



**POST-ORLANDO 2025**  
Novità dal Meeting della Società Americana di Ematologia

# Novità dal Meeting della Società Americana di Ematologia

**Torino**  
Centro Congressi Lingotto  
19-21 febbraio 2026

**COORDINATORI**

Angelo Michele Carella  
Pier Luigi Zinzani

**BOARD SCIENTIFICO**

Paolo Corradini  
Mauro Krampera  
Fabrizio Pane  
Adriano Venditti



**Michele Spina**

**Terapie di salvataggio**

*CRO Aviano*



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di Ematologia

Torino, 19-21 Febbraio 2026

## DICHIARAZIONE

Michele Spina

Company name	Research support	Employee	Consultant	Stockholder	Speakers bureau	Advisory board	Other
Gilead					X	X	
Servier					X	X	
Roche						X	
AstraZeneca						X	
SOBI					X	X	
AbbVie						X	
Istituto Gentili						X	
BeiGene						X	
Incyte						X	
Novartis						X	



## OUTLINE

- DLBCL (CAR T + something...., CAR T in PWH)
- PMBCL (anti PD1 therapy)
- Malattia di Waldenstrom (BRUIN, Rosewood)



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## OUTLINE

- DLBCL



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Phase II, single-arm, open-label, multicenter study: Efficacy of adjunctive Bruton's tyrosine kinase inhibitor (BTKi) zanubrutinib and chimeric antigen receptor T-cell therapy (CART) in aggressive B-cell non-Hodgkin lymphoma (aNHL)

Reem Karmali, Carlos Galvez, Jane N. Winter, Shuo Ma, Bin Zhang, Ping Xie, Yangruijie (Anna) MA, Ruohui Chen, Nirav Shah, Leo I. Gordon

## Study Design: Single-Arm, Phase 2 Multi-Institutional Study

### Key eligibility criteria

- Age  $\geq$  18 years
- R/R aNHL
- Commercially approved CD19 CART
- $\geq$  1 prior line of systemic therapy, including anthracycline based therapy
- ECOG PS  $\leq$  1
- Adequate bone marrow, kidney, liver, cardiac function



Zanubrutinib  
lead-in  
(ZLI\*)  
7-14 days

Leukapheresis  
after ZLI

**CART  
manufacturing**  
*Bridging therapy  
allowed*

Response assessment  
post CART (D29)

LDC  $\rightarrow$   
CART

**Zanubrutinib  
maintenance (ZM\*)**  
for  
pts with CR/PR  
X 13 cycles

Response assessment  
for primary endpoint (D180)

6, 12, 18-mo  
disease  
assessment

\*dose of 160 mg orally bid

### Primary endpoint

- 6-month CR rate by Lugano 2014 criteria for efficacy-evaluable set (n=23)
- \*\*Historical benchmark of 44% derived from prior CART studies and RWE; null hypothesis rejected if  $\geq$ 16/23 pts (69%) achieved a CR at D180 post CART

### Secondary endpoints

- DOR, DOR if BOR is CR, PFS; OS; safety

### Exploratory endpoints

- Changes in MRD status, immune cell subsets and cytokines with ZLI and ZM

**23 patients**

78% 2° line

61% primary refractory

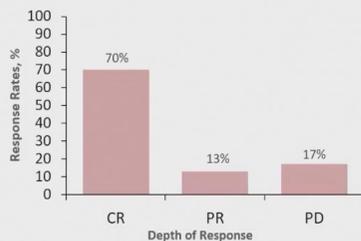


American Society of Hematology

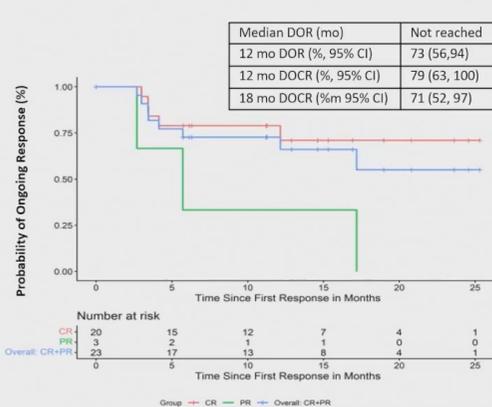


## Response Rates and DOR on ZM (n=23)

Response rates 6 months post CART (n=23)

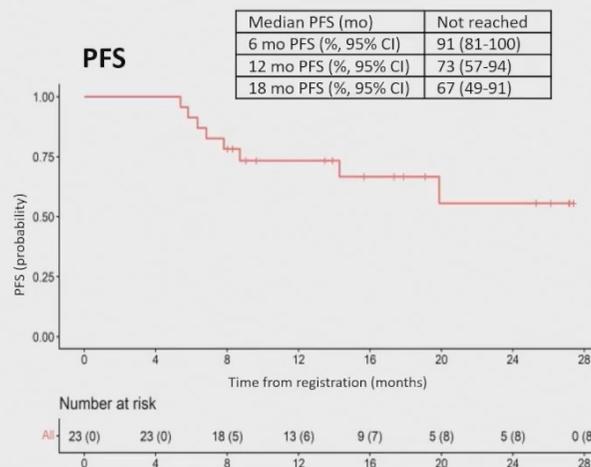


DOR according to best overall response to CART (n=23)

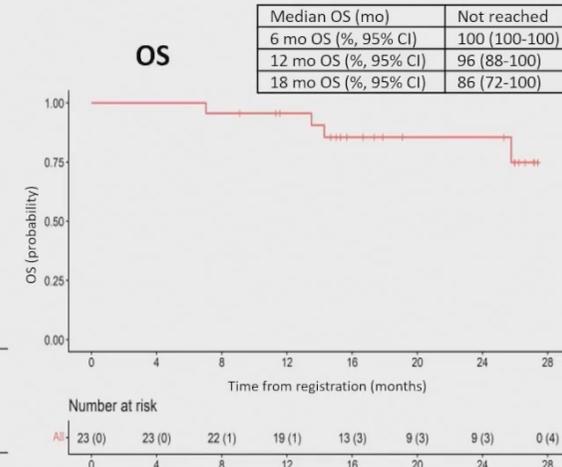


Responses	Response D29 post CART (pre-ZM), n=30	Response D180 post CART (on ZM), n=23
CR, n (%)	16 (53%)	16 (70%)
PR, n (%)	7 (23%)	3 (13%) *3 converted to CR, 1 PD
PD, n (%)	7 (23%)	4 (17%) *3 CR and 1 PR at D29
MRD eval	Pending	Pending

## Progression Free and Overall Survival with ZM (n=23)



\*12 mo PFS in ITT (n=30) – 61%



\*12 mo OS in ITT (n=30) – 84%



## Discussion

- Multicenter trial for novel combination of zanubrutinib and CD19 CART in aNHL
- ZLI prior to apheresis followed by ZM post CART achieved 6-mo sustained CR rate above historical rates reported for CART alone
  - Responses are durable 12 - 18 months post CART
- Safety profile of ZM predictable with low rates of G3 toxicities
- Changes in cytokines and immune subsets with ZLI predicted for sustained response
  - additional studies (including MRD evaluation) needed to clarify impact of zanubrutinib exposure post CART infusion on the TME and therapeutic effects of CART
- Our results support evaluation of this combination in a larger cohort of aNHL





