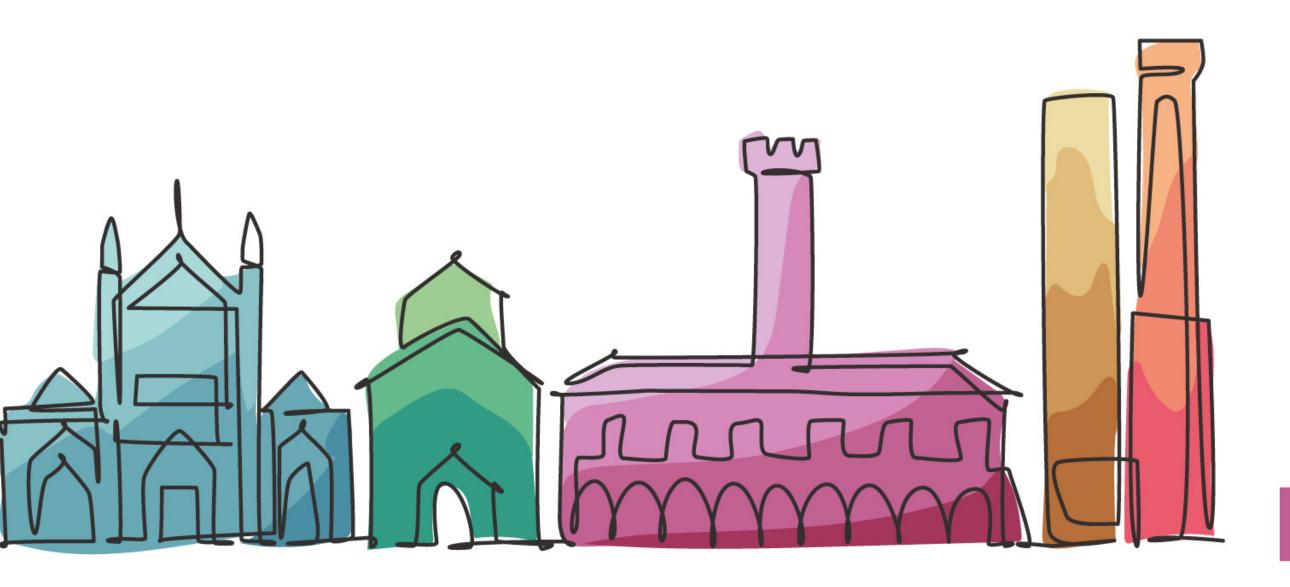
PRECEPTORSHIP



Un confronto sulla gestione delle malattie linfoproliferative al Sant'Orsola di Bologna

Bologna, NH DE LA GARE, 18 settembre 2025

Malattia di Waldenström e il Linfoma della Zona Marginale...dietro l'angolo

Beatrice Casadei IRCSS, AOU di Bologna



Disclosures of Beatrice Casadei

Company name	Research support	Employee	Consultant	Stockholder	Speakers bureau	Advisory board	Other
Kite-Gilead					x	x	
Novartis					x		
Celgene-BMS						x	
Abbvie					x	x	
Janssen					x	x	
Lilly					x		
Beigene						x	
Roche					x	x	
Incyte					x		
Takeda						X	



Waldenstrom Macroglobulinemia, around the corner....

Treatment Naive

	BTKi	BCL2i	
	BR+Acala	Ven+R	
Combo	BR+Zanu	Ven+R vs Ibru+R	
	Zanu+Sonrotoclax	Ven+R vs DRC	

