Meet The Professor Optimizing the Management of Chronic Lymphocytic Leukemia

Tuesday, September 17, 2024 5:00 PM - 6:00 PM ET

Faculty
Matthew S Davids, MD, MMSc



Commercial Support

This activity is supported by educational grants from AstraZeneca Pharmaceuticals LP and Lilly.



Dr Love — Disclosures

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Dr Davids — Disclosures Faculty

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Contracted Research	Ascentage Pharma, MEI Pharma Inc, Novartis
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Dr Coombs — Disclosures Survey Participant

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Dr Kittai — Disclosures Survey Participant

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Consulting Agreement	AbbVie Inc
Contracted Research and Speakers Bureaus	AstraZeneca Pharmaceuticals LP, BeiGene Ltd



Dr Lamanna — Disclosures Survey Participant

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Dr Ujjani — Disclosures Survey Participant

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Contracted Research	AbbVie Inc, Lilly, Pharmacyclics LLC, an AbbVie Company



Dr Woyach — Disclosures Survey Participant

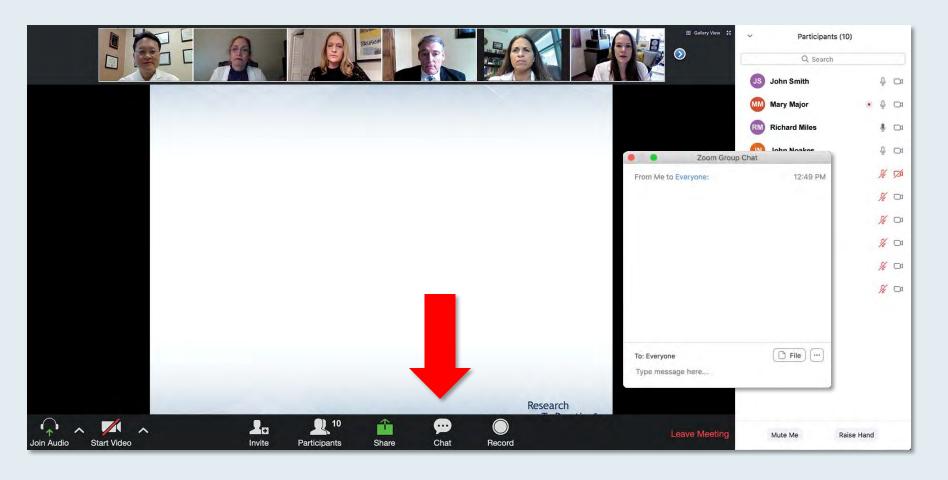
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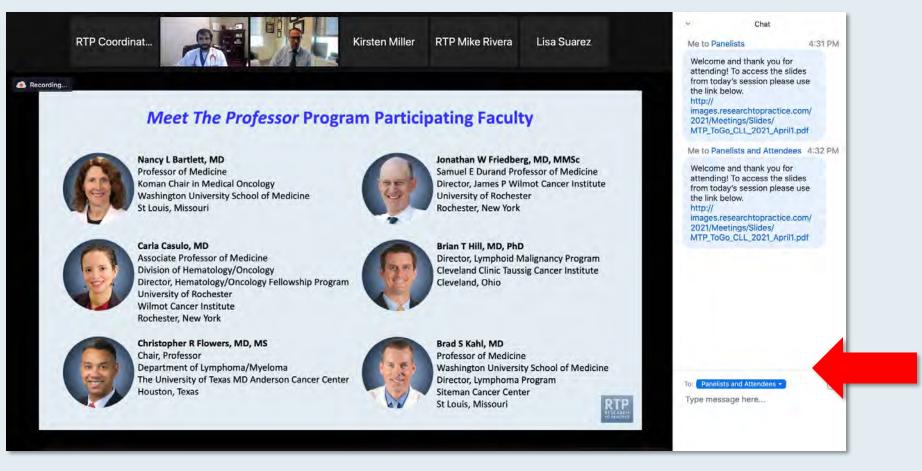


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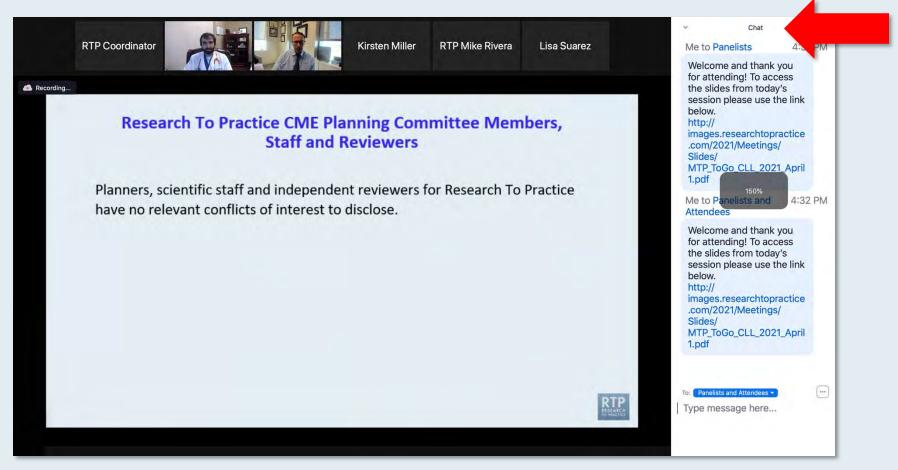


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ONCOLOGY TODAY

WITH DR NEIL LOVE

Key Presentations on Chronic Lymphocytic Leukemia from Recent Major Conferences



DR BITA FAKHRI STANFORD UNIVERSITY









Practical Perspectives: Optimizing Diagnosis and Treatment for Patients with Desmoid Tumors

A CME/MOC-Accredited Live Webinar

Tuesday, September 24, 2024 5:00 PM - 6:00 PM ET

Faculty

Thierry Alcindor, MD, MSc Mrinal Gounder, MD



Practical Perspectives: Optimizing the Role of BTK Inhibitors in the Management of Mantle Cell Lymphoma

A CME/MOC-Accredited Live Webinar

Wednesday, September 25, 2024 5:00 PM – 6:00 PM ET

Faculty
Tycel Phillips, MD
Michael Wang, MD



The Implications of Recent Datasets for the Current and Future Management of Small Cell Lung Cancer — A 2024 World Conference on Lung Cancer Review

A CME/MOC-Accredited Live Webinar

Thursday, September 26, 2024 5:00 PM – 5:45 PM ET

Faculty
Jacob Sands, MD



Improving Outcomes with First-Line Endocrine-Based Therapy for Patients with HR-Positive, HER2-Negative Metastatic Breast Cancer

A CME/MOC-Accredited Live Webinar

Tuesday, October 1, 2024 5:00 PM – 6:00 PM ET

Faculty

Francois-Clement Bidard, MD, PhD Kevin Kalinsky, MD, MS



Join Us In Person or Virtually

Data + Perspectives: Clinical Investigators Explore the Application of Recent Datasets in Current Oncology Care

A Multitumor Hybrid Symposium in Partnership with Florida Cancer Specialists & Research Institute

Saturday, October 26, 2024

HR-Positive Breast Cancer Faculty

Joyce O'Shaughnessy, MD Seth Wander, MD, PhD Prostate Cancer
Faculty
Matthew R Smith, MD, PhD

Sandy Srinivas, MD



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Saturday, October 26, 2024

Lung Cancer Faculty

Joshua K Sabari, MD

Additional faculty to be announced.

Non-Hodgkin Lymphoma and Chronic
Lymphocytic Leukemia
Faculty
Brad S Kahl, MD
Sonali M Smith, MD



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Faculty
Shaji K Kumar, MD
Noopur Raje, MD



What Clinicians Want to Know: Addressing Current Questions and Controversies in the Management of Hematologic Cancers

A CME Friday Satellite Symposium and Webcast Series Preceding the 66th ASH Annual Meeting and Exposition

Friday, December 6, 2024

Chronic Myeloid Leukemia 7:30 AM – 9:00 AM PT Myelofibrosis 11:30 AM – 1:30 PM PT

Chronic Lymphocytic Leukemia 7:30 AM – 9:30 AM PT Acute Myeloid Leukemia 3:15 PM - 5:15 PM PT

CAR T-Cell Therapy 11:30 AM – 1:30 PM PT Multiple Myeloma 3:15 PM - 5:15 PM PT



Rounds with the Investigators: Compelling Teaching Cases Focused on the Management of Breast Cancer

A 3-Part CME Hybrid Satellite Symposium Series in Partnership with the 2024 San Antonio Breast Cancer Symposium®

HER2-Low and HER2-Ultralow Breast Cancer

Tuesday, December 10, 2024 7:15 PM – 8:45 PM CT Endocrine-Based Therapy Wednesday, December 11, 2024 7:15 PM – 9:15 PM CT

Metastatic Breast Cancer Thursday, December 12, 2024 7:15 PM – 9:15 PM CT



Save The Date

Fourth Annual National General Medical Oncology Summit

A Multitumor CME/MOC-, ACPE- and NCPD-Accredited Educational Conference Developed in Partnership with Florida Cancer Specialists & Research Institute

Friday to Sunday, February 28 to March 2, 2025

Fontainebleau Hotel, Miami Beach, Florida

Moderated by Neil Love, MD

Thank you for joining us!

Information on how to obtain CME and ABIM MOC credit will be provided at the conclusion of the activity in the Zoom chat room. Attendees will also receive an email in 1 to 3 business days with these instructions.



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Dana-Farber Cancer Institute
Boston, Massachusetts



Meet The ProfessorFaculty



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Boston, Massachusetts



MODERATOR
Neil Love, MD
Research To Practice
Miami, Florida



Meet The Professor Contributing Faculty



Catherine C Coombs, MD
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Division of Hematology/Oncology
Department of Medicine
UCI Health
Orange County, California



Chaitra Ujjani, MD
Clinical Director of Lymphoma
Fred Hutchinson Cancer Center
Clinical Professor
University of Washington
Seattle, Washington



Adam Kittai, MD
Associate Professor
Division of Hematology and Medical Oncology
Assistant Director of Lymphoma Clinical Research
CLL Clinical Research Leader
Icahn School of Medicine at Mount Sinai Hospital
New York, New York



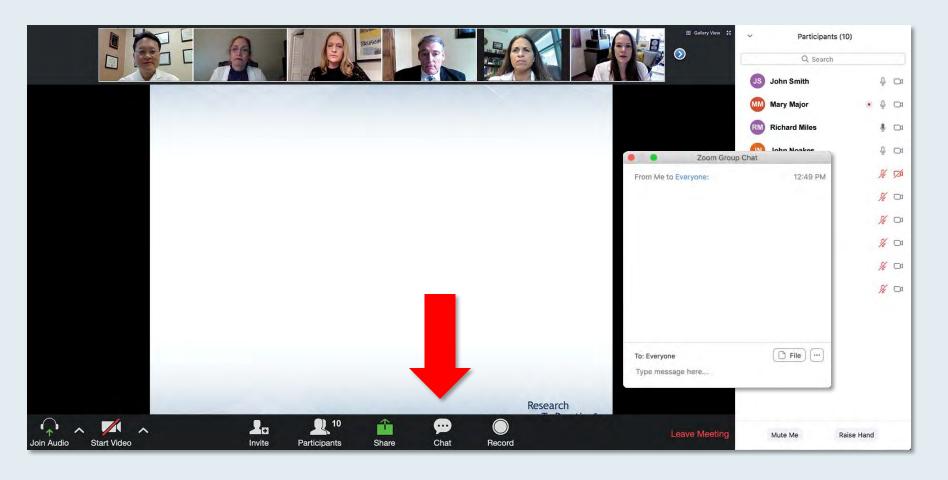
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Nicole Lamanna, MD
Judy Horrigan Professor of Medicine
Director of the Chronic Lymphocytic Leukemia Program
Leukemia Service, Hematologic Malignancies Section
Herbert Irving Comprehensive Cancer Center
New York-Presbyterian/Columbia University
Medical Center
New York, New York



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Harvard Medical School
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Dana-Farber Cancer Institute
Boston, Massachusetts



Dr Davids — Disclosures Faculty

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Stock Options/Stock — Public Companies	bluebird bio, Geron Corporation, Pfizer Inc			



Dr Kittai — Disclosures Survey Participant

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Dr Lamanna — Disclosures Survey Participant

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Dr Ujjani — Disclosures Survey Participant

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Spencer H Bachow, MD Lynn Cancer Institute Boca Raton, Florida



Warren S Brenner, MD Lynn Cancer Institute Boca Raton, Florida



Bhavana (Tina) Bhatnagar, DOWVU Cancer Institute
Wheeling, West Virginia



Erik Rupard, MDIntermountain Health
St George, Utah



Meet The Professor with Dr Davids

Introduction: Is CLL the New CML? Cases We Didn't Hear About Last Week

Module 1: Case Presentations

Module 2: Transformed CLL; CAR T-Cell Therapy

Module 3: Journal Club with Dr Davids

Module 4: Appendix



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Introduction: Is CLL the New CML? Cases We Didn't Hear About Last Week

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Module 4: Appendix





Hagop M Kantarjian, MD
MD Anderson Cancer Center
Houston, Texas



Practical Perspectives: Current Management of Chronic Myeloid Leukemia

Friday, August 30, 2024 12:00 PM – 2:15 PM ET

Faculty

Jorge Cortes, MD Michael J Mauro, MD Neil P Shah, MD, PhD **Case Presenters**

Bhavana (Tina) Bhatnagar, DO Amanda Blackmon, DO, MS



Questions and Comments: Integrating pirtobrutinib and CAR T-cell therapy into the CLL treatment algorithm



Dr Tina Bhatnagar (Wheeling, West Virginia)



Which <u>third-line</u> therapy would you generally prefer for a patient with double-refractory CLL?

