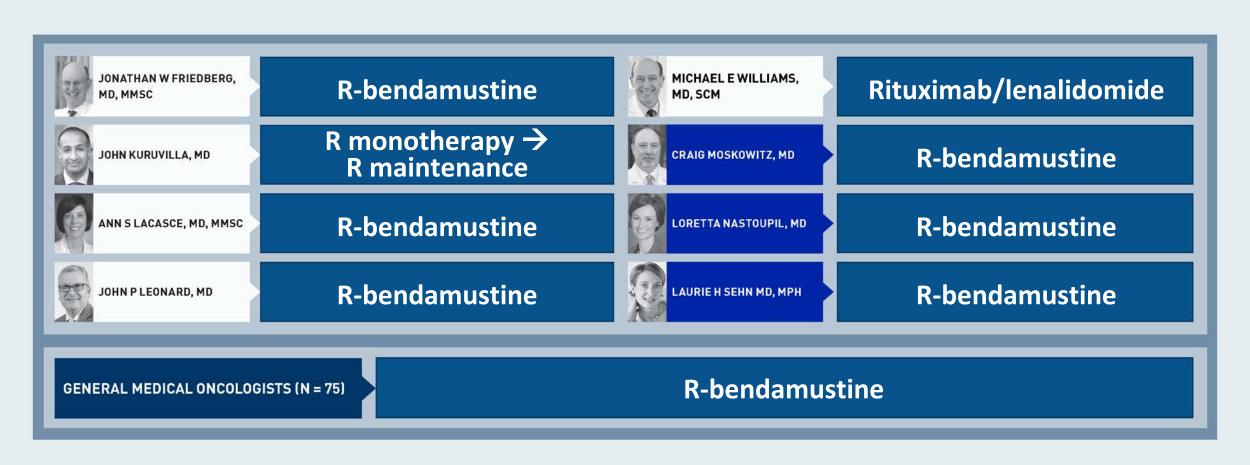


Regulatory and reimbursement issues aside, what would be your most likely initial treatment choice for a <u>78-year-old</u> patient with Stage III, Grade I or II FL with fatigue and symptomatic bulky adenopathy who requires treatment?

- 1. Rituximab
- 2. BR
- 3. R-CHOP
- 4. R-CVP
- 5. Obinutuzumab/bendamustine
- 6. Obinutuzumab/CHOP
- 7. Rituximab/lenalidomide
- 8. Other



Regulatory and reimbursement issues aside, what would be your most likely initial treatment choice for a <u>78-year-old</u> patient with Stage III, Grade I or II FL with fatigue and symptomatic bulky adenopathy who requires treatment?

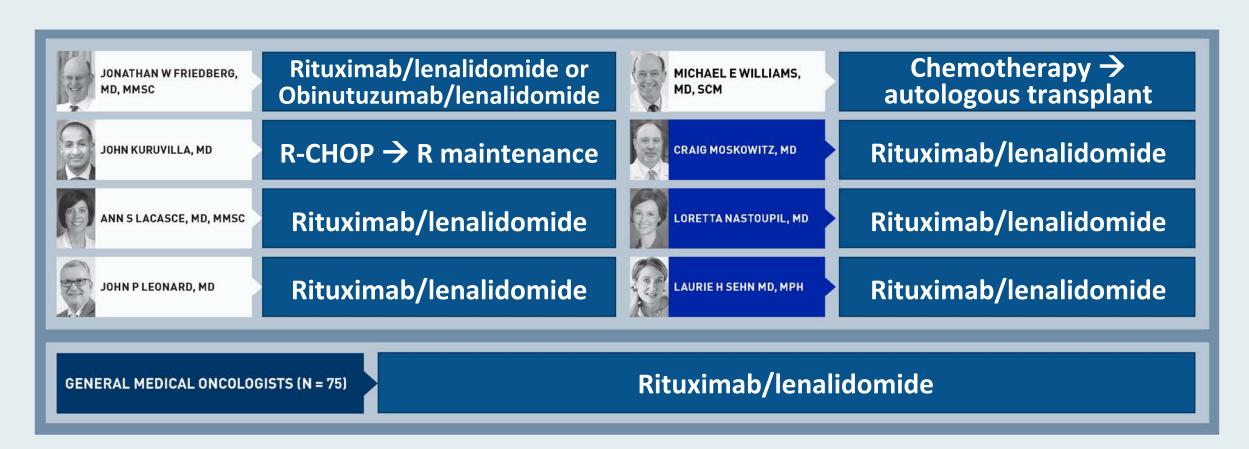


Regulatory and reimbursement issues aside, what is your usual second-line therapy for a 65-year-old patient with FL who attains a complete response to 6 cycles of BR but then experiences disease relapse 4 years later?

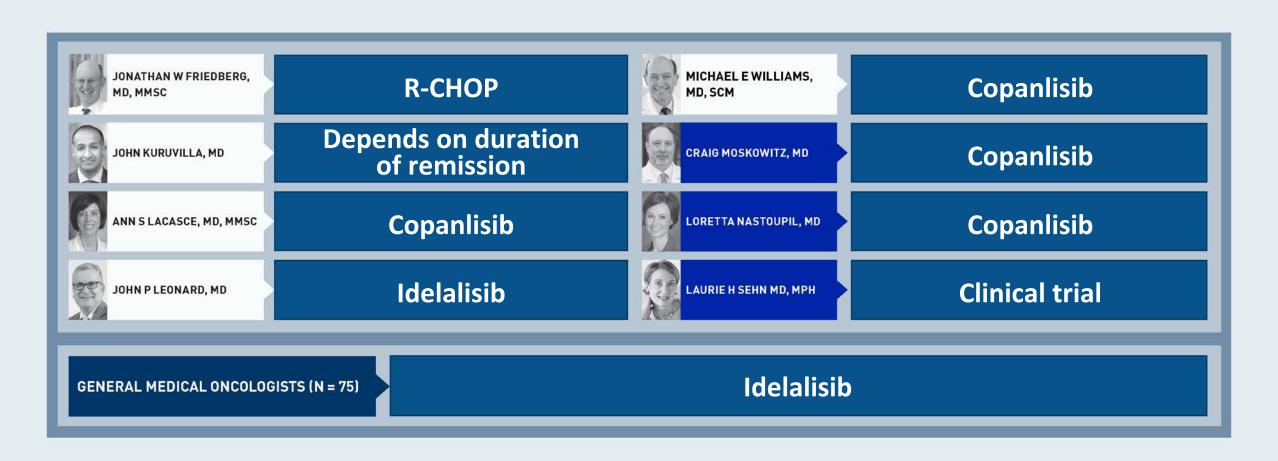
- 1. Re-treatment with BR
- 2. Obinutuzumab/bendamustine
- 3. R-CHOP
- 4. Rituximab/lenalidomide
- 5. PI3K inhibitor
- 6. Tazemetostat
- 7. Chemotherapy → ASCT
- 8. Other



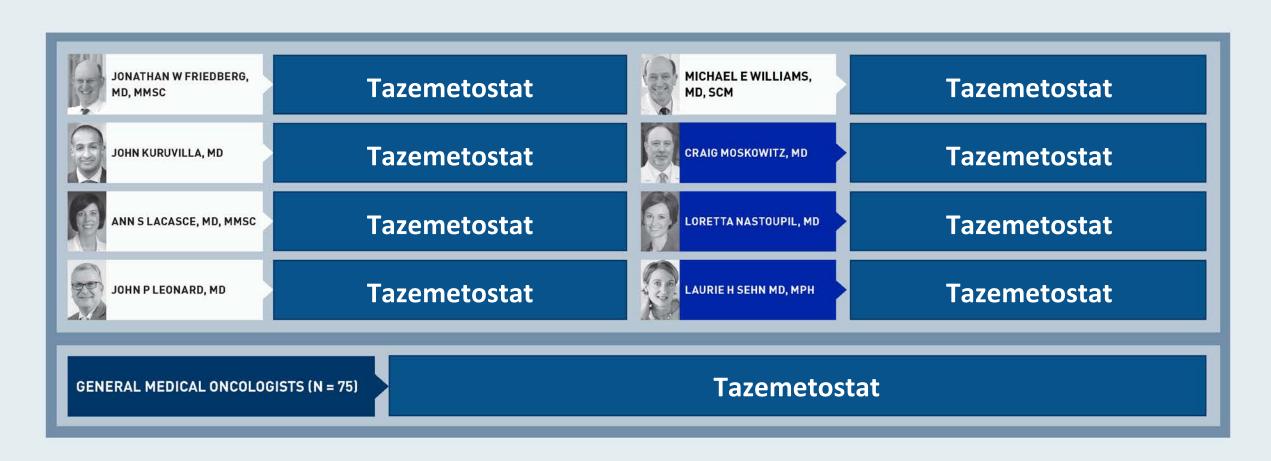
Regulatory and reimbursement issues aside, what is your usual second-line therapy for a 65-year-old patient with FL who achieves a complete response to 6 cycles of bendamustine/rituximab (BR) but then experiences disease relapse 4 years later?