## Total Therapy Approach: Mosun-Pola + Axi-cel



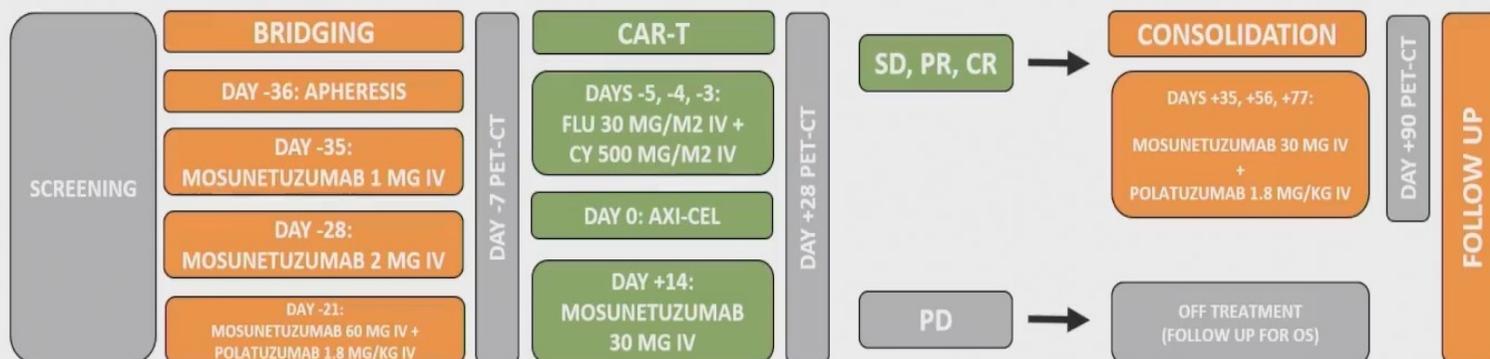
ClinicalTrials.gov: NCT05260957

Mosunetuzumab and Polatuzumab combined with Axicabtagene Ciloleucel induce high complete response rates at Day+90 in relapsed/refractory large B-cell lymphoma

Jay Y. Spiegel, Juan P. Alderuccio, Amer Beitinjaneh, Trent Wang, Noa Holtzman, Denise Pereira, Mark Goodman, Antonio Jimenez, Cara Benjamin, Alvaro Alencar, Georgios Pongas, Izidore S. Lossos, Joeseeph Rosenblatt, Jonathan H. Schatz, Michele Stanchina, Asaad Trabolsi, Juan Ramos, Craig Moskowitz, Robby Friedman, Keerthi Paladugu, Michelle Menard, Damian J. Green, Lazaros Lekakis

25 patients

60% 2° line  
44% primary refractory



### KEY INCLUSION CRITERIA:

- Age ≥18
- ELIGIBLE DIAGNOSES: DLBCL (NOS), PMBCL, TFL, HGBL, FL grade 3B
- DISEASE STATUS: ≥ 1 lines of therapy
- ECOG PS 0-2; CrCl ≥30, LVEF ≥45%, ANC ≥1000, Plt ≥75k, Hgb ≥8

### KEY EXCLUSION CRITERIA:

- ACTIVE CNS INVOLVEMENT. Prior CNS involvement allowed
- PRIOR CD19 CAR-T THERAPY

### PRIMARY ENDPOINT:

- CR at D90 post CAR-T infusion

### SECONDARY ENDPOINTS:

- OS, PFS, DOR
- Safety
- ctDNA for MRD



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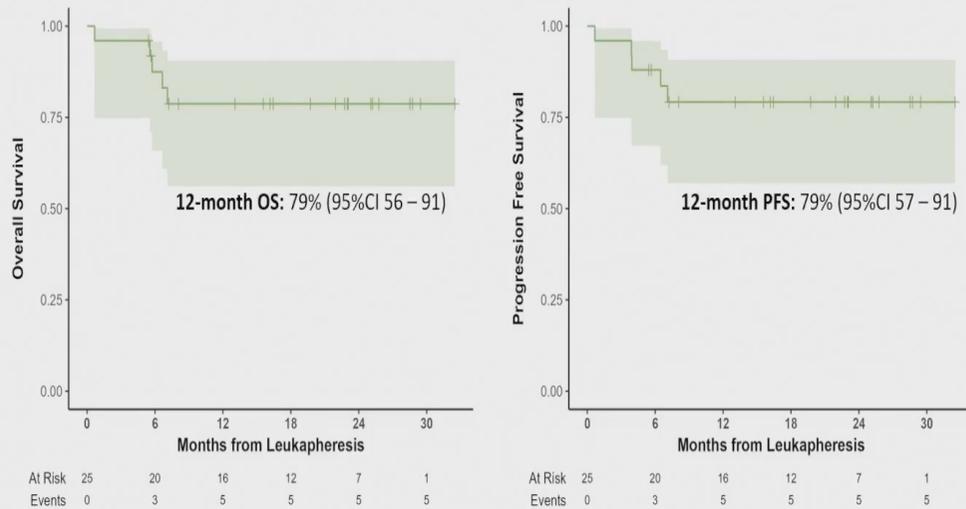
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## Mosun-Pola-Axi-cel Demonstrates High Durability



Median follow-up: 22.7 months



Data cutoff November 1, 2025

## Conclusions



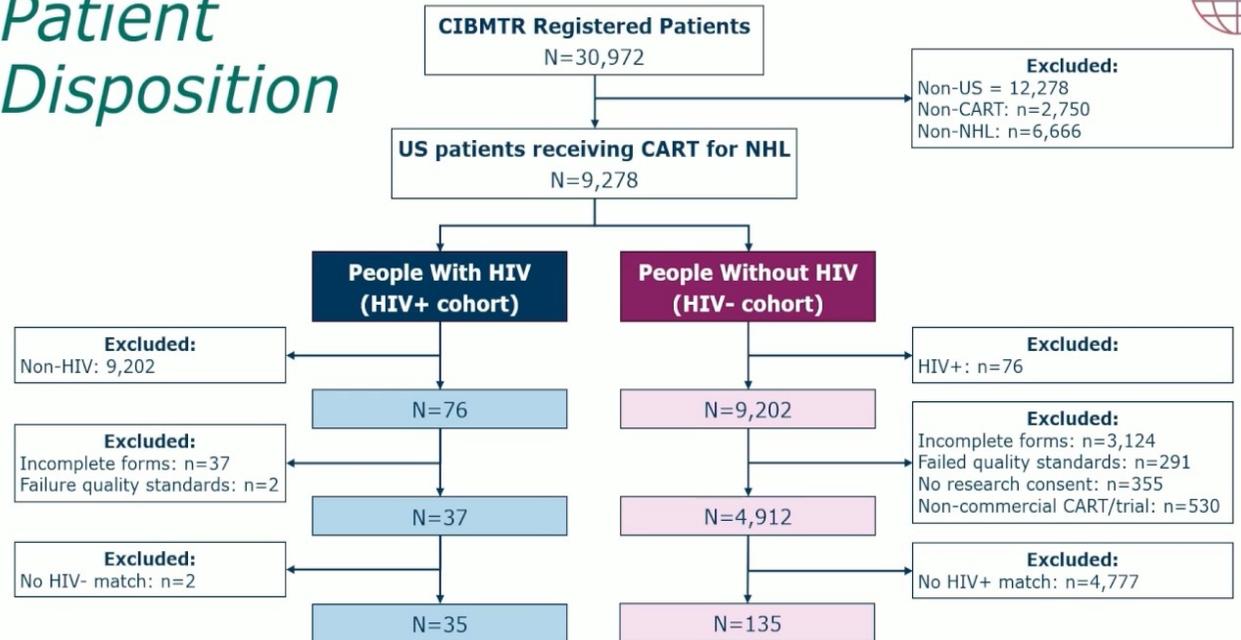
- Mosun-Pola-Axi-cel induced high response rates that are durable in 79% of patients at 1 year post axi-cel infusion
- Toxicities are consistent with prior studies of CAR-T therapies with potentially more prolonged neutropenia
- We plan to test this cohort in a randomized Phase II trial against SOC CAR-T approaches to better assess the efficacy of this combination



AMC-113: CD19-Directed CAR T-Cell Therapy for B-Cell Lymphoid Malignancies Is Safe and Effective in People Living with HIV (PWH) – A Matched Cohort Analysis by the Center for International Blood and Marrow Transplant Research (CIBMTR) and the AIDS Malignancy Consortium (AMC)

Stefan K. Barta, Ariela Noy, Kwang Woo Ahn, Jinalben Patel, Tiffany Hunt, Uroosa Ibrahim, Robert Biaoocchi, Deukwoon Kwon, Marcelo C. Pasquini, Richard F. Ambinder