Dr Coombs	Pirtobrutinib
Dr Davids	Pirtobrutinib
Dr Kittai	Pirtobrutinib
Dr Lamanna	Pirtobrutinib
Dr Ujjani	Lisocabtagene maraleucel
Dr Woyach	Pirtobrutinib



Based on current clinical trial data and your personal experience, how would you compare the global <u>efficacy</u> and <u>tolerability/toxicity</u> of pirtobrutinib to that of ibrutinib, acalabrutinib and zanubrutinib for patients with relapsed/refractory (R/R) CLL?

	Efficacy	Tolerability/toxicity	
Dr Coombs	There are not enough available data at this time	Pirtobrutinib has the least toxicity	
Dr Davids	About the same	Pirtobrutinib has the least toxicity	
Dr Kittai	There are not enough available data at this time	There are not enough available data at this time	
Dr Lamanna	There are not enough available data at this time	Pirtobrutinib has the least toxicity	
Dr Ujjani	There are not enough available data at this time	Pirtobrutinib has the least toxicity	
Dr Woyach	There are not enough available data at this time	Pirtobrutinib has the least toxicity	

To approximately how many patients with CLL have you adminstered pirtobrutinib on or off protocol? Please describe the last patient with CLL to whom you administered pirtobrutinib.

	No. of	Most recent patient			
	patients	Age	Response	Tolerance	Prior BTKi
Dr Coombs	15	78	PR	Well tolerated	Ibrutinib
Dr Davids	15	68	PR for 15 mo before PD	Very well tolerated	Ibrutinib
Dr Kittai	5	77	Currently in PR	Well tolerated	Ibrutinib, acalabrutinib
Dr Lamanna	>30	70s	PR	Well tolerated	None
Dr Ujjani	5	80	PR	Well tolerated	Zanubrutinib
Dr Woyach	60	68	PR	Very well tolerated	Ibrutinib

FDA Grants Accelerated Approval to Pirtobrutinib for CLL or Small Lymphocytic Lymphoma (SLL)

Press Release: December 1, 2023

"... the Food and Drug Administration granted accelerated approval to pirtobrutinib for adults with chronic lymphocytic leukemia or small lymphocytic lymphoma (CLL/SLL) who have received at least two prior lines of therapy, including a BTK inhibitor and a BCL-2 inhibitor.

Efficacy was evaluated in BRUIN (NCT03740529], an open-label, international, single-arm, multicohort trial that included 108 patients with CLL or SLL previously treated with at least two prior lines of therapy, including a BTK inhibitor and a BCL-2 inhibitor.

Pirtobrutinib was administered orally at 200 mg once daily and was continued until disease progression or unacceptable toxicity.

The main efficacy outcome measures were overall response rate (ORR) and duration of response (DOR), as assessed by an independent review committee using 2018 iwCLL criteria."



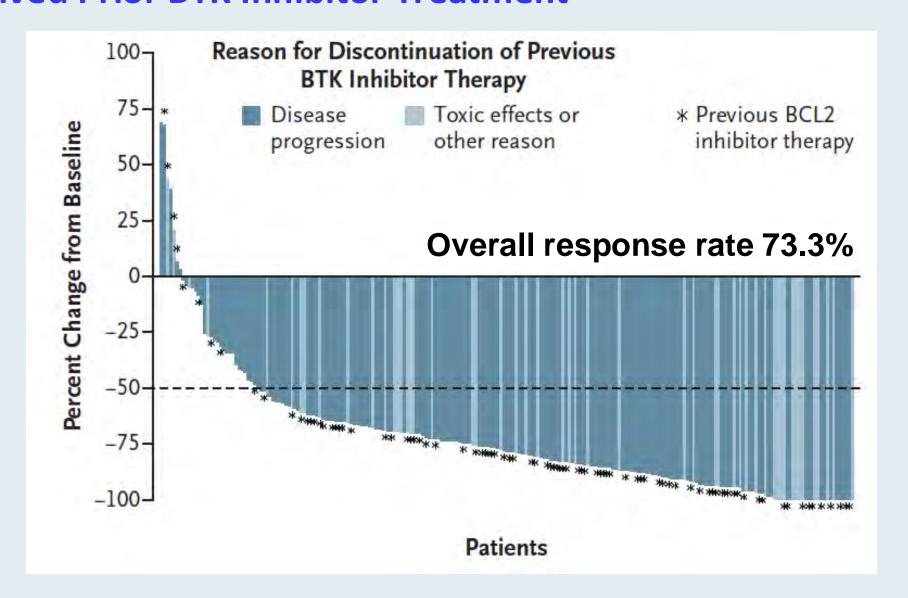
ORIGINAL ARTICLE

Pirtobrutinib after a Covalent BTK Inhibitor in Chronic Lymphocytic Leukemia

A.R. Mato, J.A. Woyach, J.R. Brown, P. Ghia, K. Patel, T.A. Eyre, T. Munir, E. Lech-Maranda, N. Lamanna, C.S. Tam, N.N. Shah, C.C. Coombs, C.S. Ujjani, B. Fakhri, C.Y. Cheah, M.R. Patel, A.J. Alencar, J.B. Cohen, J.N. Gerson, I.W. Flinn, S. Ma, D. Jagadeesh, J.M. Rhodes, F. Hernandez-Ilizaliturri, P.L. Zinzani, J.F. Seymour, M. Balbas, B. Nair, P. Abada, C. Wang, A.S. Ruppert, D. Wang, D.E. Tsai, W.G. Wierda, and W. Jurczak



BRUIN: Pirtobrutinib Efficacy in Patients with CLL or SLL Who Received Prior BTK Inhibitor Treatment



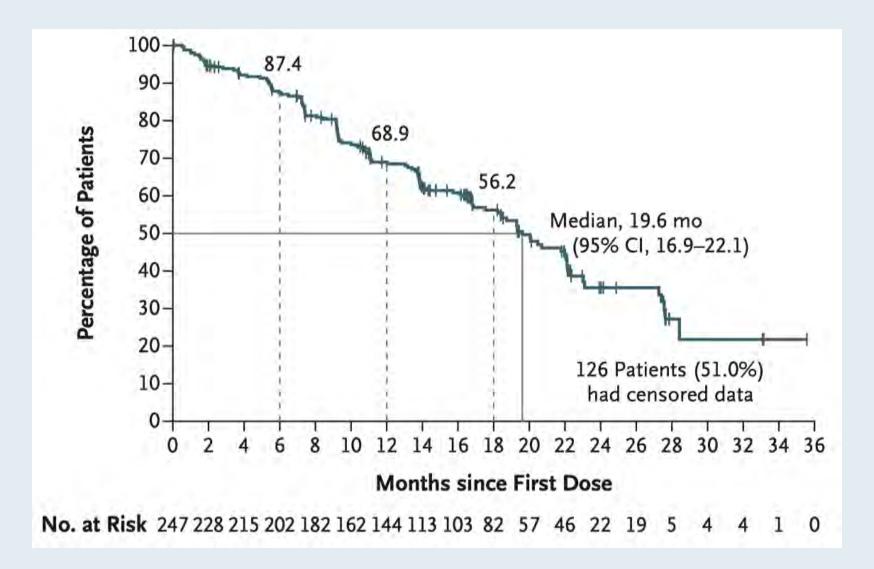


BRUIN: Responses

Variable	Previous BTK Inhibitor (N=247)	Previous BTK Inhibitor + BCL2 Inhibitor (N=100)
Overall response — % (95% CI)		
Including complete response, nodular partial response, or partial response	73.3 (67.3–78.7)	70.0 (60.0–78.8)
Including complete response, nodular partial response, partial response, or partial response with lymphocytosis	82.2 (76.8–86.7)	79.0 (69.7–86.5)
Best response — no. (%)		
Complete response	4 (1.6)	0
Nodular partial response	1 (0.4)	0
Partial response	176 (71.3)	70 (70.0)
Partial response with lymphocytosis	22 (8.9)	9 (9.0)
Stable disease	26 (10.5)	11 (11.0)

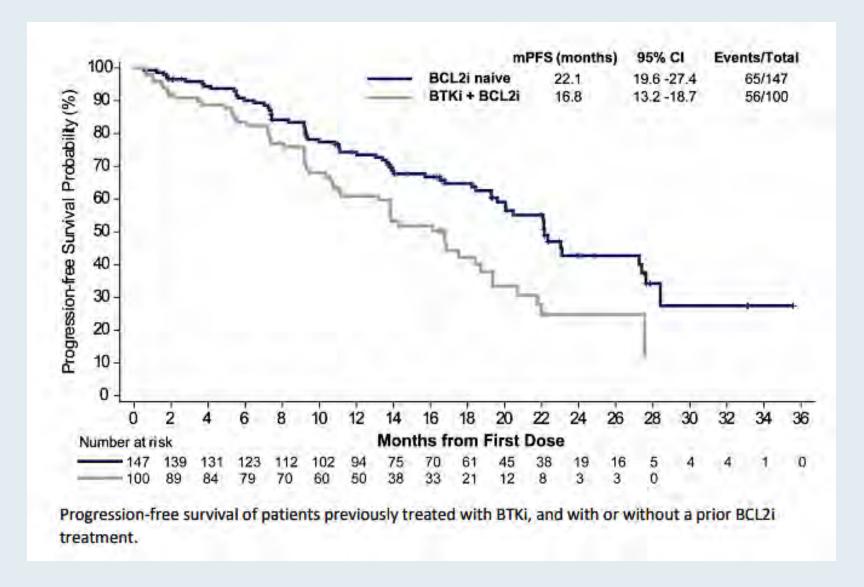


BRUIN: Progression-Free Survival in Overall Population





BRUIN: Progression-Free Survival in Patients Previously Treated with a BTK Inhibitor with or without a Prior Bcl-2 Inhibitor

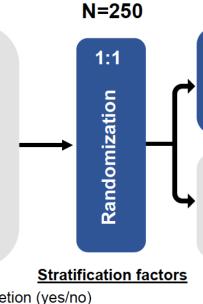




BRUIN CLL-321: An Ongoing Phase III Trial of Pirtobrutinib Monotherapy for Relapsed/Refractory CLL

Key Inclusion Criteria

- Confirmed CLL/SLL per iwCLL 2018²
- Prior therapy with covalent BTKi
- Known 17p status
 - If 17p status is unknown, local or central FISH test results during screening can be used
- ≥18 years of age and ECOG 0-2



Arm A

Pirtobrutinib 200 mg oral, once daily

Arm B

Investigator's Choice of Idelalisib / Rituximab, or Bendamustine / Rituximab per labeled doses

Patients in Arm B who have PD, as assessed by IRC, are allowed to crossover to Arm A

- 17p deletion (yes/no)
- Prior venetoclax treatment (yes/no)

Primary endpoint: Progression-free survival per iwCLL 2018 by IRC

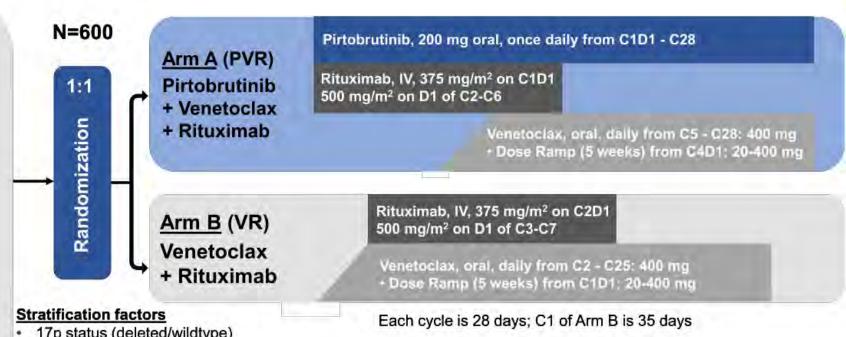
iwCLL = International Workshop on Chronic Lymphocytic Leukemia; IRC = independent review committee; FISH = fluorescence in situ hybridization; ECOG = Eastern Cooperative Oncology Group; PD = disease progression



BRUIN CLL-322: An Ongoing Phase III Trial of Pirtobrutinib and Venetoclax/Rituximab for Relapsed/Refractory CLL

Key Inclusion Criteria

- Confirmed CLL/SLL per iwCLL 2018³
- Previously treated CLL/SLL (including a covalent BTKi or covalent BTKi naïve [limited to 20% of total enrollment])
- Known 17p status
 - If 17p status is unknown, local or central FISH test results during screening can be used
- No prior venetoclax
- ≥18 years of age and ECOG 0-2



- 17p status (deleted/wildtype)
- Prior experience of BTKi (discontinuation due to PD or other vs no prior BTKi)

Primary endpoint: Progression-free survival per iwCLL 2018 by IRC



Meet The Professor with Dr Davids

Module 1: Case Presentations

- Dr Brenner: A 70-year-old man with IGHV-unmutated CLL (trisomy 12, del[17p]) receives ibrutinib for several years and is switched to acalabrutinib to lower the risk of cardiotoxicity
- Dr Bhatnagar: A 76-year-old man with relapsed atypical del(17p) CLL who previously received ibrutinib receives venetoclax/obinutuzumab
- Dr Rupard: An 83-year-old woman with IGHV-mutated CLL begins treatment with zanubrutinib and 6 months later develops altered mental status due to cryptococcal meningitis
- Dr Bachow: An 82-year-old woman with relapsed CLL (del[17p]/TP53 mutation) develops Stevens-Johnson syndrome while receiving ibrutinib
- Dr Brenner: An 85-year-old woman with rising WBC counts and asymptomatic recurrence of CLL (trisomy 12) receives rituximab with subsequent addition of venetoclax
- Dr Rupard: A 94-year-old man with del(13q) CLL under observation for 12 years begins treatment with zanubrutinib and develops significant bruising/ecchymosis
- Dr Bhatnagar: A 79-year-old woman with relapsed del(13q) CLL receives acalabrutinib and develops hyperleukocytosis



Case Presentation: A 70-year-old man with IGHV-unmutated CLL (trisomy 12, del[17p]) receives ibrutinib for several years and is switched to acalabrutinib to lower the risk of cardiotoxicity



Dr Warren Brenner (Boca Raton, Florida)



<u>Regulatory and reimbursement issues aside</u>, what would be your preferred initial regimen for a 70-year-old patient with <u>IGHV-unmutated</u> CLL who requires treatment and has the mutation status described below?