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



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



Agenda

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Module 3: Available and emerging approaches for mantle cell lymphoma – Dr Williams

Module 4: Selection and sequencing of therapies for patients with advanced Hodgkin lymphoma – Dr Kuruvilla

Module 5: Advances in chimeric antigen receptor T-cell therapy for DLBCL and other lymphoma subtypes – Dr Friedberg





Frontline Sequential Immunochemotherapy Plus Lenalidomide for Mantle Cell Lymphoma Incorporating MRD Evaluation: Phase II, Investigator-Initiated, Single-Center Study

Zachary D. Epstein-Peterson, MD, Esther Drill, DrPH, Umut Aypar, PhD, Connie Lee Batlevi, MD, PhD, Philip Caron, MD, PhD, Ahmet Dogan, MD, PhD, Pamela Drullinsky, MD, John Gerecitano, MD, PhD, Audrey Hamilton, MD, Paul A. Hamlin, MD, Caleb Ho, MD, Allison P. Jacob, Leana Laraque, BA, Matthew J Matasar, MD, Alison J. Moskowitz, MD, Craig H. Moskowitz, MD, Chelsea D Mullins, BS, Colette Owens, MD, Gilles Salles, MD, Heiko Schöder, MD, David J. Straus, MD, Anas Younes, MD, Andrew D. Zelenetz, MD, PhD, Anita Kumar, MD



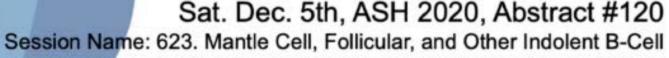
Conclusions

- Clinical outcomes:
 - High ORR/CR rates achieved
 - We did not reach our primary study endpoint
 - Driven by patients with TP53-mutated MCL
 - Among patients with TP53 wt. disease, treatment was effective, even among those with Ki-67 ≥30% and/or blastic morphology: 3-year PFS 69% (improved compared to historical benchmark)
 - Substantiates other data suggesting targeted therapy should be frontline SOC for TP53-mutant MCL rather than immunochemotherapy
- MRD outcomes:
 - High rate of MRD(-) after induction immunochemotherapy (len-R-CHOP + R-HiDAC) at 10⁻⁵ (97%) and 10⁻⁶ (80%)
 - Latter predicted remission duration
 - Many patients converted to MRD(-) after R-HiDAC, highlighting the efficacy of cytarabine in MCL
 - Several patients converted MRD(-) to MRD(+) at 6 months post-EOT and relapsed
 - ?Longer maintenance treatment period beneficial
 - MRD at 10⁻⁶ sensitivity at 6 months post-EoT predicted remission duration



Predictive power of early, sequential MRD monitoring in peripheral blood and bone marrow in patients with mantle cell lymphoma following autologous stem cell transplantation with or without Rituximab maintenance; final results from the LyMa-MRD project, conducted on behalf of the LYSA group.

Mary Callanan, Elizabeth Macintyre, Marie-Hélène Delfau, Catherine Thieblemont, Lucie Oberic, Emmanuel Gyan, Krimo Bouabdallah, Rémy Gressin, Gandhi Damaj, Olivier Casasnovas, Vincent Ribrag, Samuel Griolet, Bénédicte Burlet, Benjamin Tournier, Sylviane Ragot, Caroline Bodet-Milin, Olivier Hermine, and Steven Le Gouill (NCI NCT00921414).



Lymphoma—Clinical Studies: Mantle Cell Lymphoma Clinical Trials



Conclusions / perspectives

- Pre-ASCT MRD status in both BM and PB is an early predictor of PFS and OS in younger MCL patients receiving ASCT.
- Rituximab maintenance provides longer PFS and OS regardless of MRD status pre- or post-ASCT, suggestive of continued, clinically relevant anti-tumor activity of Rituximab against very rare residual circulating and/or 'tissue-resident' MCL cells.
- Integration of PET and molecular MRD status increases early predictive power of either technique alone – new perspectives for MCL management...
- Early sequential MRD monitoring at the pre- and post-ASCT treatment phase offers strong potential for early clinical outcome prediction and MRD-guided, risk-adapted treatment in future MCL trials.

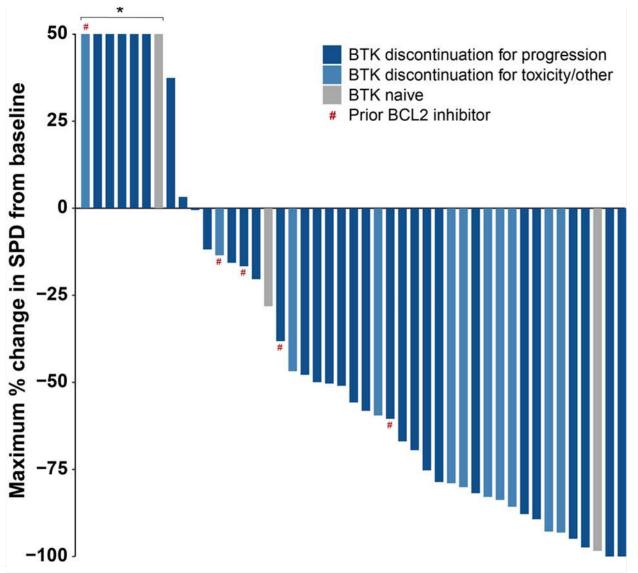


LOXO-305, a Next Generation, Highly Selective, Non-Covalent BTK Inhibitor in Previously Treated Mantle Cell Lymphoma, Waldenström's Macroglobulinemia, and Other Non-Hodgkin Lymphomas: Results from the Phase 1/2 BRUIN Study

Michael L. Wang¹, Nirav N. Shah², Alvaro J. Alencar³, James N. Gerson⁴, Manish R. Patel⁵, Bita Fakhri⁶, Wojciech Jurczak⁷, Xuan Tan⁸, Katharine Lewis⁸, Timothy Fenske⁹, Catherine C. Coombs¹⁰, Ian Flinn¹¹, David Lewis¹², Steven Le Gouill¹³, M. Lia Palomba¹⁴, Jennifer Woyach¹⁵, John M. Pagel¹⁶, Nicole Lamanna¹⁷, Jonathon B. Cohen¹⁸, Minal A. Barve¹⁹, Paolo Ghia²⁰, Toby A. Eyre²¹, Ming Yin²², Binoj Nair²², Donald E. Tsai²², Nora C. Ku²², Anthony R. Mato¹⁴, Chan Y. Cheah⁸

¹Department of Lymphoma and Myeloma, The University of Texas MD Anderson Cancer Center, Houston, TX; ²Medical College of Wisconsin, Brookfield, WI; ³Sylvester Comprehensive Cancer Center, University of Miami, Miller School of Medicine, Miami, FL; ⁴Lymphoma Program, Abramson Cancer Center, University of Pennsylvania, Philadelphia, PA; ⁵Florida Cancer Specialists / Sarah Cannon Research Institute, Sarasota, FL; ⁵Division of Hematology and Oncology, University of California, San Francisco, CA; ¬Maria Sklodowska-Curie National Research Institute of Oncology, Krakow, Poland; ⁵Linear Clinical Research and Sir Charles Gairdner Hospital, Perth, Australia; ⁵Division of Hematology and Oncology, Medical College of Wisconsin, Milwaukee, WI; ¹OLineberger Comprehensive Cancer Center, University of North Carolina, Chapel Hill, NC; ¹¹Sarah Cannon Research Institute, Tennessee Oncology, Nashville, TN; ¹²Plymouth Hospitals NHS Trust - Derriford Hospital, Plymouth, United Kingdom; ¹³Service d'hématologie clinique du CHU de Nantes, NeXT Université de Nantes, Nantes, France; ¹⁴Memorial Sloan Kettering Cancer Center, New York, NY; ¹⁵The Ohio State University Comprehensive Cancer Center, Columbus, OH; ¹⁵Columbus, OH;

Efficacy of LOXO-305 in Mantle Cell Lymphoma



Data cutoff date of 27 September 2020. Total % may be different than the sum of the individual components due to rounding. Data for 11 MCL patients are not shown in the waterfall plot due to 7 having no target lesions identified by CT at baseline (including 4 patients who achieved a best response of CR by PET), 1 with no/incomplete post-baseline lesion measurements, and 3 discontinued prior to first post-baseline disease assessment. *Indicates patients with >50% increase in SPD. aEfficacy evaluable patients are those who had at least one post-baseline response assessment or had discontinued treatment prior to first post-baseline response assessment. bORR includes patients with a best response of CR and PR. Response status per Lugano criteria.

Wang ML et al. ASH 2020; Abstract 117.

Efficacy of LOXO-305 in Mantle Cell Lymphoma

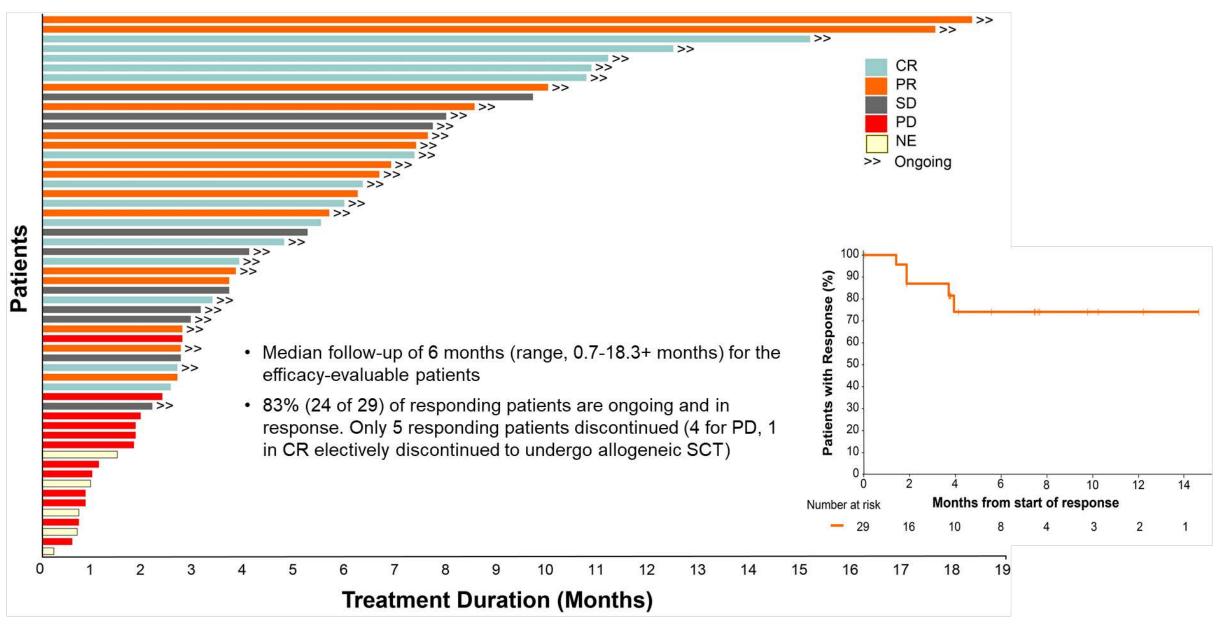
All MCL Patients ^a	n=56	
Overall Response Rateb, % (95% CI)	52% (38-65)	
Best Response		
CR, n (%)	14 (25)	
PR, n (%)	15 (27)	
SD, n (%)	10 (18)	
BTK Pre-Treated MCL Patients ^a	n=52	
Overall Response Rateb, % (95% CI)	52% (38-66)	
Best Response		
CR, n (%)	13 (25)	
PR, n (%)	14 (27)	
1276 67 153		