# Patient Disposition





# Adverse Events – CRS and ICANS

CART-Associated Toxicities among patients with follow up (n=19)													
	All Grades, n (%)		G1, n (%)		G2, n (%)		G3, n (%)		G4, n (%)		G5, n (%)		P-value
	HIV+	HIV-	HIV+	HIV-	HIV+	HIV-	HIV+	HIV-	HIV+	HIV-	HIV+	HIV-	
<b>Cytokine Release Syndrome (CRS)</b>	24 (69)	111(82)	17 (49)	70 (52)	5 (14)	36 (27)	0 (0)	3 (2)	0 (0)	1 (1)	<b>2 (6)*</b>	0 (0)	<b>0.04</b>
Median time to onset, median (range):	<b>HIV+:</b> 5 days (1-10);				<b>HIV-:</b> 5 days (1-354)								0.12
Median time to resolution, median (range):	<b>HIV+:</b> 4 days (1-13);				<b>HIV-:</b> 5 days (1-22)								0.51
<b>Immune Effector Cell-Associated Neurotoxicity Syndrome (ICANS)</b>	8 (22)	60 (44)	0 (0)	16 (12)	1 (3)	12 (9)	3 (9)	19 (14)	3 (9)	5 (4)	0 (0)	2 (2)	<b>0.17</b>
Median time to onset, median (range):	<b>HIV+:</b> 8 days (4-11);				<b>HIV-:</b> 7 days (2-20)								0.82
Median time to resolution, median (range):	<b>HIV+:</b> 7 days (4-11);				<b>HIV-:</b> 4 days (1-27)								

\* Concurrent G5 bacterial sepsis, n=1, and PD n=1



## Adverse Events – Infections & Hematologic



### Infections by 100 days

	HIV+	HIV-	P-value
Bacterial infection, n(%)	10 (29)	14 (10)	<0.01
Fungal infection, n(%)	2 (6)	1 (1)	0.05
Viral infection, n(%)	6 (17)	26 (19)	0.78
Parasitic infection, n(%)	0 (0)	0 (0)	N/A
Other specified infection, n(%)	2 (6)	6 (4)	0.75

### Hematological Toxicity

	HIV+	HIV-	P-value
Neutrophil recovery, n(%)	29 (83)	106 (79)	0.39
ANC ≥ 500/mm <sup>3</sup> x3			
@100 days, % (95%CI)	91 (78-99)	96 (92-99)	0.39
Platelet recovery, n(%)	27 (77)	122 (91)	0.13
≥ 20 × 10 <sup>9</sup> /L			
@100 days, % (95%CI)	77 (61-90)	91 (85-95)	0.06

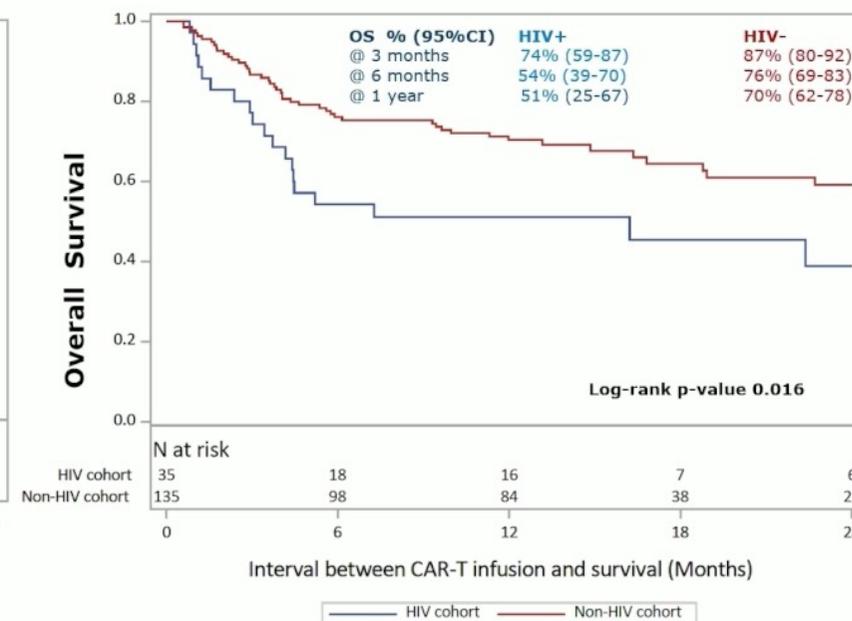
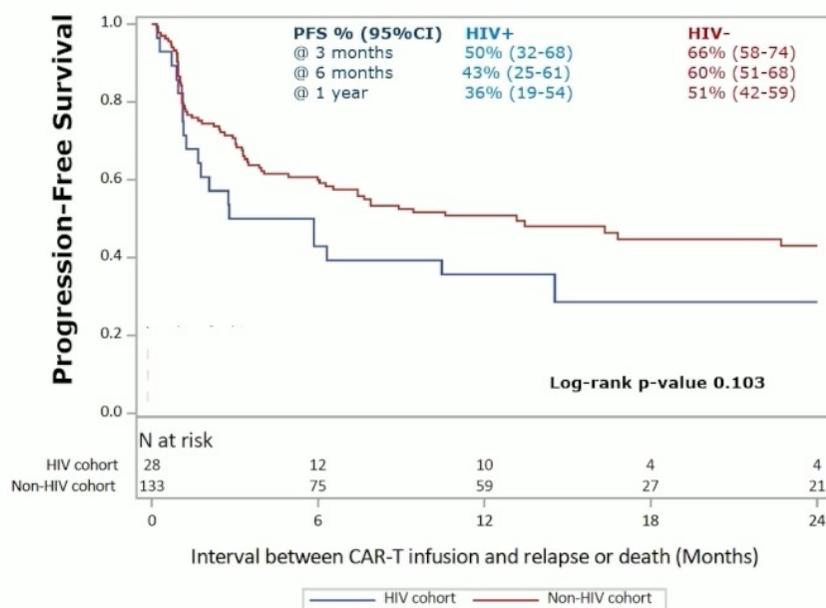
## Efficacy – Response

### Response Rate

	HIV+	HIV-	P-value
<b>Best Response @ 100 days, n(%)</b>			<b>0.003</b>
CR	11 (32)	75 (56)	
PR	3 (9)	14 (10)	
SD	2 (6)	6 (4)	
PD	16 (46)	32 (24)	
Dead	2 (6)	4 (3)	
Not assessed	1 (3)	4 (3)	
<b>Best Response @ 6 months, n(%)</b>			<b>0.003</b>
CR	12 (34)	78 (58)	
PR	2 (6)	13 (10)	
SD	2 (6)	7 (5)	
PD	16 (46)	31 (23)	
Dead	3 (9)	4 (3)	
Not assessed	0 (0)	2 (2)	
<b>Best Response @ 1 year, n(%)</b>			<b>0.003</b>
CR	12 (34)	80 (59)	
PR	2 (6)	13 (10)	
SD	2 (6)	5 (4)	
PD	16 (46)	33 (24)	
Dead	3 (9)	4 (3)	



# Outcomes - Survival





## Summary and Conclusions

- **CART19 therapy was safely administered** in this large prospective cohort of **PWH** with **28.3% alive and in remission at 2 years** from therapy.
- Compared to a matched HIV- cohort, toxicities were mostly similar except for **less CRS but more infections in PWH**.
- The **lower OS for PWH was driven by worse lymphoma-control** rather than NRM, with lower response rates and a higher incidence of relapse.
- Possible explanations for this observed difference may include a more aggressive lymphoma behavior in PWH, a less potent CART product, or differences in bridging therapy, LD chemo and patient demographics.
- Notably, the HIV+ cohort contained a larger % of Black patients who are commonly underrepresented in clinical trials and may represent a clinically distinct entity with worse outcomes.<sup>1</sup>
- AMC-112 is currently enrolling onto a prospective CART19 study (NCT05077527)

1) Lee MJ, et al. *Cancer* 2020



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## OUTLINE

PMBCL (anti PD1 therapy)



Flow chart



**Excellent Outcomes with Anti-PD1 Therapy in Relapsed/Refractory Primary Mediastinal Large B-Cell Lymphoma: Real-World Data from the LYSA group (PMBL-SIGN study)**

Loïc Renaud<sup>1</sup>, Florian Chevillon<sup>2</sup>, Emilie Lévêque<sup>3</sup>, Arnaud Pages<sup>3</sup>, Justine Decroocq<sup>4</sup>, Robin Noel<sup>4</sup>, Eric Durot<sup>5</sup>, Denis Coulomb<sup>6</sup>, Charles Herbaux<sup>6</sup>, Fabien Claves<sup>7</sup>, Hiba Ghannoum<sup>7</sup>, Jean Galtier<sup>8</sup>, Cedric Rossi<sup>9</sup>, Doriane Cavallieri<sup>10</sup>, Arnaud Campidelli<sup>10</sup>, Roch Houot<sup>11</sup>, Jerome Cornillon<sup>11</sup>, Maya Belhadj<sup>11</sup>, François Lemonnier<sup>11</sup>, Antoine Bonnet<sup>12</sup>, Pierre Sesques<sup>12</sup>, **Vincent Camus<sup>13</sup>**.