Without del(17p) or TP53 mutation		With del(17p) or TP53 mutation	
Dr Coombs	Venetoclax + obinutuzumab	Zanubrutinib	
Dr Davids	Venetoclax + obinutuzumab	Zanubrutinib	
Dr Kittai	Acalabrutinib	Acalabrutinib	
Dr Lamanna	Acalabrutinib or zanubrutinib or venetoclax/obinutuzumab	Acalabrutinib or zanubrutinib	
Dr Ujjani	Venetoclax + obinutuzumab	Zanubrutinib	
Dr Woyach	Venetoclax + obinutuzumab	Acalabrutinib or zanubrutinib	

<u>Regulatory and reimbursement issues aside</u>, what would be your preferred initial regimen for a 70-year-old patient with <u>IGHV-mutated</u> CLL who requires treatment and has the mutation status described below?

	Without del(17p) or TP53 mutation	With del(17p) or TP53 mutation
Dr Coombs	Venetoclax + obinutuzumab	Zanubrutinib
Dr Davids	Venetoclax + obinutuzumab	Venetoclax + obinutuzumab
Dr Kittai	Venetoclax + obinutuzumab	Acalabrutinib
Dr Lamanna	Acalabrutinib or zanubrutinib or venetoclax/obinutuzumab	Acalabrutinib or zanubrutinib
Dr Ujjani	Venetoclax + obinutuzumab	Zanubrutinib
Dr Woyach	Venetoclax + obinutuzumab	Acalabrutinib or zanubrutinib

Approximately what proportion of your patients would prefer to receive continuous therapy with a BTK inhibitor?

	Younger patients (eg, age 60)	Older patients (eg, age 80)
Dr Coombs	30%	80%
Dr Davids	10%	80%
Dr Kittai	20%	80%
Dr Lamanna	20%	60%
Dr Ujjani	10%	25%
Dr Woyach	20%	60%

Case Presentation: A 76-year-old man with relapsed atypical del(17p) CLL who previously received ibrutinib receives venetoclax/obinutuzumab



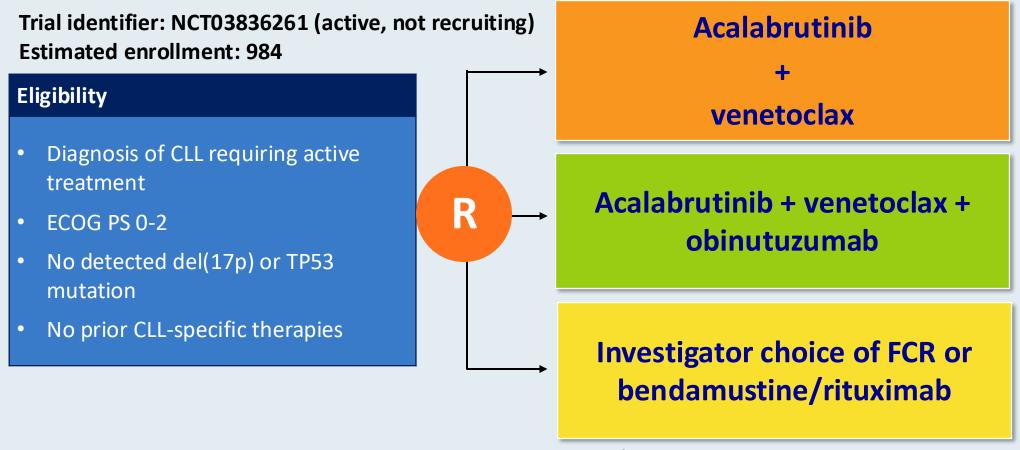
Dr Tina Bhatnagar (Wheeling, West Virginia)



Regulatory and reimbursement issues aside, have you administered or would you administer the regimens below as first-line treatment for a patient with CLL?

	BTKi + venetoclax	BTKi + venetoclax + anti-CD20 antibody
Dr Coombs	I have	I have not but would for the right patient
Dr Davids	I have	I have not and would not
Dr Kittai	I have not but would for the right patient	I have not and would not
Dr Lamanna	I have	I have not and would not
Dr Ujjani	I have	I have not and would not
Dr Woyach	I have not but would for the right patient	I have not and would not

AMPLIFY: An Ongoing Phase III Trial of Fixed-Duration Acalabrutinib and Venetoclax with or without Obinutuzumab for Previously Untreated CLL without Del(17p) or TP53 Mutation



FCR = fludarabine, cyclophosphamide and rituximab

Primary endpoint: Progression-free survival by independent central review



Positive High-Level Results from the Phase III AMPLIFY Trial Announced Press Release: July 29, 2024

"Positive high-level results from an interim analysis of the AMPLIFY Phase III trial showed a fixed duration of acalabrutinib in combination with venetoclax, with or without obinutuzumab, demonstrated a statistically significant and clinically meaningful improvement in progression-free survival (PFS) compared to standard-of-care chemoimmunotherapy in previously untreated adult patients with chronic lymphocytic leukemia (CLL).

For the secondary endpoint of overall survival (OS), a trend was observed in favour of acalabrutinib in combination with venetoclax, with or without obinutuzumab, versus standard-of-care chemoimmunotherapy. The OS data were not mature at the time of this analysis and the trial will continue to assess OS as a key secondary endpoint.

The safety and tolerability were consistent with the known safety profile of each medicine. No new safety signals were identified, with low rates of cardiac toxicity observed. The data will be presented at a forthcoming medical meeting and shared with global regulatory authorities."

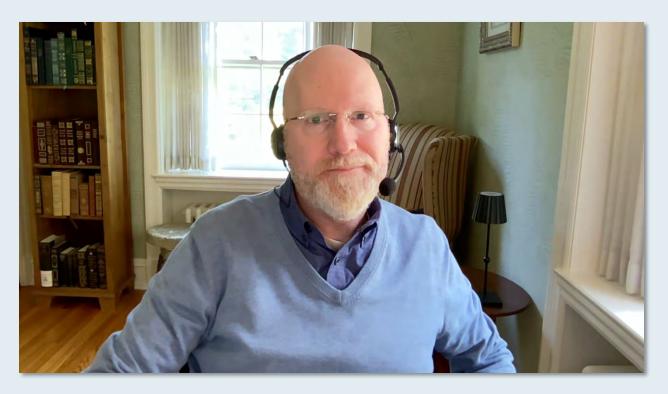


At what point in the treatment course are you referring patients with multiregimenrelapsed CLL for consultation regarding chimeric antigen receptor (CAR) T-cell therapy?

Dr Coombs	At third relapse
Dr Davids	After third relapse
Dr Kittai	At or after third relapse
Dr Lamanna	At or after third relapse (depending on patient comorbidities and discussions with patient)
Dr Ujjani	At third relapse
Dr Woyach	At second relapse



Case Presentation: An 83-year-old woman with IGHV-mutated CLL begins treatment with zanubrutinib and 6 months later develops altered mental status due to cryptococcal meningitis



Dr Erik Rupard (St George, Utah)



When you are going to administer a BTK inhibitor as initial treatment for a patient with CLL, which would you generally prefer?

Dr Coombs	Zanubrutinib
Dr Davids	Acalabrutinib
Dr Kittai	Acalabrutinib
Dr Lamanna	Acalabrutinib or zanubrutinib
Dr Ujjani	Zanubrutinib
Dr Woyach	Acalabrutinib or zanubrutinib



Based on current clinical trial data and/or your personal experience, how would you compare the global <u>efficacy</u> and <u>tolerability/toxicity</u> of ibrutinib, acalabrutinib and zanubrutinib for patients with newly diagnosed CLL?

	Efficacy	Tolerability/toxicity	
Dr Coombs	About the same	Acalabrutinib has the least toxicity	
Dr Davids	Zanubrutinib is the most efficacious	Acalabrutinib has the least toxicity	
Dr Kittai	About the same	Acalabrutinib has the least toxicity	
Dr Lamanna	About the same	Toxicity profiles differ*	
Dr Ujjani	There are not enough available data at this time	Zanubrutinib has the least toxicity	
Dr Woyach	About the same	Acalabrutinib has the least toxicity	

^{*}Bruising is similar among all 3. Less cardiac toxicity with acalabrutinib and zanubrutinib. More headache with acalabrutinib, more myelosuppression with zanubrutinib

Case Presentation: An 82-year-old woman with relapsed CLL (del[17p]/TP53 mutation) develops Stevens-Johnson syndrome while receiving ibrutinib



Dr Spencer Bachow (Boca Raton, Florida)



Case Presentation: An 85-year-old woman with rising white blood cell counts and asymptomatic recurrence of CLL (trisomy 12) receives rituximab with subsequent addition of venetoclax



Dr Warren Brenner (Boca Raton, Florida)



Case Presentation: A 94-year-old man with del(13q) CLL under observation for 12 years begins treatment with zanubrutinib and develops significant bruising/ecchymosis



Dr Erik Rupard (St George, Utah)



Case Presentation: A 79-year-old woman with relapsed del(13q) CLL receives acalabrutinib and develops hyperleukocytosis



Dr Tina Bhatnagar (Wheeling, West Virginia)



	2023 5/26/23 06:55	5/10/23 13:27	5/8/23 07:21	5/4/23 07:34	5/1/23 07:32	4/27/23 07:47	4/24/23 09:04
CBC Ø ♠						-0.0	
WBC	344.8 🌣	15.1 ^	26.5 🌣	23.7 🔺	32.1 🌣	24.9 ^	29.0 🌣
HGB	6.6 ¥	8.3 🕶	8.4 🕶	9.1 ❤	8.8 🕶	8.6 ▼	8.7 🕶
нст	21.4 🕶	25.6 ₩	24.6 🕶	26.7 ₩	26.3 ❤	25.2 ₩	25.9 🕶
PLATELET COUNT	22 ¥	27 ≽	32 ₩	34 ₹	31 挙	31 ≽	31 ❤
RBC	1.99 🕶	2.41 🕶	2.36 🕶	2.56 🕶	2.52 🕶	2.44 🕶	2.48 🕶
		2.41 🕶					
MCV	107.5 🔺	106.2 🔺	104.4 ^	104.2 ^	104.4 🔺	103.2 ^	104.2 🔺
MCHC	31.0 ₩	32.6	34.1	34.0	33.6	34.0	33.7
MCH	33.3 🔺	34.6 🔺	35.5 🔺	35.4 ^	35.1 ▲	35.1 ^	35.1 🔺
RDW	19.0 🔺	19.5 🔺	18.8 🔺	19.8 ^	19.0 🔺	18.9 🔺	18.8 🔺
RETICULOCYTE COUNT %		2.924 🔺					
MPV		8.8					



Meet The Professor with Dr Davids

Introduction: Is CLL the New CML? Cases We Didn't Hear About Last Week

Module 1: Case Presentations

Module 2: Transformed CLL; CAR T-Cell Therapy

Module 3: Journal Club with Dr Davids

Module 4: Appendix



Questions and Comments: Care of patients with Richter's transformation



Dr Erik Rupard (St George, Utah)



Regulatory and reimbursement issues aside, what treatment would you recommend for a 75-year-old patient with IGHV-unmutated CLL and a TP53 mutation who developed Richter's transformation?

Dr Coombs	R-CHOP + venetoclax
Dr Davids	R-CHOP + venetoclax
Dr Kittai	R-CHOP + venetoclax
Dr Lamanna	Pirtobrutinib
Dr Ujjani	R-CHOP
Dr Woyach	R-CHOP + venetoclax



CLL IN FOCUS

Current Developments in the Management of Chronic Lymphocytic Leukemia

Management of Richter Transformation



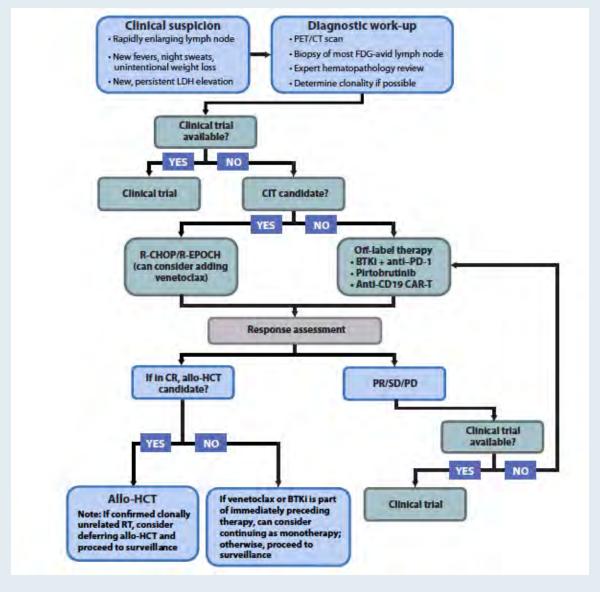
Matthew S. Davids, MD, MMSc Clinical Research Director, Division of Lymphoma Dana-Farber Cancer Institute Associate Professor of Medicine Harvard Medical School Boston, Massachusetts

Clin Adv Hematol Oncol 2023;21(8):449-51.