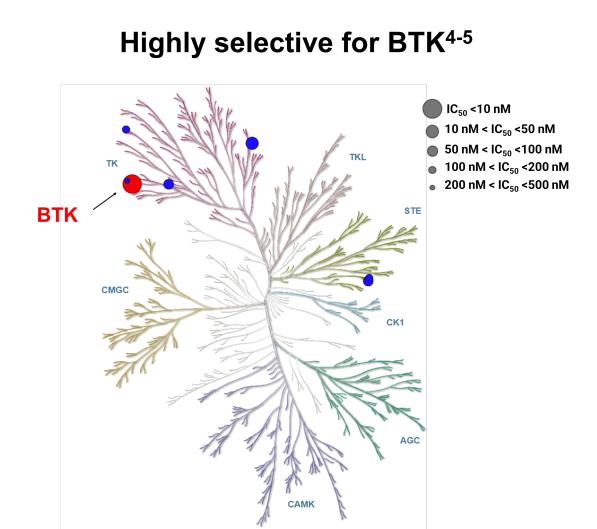
Ongoing or completed but data missing

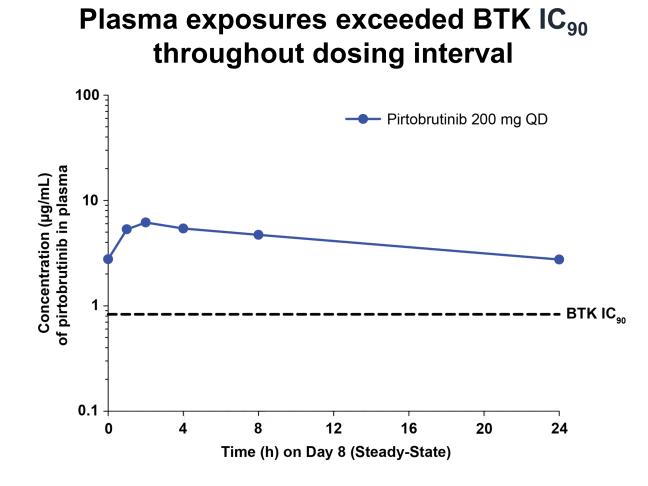
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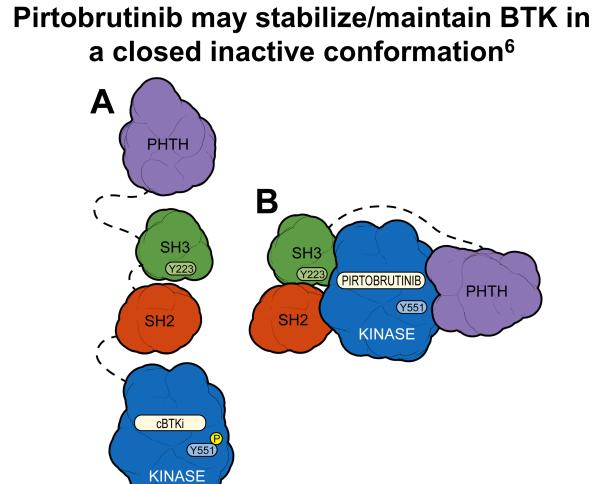
	BTKi	BTK degrader	BCL2i	ADC	BsAbs
		BGB-16673			
Single Agent	Pirtobrutinib	NX-5948 ABBV-101	Sonrotoclax	Lonca	Epco
Combo	Pirto+Ven	\	Zanu+Sonrot	\	\



RR Waldenstrom Macroglobulinemia: Pirtobrutinib (ncBTKi)