Efficacy also seen in patients with prior:

- Stem cell transplant: ORR 64% (9/14)
- CAR-T therapy: ORR 100% (2/2)

Data cutoff date of 27 September 2020. Total % may be different than the sum of the individual components due to rounding. Data for 11 MCL patients are not shown in the waterfall plot due to 7 having no target lesions identified by CT at baseline (including 4 patients who achieved a best response of CR by PET), 1 with no/incomplete post-baseline lesion measurements, and 3 discontinued prior to first post-baseline disease assessment. *Indicates patients with >50% increase in SPD. ^aEfficacy evaluable patients are those who had at least one post-baseline response assessment or had discontinued treatment prior to first post-baseline response assessment. ^bORR includes patients with a best response of CR and PR. Response status per Lugano criteria. Wang ML et al. ASH 2020; Abstract 117.

LOXO-305 Treatment Duration in Mantle Cell Lymphoma



Data cutoff date of 27 September 2020.

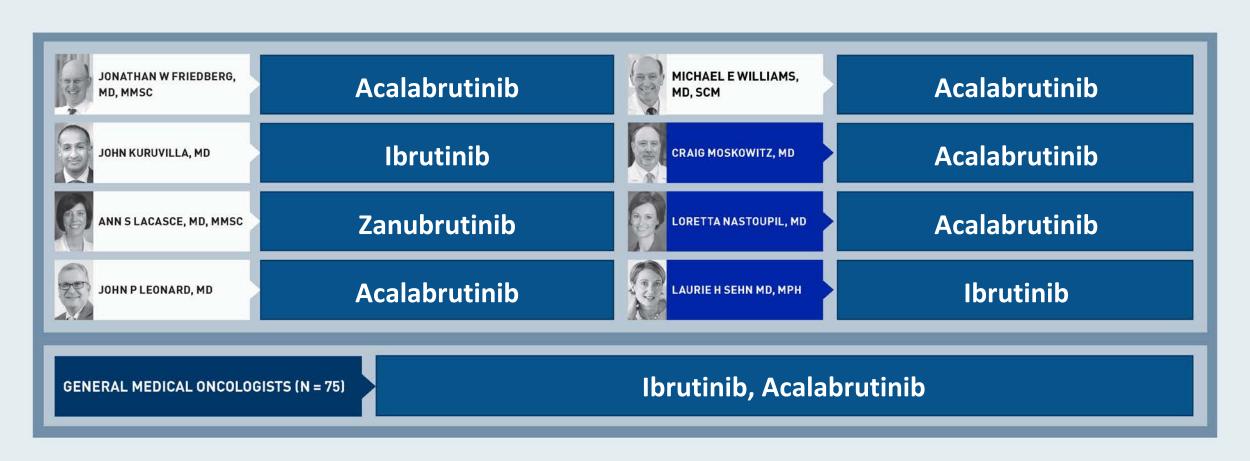
Wang ML et al. ASH 2020; Abstract 117.

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

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



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



Have you administered or would you administer a Bruton tyrosine kinase (BTK) inhibitor as front-line treatment to a patient with MCL who is too frail to receive chemotherapy?

- I haven't and would not
- 2. I haven't but would for the right patient
- 3. I have



Have you administered or would you administer a BTK inhibitor as front-line treatment to a patient with MCL who is too frail to receive chemotherapy?

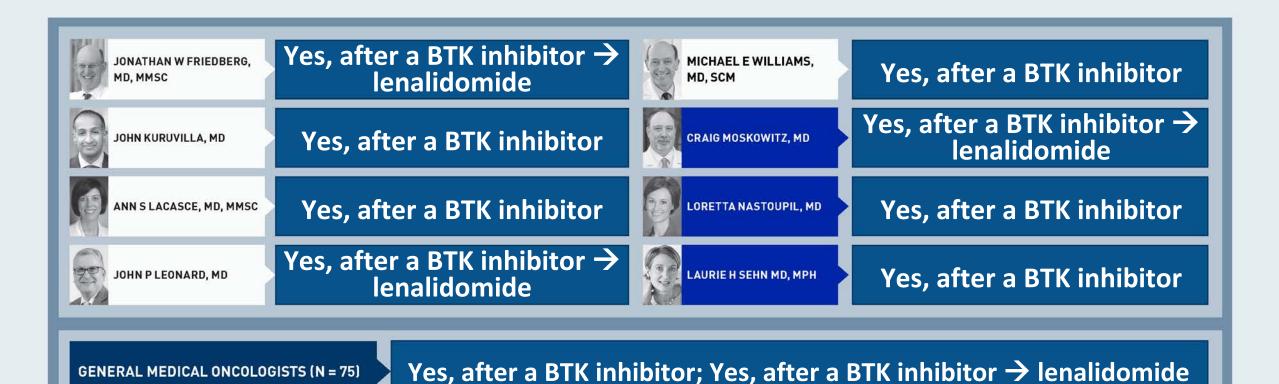


Regulatory and reimbursement issues aside, would you attempt to access venetoclax for select patients with relapsed/refractory MCL?

- 1. Yes, as up-front treatment
- 2. Yes, after a BTK inhibitor
- 3. Yes, after a BTK inhibitor \rightarrow lenalidomide
- 4. Yes, in other situations
- 5. No



Regulatory and reimbursement issues aside, would you attempt to access venetoclax for select patients with relapsed/refractory MCL?

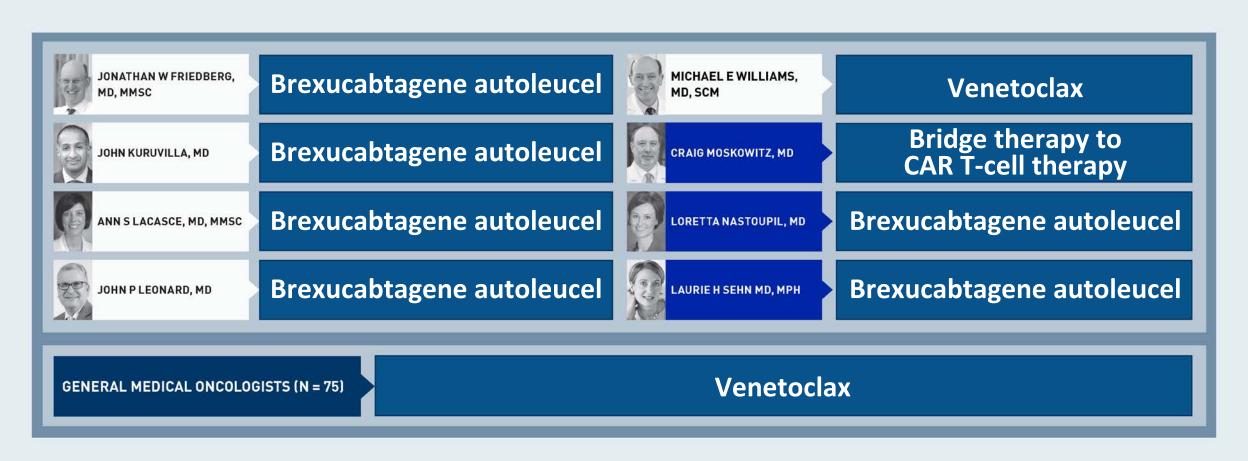


In general, what would be your most likely treatment recommendation for a 70-year-old patient with MCL who responds to BR and then to ibrutinib on relapse but then develops rapid tumor progression?