Summary of the Practical Management of Richter's Transformation in 2023





HEMATOLOGIC MALIGNANCIES

Practical Management of Richter Transformation in 2023 and Beyond

Christine E. Ryan, MD1 and Matthew S. Davids, MD, MMSc1

Am Soc Clin Oncol Educ Book 2023;43:e390804.



Original Reports | Hematologic Malignancy

Anti-CD19 Chimeric Antigen Receptor T-Cell Therapy for Richter Transformation: An International, Multicenter, Retrospective Study

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Adam S. Kittai, MD¹ (a); David Bond, MD¹ (b); Ying Huang, MA, MS¹; Seema A. Bhat, MD¹; Emily Blyth, B.Med(Hons), PhD, FRACP, FRCPA² (b); John C. Byrd, MD³ (c); Julio C. Chavez, MD, MS⁴ (c); Matthew S. Davids, MD, MMSc⁵ (c); Jamie P. Dela Cruz, BS⁵; Mark R. Dowling, PhD, MBBS⁶⁻⁷; Caitlyn Duffy, BS⁵ (c); Carrie Ho, MD³ (c); Caron Jacobson, MD, MMSc⁵ (c); Samantha Jaglowski, MD, MPH¹; Nitin Jain, MD⁰ (c); Kevin H. Lin, MD, PhD⁵ (c); Cecelia Miller, PhD¹⁰; Christine McCarthy, BS¹¹; Zulfa Omer, MD³ (c); Erin Parry, MD, PhD⁵ (c); Manoj Rai, MD¹² (c); Kerry A. Rogers, MD¹ (c); Aditi Saha, MBBS⁴ (c); Levanto Schachter, DO, MS¹² (c); Hamish Scott, MD⁶ (c); Jayastu Senapati, MD, DM, MBBS³ (c); Mazyar Shadman, MD, MPH⁻ (c); Tanya Siddiqi, MD¹³ (c); Deborah M. Stephens, DO¹⁴ (c); Vinay Vanguru, MBBS, FRACP, FRCPA¹⁵; William Wierda, MD, PhD³ (c); Jennifer A. Woyach, MD¹ (c); and Philip A. Thompson, MBBS⁶⁻⁷
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J Clin Oncol 2024;42(17):2071-9.





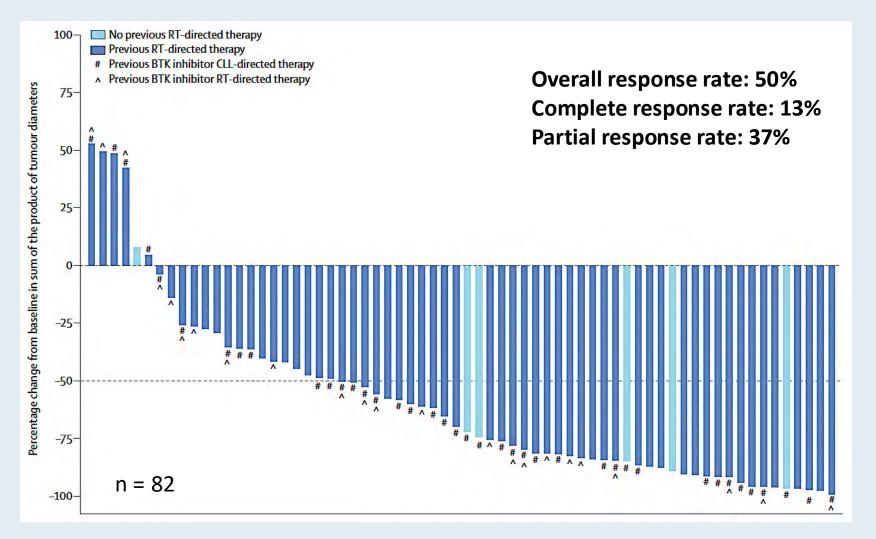
Pirtobrutinib, a highly selective, non-covalent (reversible) BTK inhibitor in patients with B-cell malignancies: analysis of the Richter transformation subgroup from the multicentre, open-label, phase 1/2 BRUIN study

William G Wierda, Nirav N Shah, Chan Y Cheah, David Lewis, Marc S Hoffmann, Catherine C Coombs, Nicole Lamanna, Shuo Ma, Deepa Jagadeesh, Talha Munir, Yucai Wang, Toby A Eyre, Joanna M Rhodes, Matthew McKinney, Ewa Lech-Maranda, Constantine S Tam, Wojciech Jurczak, Koji Izutsu, Alvaro J Alencar, Manish R Patel, John F Seymour, Jennifer A Woyach, Philip A Thompson, Paolo B Abada, Caleb Ho, Samuel C McNeely, Narasimha Marella, Bastien Nguyen, Chunxiao Wang, Amy S Ruppert, Binoj Nair, Hui Liu, Donald E Tsai, Lindsey E Roeker, Paolo Ghia

Lancet Haematol 2024 September;11(9):e682-92.



BRUIN Subgroup Analysis: Activity of Pirtobrutinib in Patients with Richter's Transformation (RT)



The most common grade 3 or worse adverse event was neutropenia (n = 19).



FDA Grants Accelerated Approval to Lisocabtagene Maraleucel for Relapsed/Refractory (R/R) CLL or SLL

Press Release: March 14, 2024

"... the US Food and Drug Administration (FDA) has granted accelerated approval of lisocabtagene maraleucel (liso-cel), a CD19-directed chimeric antigen receptor (CAR) T cell therapy, for the treatment of adult patients with relapsed or refractory chronic lymphocytic leukemia (CLL) or small lymphocytic lymphoma (SLL) who have received at least two prior lines of therapy, including a Bruton tyrosine kinase (BTK) inhibitor and a B-cell lymphoma 2 (BCL-2) inhibitor. This indication is approved under accelerated approval based on response rate and duration of response. Continued approval for this indication may be contingent upon verification and description of clinical benefit in confirmatory trial(s). In R/R CLL or SLL, liso-cel is delivered through a treatment process which culminates in a one-time infusion with a single dose containing 90 to 110 x 10⁶ CAR-positive viable T cells."

Accelerated approval was based on results from the Phase I/II open-label, single-arm TRANSCEND CLL 004 study for patients with R/R CLL or SLL.



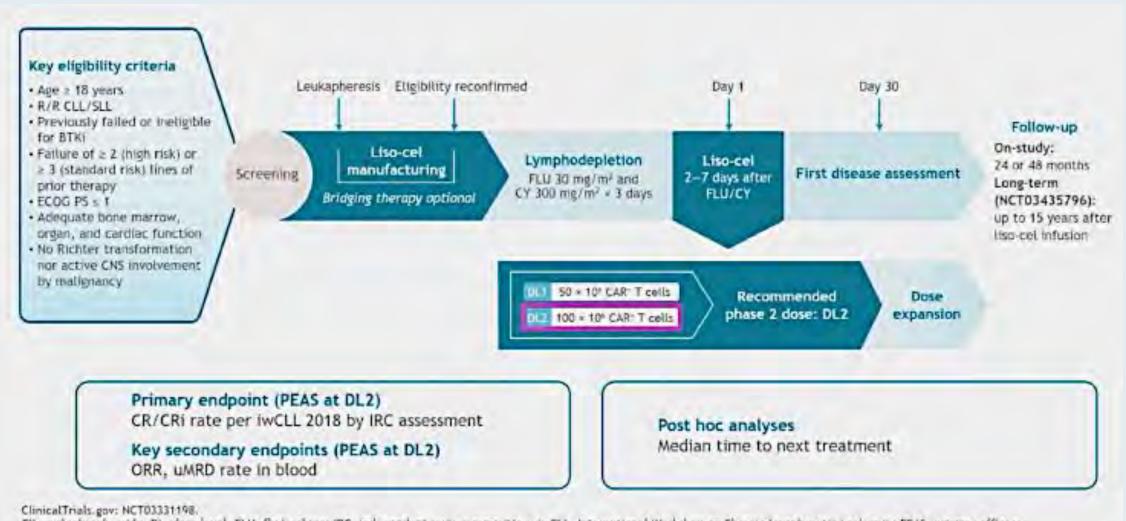
Lisocabtagene Maraleucel in Relapsed or Refractory Chronic Lymphocytic Leukemia/Small Lymphocytic Lymphoma: 24-Month Median Follow-up of TRANSCEND CLL 004

Tanya Siddiqi, 1 David G. Maloney, 2 Saad S. Kenderian, 3 Danielle M. Brander, 4 Kathleen Dorritie, 5
Jacob Soumerai, 6 Peter A. Riedell, 7 Nirav N. Shah, 8 Rajneesh Nath, 9 Bita Fakhri, 10 Deborah M. Stephens, 11
Shuo Ma, 12 Tatyana Feldman, 12 Scott R. Solomon, 14 Stephen J. Schuster, 15 Serena K. Perna, 16
Sherilyn A. Tuazon, 17 San-San Ou, 17 Neha Rane, 16 William G. Wierda 18

City of Hope National Medical Center, Duarte, CA, USA; 'Fred Hutchinson Cancer Research Center, Seattle, WA, USA; 'Mayo Clinic, Rochester, MN, USA; 'Dulie University Health System, Durham, NC, USA; 'USA; 'Duvid and Etta Jonas Center for Cellular Therapy, University of Chicago, Chicago, IL, USA; Medical College of Wisconsin, Milwaukee, WI, USA; Banner MD Anderson Cancer Center, Gilbert, AZ, USA; "University of California San Francisco, San Francisco, CA, USA; 'Huntsman Cancer Institute, University of Utah, Salt Lake City, UT, USA; Robert H. Lurie Comprehensive Cancer Center of Northwestern University, Chicago, IL, USA; John Theurer Cancer Center at Hackensack Meridian Health, HMH School of Medicine, Hackensack, NJ, USA; Northside Hospital Cancer Institute, Atlanta, GA, USA; Abramson Cancer Center, University of Pennsylvama, Philadelphia, PA, USA; Bristol Myers Squibb, Princeton, NJ, USA; Bristol Myers Squibb, Seattle, WA, USA; The University of Texas MD Anderson Cancer Center, Houston, TX, USA



TRANSCEND CLL 004: An Open-Label Phase I/II Study Design



CY, cyclophosphamide; DL, dose level; FLU, fludarabine; IRC, independent review committee; iwCLL, International Workshop on Chronic Lymphocytic Leukemia; PEAS, primary efficacy analysis set (prespecified subset of patients with BTKi progression and venetoclax failure); uMRD, undetectable minimal residual disease.



TRANSCEND CLL 004 Efficacy Outcomes: Dose Level 2 (DL2) Only

	Full study population at DL2 (n = 88)	BTKi progression/venetoclax failure subset at DL2 (n = 50)
Primary endpoint: IRC-assessed CR/CRi rate per iwCLL 2018, n (%) [95% CI]	17 (19) [12-29]	10 (20) [10-34]
Key secondary endpoints IRC-assessed ORR, n (%) [95% CI] uMRD rate in blood, n (%) [95% CI]	42 (48) [37–59] 58 (66) [55–76]	22 (44) [30-59] 32 (64) [49-77]
Exploratory endpoint: uMRD rate in marrow, n (%) [95% CI]	53 (60) [49-71]	30 (60) [45-74]
Other secondary endpoints Best overall response, n (%) CR/CRi	17 (19)	10 (20)
PR/nPR	25 (28)	12 (24)
SD	34 (39)	21 (42)
PD	6 (7)	4 (8)
Not evaluable Time to first response, months, median (range) Time to first CR/CRi, months, median (range)	6 (7) 1.3 (0.8–17.4) 5.5 (0.8–18.0)	3 (6) 1.1 (0.8–17.4) 2.1 (0.8–18.0)
 uMRD was achieved in MRD-evaluable patients in the full 15/15 (100%) patients with CR/CRi in blood and 15*/16 24/24 (100%) patients with PR/nPR in blood and 23/23 (1 19/32 (59%) patients with SD in blood and 15/32 (47%) in One patient had an indeterminate status for MRD, which was considered positive as per FDA guidelie 	(94%) in marrow 00%) in marrow marrow	

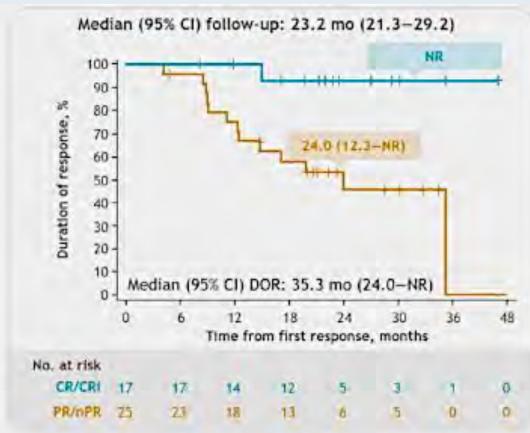
ORR = overall response rate

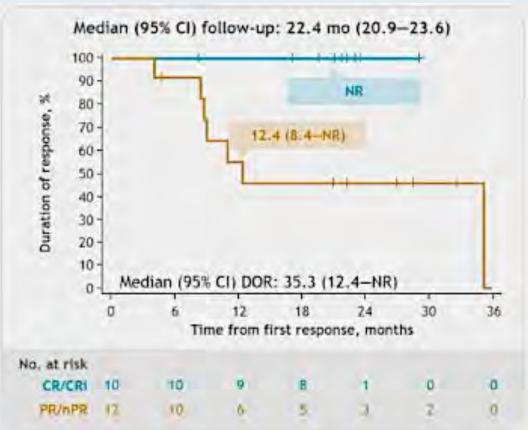


TRANSCEND CLL 004: Duration of Response by Best Overall Response





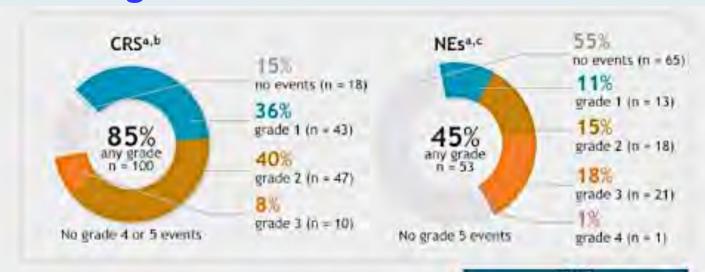




Data on KM curves are expressed as median (95% CI, if available). DOR, duration of response; NR, not reached.