(1) Gustave Roussy Cancer Campus, Villejuif, France; (2) AP-HP, Hôpitaux Universitaires Paris Nord, Paris, France; (3) Centre Henri Becquerel, Rouen, France; (4) Institut Paoli-Calmettes, Marseille, France; (5) CHU de Reims, Reims, France; (6) CHU de Montpellier, Montpellier, France; (7) CHU Grenoble Alpes, Grenoble, France; (8) CHU Bordeaux, Bordeaux, France; (9) CHU Dijon, Dijon, France; (10) CHU de Lille, Lille, France; (11) CHRU de Nancy, Nancy, France; (12) CHU de Rennes, Rennes, France; (13) CHU de Saint-Étienne, Saint-Étienne, France; (14) CHU de La Réunion, La Réunion, France; (15) Hôpital Henri Mondor, Lymphoid Hematology Department, AP-HP, Créteil, France; (16) Centre Hospitalier Bretagne Atlantique, Vannes, France; (17) Hôpital Lyon Sud, Hospices Civils de Lyon, Pierre-Bénite, France.

Abstract Number 1019. Session 629. Aggressive Lymphomas, Immunotherapy Including Bispecific Antibodies: Improving Outcomes in Rare Large Cell Lymphomas; December 4

R/R PMBL treated with anti-PD1 in 20 LYSA-affiliated centers  
N = 100

**Anti-PD1  
Monotherapy  
(n = 39)**

**Anti-PD1 in  
combination  
with BV  
(n = 52)**

**Anti-PD1 and other  
combination than BV  
(n = 9)**

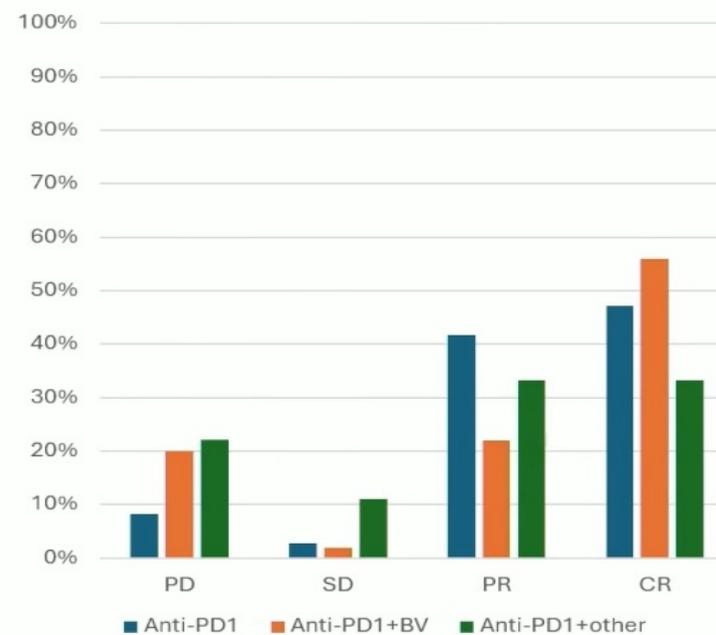
BV: brentuximab-vedotin

Renaud L, ..., Camus V, ASH 2025



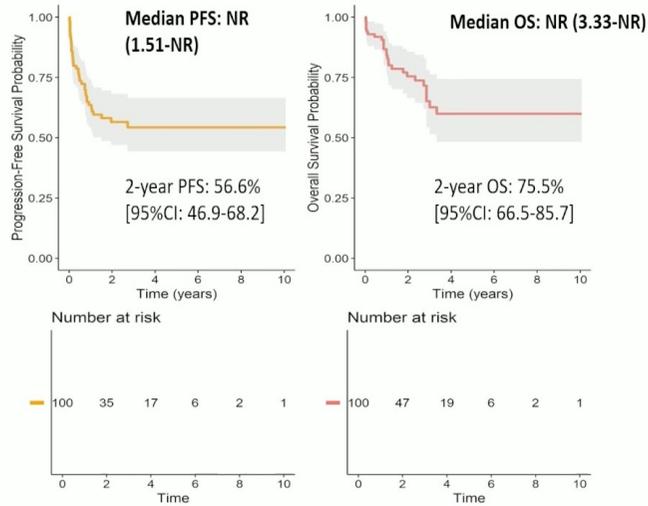
## Response rates

Outcome	Anti-PD1 single-agent	Anti-PD1 + Brentuximab- vedotin	Anti-PD1 + other agents
Patients evaluated (N)	36	50	9
<b>Best response</b>			
– PD	3 (8.3%)	10 (20%)	2 (22.2%)
– SD	1 (2.8%)	1 (2%)	1 (11.1%)
– PR	15 (41.7%)	11 (22%)	3 (33.3%)
– CR	17 (47.2%)	28 (56%)	3 (33.3%)
<b>Time to best response (months)</b>			
Median [Q1– Q3]	2.9 [2–6]	2.2 [1–3]	2.9 [1–3]





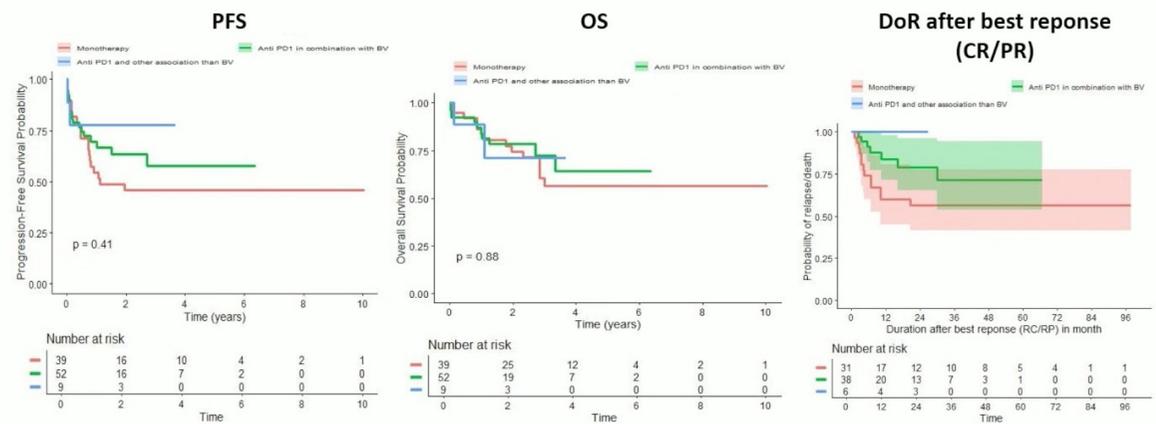
Outcomes



Follow up time (IQR) : 31.8 (11.93;51.75) months

Renaud L, ..., Camus V, ASH 2025

Outcomes according to treatment



Follow up time (IQR) : 31.8 (11.93;51.75) months

Renaud L, ..., Camus V, ASH 2025



## Anti-PD1 treatment discontinuations

### Anti-PD1 Monotherapy (n = 39)

Reasons for discontinuation of anti-PD1	
Planned number of cycles reached	36 (38.3%)
CR	7 ( 7.4%)
Progression	23 (24.5%)
<b>Toxicity</b>	<b>6 ( 6.4%)</b>
Patient's decision	1 ( 1.1%)
other reason : mainly go to consolidation with CAR-T or RT or ASCT	21 (22.3%)