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



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



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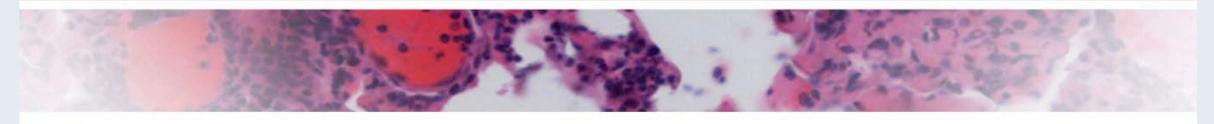
Module 3: Available and emerging approaches for mantle cell lymphoma – Dr Williams

Module 4: Selection and sequencing of therapies for patients with advanced Hodgkin lymphoma – Dr Kuruvilla

Module 5: Advances in chimeric antigen receptor T-cell therapy for DLBCL and other lymphoma subtypes – Dr Friedberg







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

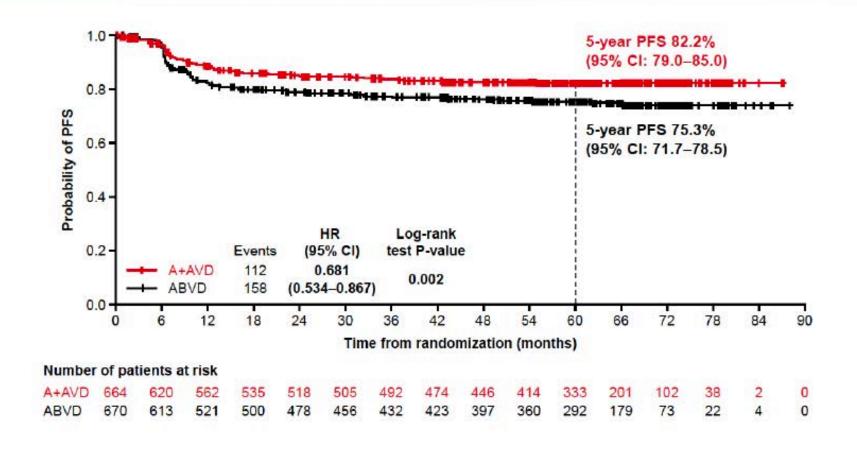
David J. Straus, Monika Długosz-Danecka, Joseph M. Connors, Árpád Illés, Marco Picardi, Ewa Lech-Maranda, Tatyana Feldman, Piotr Smolewski, Kerry J. Savage, Nancy L. Bartlett, Jan Walewski, Radhakrishnan Ramchandren, Marchandren, Martin Hutchings, Javier Munoz, Munoz, Kanjana Advani, Radhakrishnan Ramchandren, Marchandren, Radhakrishnan Ramchandren, Marchandren, Marc

¹Department of Medicine, Lymphoma Service, Memorial Sloan Kettering Cancer Center, New York, NY, USA; ²Maria Sklodowska-Curie National Research Institute of Oncology, Kraków, Poland; ³BC Cancer Centre for Lymphoid Cancer, Vancouver, Canada; ⁴University of Debrecen, Debrecen, Debrecen, Hungary; ⁵Department of Clinical Medicine and Surgery, Federico II University, Naples, Italy; ⁶Department of Hematology, Institute of Hematology and Transfusion Medicine, Warsaw, Poland; ⁷Hackensack, NJ, USA; ⁸Department of Experimental Hematology. Medical University of Lodz, Poland; ⁹Washington University School of Medicine Siteman Cancer Center, St Louis, MO, USA; ¹⁰Maria Sklodowska-Curie Institute and Oncology Centre, Warsaw, Poland; ¹¹The University of Tennessee Graduate School of Medicine, Knoxville, TN, USA; ¹²Azienda Ospedaliero-Universitaria di Bologna, Bologna, Italy, and Istituto di Ematologia "Seràgnoli", Dipartiment of Medicine, Specialistica, Diagnostica e Sperimentale, Università degli Studi, Bologna, Italy; ¹³Department of Haematology, Rigshospitalet, Copenhagen, Denmark; ¹⁴Banner Mp Anderson Cancer Center, Gibert, AZ, USA; ¹⁵Division of Haematology, Mayo Clinic, Rochester, MN, USA; ¹⁸Research and Innovation, Antoine-Lacassagne Cancer Centre, Nice, France; ¹⁹Millennium Pharmaceuticals, Inc., Cambridge, MA, USA, a wholly owned subsidiary of Takeda Pharmaceutical Company Limited; ²⁰Seattle Genetics, Inc., Bothell, WA, USA; ²¹The University of Manchester and the Christie NHS Foundation Trust, Manchester Academic Health Science Centre, Manchester, United Kingdom





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



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

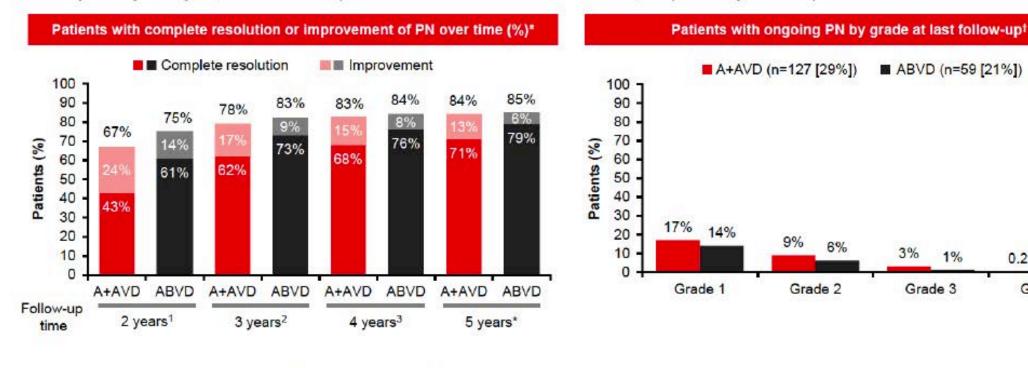


^{*}September 14, 2020 data cut-off.



ECHELON-1: PN resolution and improvement

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



Resolution was defined as event outcome of "resolved" or "resolved with sequelae"; Improvement was defined as "improved by ≥1 grade from worst grade as of the latest assessment"; *Percentages rounded to nearest integer, †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.

0.2% 0%

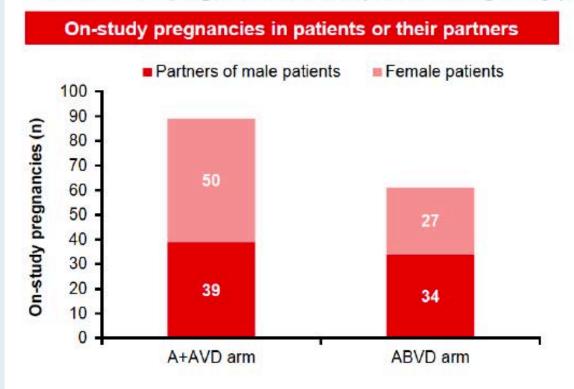
Grade 4

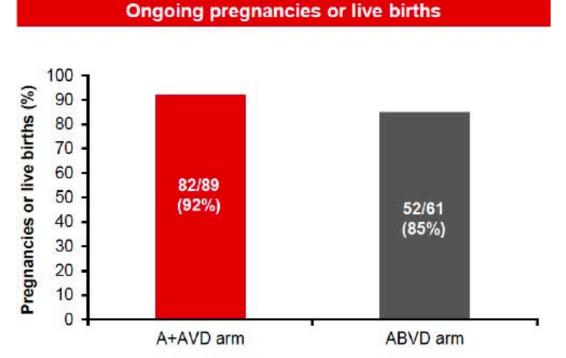




ECHELON-1: Pregnancies

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







FRONTLINE BRENTUXIMAB VEDOTIN AS MONOTHERAPY OR IN COMBINATION FOR OLDER HODGKIN LYMPHOMA PATIENTS

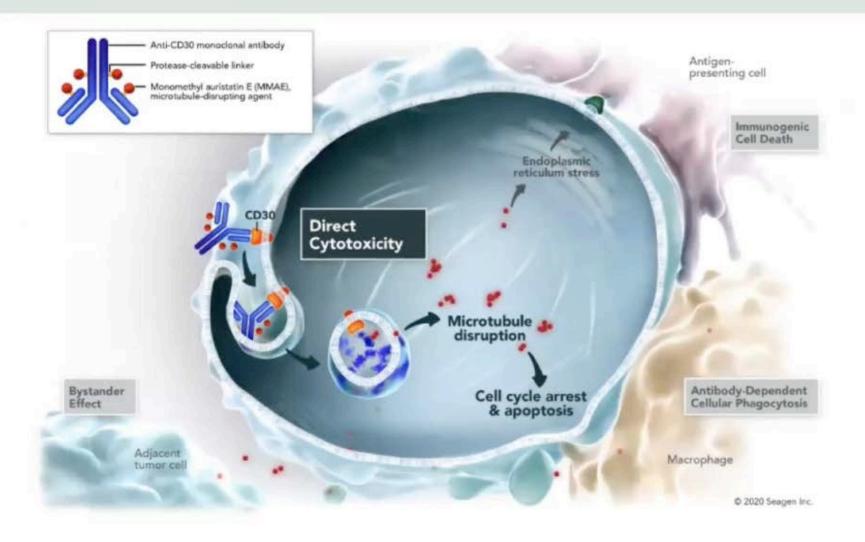
Christopher A. Yasenchak¹, Rodolfo Bordoni², Dipti Patel-Donnelly³, Timothy Larson⁴, Jerome Goldschmidt⁵, Ralph Boccia⁶, Vivian J. M. Cline⁷, Mariana Sacchi⁸, Andres Forero-Torres⁹, Robert Sims⁹, Jingmin Liu⁹, Jonathan W. Friedberg¹⁰

¹Willamette Valley Cancer Institute and Research Center/US Oncology Research, Eugene, OR; ²Georgia Cancer Specialists, Marietta, GA; ³Virginia Cancer Specialists, Fairfax, VA; ⁴Minnesota Oncology P.A., Minneapolis, MN; ⁵Oncology and Hematology Associates of SW Virginia, Blacksburg VA; ⁶Center for Cancer and Blood Disorders, Bethesda, MD; ³US Oncology, Austin, TX; ⁶Bristol Myers Squibb, Princeton, NJ; ⁶Seagen Inc., Bothell, WA; ¹OUniversity of Rochester Medical Center, Rochester, NY