TRANSCEND CLL 004: Cytokine Release Syndrome (CRS), Neurological Events and Other AESIs



Other	AESIS,	n	(%)
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- Prolonged cytopenias^d: 64 (54%)
- Grade ≥ 3 infections*: 21 (18%)
- Hypogammaglobulinemia¹: 18 (15%)
- Tumor lysis syndrome: 13 (11%)
- SPM': 11 (9%)
- MAS: 4 (3%)

	Total (n = 118)		
	CRS	NE	
Patients with an event, n (%)	100 (85)	53 (45)	
Median (range) time to onset, days	4 (1-18)	7 (1-21)	
Median (range) time to resolution, days	6 (2-37)	7 (1-83)	
Received tocilizumab and/or corticosteroids for CRS and/or NE	82	(69)	

Deaths due to TEAEs, n = 5 (4%)

- 4 (3%) considered unrelated to liso-cel by investigators (respiratory failure, sepsis, Escherichia coli infection, and invasive aspergillosis)
- 1 (1%) considered related to liso-cel by investigators (MAS)

AESI, adverse event of special interest; MAS, macrophage activation syndrome; NE, neurological event; SPM, second primary malignancy.



[&]quot;Summed percentages for grouped grades within each graph may not equal the any-grade percentage due to rounding; "CRS was graded based on the Lee 2014 criteria; "NEs were defined as investigator-identified neurological AEs related to liso-cel; "Defined an grade ± 3 laboratory abnormalities of neutropenia, anemia, or thrombocytopenia at Day 30 after liso-cel infusion; "Includes grade ± 3 TEAEs from infections and infestations (System Organ Class) by AE high-level group term; "AEs from the 90-day treatment-emergent period, postsreatment-emergent period, and long-term follow-up were included.

Meet The Professor with Dr Davids

Introduction: Is CLL the New CML? Cases We Didn't Hear About Last Week

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Module 3: Journal Club with Dr Davids

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REGULAR ARTICLE



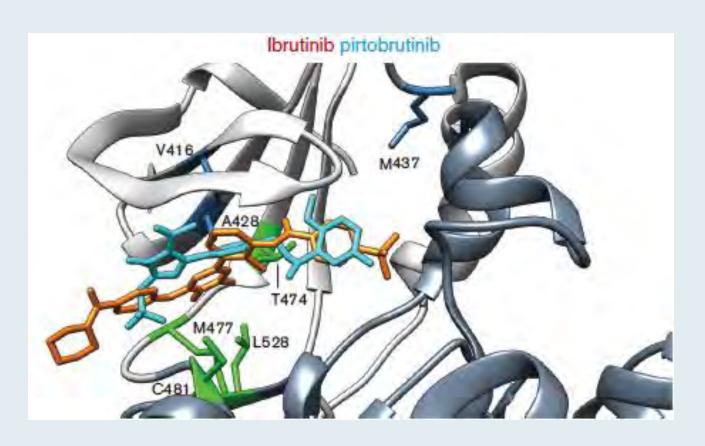
Pirtobrutinib targets BTK C481S in ibrutinib-resistant CLL but second-site BTK mutations lead to resistance

Aishath Naeem, ^{1,2} Filippo Utro, ^{3,†} Qing Wang, ^{4,†} Justin Cha, ^{2,†} Mauno Vihinen, ⁵ Stephen Martindale, ¹ Yinglu Zhou, ⁶ Yue Ren, ⁶ Svitlana Tyekucheva, ⁶ Annette S. Kim, ⁷ Stacey M. Fernandes, ¹ Gordon Saksena, ² Kahn Rhrissorrakrai, ³ Chaya Levovitz, ³ Brian P. Danysh, ² Kara Slowik, ² Raquel A. Jacobs, ² Matthew S. Davids, ^{1,8} James A. Lederer, ⁹ Rula Zain, ^{4,10,*} C. I. Edvard Smith, ^{4,*} Ignaty Leshchiner, ^{2,*} Laxmi Parida, ^{3,*} Gad Getz, ^{2,11,12,*} and Jennifer R. Brown ^{1,2,8,*}

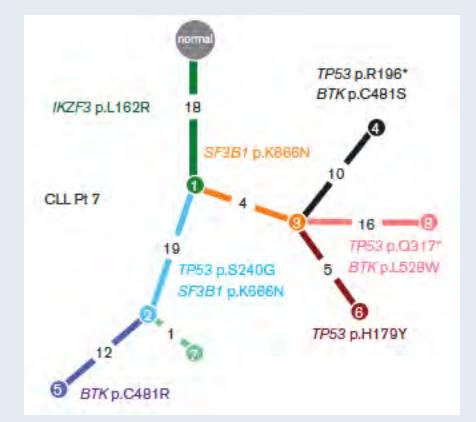
2023;7(9):1929-43.



Docking of Pirtobrutinib to BTK and Second-Site BTK Mutations Are Associated with Resistance to Pirtobrutinib



Phylogenetic tree of clonal and subclonal architecture of somatic mutations in a patient with CLL and disease progression on pirtobrutinib







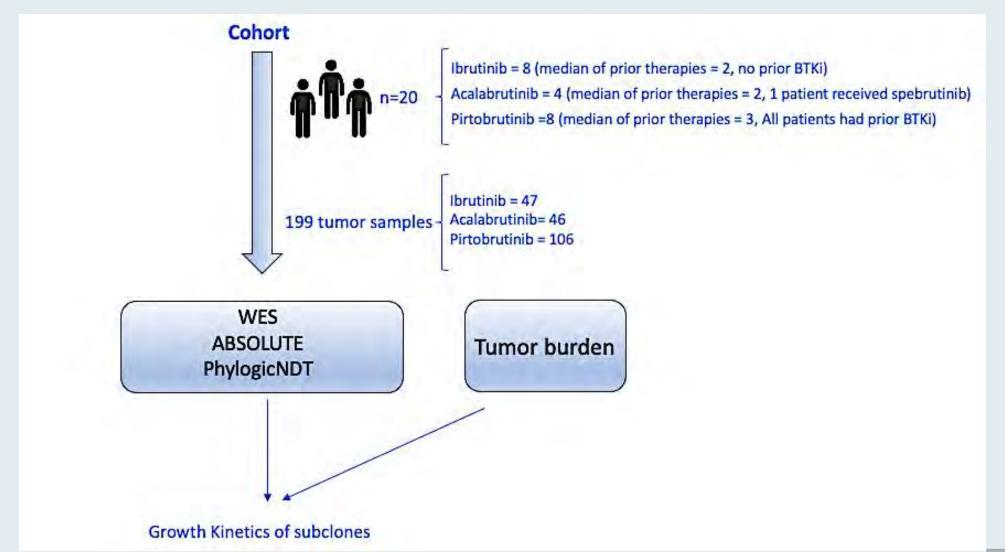
Understanding resistance mechanisms and growth kinetics of CLL treated with covalent and non-covalent BTK inhibitors

<u>Aishath S. Naeem</u>*^{1,2}, Liang Li*², Filippo <u>Utro</u>*³, Justin Cha², Junko Tsuji², Stacey M. Fernandes¹, Roberta Santos Azevedo^{1,4}, Francesca Morelli¹,⁵, <u>Zunqiu Wang¹</u>, Kahn Rhrissorrakrai³, Chaya Levovitz³, Brian P. Danysh², Alexandria Kluge², Matthew S. Davids¹,⁶, <u>Ignaty Leshchiner²,</u> Laxmi Parida³, Gad Getz²,^{8,9,10}, Jennifer R. Brown¹,^{2,6}

¹Department of Medical Oncology, Dana-Farber Cancer Institute, Harvard Medical School, Boston, Massachusetts, USA. ²Cancer Program, Broad Institute of MIT and Harvard, Cambridge, Massachusetts, USA. ³IBM Research, Yorktown Heights, New York, USA. ⁴Department of Hematology, Hospital Nove de Julho, São Paulo, Brazil. ⁵Department of Hematology, University of Florence, Florence, Italy. ⁶Department of Medicine, Brigham and Women's Hospital, Harvard Medical School, Boston, MA, USA. ⁷Department of Medicine, Section of Computational Biomedicine, Boston University School of Medicine, Boston, MA. ⁸Cancer Center, Massachusetts General Hospital, Boston, MA USA. ⁹Harvard Medical School, Boston, MA USA. ¹⁰Department of Pathology, Massachusetts General Hospital, Boston, MA USA.



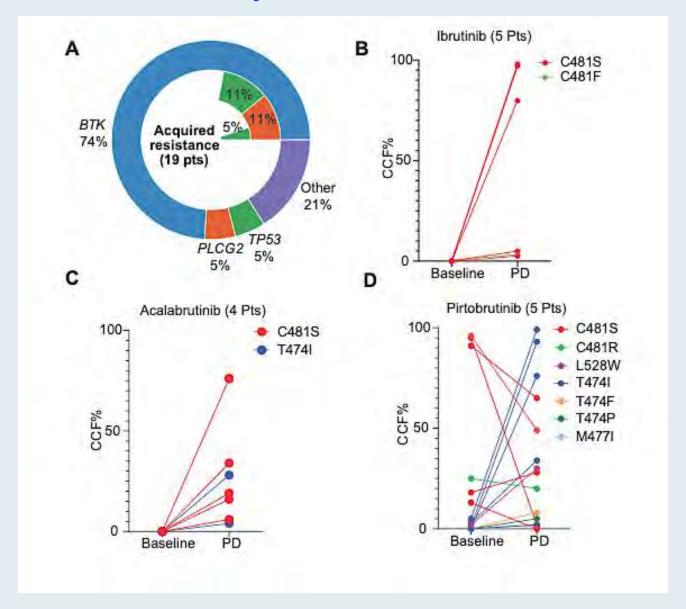
Our Approach





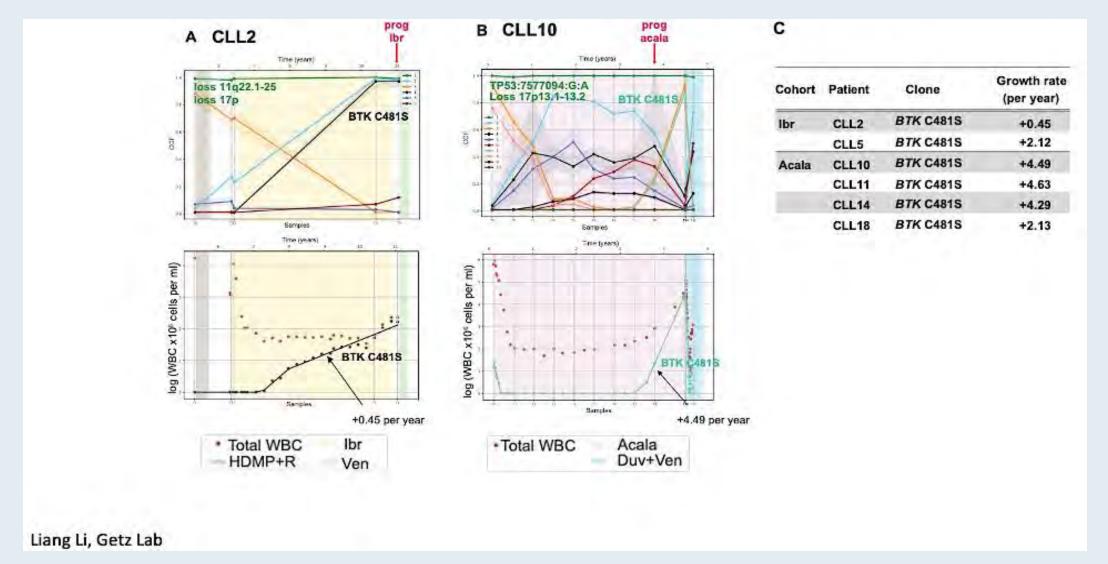


Characteristics of Acquired Resistance to BTK Inhibitors





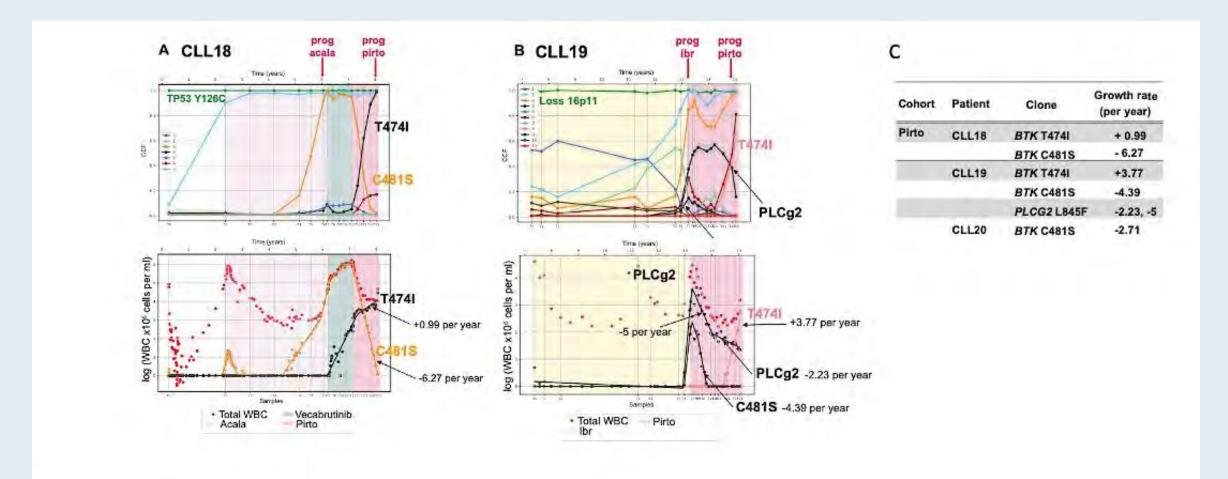
C481S Clone Grows Slower on Ibrutinib Than on Acalabrutinib