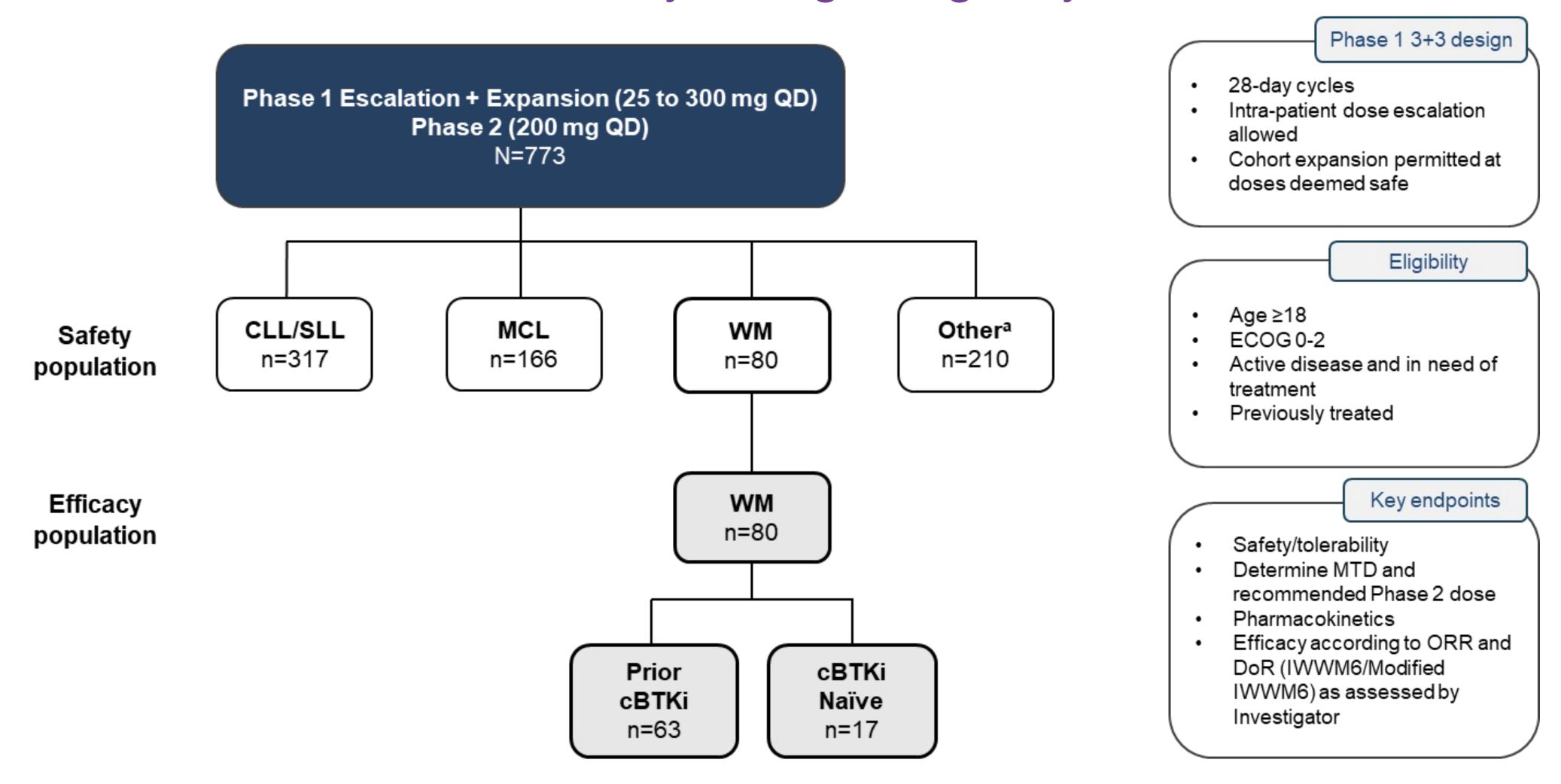




- Inhibits both WT and C481-mutant BTK with equal low nM potency⁶
- Steady state plasma exposure corresponding to 96% BTK target inhibition and a half-life of about 20 hours⁶
- In contrast to cBTKi (A), pirtobrutinib (B) appears to stabilize BTK in a closed, inactive conformation, blocking access to upstream kinases and phosphorylation of Y551, thus inhibiting scaffolding interactions that support kinase-independent BTK signaling⁶



Phase 1/2 BRUIN Study: Design, Eligibility and Enrollment



cBTKi=covalent Bruton tyrosine kinase inhibitor. Data cutoff date of 29 July 2022. aOther includes DLBCL, Richter transformation, FL, MZL, B-PLL, Hairy Cell Leukemia, PCNSL, and other transformation. Data from Palomba ML, et al. Presented at ASH Annual Meeting 2022. Abstract 229.