### Anti-PD1 in combination with BV (n = 52)

Reasons for discontinuation of Bv	
Planned number of cycles reached	23 (44.2%)
CR	3 ( 5.8%)
Progression	8 (15.4%)
<b>Toxicity</b>	<b>5 ( 9.6%)</b>
Patient's decision	1 ( 1.9%)
other reason : mainly go to consolidation with CAR-T or RT or ASCT	12 (23.1%)



## Conclusions

- Anti-PD-1 therapy, either as a single agent or in combination with BV, shows **high efficacy** and durable responses in R/R PMBL in **real-world settings** in France with no new safety signal.
- **2-year OS: 75.5%** and **2-year PFS: 56.6%** confirm a clinically meaningful benefit beyond what has been shown in clinical trials.
- **Patients achieving CR (~51%) did so quickly (median : 3 months) and had a favorable prognosis (relapse and death rates: 6%).**
- **CNS-IPI** is the **strongest independent prognostic factor** for both OS and PFS.
- Further work is **ongoing to identify** patients who may truly benefit from **post-anti-PD1 consolidation** (CAR-T cells, radiotherapy, SCT) and to elucidate the underlying **biological factors driving anti-PD1 response**.
- **Results confirm a favorable benefit-risk profile for the routine use of CPIs in R/R PMBL.**



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## OUTLINE

- Malattia di Waldenstrom



**Pirtobrutinib in Relapsed/Refractory (R/R) Waldenström Macroglobulinemia (WM): Up to 5 Years of Follow-Up From the Phase 1/2 BRUIN Study**

Chen Y, Cheah J<sup>1</sup>, Manish R, Patel<sup>2</sup>, Toby A, Eyma<sup>3</sup>, Wojciech J, Jurczak<sup>4</sup>, David Lewis<sup>5</sup>, Thomas Gastinne<sup>6</sup>, Shuo Ma<sup>7</sup>, Jonathan B. Cohen<sup>8</sup>, Kish Patel<sup>9</sup>, Jennifer R. Brown<sup>10</sup>, Lydia Scarfo<sup>11,12</sup>, Talha Munir<sup>13</sup>, Ewa Lech-Maranda<sup>14</sup>, Marc S. Hoffmann<sup>15</sup>, Chaitra Ujjani<sup>16</sup>, Bita Fakhr<sup>17</sup>, Michael Wang<sup>18</sup>, Koji Izutsu<sup>19</sup>, Hirokazu Nagai<sup>20</sup>, Constantine S. Tam<sup>21</sup>, Joanna M. Rhodes<sup>22</sup>, Julie Vose<sup>23</sup>, Matthew McKinney<sup>24</sup>, James N. Gerson<sup>25</sup>, Minal A. Barve<sup>26</sup>, Bryone J. Kuss<sup>27</sup>, Youngil Koh<sup>28</sup>, Aisling Barrett<sup>29</sup>, Steven P. Treon<sup>30</sup>, Jorge J. Castillo<sup>31</sup>, John F. Seymour<sup>32</sup>, Amy S. Ruppert<sup>33</sup>, Samuel C. McNeely<sup>34</sup>, Richard A. Waijgren<sup>35</sup>, Donald E. Tsai<sup>36</sup>, Katherine Bao<sup>37</sup>, Binoj Nair<sup>38</sup>, Jennifer Woyach<sup>39</sup>, M. Lia Falomba<sup>40</sup>

<sup>1</sup>Linear Clinical Research, Sir Charles Gairdner Hospital and University of Western Australia, Perth, Australia; <sup>2</sup>Florida Cancer Specialists/Ramah Cannon Research Institute, Sarasota, USA; <sup>3</sup>Oxford University Hospitals NHS Foundation Trust, Christchurch Cancer Centre, Oxford, UK; <sup>4</sup>Warszawskie Centrum Badań i Kliniki Hematologii i Onkologii, Kraków, Poland; <sup>5</sup>University Hospitals Plymouth NHS, Plymouth, UK; <sup>6</sup>Centre Hospitalier Universitaire de Nantes, Nantes, France; <sup>7</sup>Robert H. Lurie Comprehensive Cancer Center of Northwestern University, Chicago, USA; <sup>8</sup>Wingspan Cancer Institute, Emory University, Atlanta, USA; <sup>9</sup>Swedish Cancer Institute, Seattle, USA; <sup>10</sup>Ramath Cancer Research Institute, Nashville, USA; <sup>11</sup>Dana-Farber Cancer Institute, Harvard Medical School, Boston, USA; <sup>12</sup>Università Vita-Salute San Raffaele, Milano, Italy; <sup>13</sup>IRCCS Ospedale San Raffaele, Milano, Italy; <sup>14</sup>James's University Hospital, Leeds, UK; <sup>15</sup>Division of Hematology and Transfusion Medicine, Warsaw Poland; <sup>16</sup>The University of Kansas Cancer Center, Kansas City, USA; <sup>17</sup>Fred Hutchinson Cancer Research Center, Seattle, USA; <sup>18</sup>Stanford University School of Medicine, Stanford, USA; <sup>19</sup>UT MD Anderson Cancer Center, Houston, USA; <sup>20</sup>National Cancer Center Hospital, Tokyo, Japan; <sup>21</sup>National Hospital Organization Nagoya Medical Center, Aichi, Japan; <sup>22</sup>Fakher Hospital and Monash University, Melbourne, Australia; <sup>23</sup>Rutgers Cancer Institute, New Brunswick, USA; <sup>24</sup>University of Nebraska Medical Center, Omaha, USA; <sup>25</sup>Duke Cancer Institute, Durham, USA; <sup>26</sup>University of Vermont Larner College of Medicine, Burlington, USA; <sup>27</sup>Mayo Crosby Cancer Research, Dallas, USA; <sup>28</sup>Princess Alexandra Medical Centre, South Australia, Australia; <sup>29</sup>Seoul National University Hospital, Seoul, Korea; <sup>30</sup>Bing Center for Waldenström Macroglobulinemia, Dana-Farber Cancer Institute, Harvard Medical School, Boston, USA; <sup>31</sup>Royal Melbourne Hospital, Peter MacCallum Cancer Centre and University of Melbourne, Melbourne, Australia; <sup>32</sup>ELI Lilly and Company, Indianapolis, USA; <sup>33</sup>Royal Melbourne Hospital, Peter MacCallum Cancer Centre and University of Melbourne, Melbourne, Australia; <sup>34</sup>ELI Lilly and Company, Indianapolis, USA; <sup>35</sup>The Ohio State University Comprehensive Cancer Center, Columbus, USA; <sup>36</sup>Memorial Sloan Kettering Cancer Center, New York, USA

Sponsored by Eli Lilly and Company

**Efficacy in Patients with WM Treated with Pirtobrutinib**

**Response Rates**

Response Evaluable in Patients With WM	All Patients (N=80)	Prior cBTKi (n=63)	cBTKi Naïve (n=17)
CR + VGPR rate, <sup>a</sup> % (95% CI)	27.5 (18.1, 38.6)	25.4 (15.3, 37.9)	35.3 (14.2, 61.7)
Major response rate, <sup>b</sup> % (95% CI)	72.5 (61.4, 81.9)	68.3 (55.3, 79.4)	88.2 (63.6, 98.5)
ORR <sup>c</sup> , n (%)	66 (82.5)	51 (81.0)	15 (88.2)
Best response, n (%)			
CR	1 (1.3)	1 (1.6)	0
VGPR	21 (26.3)	15 (23.8)	6 (35.3)
PR	36 (45.0)	27 (42.9)	9 (52.9)
MR	8 (10.0)	8 (12.7)	0
SD	11 (13.8)	9 (14.3)	2 (11.8)
PD	3 (3.8)	3 (4.8)	0