Gatekeeper Mutation T474I Grows and C481S Declines During Pirtobrutinib Treatment



Liang Li, Getz Lab





Conclusions

- At progression (PD), mutations in BTK C481S were found in 5/8 patients (55%) in the <u>ibr</u> cohort with CCF>80% in 3 patients. Two of these patients also have mutations in PLCG2 (CCF>30%). One patient in the cohort has an acquired PLCG2 mutation (D1140N) with CCF>70%, without BTK C481S
- All 4 patients that progressed on acala have resistant clones harboring BTK C481S (CCF 16-75%) mutations, with T474I mutations present in 2 patients (CCF 4% and 26%) at progression.
- All but one patient in the pirto cohort had developed PD on cBTKi and 71% (5/7) had BTK C481S mutations prior to starting pirto (CCF 26 99%). In 5 cases, the C481S clone declines on pirto and at PD is replaced by the BTK gatekeeper mutation T474I (CCF 76 99%) in 3 patients, the kinase-inactive mutation BTK L528W (CCF 30%) in 1 patient, and mutations in other driver genes (XPO1, MED12) in 1 patient.
- Rapid growth of C481S clone under acala is consistent with expected inactivity of the drug against the mutation.
- Growth of T474I and exponential decline of C481S clones observed at pirto progression.



Long-Term Safety with ≥12 Months of Pirtobrutinib in Relapsed/Refractory (R/R) B-Cell Malignancies

Wojciech Jurczak (Presenter)¹, Catherine C. Coombs², Nirav N. Shah³, Jennifer Woyach⁴, Chan Y. Cheah⁵, Krish Patel⁶, Kami Maddocks⁴, Yucai Wang⁷, Catherine E. Muehlenbein⁸, Chunxiao Wang⁹, Sarang Abhyankar⁸, Donald E. Tsai⁸, Toby A. Eyre¹⁰

¹Maria Sklodowska-Curie National Research Institute of Oncology, Krakow, Poland; ²UCI Health, Orange, CA, USA; ³Medical College of Wisconsin, Milwaukee, WI, USA; ⁴The Ohio State University Comprehensive Cancer Center, Columbus, USA; ⁵Linear Clinical Research and Sir Charles Gairdner Hospital, Perth, Australia; ⁶Center for Blood Disorders and Cellular Therapy, Swedish Cancer Institute, Seattle, WA, USA; ⁷Division of Hematology, Mayo Clinic, Rochester, MN, USA; ⁸Loxo@Lilly, Indianapolis, IN, USA; ⁹Eli Lilly and Company, Indianapolis, IN, USA; ¹⁰Oxford University Hospitals NHS Foundation Trust, Churchill Cancer Center, Oxford, United Kingdom



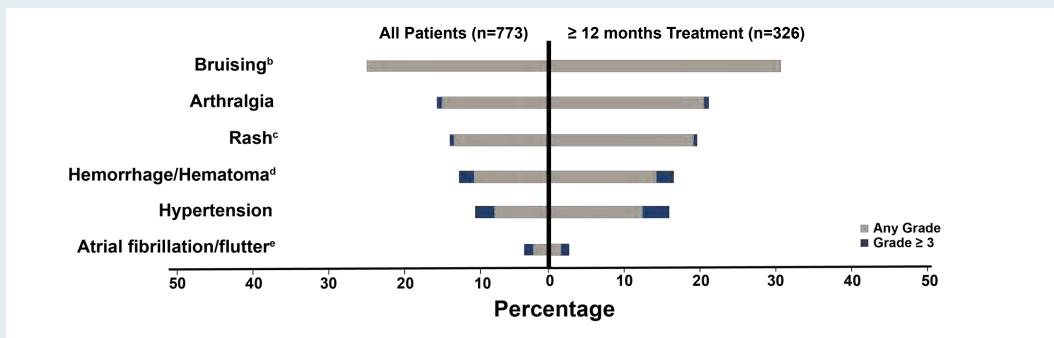
BRUIN: Pirtobrutinib Safety Profile in Patients with ≥12 Months Treatment and in the Overall Safety Population

	≥12 Months Treatment (N=326)				All Patients (N=773)			
Treatment Emergent AEs (≥15%)	Any Grade TEAE (%)	Grade ≥3 TEAE (%)	Leading to Dose Reduction (%)	Leading to Drug Discontinuation (%)	Any Grade TEAE (%)	Grade ≥3 TEAE (%)	Leading to Dose Reduction (%)	Leading to Drug Discontinuatio n (%)
Fatigue	32.2	1.2	0	0	28.7	2.1	0.4	0.3
Diarrhea	30.7	1.2	0.3	0	24.2	0.9	0.3	0
Neutropenia ^a	29.8	23.9	3.1	0.6	25.0	20.3	2.1	0.5
Covid-19	28.5	4.3	0.3	0	16.7	2.7	0.1	0.4
Contusion	25.8	0	0.3	0	19.4	0	0.1	0
Cough	24.5	0	0	0	17.5	0.1	0.1	0
Back Pain	20.9	0.9	0	0	12.7	0.5	0	0
Headache	18.4	0.6	0	0	13.1	0.5	0.1	0
Upper Respiratory Tract Infection	18.1	0	0	0	9.8	0.1	0	0
Nausea	17.5	0.3	0	0	16.2	0.1	0.1	0.1
Dyspnea	17.2	0.6	0.3	0	15.5	1.0	0.1	0.1
Abdominal Pain	16.3	0.9	0	0	13.1	1.0	0	0.1
Constipation	16.3	0	0	0	13.6	0.3	0	0
AEs of Special Interest ^b	Any Grade TEAE (%)	Grade ≥3 TEAE (%)	Leading to Dose Reduction (%)	Leading to Drug Discontinuation (%)	Any Grade TEAE (%)	Grade ≥3 TEAE (%)	Leading to Dose Reduction (%)	Leading to Drug Discontinuation (%)
Bruising ^c	30.7	0	0.3	0	23.7	0	0.1	0
Arthralgia	21.2	0.6	0	0	14.4	0.6	0	0
Rash ^d	19.6	0.3	0	0	12.7	0.5	0.3	0.1
Hemorrhage/ Hematomae	16.6	2.1	0	0	11.4	1.8	0	0
Hypertension	16.0	3.4	0.3	0	9.2	2.3	0.1	0
Atrial fibrillation/ flutterf	2.8	0.9	0	0	2.8	1.2	0	0

Data cutoff date of 29 July 2022. ^aAggregate of neutropenia and neutrophil count decreased. ^bAEs of special interest are those that were previously associated with covalent BTK inhibitors. ^cAggregate of contusion, petechiae, ecchymosis, and increased tendency to bruise. ^dAggregate of all preferred terms including rash. ^eAggregate of all preferred terms including hematoma or hemorrhage. ^fAggregate of atrial fibrillation and atrial flutter.



BRUIN: Selected Adverse Events (AEs) of Special Interest



Data cutoff date of 29 July 2022. ^aAEs of special interest are those that were previously associated with covalent BTK inhibitors. ^bAggregate of contusion, petechiae, ecchymosis, and increased tendency to bruise. ^cAggregate of all preferred terms including rash. ^dAggregate of all preferred terms including hematoma or hemorrhage. ^eAggregate of atrial fibrillation and atrial flutter.

Among the 326 patients who received ≥12 months treatment:

- Most TEAEs and AEs of special interest were low grade and did not lead to dose reduction or discontinuation
- 42% of the patients with treatment-emergent hypertension had a pre-existing medical history of hypertension
- In total, across all TEAEs, dose reduction or discontinuation occurred in 23 (7%) and 11 (3%) patients, respectively
- With additional treatment, the rates of selected AEs of special interest did not show clinically meaningful increases, particularly Grade ≥3

RTP RESEARCH TO PRACTICE

TEAEs = treatment-emergent adverse events

REGULAR ARTICLE



Acalabrutinib-based regimens in frontline or relapsed/refractory higher-risk CLL: pooled analysis of 5 clinical trials

Matthew S. Davids, ¹ Jeff P. Sharman, ² Paolo Ghia, ^{3,4} Jennifer A. Woyach, ⁵ Toby A. Eyre, ⁶ Wojciech Jurczak, ⁷ Tanya Siddiqi, ⁸ Paulo Miranda, ⁹ Mina Shahkarami, ¹⁰ Anna Butturini, ¹⁰ Ugochinyere Emeribe, ⁹ and John C. Byrd ¹¹

Blood Adv 2024;8(13):3345-59.



REGULAR ARTICLE



An indirect comparison of acalabrutinib with and without obinutuzumab vs zanubrutinib in treatment-naive CLL

Adam S. Kittai,^{1,*} John N. Allan,^{2,*} Dan James,³ Helen Bridge,⁴ Miguel Miranda,⁴ Alan S. M. Yong,⁵ Fady Fam,⁴ Jack Roos,⁵ Vikram Shetty,⁵ Alan Skarbnik,^{6,†} and Matthew S. Davids^{7,†}

2024;8(11):2861-9.



Seminars in Hematology 61 (2024) 109-118



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journal homepage: www.elsevier.com/locate/seminhematol

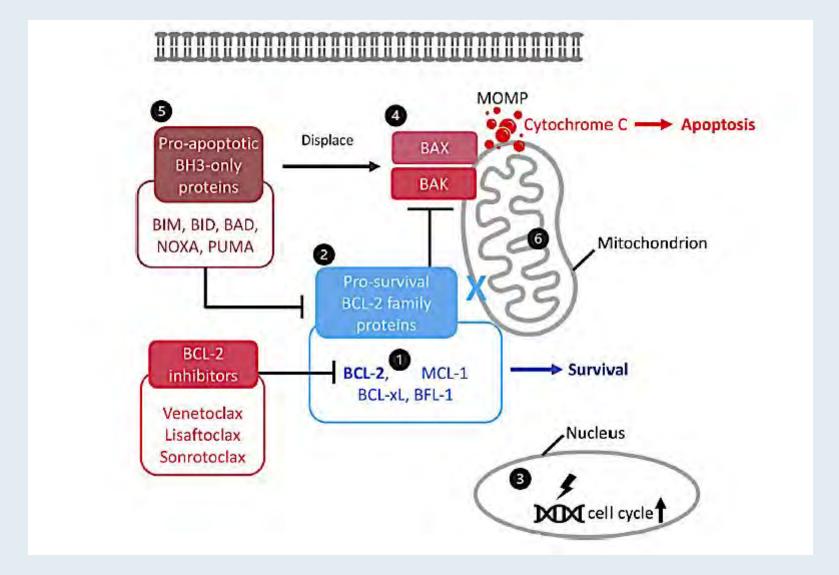


Therapeutic targeting of apoptosis in chronic lymphocytic leukemia Inhye E. Ahn, Matthew S. Davids*

Department of Medical Oncology, Dana-Farber Cancer Institute, Boston, MA



Therapeutic Targeting of Apoptosis and Mechanisms of Resistance to Bcl-2 Inhibition





Clin Cancer Res. 2024 February 01; 30(3): 471–473. doi:10.1158/1078-0432.CCR-23-2872.

Overcoming Resistance in Chronic Lymphocytic Leukemia – Maybe Less is More?

Othman Al-Sawaf^{1,2,3}, Matthew S. Davids⁴



SAVE (Safe Accelerated Venetoclax Escalation): Initial Results of a Prospective, Phase Ib Study of Venetoclax with an Accelerated Dose Ramp-Up in Patients with CLL

Crombie JL et al.

ASCO 2023; Abstract 7512.