American Society of Hematology Annual Meeting; December 5-8, San Diego, CA; Abstract No. 471



Brentuximab Vedotin Proposed Mechanism of Action





Best Responses per Investigator – Efficacy Evaluable Set

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

Patients who were not efficacy-evaluable included:

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



Summary

Treatment options for older adults with cHL that may not be considered for conventional combination therapy:

BV monotherapy

- Active regimen in elderly population
 - Median 78 years of age
 - Median follow up of 54.5 months
 - ORR 92% (95% CI: 74%, 99%)
 - Median OS >6 years
- Notable activity and tolerability in cHL patients unable to tolerate a multi-agent regimen

BV combination treatments

- BV+nivo and BV+DTIC
 - Promising activity (ORR 95%-100%)
 - Favorable safety profile in older adults with previously untreated cHL
- BV+benda associated with multiple acute toxicities
- Additional long-term follow-up is ongoing







Consolidation with Nivolumab and Brentuximab Vedotin After Autologous Hematopoietic Cell Transplantation (AHCT) in Patients with High-Risk Hodgkin Lymphoma (HL)

Alex F. Herrera¹, Lu Chen², Yago Nieto³, Leona Holmberg⁴, Patrick Johnston⁵, Matthew Mei¹, Leslie Popplewell¹, Saro Armenian⁶, Thai Cao¹, Leonardo Farol¹, Firoozeh Sahebi¹, Ricardo Spielberger¹, Robert Chen¹, Auayporn Nademanee¹, Alan Skarbnik⁷, Neena Kennedy¹, Lacolle Peters¹, Steven Rosen¹, Larry Kwak¹, Stephen Forman¹, Tatyana Feldman⁸

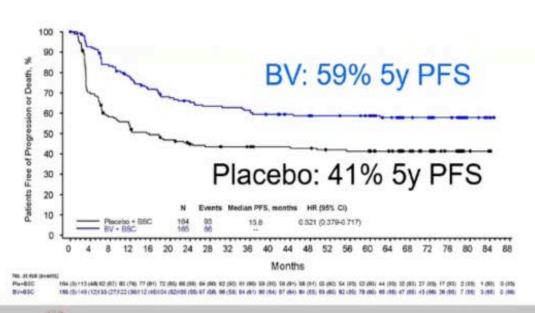
1 Department of Hematology and Hematology and Hematology and Hematology, Carre, CA; 2 Department of Computational and Quantitative Medicine, City of Hope, Duarte, CA; 3 Department of Stem Cell
Transplantation and Cellular Therapy, UT M.D. Anderson Cancer Ctr., Houston, TX, 4 Clinical Research Division, Fred Hutchinson Cancer Research Center, Seattle, WA, 5 Division of Hematology, Department of Internal
Medicine, Mayo Clinic, Rochester, MN, 6 Department of Population Sciences, City of Hope, Duarte, CA, 7 Novant Health, Charlotte, NC, 8 Hackensack University Medical Center, Hackensack, NJ



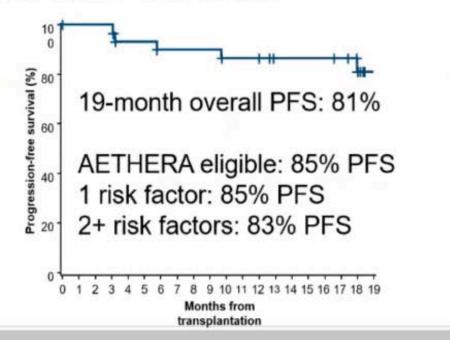


Introduction - Consolidation after AHCT in HL

AETHERA, BV consolidation after AHCT n = 329 high-risk R/R HL, 16 cycles 85% with 2+ risk factors



Pembrolizumab consolidation after AHCT n = 30 R/R HL, 8 cycles 40% with 2+ risk factors





Moskowitz CH, et al Blood 2019, Armand P, et al. Blood 2019.





Conclusions

- BV+Nivo consolidation for 8 cycles after AHCT in patients with high-risk R/R
 HL is a promising approach
 - 92% 19-month PFS in all pts
 - 19-month PFS was 96% in pts with 2 risk factors, 83% with 3+ risk factors
 - 51% with prior BV exposure, 42% with prior anti-PD1 exposure
- BV+Nivo consolidation was tolerable, but associated with more irAE than in pre-AHCT setting (27% requiring steroids)
 - Neuropathy (51%) and neutropenia (42%) were common, no febrile neutropenia
- Based on these results, BV+Nivo consolidation after AHCT should be evaluated further







Weill Cornell Medicine

Multicenter Phase II Study of Oral Azacitidine (CC486) plus CHOP as Initial Treatment for Peripheral T-cell Lymphoma

Jia Ruan, Alison Moskowitz, Neha Mehta-Shah, Lubomir Sokol, Zhengming Chen, Riyaad Rahim, Wei Song, Koen van Besien, Steven Horwitz, Sarah Rutherford, Morton Coleman, Ari Melnick, Giorgio Inghirami, Leandro Cerchietti, John P Leonard, Peter Martin



Weill Cornell Medicine; Memorial Sloan Kettering Cancer Center Washington University in St. Louis; Moffitt Cancer Center



Conclusions

- This study provides the first demonstration that addition of hypomethylating oral azacitidine to CHOP as initial therapy for PTCL is safe, well tolerated, and induces high response rates, including CR of 88% in PTCL-TFH subtype.
- Exploratory mutational analysis by WES-NGS suggests that TET2
 mutations were associated with CR and favorable PFS, while DNMT3A
 mutations were associated with adverse OS.



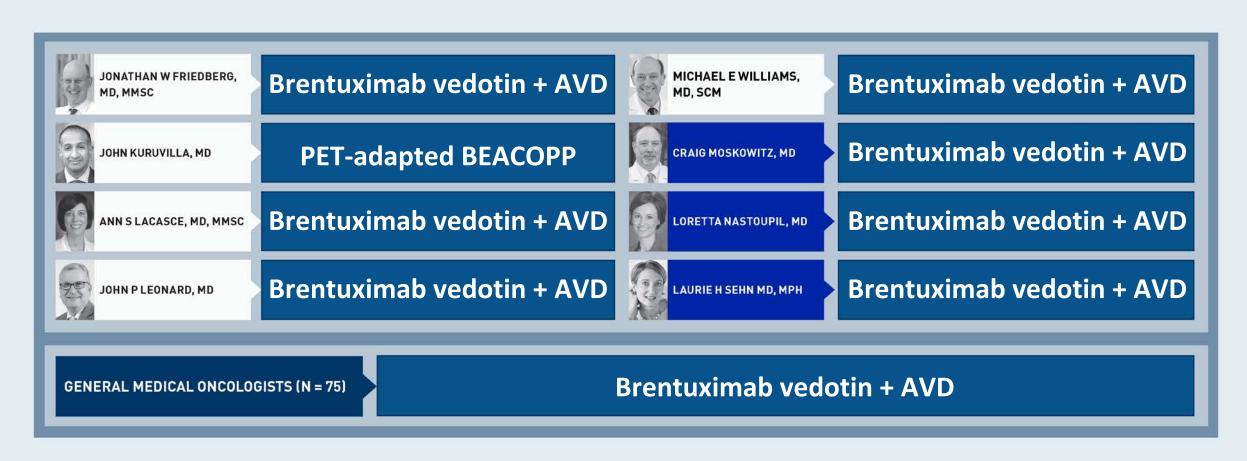


A 27-year-old man is diagnosed with Stage IVB classical HL with nodal, spleen and bone involvement. Albumin is 3.1 g/dL, Hgb is 8.6 g/dL and white blood cell count is 17,500. IPS (International Prognostic Score): 5. What initial treatment would you recommend?

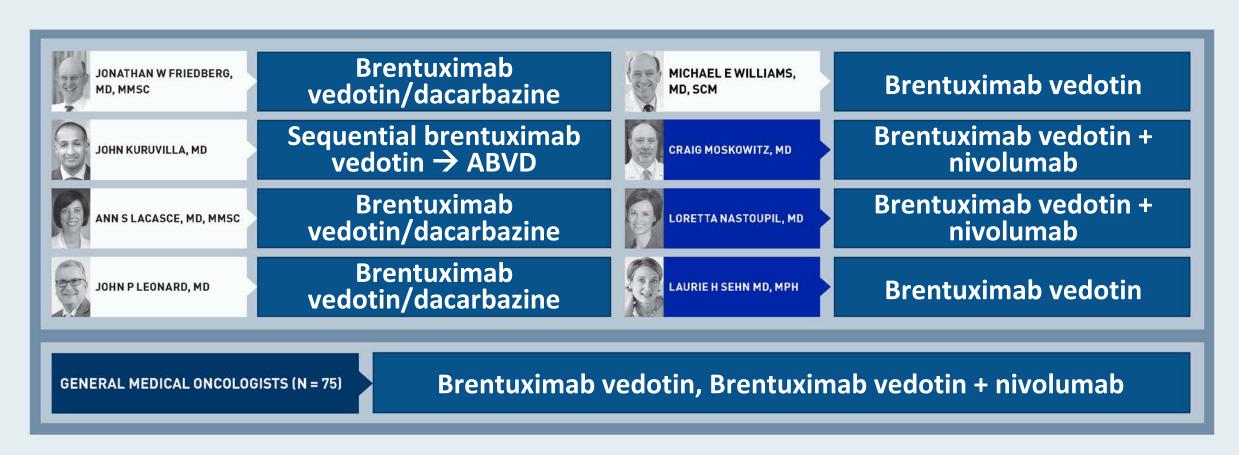
- 1. Doxorubicin/bleomycin/vinblastine/dacarbazine (ABVD)
- 2. PET-adapted ABVD
- 3. Brentuximab vedotin + AVD
- 4. AVD
- 5. Other chemotherapy
- 6. Other



A 27-year-old man is diagnosed with Stage IVB classical Hodgkin lymphoma (HL) with nodal, spleen and bone involvement. Albumin is 3.1 g/dL, Hgb is 8.6 g/dL and white blood cell count is 17,500. IPS = 5. What initial treatment would you recommend?