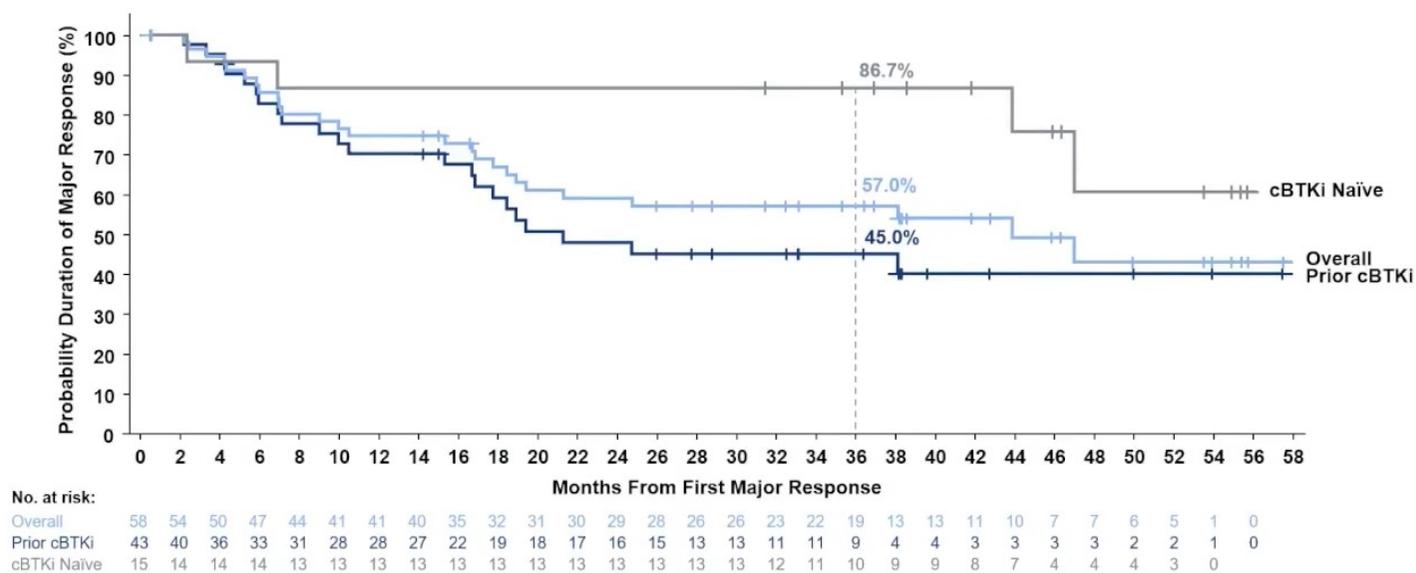
**Median study follow-up: 35.0 months (range, 2.7-62.9)**

<sup>a</sup>The CR/VGPR rate in patients who previously discontinued cBTKi due to progressive disease was 22.0% (9/41). <sup>b</sup>Major response includes patients with a best response of CR, VGPR, or PR. <sup>c</sup>Includes patients with a best response of CR, VGPR, PR or MR.

Note: Response as assessed by investigator based on Modified IWWM6 (Owen's) criteria. Under modified IWWM6 criteria, a PR is upgraded to VGPR if corresponding IgM is in normal range or has at least 90% reduction from baseline. Abbreviations: BTKi, Bruton tyrosine kinase inhibitor; cBTKi, covalent BTKi; CI, confidence interval; CR, complete response; IWWM6, International Workshop on Waldenström's Macroglobulinemia; MR, minor response; ORR, overall response rate; PD, progressive disease; PR, partial response; SD, stable disease; VGPR, very good partial response; WM, Waldenström macroglobulinemia.



## Duration of Major Response in Patients with WM Treated with Pirtobrutinib

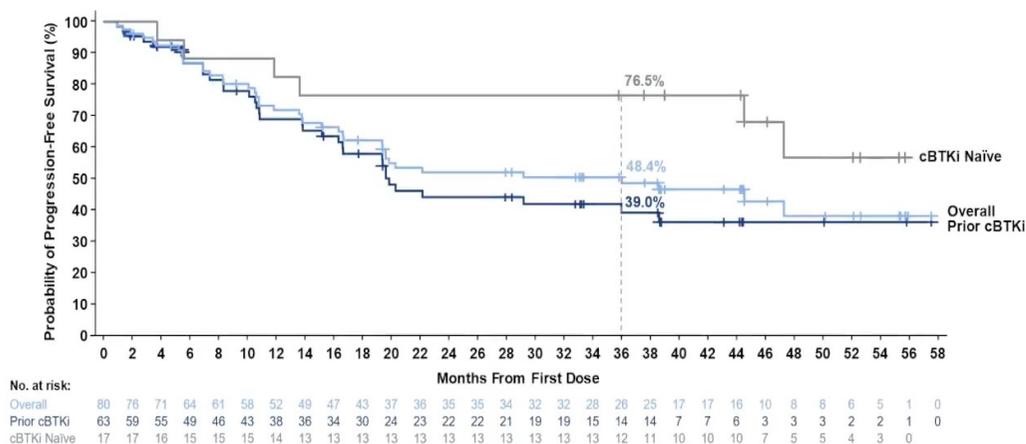


The median DOR (95% CI) was:

- 42.3 months (17.9, NE) in all patients with WM (Events/total: 26/58)
- 20.3 months (15.8, NE) in patients with prior cBTKi therapy (Events/total: 22/43)
- NR (42.3, NE) in cBTKi-naïve patients (Events/total: 4/15)



### Progression-Free Survival<sup>a</sup> in Patients with WM

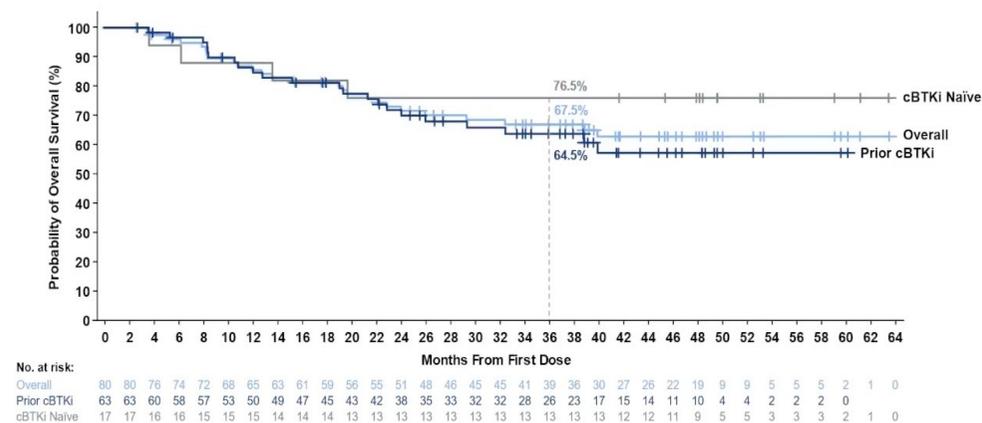


**The median PFS (95% CI) was:**

- 35.9 months (19.3, NE) in all patients with major response (Events/total: 40/80)
- 19.6 months (15.1, 38.5) in patients with prior cBTKi therapy (Events/total: 34/63)
- NR (13.6, NE) in cBTKi-naïve patients (Events/total: 6/17)

<sup>a</sup>Investigator-assessed.  
 Abbreviations: cBTKi, covalent Bruton tyrosine kinase inhibitor; CI, confidence interval; mPFS, median PFS; NE, not estimable; NR, not reached; PD, progressive disease; PFS, progression-free survival; Tx, toxicity; WM, Waldenström macroglobulinemia.

### Overall Survival in Patients with WM Treated with Pirtobrutinib



**The median OS (95% CI) was:**

- NR (NE, NE) in all patients with major response (Events/total: 26/80)
- NR (38.5, NE) in patients with prior cBTKi therapy (Events/total: 22/63)
- NR (19.6, NE) in cBTKi-naïve patients (Events/total: 4/17)

Abbreviations: cBTKi, covalent Bruton tyrosine kinase inhibitor; CI, confidence interval; mOS, median OS; NE, not estimable; NR, not reached; OS, overall survival; WM, Waldenström macroglobulinemia.