LP-118 is a novel B-cell lymphoma 2/extra-large inhibitor that demonstrates efficacy in models of venetoclax-resistant chronic lymphocytic leukemia

by Janani Ravikrishnan, Daisy Y. Diaz-Rohena, Elizabeth Muhowski, Xiaokui Mo, Tzung-Huei Lai, Shrilekha Misra, Charmelle D. Williams, John Sanchez, Andrew Mitchell, Suresh Satpati, Elizabeth Perry, Tierney Kaufman, Chaomei Liu, Arletta Lozanski, Gerard Lozanski, Kerry A. Rogers, Adam S. Kittai, Seema A. Bhat, Mary C. Collins, Matthew S. Davids, Nitin Jain, William G. Wierda, Rosa Lapalombella, John C. Byrd, Fenlai Tan, Yi Chen, Yu Chen, Yue Shen, Stephen P. Anthony, Jennifer A. Woyach, and Deepa Sampath

2024 August 8;[Online ahead of print].



Meet The Professor with Dr Davids

Introduction: Is CLL the New CML? Cases We Didn't Hear About Last Week

Module 1: Case Presentations

Module 2: Transformed CLL; CAR T-Cell Therapy

Module 3: Journal Club with Dr Davids

Module 4: Appendix



Selection of First-Line Therapy for Patients with Chronic Lymphocytic Leukemia (CLL)



Final Analysis of the RESONATE-2 Study: Up to 10 Years of Follow-Up of First-Line Ibrutinib Treatment in Patients with Chronic Lymphocytic Leukemia/Small Lymphocytic Lymphoma

Burger J et al.

EHA 2024; Abstract P670.

Author Conclusions: With the longest follow-up to date from a phase 3 study of any targeted therapy for CLL/SLL, this final analysis of the landmark RESONATE-2 study defines median PFS and demonstrates continued OS benefit of single-agent ibrutinib (Ibr) treatment for patients with previously untreated disease, including those with high-risk genomic features. Median PFS was significantly longer with Ibr versus chlorambucil, and responses to Ibr were sustained over time. At study completion, 27% of patients remained on Ibr, AE rates were stable, and no new safety signals emerged since the prior report. Sustained efficacy and tolerability of first-line Ibr treatment reinforces the favorable benefit-risk profile.



Presentation #636

Acalabrutinib ± Obinutuzumab vs Obinutuzumab + Chlorambucil in Treatment-naive Chronic Lymphocytic Leukemia: 6-Year Follow-up of ELEVATE-TN

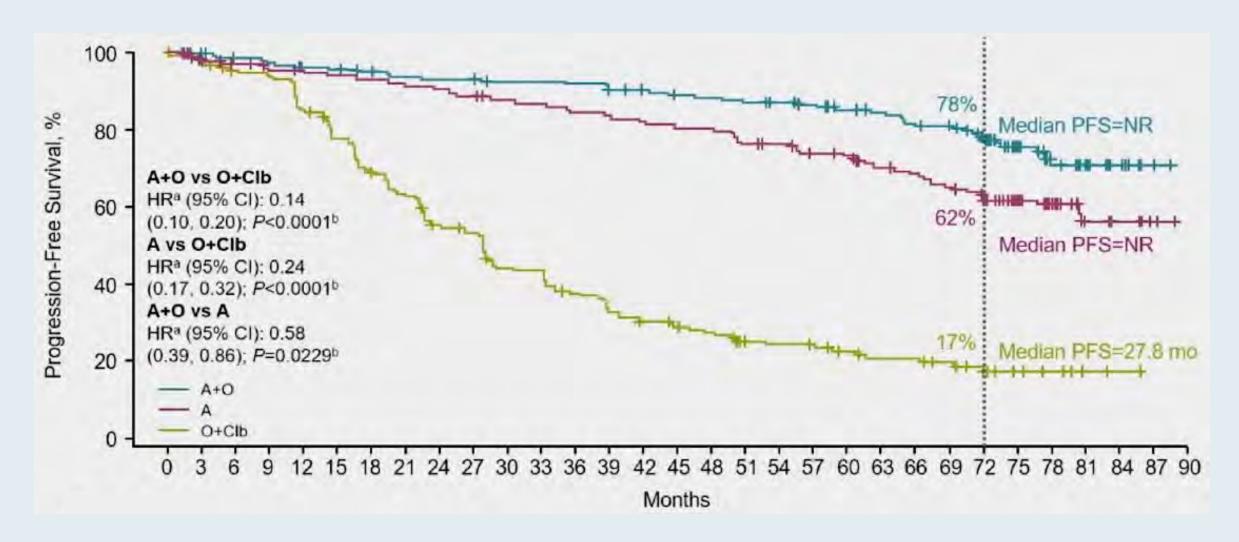
Jeff P. Sharman, Miklos Egyed, Wojciech Jurczak, Alan Skarbnik, Krish Patel, Ian W. Flinn, Manali Kamdar, Talha Munir, Renata Walewska, Marie Hughes, Laura Maria Fogliatto, Mair Herishanu, Sersha Banerji, George Follows, Maricia Walker, Karin Karlsson, Marie Paolo Ghia, Manali Versha Banerji, Marie Hughes, Marie Hughes, Marie Hughes, Maria Fogliatto, Marie Hughes, Marie Hughes, Alaura Maria Fogliatto, Marie Hughes, Marie Hughes, Marie Hughes, Alaura Maria Fogliatto, Marie Hughes, Marie H

*Willamette Valley Cancer Institute and Research Center/US Oncology Research. Eugene, OR, USA; *Somogy County Mor Kaposi General Hospital. Kaposvár. Hungary. *Maria Skłodowska-Cune National Research Institute of Oncology, Krakow, Poland. *Novant Health Cancer Institute. Charlotte, NC, USA; *Swedish Cancer Institute, Seattle, WA, USA; *Sarah Cannon Research Institute, Tennessee Oncology, Nashville, TN, USA, *University of Colorado Cancer Center, Aurora, CO, USA; *Haematology, Haematological Malignancy Diagnostic Service (HMDS), St. James's Institute of Oncology, Leeds, United Kingdom; *Gancer Care, University Hospitals Dorset, Bournemouth, United Kingdom; *Tauranga Hospital, Tauranga, New Zealand; *Thospital de Clinicas de Porto Alegre, Porto Alegre, Brazil; *Tel Aviv Sourasky Medical Center, Tel Aviv, Israel; *Departments of Internal Medicine, Blochemistry & Medical Genetics, Max Rady College of Medicine, Rady Faculty of Health Sciences, University of Manitoba and CancerCare Manitoba, Winnipeg, Canada; *Department of Haematology, Addenbrooke's Hospital NHS Trust, Cambridge, United Kingdom; *Peninsula Health and Peninsula Private Hospital, Frankston, Melbourne, Australia; *Skåne University Hospital, Lund, Sweden; *Tuniversita Vita-Salute San Raffaele and IRCCS Ospedale San Raffaele, Milano, Italy; *University Hospitals Leuven, Leuven, Belgium; *Peninsula Health Associated Center, Columbus, OH, USA, *Hospices Civils de Lyon, Centre Hospitalier Lyon Sud, Service d'Hématologie Clinique, Pierre-Benite, France; **University of Texas MD Anderson Cancer Center, Houston, TX, USA, **AstraZeneca, New York, NY, USA

Presented at the American Society of Hematology (ASH) Annual Meeting: December 9-12, 2023



ELEVATE-TN 6-Year Follow-Up: Progression-Free Survival





ELEVATE-TN 6-Year Follow-Up: Author Conclusions

- With median follow-up at 74,5 months (~6 years), the efficacy and safety of A+O and A were maintained in patients with TN CLL
 - Median PFS was significantly longer for A-containing arms vs O+Clb
 - Median PFS was significantly longer in patients treated with A+O vs A
 - Addition of O to A resulted in higher complete response rates compared with A monotherapy
 - Patients treated with A±O who achieved a complete response had longer PFS than those who
 did not achieve a complete response
 - OS was not reached in any treatment arm and was longer with A+O vs O+Clb
- These benefits in outcomes were observed regardless of patients' genomic marker status
- Safety of A+O and A remained consistent with previously reported findings, with low incidences of some grade ≥3 AEs typically associated with BTKis



Venetoclax-Obinutuzumab for previously untreated chronic lymphocytic leukemia: 6-year results of the phase 3 CLL14 study

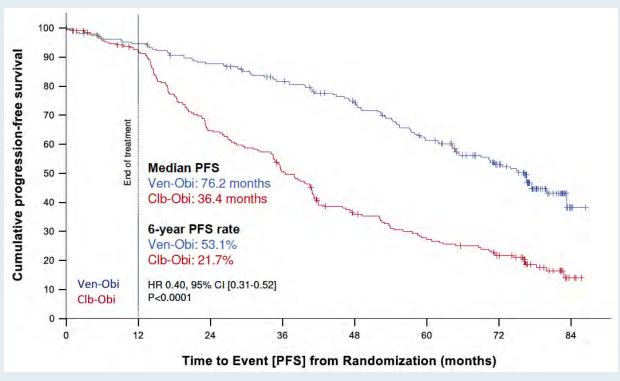
Othman Al-Sawaf, Sandra Robrecht, Can Zhang, Stefano Olivieri, Yi Meng Chang, Anna-Maria Fink, Eugen Tausch, Christof Schneider, Matthias Ritgen, Karl-Anton Kreuzer, Liliya Sivcheva, Carsten Utoft Niemann, Anthony P. Schwarer, Javier Loscertales, Robert Weinkove, Dirk Strumberg, Allanah Kilfoyle, Beenish S. Manzoor, Dureshahwar Jawaid, Nnadozie Emechebe, Jacob Devine, Michelle Boyer, Eva D Runkel, Barbara Eichhorst, Stephan Stilgenbauer, Yanwen Jiang, Michael J Hallek, Kirsten Fischer

Blood 2024 July 10; [Online ahead of print].

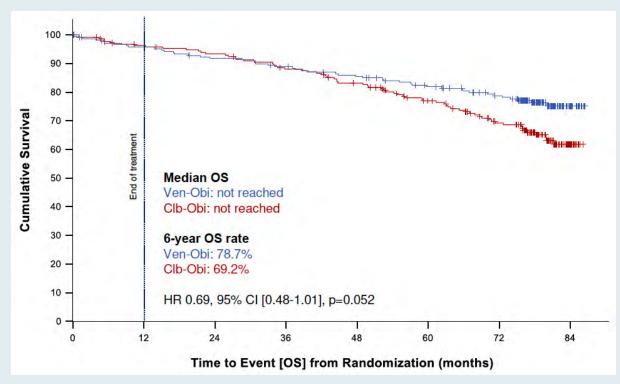


CLL14 6-Year Follow-Up: Survival

Progression-free survival



Overall survival





Abstract 634

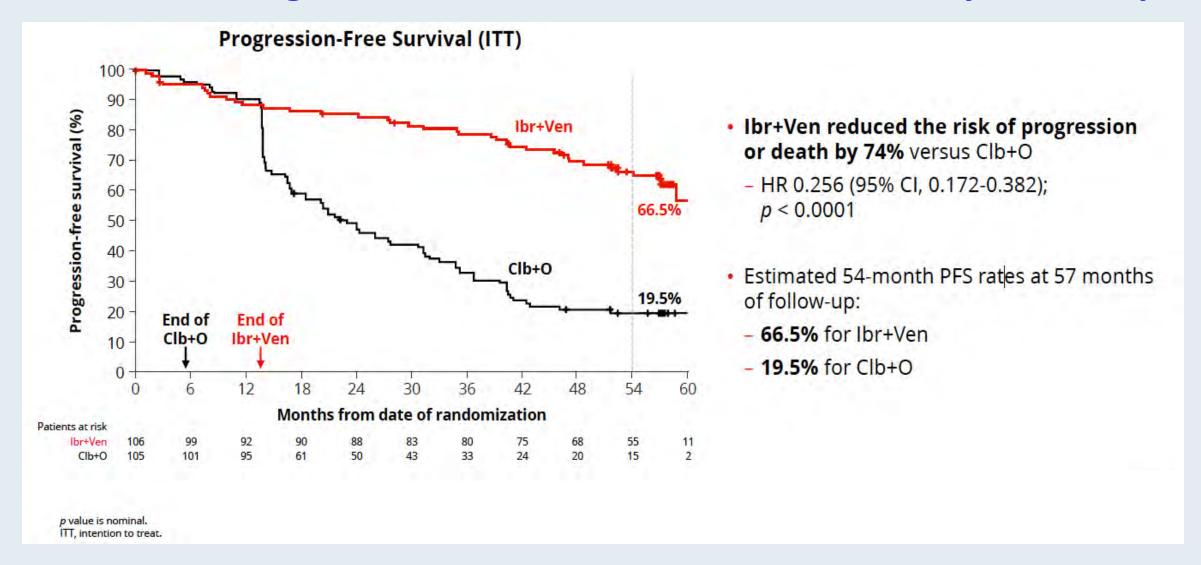
First-Line Fixed-Duration Ibrutinib Plus Venetoclax (Ibr+Ven) Versus Chlorambucil Plus Obinutuzumab (Clb+O): Up to 5 Years' Follow-up From the GLOW Study

Carol Moreno,¹ Talha Munir,² Carolyn Owen,³ George Follows,⁴ José-Ángel Hernández-Rivas,⁵ Ohad Benjamini,⁶ Ann Janssens,⁷ Mark-David Levin,⁸ Tadeusz Robak,⁹ Martin Simkovic,¹⁰ Sergey Voloshin,¹¹ Vladimir Vorobyev,¹² Munci Yagci,¹³ Loic Ysebaert,¹⁴ Qianya Qi,¹⁵ Emma Smith,¹⁵ Srimathi Srinivasan,¹⁶ Natasha Schuier,¹⁵ Kurt Baeten,¹⁷ Donne Bennett Caces,¹⁵ Carsten U. Niemann,¹⁸ Arnon P. Kater¹⁹