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

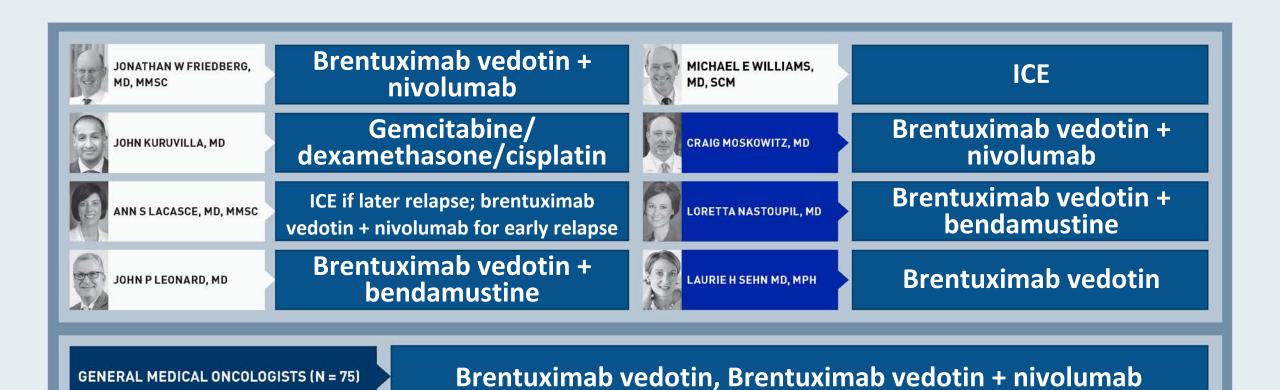


Regulatory and reimbursement issues aside, what would generally be your preferred bridge to transplant for a patient with HL who is experiencing relapse after up-front ABVD?

- 1. ICE (ifosfamide/carboplatin/etoposide)
- 2. Brentuximab vedotin
- 3. Brentuximab vedotin + nivolumab
- 4. Brentuximab vedotin + pembrolizumab
- 5. Other



Regulatory and reimbursement issues aside, what would generally be your preferred bridge to transplant for a patient with HL who is experiencing relapse after up-front ABVD?

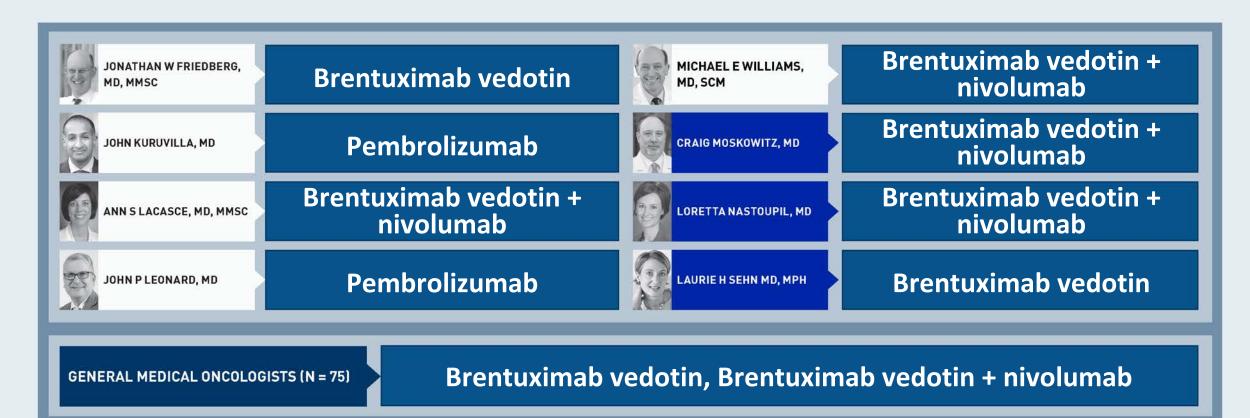


Regulatory and reimbursement issues aside, what is generally your preferred second-line therapy for a patient with HL who is experiencing relapse after up-front ABVD and who is not considered a candidate for transplant?

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



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



Agenda

Module 1: Evolving treatment paradigm for patients with diffuse large B-cell lymphoma (DLBCL) – Dr LaCasce

Module 2: Optimal management of newly diagnosed and relapsed/refractory follicular lymphoma – Dr Leonard

Module 3: Available and emerging approaches for mantle cell lymphoma – Dr Williams

Module 4: Selection and sequencing of therapies for patients with advanced Hodgkin lymphoma – Dr Kuruvilla

Module 5: Advances in chimeric antigen receptor T-cell therapy for DLBCL and other lymphoma subtypes – Dr Friedberg



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)

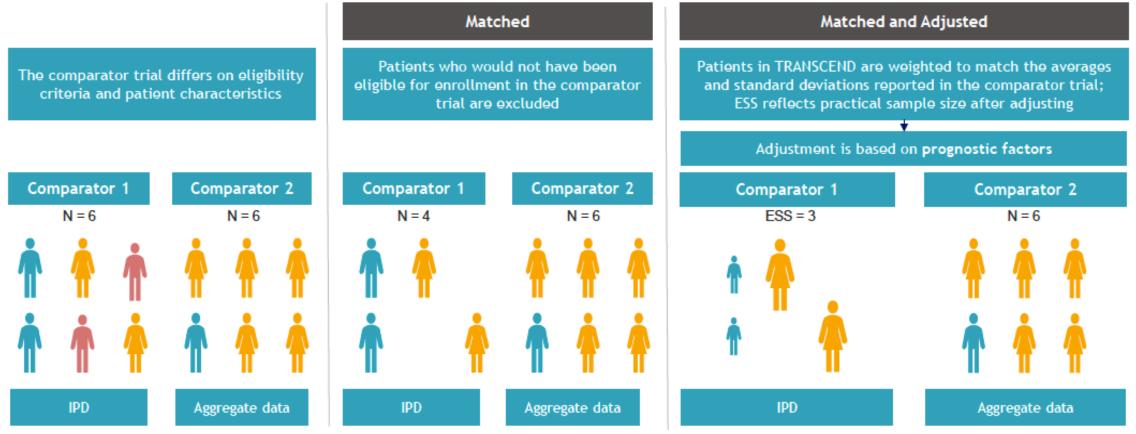
David G. Maloney, 1 John Kuruvilla, 2 Christopher P. Fox, 3 <u>Guillaume Cartron</u>, 4 Daniel Li, 5 Jens Hasskarl, 6 Ashley Bonner, 7 Yixie Zhang, 7 Fei Fei Liu⁸

¹Fred Hutchinson Cancer Research Center, Seattle, WA, USA; ²Princess Margaret Cancer Centre, Toronto, ON, Canada; ³Nottingham University Hospitals NHS Trust, Nottingham, UK; ⁴Montpellier University Hospital Center, Montpellier, France; ⁵Bristol Myers Squibb, Seattle, WA, USA; ⁶Celgene, a Bristol-Myers Squibb Company, Boudry, Switzerland; ⁷EVERSANA, Burlington, ON, Canada; ⁸Bristol Myers Squibb, Princeton, NJ, USA



MAICs to Estimate Population-Adjusted Relative Treatment Effects

Patients from TRANSCEND were removed from the liso-cel patient population if they did not satisfy eligibility criteria specified in the
comparator trial for each MAIC. Remaining patients from TRANSCEND were then weighted using method-of-moments propensity score
models involving clinically relevant prognostic factors (baseline characteristics) to match the marginal distribution (eg, mean, variance)
of clinical factors among patients from ZUMA-1 and JULIET



Summary

- MAIC-weighted outcomes suggest that liso-cel provides a well-balanced overall efficacy and safety profile for the treatment of R/R LBCL
 - Better efficacy and comparable safety vs tisagenlecleucel
 - Better safety and comparable efficacy vs axi-cel
- Without head-to-head clinical trials, these indirect comparisons aimed to narrow between-study differences and create fair comparisons of the 3 CAR T cell therapies
 - Despite the rigorous process that identified clinically important factors, there is no guarantee that all relevant CAR T cell therapy clinical factors were included
 - Although TRANSCEND had the largest sample size that enabled adjustments, not all factors identified in the process were included due to inconsistent reporting across trials

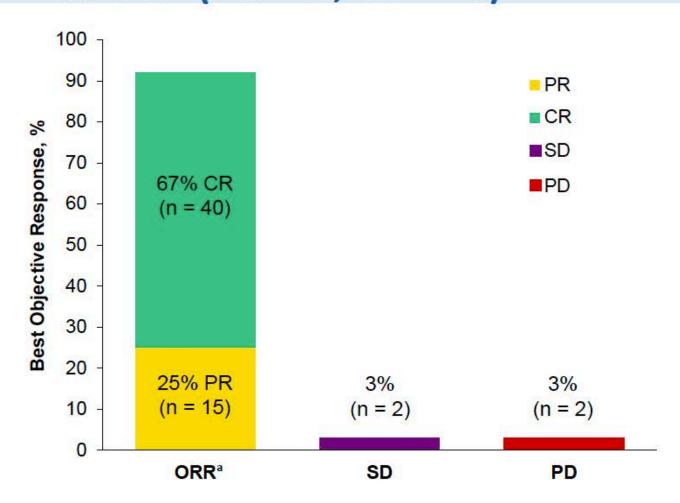
One-Year Follow-Up of ZUMA-2, the Multicenter, Registrational Study of KTE-X19 in Patients With Relapsed/Refractory Mantle Cell Lymphoma