## Conclusions

- These extended 5-year follow-up results demonstrate durable benefit of pirtobrutinib in patients with WM, including in patients previously exposed to cBTKi therapy, addressing a key unmet need
  - With more mature follow-up, the 36-month DOR and OS rates were 57.0% and 67.5%, respectively, in all patients with WM
  - Pirtobrutinib was also active in high-risk patients with either *CXCR4* mutations or *MYD88*-WT disease
  - The depth of response observed, as demonstrated by over 25% of patients achieving a CR+VGPR, is noteworthy in the subset of patients who received prior cBTKi therapy
- The safety profile remained in line with previous findings<sup>1</sup>, with low rates of treatment discontinuation and dose reduction due to treatment-related adverse events, and low rates of atrial fibrillation, with longer follow-up
- Pirtobrutinib may provide a valuable therapeutic option for patients with WM who have limited options after cBTKi therapy

1. Palomba ML, et al. *Blood*. 2022;140(S1):557-560.

Abbreviations: cBTKi, covalent Bruton tyrosine kinase inhibitor; CR, complete response; *CXCR4*, C-X-C chemokine receptor type 4; DOR, duration of response; *MYD88*, myeloid differentiation primary response gene 88; OS, overall survival; VGPR, very good partial response; WM, Waldenström macroglobulinemia; WT, wild-type.

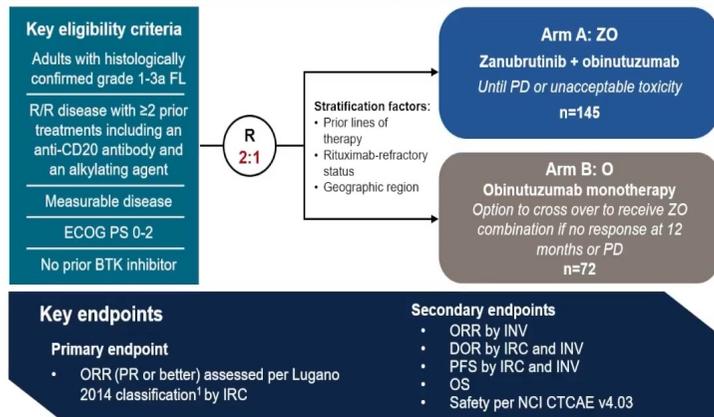


## Final Analysis of the Randomized Phase 2 ROSEWOOD Study of Zanubrutinib + Obinutuzumab vs Obinutuzumab Monotherapy in Patients With Relapsed/Refractory Follicular Lymphoma

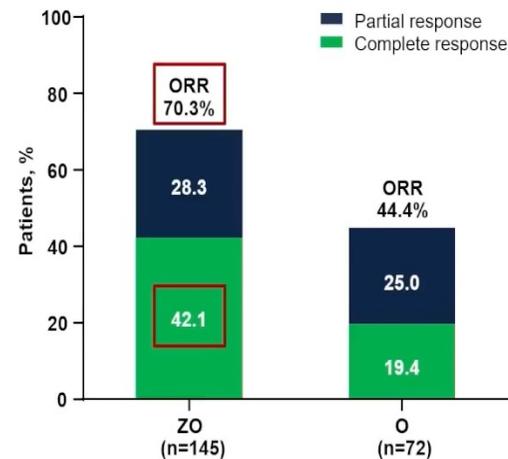
Pier Luigi Zinzani,<sup>1</sup> Jiří Mayer,<sup>2</sup> Christopher R. Flowers,<sup>3</sup> Fontanet Bijou,<sup>4</sup> Ana C. De Oliveira,<sup>5</sup> Yuqin Song,<sup>6</sup> Qingyuan Zhang,<sup>7</sup> Marco Brociner,<sup>8</sup> Krmo Bouabdallah,<sup>9</sup> Peter S. Ganly,<sup>10</sup> Huilai Zhang,<sup>11</sup> Sam Yuen,<sup>12</sup> Marek Trněný,<sup>13</sup> Rebecca Auer,<sup>14</sup> Sha Huang,<sup>15</sup> Jiayi Shen,<sup>16</sup> Jamie Hirata,<sup>16</sup> Judith Trotman<sup>17</sup>

<sup>1</sup>Institute of Hematology "Seràgnoli," University of Bologna, Bologna, Italy; <sup>2</sup>Masaryk University and University Hospital, Brno, Czech Republic; <sup>3</sup>The University of Texas MD Anderson Cancer Center, Houston, TX, USA; <sup>4</sup>Institut Bergonié, Bordeaux, France; <sup>5</sup>Institut Català d'Oncologia (ICO) - Hospital Duran i Reynals, Barcelona, Spain; <sup>6</sup>Peking University Cancer Hospital and Institute, Beijing, China; <sup>7</sup>Harbin Medical University Cancer Hospital, Harbin, China; <sup>8</sup>Hematology, University Hospital "Ospedale di Circolo e Fondazione Macchi" - ASST Sette Laghi, University of Insubria, Varese, Italy; <sup>9</sup>Hôpital Haut-Lévêque, CHU Bordeaux, Pessac, France; <sup>10</sup>Department of Haematology, Christchurch Hospital, Christchurch, New Zealand; <sup>11</sup>Tianjin Medical University Cancer Institute & Hospital, Tianjin, China; <sup>12</sup>Calvary Mater Newcastle, Waratah, NSW, Australia; <sup>13</sup>Charles University, General Hospital, Prague, Czech Republic; <sup>14</sup>St Bartholomew's Hospital, Barts Health NHS Trust, London, UK; <sup>15</sup>BeOne Medicines, Ltd, Shanghai, China; <sup>16</sup>BeOne Medicines, Ltd, San Carlos, CA, USA; <sup>17</sup>Department of Hematology, Concord Repatriation General Hospital, Sydney, NSW, Australia

### ROSEWOOD: A Global, Randomized, Open-Label, Phase 2 Study



### ORR per IRC With ZO Was Higher Compared With O



	ZO (n=145)	O (n=72)
<b>Overall response rate, n (%)</b>	102 (70.3)	32 (44.4)
95% CI	62.2-77.6	32.7-56.6
Risk difference (95% CI), %	25.5 (11.8-39.3)	
2-sided P value <sup>a</sup>	.0003	
<b>Complete response rate, n (%)</b>	61 (42.1)	14 (19.4)
95% CI	33.9-50.5	11.1-30.5
2-sided P value <sup>a</sup>	.0009	
<b>Other responses, n (%)</b>		
Stable disease	21 (14.5)	14 (19.4)
Indeterminate due to zanubrutinib hold	1 (0.7)	0
Non-progressive disease <sup>b</sup>	6 (4.1)	9 (12.5)
Progressive disease	13 (9.0)	16 (22.2)
Discontinued prior to first assessment/NE	2 (1.4)	1 (1.4)

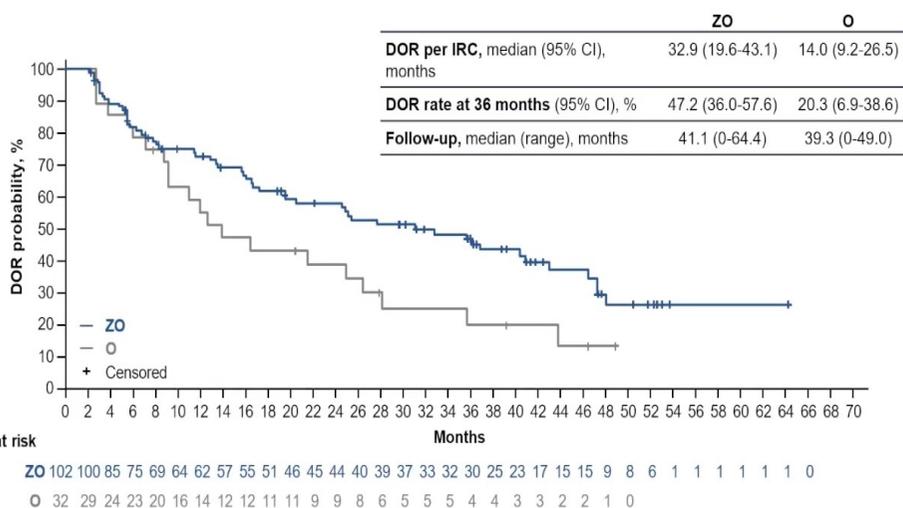
- ORRs per INV were similar to ORRs per IRC (ZO, 68.3%; O, 43.1%)

<sup>a</sup>P value is descriptive. <sup>b</sup>Defined as PET assessment missing or not evaluable, and CT assessment showed no progressive disease. CT, computed tomography; INV, investigator; IRC, independent review committee; O, obinutuzumab; ORR, overall response rate; PET, positron emission tomography; ZO, zanubrutinib + obinutuzumab.