¹Hospital de la Santa Creu i Sant Pau, Autonomous University of Barcelona, Josep Carreras Leukaemia Research Institute, Barcelona, Spain; ²St James's Hospital, Leeds, UK; ³Tom Baker Cancer Centre, Calgary, AB, Canada; ⁴Addenbrookes Hospital, Cambridge, UK; ⁵Hospital Universitario Infanta Leonor, Universidad Complutense, Madrid, Spain; ⁶Sheba Medical Center, Ramat Gan, Israel; ⁷Universitaire Ziekenhuizen Leuven, Leuven, Belgium; ⁸Albert Schweitzer Hospital, Dordrecht, Netherlands; ⁹Medical University of Lodz, Copernicus Memorial Hospital, Lodz, Poland; ¹⁰4th Department of Internal Medicine – Haematology, Faculty of Medicine in Hradec Králové, University Hospital and Charles University in Prague, Hradec Kralove, Czech Republic; ¹¹Russian Scientific and Research Institute of Hematology and Transfusiology, St. Petersburg, Russia; ¹²S.P. Botkin Moscow City Clinical Hospital, Moscow, Russia; ¹³Gazi Universitesi Tip Fakultesi, Ankara, Turkey; ¹⁴Institut Universitaire du Cancer Toulouse Oncopole, Toulouse, France; ¹⁵Janssen Research & Development, Raritan, NJ; ¹⁶Oncology Translational Research, Janssen Research & Development, Lower Gwynedd Township, PA; ¹⁷Janssen Research & Development, Beerse, Belgium; ¹⁸Rigshospitalet Copenhagen University Hospital, Copenhagen, Denmark; ¹⁹Amsterdam University Medical Centers, Cancer Center Amsterdam, University of Amsterdam, Netherlands



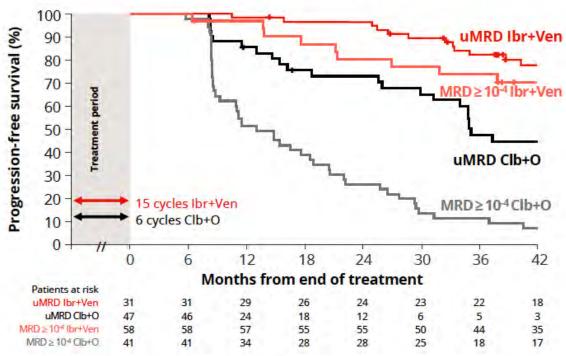
GLOW: Investigator-Assessed PFS at 57 Months of Study Follow-Up





GLOW: Investigator-Assessed PFS by Minimal Residual Disease (MRD) Status at 3 Months After End of Treatment (EOT+3)





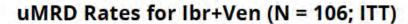
- Estimated PFS rates at 42 months post treatment:
 - Ibr+Ven:
 - 78% for patients with uMRD at EOT+3
 - 70% for patients with MRD ≥ 10⁻⁴ at EOT+3
 - Clb+O:
 - 44% for patients with uMRD at EOT+3
 - 6% for patients with MRD ≥ 10⁻⁴ at EOT+3

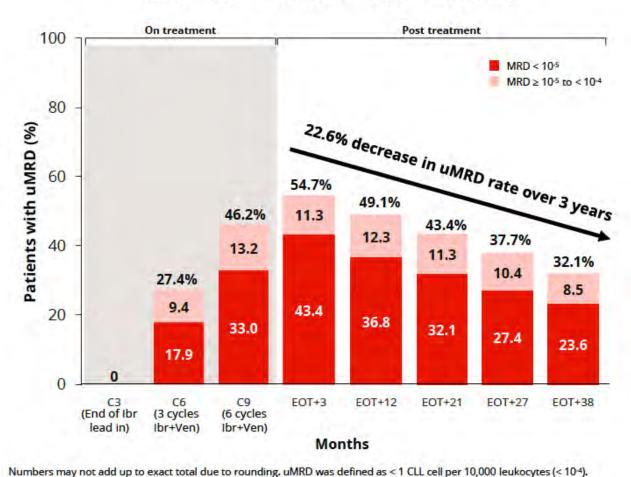
 A similar high PFS rate was observed with Ibr + Ven for patients with unmutated IGHV who had uMRD at EOT+3, whereas those with MRD ≥10⁻⁴ had a lower PFS rate



^aCurves generated from EOT (C15 for lbr+Ven, C6 for Clb+O),
All patients who had MRD outcome at EOT+3 were included in this analysis; uMRD was defined as < 1 CLL cell per 10,000 leukocytes (< 10⁴),
MRD, minimal residual disease.

GLOW: Undetectable MRD Rates 3 Years After Treatment with Ibrutinib and Venetoclax

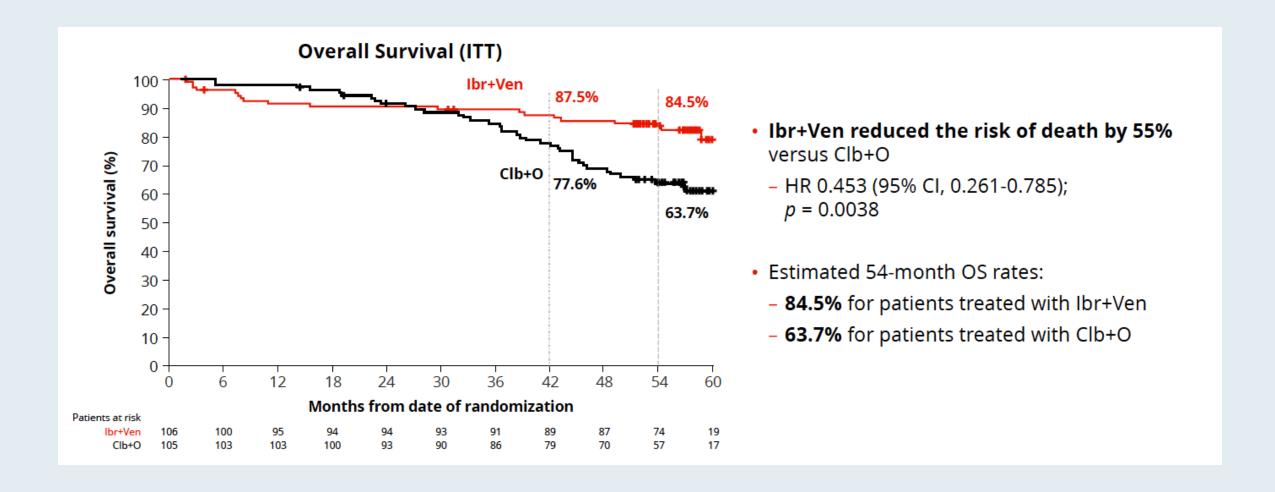




- · On treatment:
 - 47 (81%) of 58 patients who achieved uMRD by EOT+3 did so by C9 (ie, after 6 cycles of combined lbr+Ven)
- 3 years post treatment:
 - uMRD responses in the Ibr+Ven arm had an annual decline of less than 10%



GLOW: Overall Survival at 57 Months of Study Follow-Up





Optimal Management of Adverse Events (AEs) with BTK and Bcl-2 Inhibitors; Considerations for Special Patient Populations



Incidence and Management Recommendations for Select BTK Inhibitor-Associated Cardiologic Adverse Events and Bleeding

Adverse event	BTK inhibitor	Incidence Any grade, Grade ≥3	Management		
Atrial fibrillation	Ibrutinib	16%, 2%-5%	Avoid stroke; anticoagulation		
	Acalabrutinib	6%-9%, 1%-5%	B etter symptom control: rate vs rhythm		
	Zanubrutinib	3%-6%, ≤1%	Cardiovascular and other comorbidity		
	Pirtobrutinib	2.8%, 1.2%	management		
Hypertension	Ibrutinib	16%-23%, 8%-12%	Correct predisposing factors Antihypertensive therapy		
	Acalabrutinib	7%-9%, 3%-4%			
	Zanubrutinib	14%-17%, 6%-15%			
	Pirtobrutinib	9.2%, 2.3%			
Bleeding	Ibrutinib	36%-51%, 3%-4%	 Minor bleeding: no intervention Major bleeding: Consider treatment discontinuation Platelet transfusions regardless of platelet counts 		
	Acalabrutinib	36%-51%, 3%			
	Zanubrutinib	36%-45%, 3%			
	Pirtobrutinib				

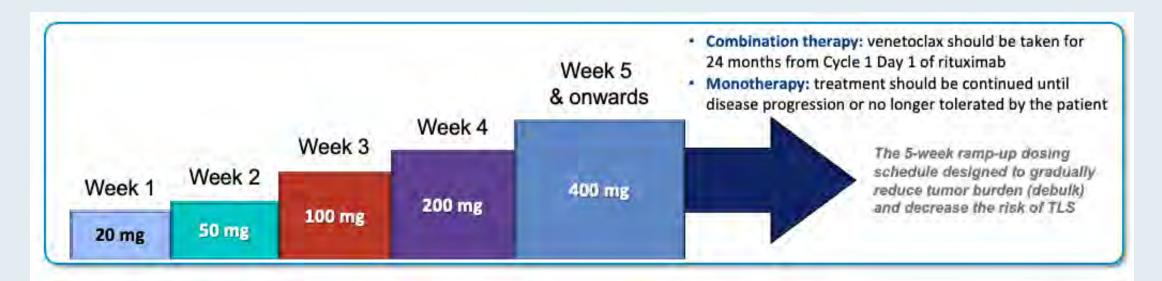


Incidence and Management Recommendations for Select BTK Inhibitor-Associated Noncardiovascular Adverse Events

Adverse event	BTK inhibitor	Incidence Any grade, Grade ≥3	Management	
Neutropenia	Ibrutinib	25%-39%, 13%-31%		
	Acalabrutinib	21%-23%, 13%-19%	Crowth factor support	
	Zanubrutinib	37%-34%, 15%-19%	Growth factor support	
	Pirtobrutinib	25%, 20.3%		
Diarrhea	Ibrutinib	22%-59%, <1%-4%	Symptomatic treatments and dose	
	Acalabrutinib	18%-39%, 1%-5%	adjustments	
	Zanubrutinib	14%-18%, <1%-2%	Dietary modifications, hydration, anti- diarrheal medications	
	Pirtobrutinib	24.2%, 0%-9%	Probiotics	
Headache	Ibrutinib	14%-18%, 1%-2%	Moderate dose of caffeine or	
	Acalabrutinib	22%-39%, <1%		
	Zanubrutinib	11%-12%, 0%-1%	acetaminophen	
	Pirtobrutinib	13.1%, 0.5%		



Venetoclax Dose Initiation



The 5-week dose-titration schedule is designed to gradually reduce tumour burden and decrease the risk of TLS

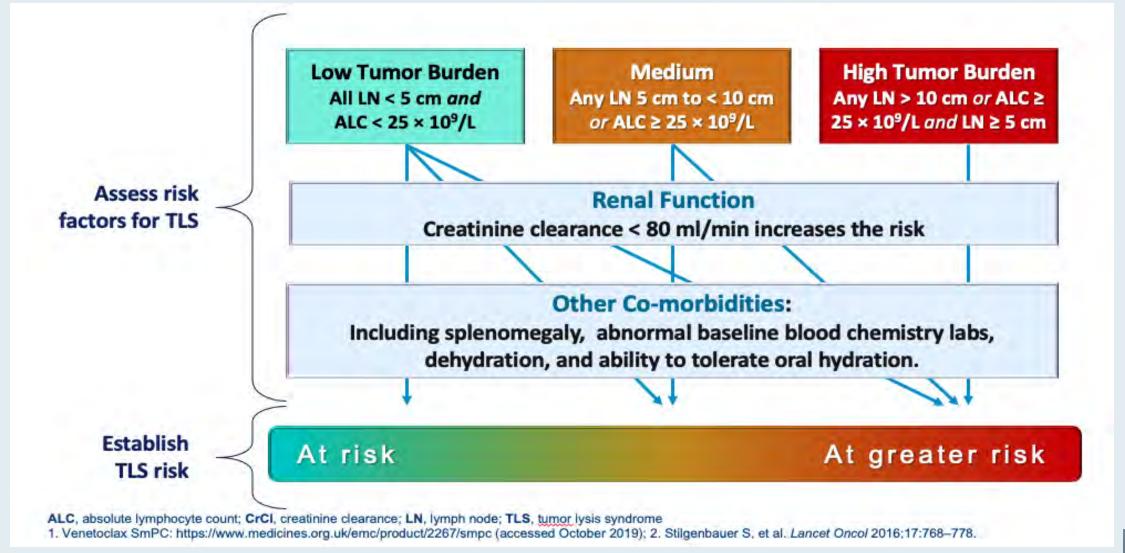
Combination therapy: recommended dose of venetoclax in combination with rituximab is 400 mg once daily; rituximab should be administered after the patient has completed the dose-titration schedule and has received the recommended daily dose of 400 mg venetoclax for 7 days.

Monotherapy: the recommended dose of venetoclax is 400 mg once daily.

Venetoclax SmPC: https://www.medicines.org.uk/emc/product/2267/smpc (accessed October 2019).



TLS Risk with Venetoclax Is a Continuum Based on Multiple Factors







Spencer H Bachow, MD Lynn Cancer Institute Boca Raton, Florida



Warren S Brenner, MD Lynn Cancer Institute Boca Raton, Florida



Bhavana (Tina) Bhatnagar, DOWVU Cancer Institute
Wheeling, West Virginia



Erik Rupard, MDIntermountain Health
St George, Utah



Practical Perspectives: Optimizing Diagnosis and Treatment for Patients with Desmoid Tumors

A CME/MOC-Accredited Live Webinar

Tuesday, September 24, 2024 5:00 PM - 6:00 PM ET

Faculty

Thierry Alcindor, MD, MSc Mrinal Gounder, 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.

Information on how to obtain CME and ABIM MOC credit is provided in the Zoom chat room. Attendees will also receive an email in 1 to 3 business days with these instructions.