Michael L. Wang, MD¹; Javier Munoz, MD²; Andre Goy, MD³; Frederick L. Locke, MD⁴; Caron A. Jacobson, MD⁵; Brian T. Hill, MD, PhD⁶; John M. Timmerman, MD⁷; Houston Holmes, MD⁶; Samantha Jaglowski, MD⁶; Ian W. Flinn, MD, PhD¹⁰; Peter A. McSweeney, MD¹¹; David B. Miklos, MD, PhD¹²; John M. Pagel, MD, PhD¹³; Marie José Kersten, MD, PhD¹⁴; Krimo Bouabdallah, MD¹⁵; Henry C.H. Fung, MD¹⁶; Max S. Topp, MD¹⁷; Roch Houot, MD¹⁶; Amer Beitinjaneh, MD¹⁰; Weimin Peng, PhD²⁰; Lianqing Zheng, PhD²⁰; John M. Rossi, MS²⁰; Swaminathan Murugappan, MD, PhD²⁰; Ioana Kloos, MD²⁰; and Patrick M. Reagan, MD²¹

¹The University of Texas MD Anderson Cancer Center, Houston, TX, USA; ²Banner MD Anderson Cancer Center, Gilbert, AZ, USA; ³John Theurer Cancer Center, Hackensack, NJ, USA; ⁴Moffitt Cancer Center, Tampa, FL, USA; ⁵Dana-Farber Cancer Institute, Boston, MA, USA; ⁶Cleveland Clinic Foundation, Cleveland, OH, USA; ⁷David Geffen School of Medicine at UCLA, Los Angeles, CA, USA; ⁸Texas Oncology, Dallas, TX, USA; ⁹The Ohio State University Comprehensive Cancer Center, Columbus, OH, USA; ¹⁰Sarah Cannon Research Institute, Nashville, TN, USA; ¹¹Colorado Blood Cancer Institute, Denver, CO, USA; ¹²Stanford University School of Medicine, Stanford, CA, USA; ¹³Swedish Cancer Institute, Seattle, WA, USA; ¹⁴Amsterdam UMC, University of Amsterdam, Amsterdam, The Netherlands, on behalf of HOVON/LLPC; ¹⁵Hopital Haut Leveque, Pessac, France; ¹⁶Fox Chase Cancer Center, Philadelphia, PA, USA; ¹⁷Universitatsklinikum Wurzburg, Wurzburg, Germany; ¹⁸CHU Rennes, Rennes, France; ¹⁹University of Miami, Miami, FL, USA; ²⁰Kite, a Gilead Company, Santa Monica, CA, USA; and ²¹University of Rochester Medical Center, Rochester, NY, USA



ORR by IRRC Assessment Was 92% (95% CI, 82 – 97) and CR Rate Was 67% (95% CI, 53 – 78)



- At a median follow-up of 17.5 months (range, 12.3 – 37.6), 29 of 60 evaluable patients (48%) remain in ongoing responses
 - 28 of 40 patients who achieved CR (70%) remain in response
- The first 28 patients treated had a median follow-up of 32.3 months (range, 30.6 – 37.6)
 - 39% of patients remain in continued remission with no further therapy
- In all enrolled patients (N = 74), ORR was 84% (59% CR rate)

CR, complete response; IRRC, Independent Radiology Review Committee; ORR, objective response rate; PD, progressive disease; PR, partial response; SD, stable disease.

5 Wang et al ASH 2020 Abstract 1120

^a Assessed by an IRRC according to the Lugano Classification.¹ One patient was not evaluable.

^{1.} Cheson BD, et al. J Clin Oncol. 2014;32:3059-3068.

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

Nathan Hale Fowler, 1,2 Michael Dickinson, Martin Dreyling, Joaquin Martinez-Lopez, Arne Kolstad, Jason Butler, Monalisa Ghosh, Leslie Popplewell, Julio C. Chavez, Emmanuel Bachy, Kato, Hideo Harigae, Marie José Kersten, Acharalambos Andreadis, Feter A. Riedell, P. Joy Ho, Tosé Antonio Pérez Simón, Sarah Nagle, Loretta Nastoupil, Bastian von Tresckow, Andrés José María Ferreri, Andrés José María Ferreri, Palanori Teshima, Pales EM Patten, Andrés José María Ferreri, Pales Ram Malladi, Lida Bubuteishvili Pacaud, Alessandra Forcina, Alessandra Forcina, Stephen J. Schuster, Salesha Zia, Catherine Thieblemont, authors.

1 The University of Texas MD Anderson Cancer Center, Houston, TX; 2 Boston Gene, Waltham, MA; 3 Peter MacCallum Cancer Centre and Royal Melbourne Hospital, Melbourne, Australia; 4 Medizinische Klinik III, LMU Klinikum, Munich, Germany; ⁵Hospital 12 De Octubre, Complutense University, CNIO, Madrid, Spain; ⁶Oslo University Hospital, Oslo, Norway; ⁷Royal Brisbane Hospital, Herston, Australia; ⁸Michigan Medicine University of Michigan, Ann Arbor, MI; ⁹City of Hope National Medical Center, Duarte, CA; ¹⁰Moffitt Cancer Center, Tampa, FL; ¹¹Hospices Civils de Lyon and Université Claude Bernard Lyon, France; ¹²Kyushu University Hospital, Fukuoka, Japan; ¹³Tohoku University, Hospital, Sendai, Japan; ¹⁴Amsterdam UMC, University of Amsterdam, Netherlands, on behalf of HOVON/LLPC; ¹⁵Helen Diller Family Comprehensive Cancer Center, UCSF, San Francisco, CA; ¹⁶University of Chicago Medical Center, Chicago, IL; ¹⁷Royal Prince Alfred Hospital And University of Sydney, Camperdown, Australia; ¹⁸Department of Hematology, University Hospital Virgen del Rocio, Instituto de Biomedicina de Sevilla (IBIS / CSIC / CIBERONC), Universidad de Sevilla, Sevilla, Spain; ¹⁹Oregon Health and Science University, Portland, OR; ²⁰Department I of Internal Medicine, Medical Faculty and University Hospital Cologne, University of Cologne, Cermany; ²¹Clinic for Hematology and Stem Cell Transplantation, West German Cancer Center, University Hospital Essen, University of Duisburg-Essen, Essen, Germany; ²²IRCCS Ospedale San Raffaele, Milan, Italy; ²³Hokkaido University Hospital, Sapporo, Japan; ²⁴King's College Hospital and King's College London, London, United Kingdom; ²⁵University of Kansas Hospital and Medicine I, Ordensklinikum Linz GmbH Elisabethinen, Linz, Austria; ²⁷UZ Gent, Belgium; ²⁸Department of Internal Medicine III, University Hospital of Ulm, Ulm, Germany; ²⁹Institute of Hematology "Seragnoli," University of Bologna, Bologna, Italy; ³⁰Cambridge University Hospitals NHS Foundation Trust, Cambridge, United Kingdom; ³¹Novartis Pharma AG, Basel, Switzerland; ³³University of Pennsylvania, Philadelphia, PA; ³⁴Höpital Saint-Louis, Paris, France



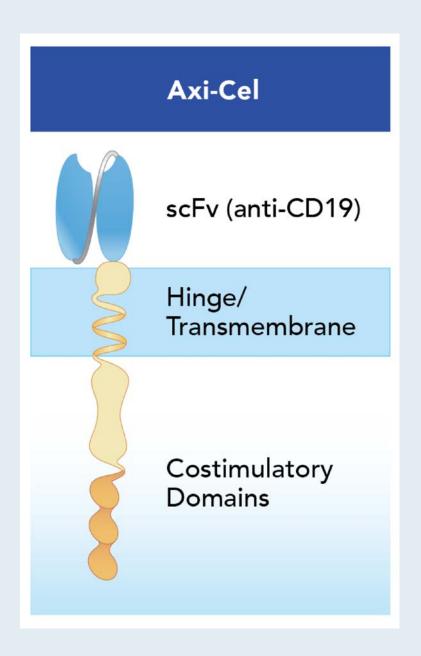
Primary Analysis of ZUMA-5: A Phase 2 Study of Axicabtagene Ciloleucel (Axi-Cel) in Patients With Relapsed/Refractory Indolent Non-Hodgkin Lymphoma

Caron Jacobson, MD¹; Julio C. Chavez, MD²; Alison Sehgal, MD³; Basem William, MD⁴; Javier Munoz, MD, MS, FACP⁵; Gilles Salles, MD, PhD⁶; Pashna Munshi, MD⁷; Carla Casulo, MD®; David Maloney, MD, PhD⁰; Sven de Vos, MD, PhD¹⁰; Ran Reshef, MD¹¹; Lori Leslie, MD¹²; Ibrahim Yakoub-Agha, MD, PhD¹³; Olalekan Oluwole, MD, MPH, MBBS¹⁴; Henry Chi Hang Fung, MD¹⁵; Joseph Rosenblatt, MD¹⁶; John Rossi, MS¹⁷; Lovely Goyal, PhD¹⁷; Vicki Plaks, LLB, PhD¹⁷; Yin Yang, MS¹⁷; Jennifer Lee, BS¹⁷; Wayne Godfrey, MS, MD¹⁷; Remus Vezan, MD, PhD¹⁷; Mauro Avanzi, MD, PhD¹⁷; and Sattva S. Neelapu, MD¹®