BTK, Bruton tyrosine kinase; CD, cluster of differentiation; DOR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; FL, follicular lymphoma; INV, investigator; IRC, independent review committee; NCI CTCAE, National Cancer Institute Common Terminology Criteria for Adverse Events; O, obinutuzumab; ORR, overall response rate; OS, overall survival; PD, progressive disease; PFS, progression-free survival; PR, partial response; R, randomized; R/R, relapsed/refractory; ZO, zanubrutinib + obinutuzumab. 1. Cheson BD, et al. *J Clin Oncol*. 2014;32(27):3059-3068.

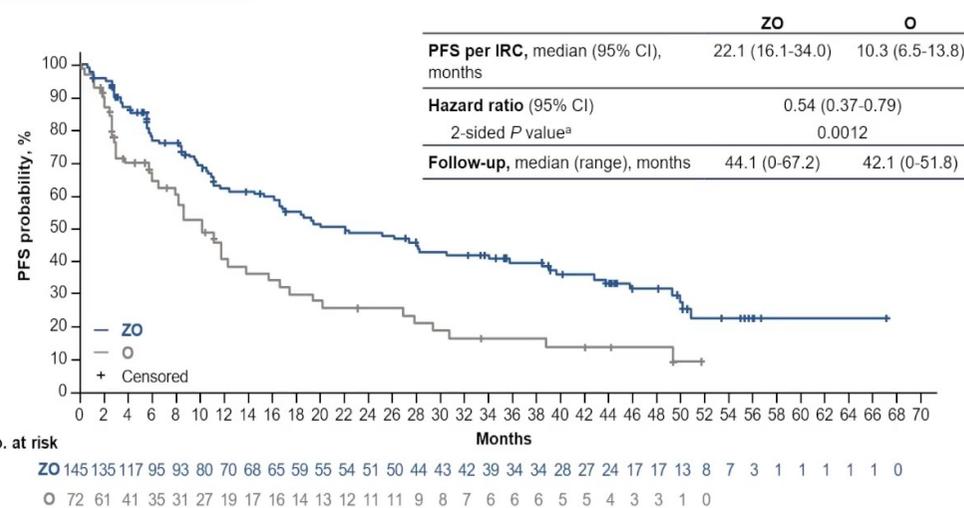


### Duration of Response Was Longer in the ZO Arm



DOR, duration of response; IRC, independent review committee; O, obinutuzumab; ZO, zanubrutinib + obinutuzumab.

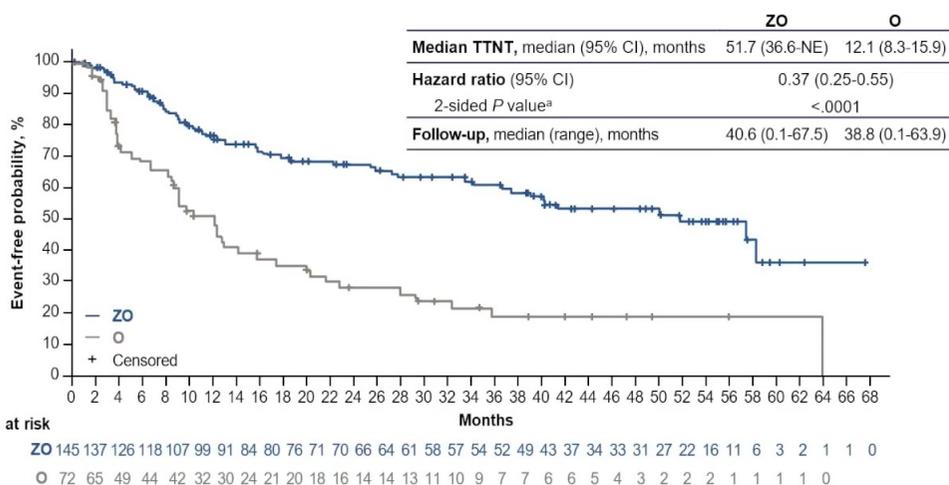
### PFS per IRC Was Longer in the ZO Arm



<sup>a</sup>P value is descriptive.  
 IRC, independent review committee; O, obinutuzumab; PFS, progression-free survival; ZO, zanubrutinib + obinutuzumab.

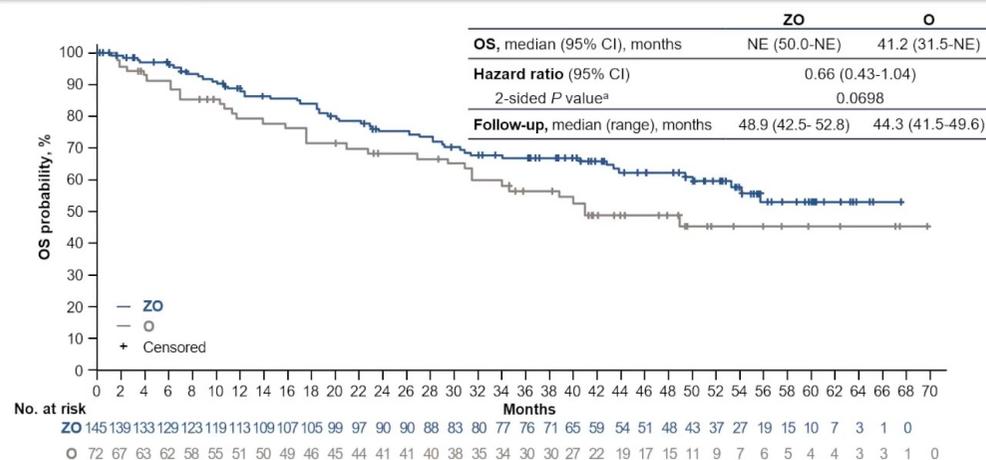


## Time to New Anticancer Therapy Was Longer in the ZO Arm vs the O Arm



<sup>a</sup>P value is descriptive.  
TTNT, time to new anticancer therapy or crossover; NE, not estimable; O, obinutuzumab; ZO, zanubrutinib + obinutuzumab.

## Overall Survival



<sup>a</sup>P value is descriptive.  
NE, not estimable; O, obinutuzumab; OS, overall survival; ZO, zanubrutinib + obinutuzumab.



## Final Analysis of ROSEWOOD: Conclusions

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- The favorable risk-benefit profile of ZO in heavily pretreated patients with R/R FL was sustained
- Compared with O monotherapy, combination treatment with ZO demonstrated substantially
  - higher ORR and CR rate
  - longer DOR and PFS
- ZO had a manageable, consistent safety profile, with no new safety signals
- With a long median follow-up (34.6 months), these data support the potential benefit of ZO as a novel combination therapy for patients with R/R FL
- To further evaluate ZO in patients with R/R FL with  $\geq 1$  prior line of therapy, the phase 3 MAHOGANY study (NCT05100862) comparing ZO vs lenalidomide + rituximab is ongoing



POST-ORLANDO 2025  
Novità dal Meeting della Società Americana di Ematologia

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della Società Americana  
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Torino, 19-21 Febbraio 2026

**GRAZIE PER L'ATTENZIONE**