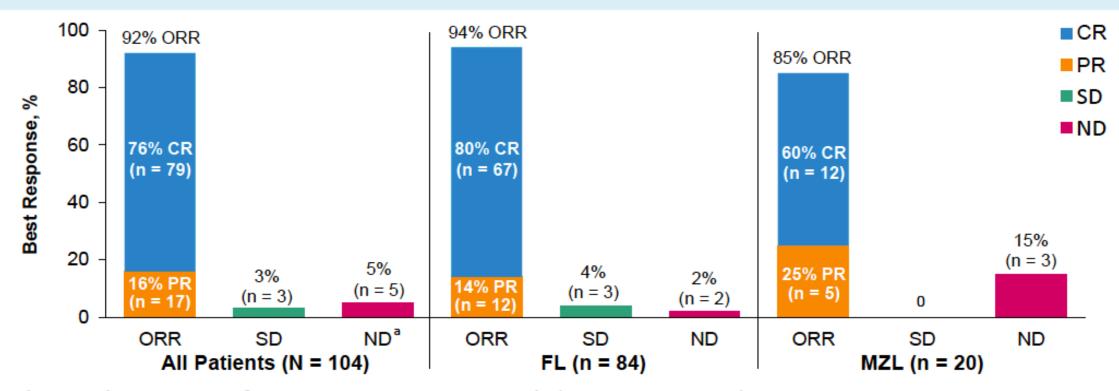
¹Dana-Farber Cancer Institute, Boston, MA, USA; ²University of South Florida H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL, USA; ³UPMC Hillman Cancer Center, Pittsburgh, PA, USA; ⁴The Ohio State University Comprehensive Cancer Center, Columbus, OH, USA; ⁵Banner MD Anderson Cancer Center,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



Background



ORR by IRRC Assessment Was 92% (95% CI, 85 – 97); CR Rate Was 76% (95% CI, 67 – 84)



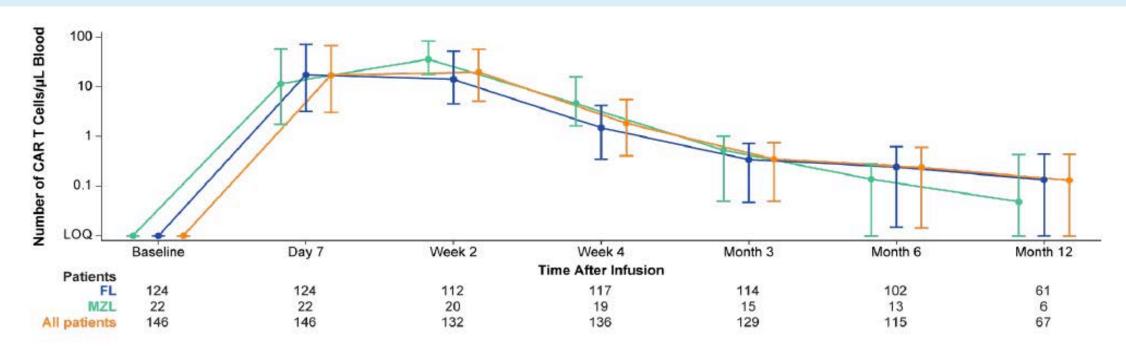
- The median time to first response was 1 month (range, 0.8 3.1)
- Among the 25 patients with FL who initially had a PR, 13 (52%) subsequently converted to a CR after a
 median of 2.2 months (range, 1.9 11.2)

The investigator-assessed ORR (N = 104) was 95%, with a CR rate of 77%. Concordance between investigator-assessed and IRRC-assessed ORR was 91%. For the 5 patients reported as ND, 4 (1 FL; 3 MZL) had no disease at baseline and postbaseline per IRRC but were considered with disease by the investigator; 1 patient with FL died before the first disease assessment.

CR. complete response: FL. follicular lymphoma: IRRC, Independent Radiology Review Committee: MZL, marginal zone lymphoma: ND, undefined/not done: ORR, overall response rate: PR, partial response:

CR, complete response; FL, follicular lymphoma; IRRC, Independent Radiology Review Committee; MZL, marginal zone lymphoma; ND, undefined/not done; ORR, overall response rate; PR, partial response; SD, stable disease.

CAR T Cell Expansion Over Time



- The median time to peak of anti-CD19 CAR T cell levels after axi-cel infusion was 9 days (range, 8 371)^a
 - CAR T cell expansion by peak and AUC trended higher in patients with MZL
 - Most patients with evaluable samples (52/67 [78%]) had low levels of detectable CAR gene-marked cells at 12 months

Graph shows medians and interquartile range.

AUC, area under the curve; axi-cel, axicabtagene ciloleucel; CAR, chimeric antigen receptor; FL, follicular lymphoma; LOQ, limit of quantification; MZL, marginal zone lymphoma.

One patient with FL had a second peak of CAR T cells on Day 371 in the context of florid relapse.

Anti-CD30 CAR-T cell therapy in relapsed/refractory Hodgkin lymphoma

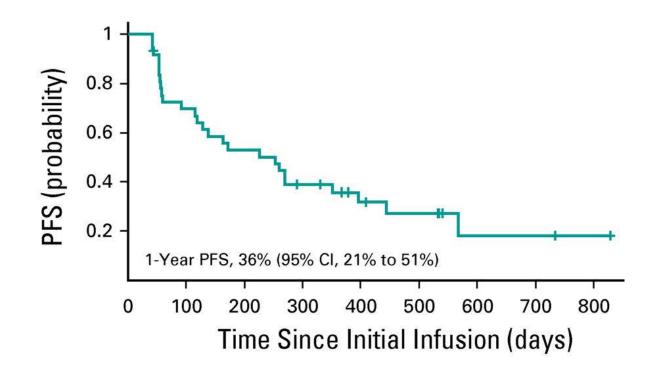
41 patients

Median 7 prior lines of therapy: Checkpoint inhibitors, Brentuximab ASCT/alloSCT.

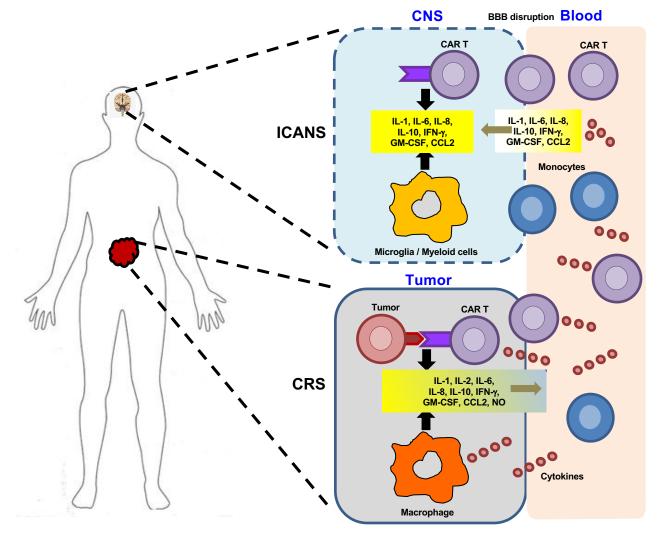
Low grade CRS; no neurologic toxicity; common skin rash

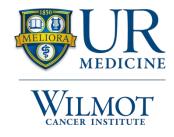
ORR 72%; CR 59%

One year PFS: 36%



Pathophysiology of CAR T-cell-associated neurotoxicity and cytokine release syndrome





Patient identification and appropriate referral for CAR-T cell therapy

- EARLY referral is most important
 - Numerous open trials in novel settings
- Considerations:
 - Avoid lymphotoxic therapy (purine analogs, bendamustine)
 - Avoid immunosuppressive therapy, including steroids
 - (?) avoid tafasitamab and other CD19-targeting agents
- For DLBCL:
 - Refer before starting salvage therapy
 - New products may allow treatment of older individuals
 - "Real world" experiences variable



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



A patient with diffuse large B-cell lymphoma (DLBCL) should be in adequate physicial condition to undergo autologous stem cell transplant in order to be a suitable candidate for CAR T-cell therapy.



Cases from the Community: Investigators Discuss Emerging Research and Actual Patients with Gastroesophageal Cancers (Part 2 of a 3-Part Series)

Thursday, February 4, 2021 5:00 PM - 6:30 PM ET

Faculty

Daniel Catenacci, MD Yelena Y Janjigian, MD Rutika Mehta, MD, MPH Zev Wainberg, MD, MSc

Moderator Neil Love, MD



Current Concepts and Recent Advances in Oncology: A Daylong Clinical Summit Hosted in Partnership with North Carolina Oncology Association (NCOA) and South Carolina Oncology Society (SCOS)

Saturday, February 13, 2021 8:30 AM – 4:30 PM ET

Faculty

Courtney D DiNardo, MD, MSCE
Robert Dreicer, MD, MS
Justin F Gainor, MD
Sara Hurvitz, MD
Ian E Krop, MD, PhD

John M Pagel, MD, PhD
Alexander Perl, MD
Daniel P Petrylak, MD
Philip A Philip, MD, PhD, FRCP
Paul G Richardson, MD

Mitchell R Smith, MD, PhD Eric Van Cutsem, MD, PhD Peter Voorhees, MD Heather Wakelee, MD

Moderator

Neil Love, MD



Thank you for joining us!

CME credit information will be emailed to each participant within 3 business days.