WM Patient Characteristics

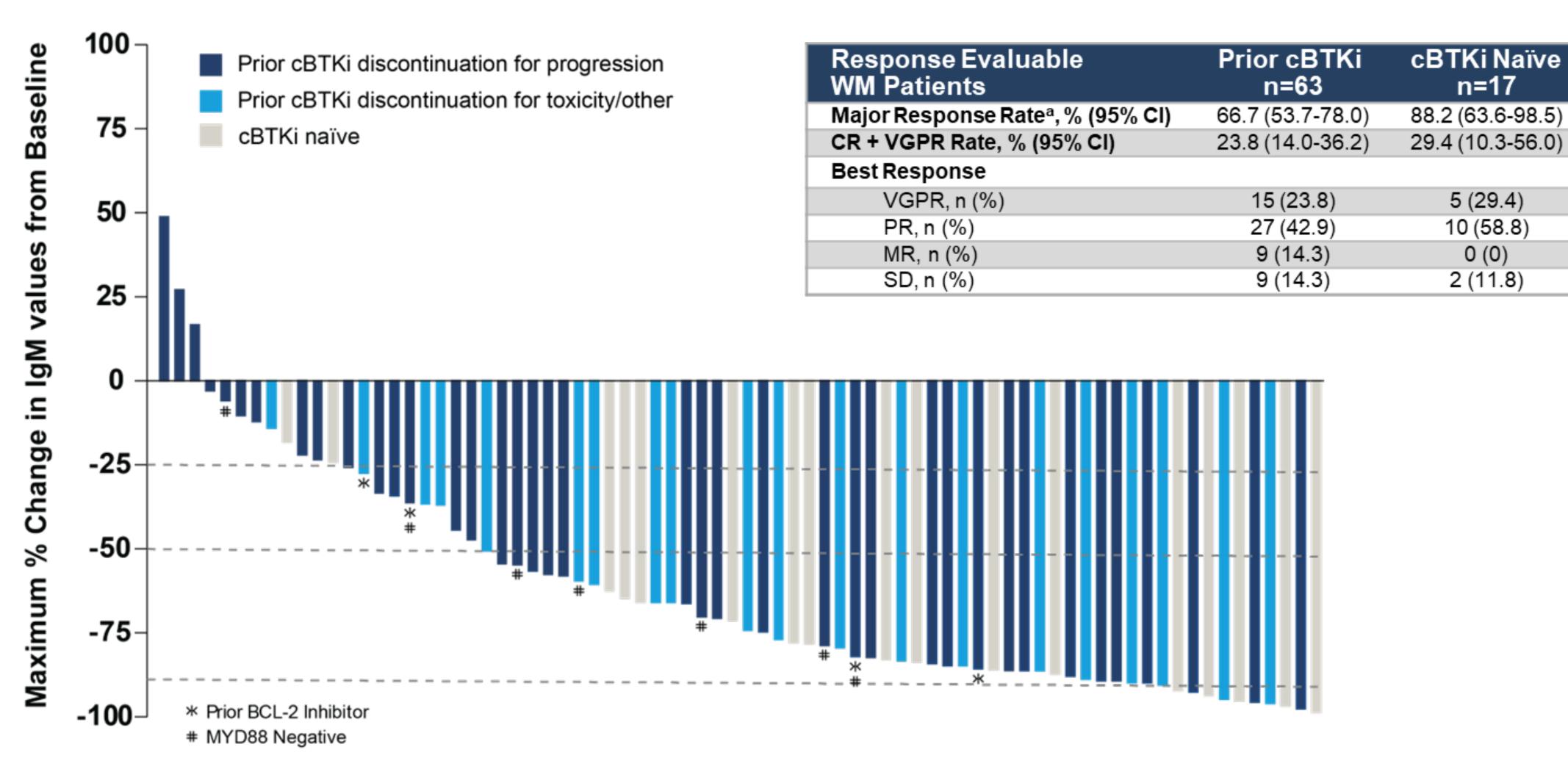
Characteristics	Prior cBTKi n=63	cBTKi Naïve n=17
Median age (range), years	69 (42-84)	68 (47-83)
Male, n (%)	42 (67)	10 (59)
ECOG PS, n (%) 0 1 2	34 (54) 28 (44) 1 (2)	9 (53) 8 (47) 0 (0)
Median number prior lines of systemic therapy (range)	3 (1-11)	2 (1-4)
Prior therapy, n (%) cBTK inhibitor Chemotherapy Anti-CD20 antibody CIT + BTK inhibitor PI3K inhibitor Immunomodulator BCL2 inhibitor Autologous stem cell transplant Other systemic therapy	63 (100) 52 (83) 58 (92) 50 (79) 3 (5) 6 (10) 4 (6) 4 (6) 31 (49)	0 (0) 17 (100) 16 (94) 0 (0) 0 (0) 2 (12) 0 (0) 6 (35)
Reason discontinued any prior BTK inhibitor ^{a,b} , n (%) Progressive disease Toxicity/Other	41 (65) 21 (33)	-

	Prior oPTVi	oPTVi Naïvo
	Prior cBTKi n=63	cBTKi Naïve n=17
WM IPSS score, n (%)		
Low	13 (21)	1 (6)
Intermediate	38 (60)	14 (82)
High	10 (16)	2 (12)
Missing	2 (3)	0 (0)
IgM, median (min, max)	2.46 (0.1, 8.0)	2.59 (0.6, 6.1)
≤7 g/dL, n (%)	61 (97)	17 (100)
>7 g/dL, n (%)	2 (3)	0 (0)
β-2 Microglobulin, median, (min, max)	4.00 (1.6, 95.3)	3.36 (2.4, 11.8)
≤3 mg/L, n (%)	20 (32)	3 (18)
>3 mg/L, n (%)	41 (65)	14 (82)
Missing, n (%)	2 (3)	0 (0)
Peripheral blood cytopenias, n (%)		
Hemoglobin ≤11.5 g/dL	42 (68)	12 (71)
Platelet count ≤100 × 10 ⁹ /L	11 (18)	3 (18)
MYD88 genotypec, n (%)		
Negative	7 (11)	0 (0)
Positive	52 (83)	9 (53)
Missing	4 (6)	8 (47)
CXCR4 genotype ^c , n (%)		
Negative	11 (18)	0 (0)
Positive	9 (14)	0 (0)
Missing	43 (68)	17 (100)
Extramedullary disease, n (%)		
Lymphadenopathy	37 (59)	10 (59)
Splenomegaly	18 (29)	3 (18)

cBTKi=covalent Bruton tyrosine kinase inhibitor; CIT=Chemoimmunotherapy; IPSS=International Prognostic Scoring System. Data cutoff date of 29 July 2022. Total % may be different than the sum of the individual components due to rounding. aln the event more than one reason was noted for discontinuation, disease progression took priority. One patient had unknown reason for prior BTKi discontinuation. Molecular characteristics were determined locally and are presented based on data availability. Data from Palomba ML, et al. Presented at ASH Annual Meeting 2022. Abstract 229.



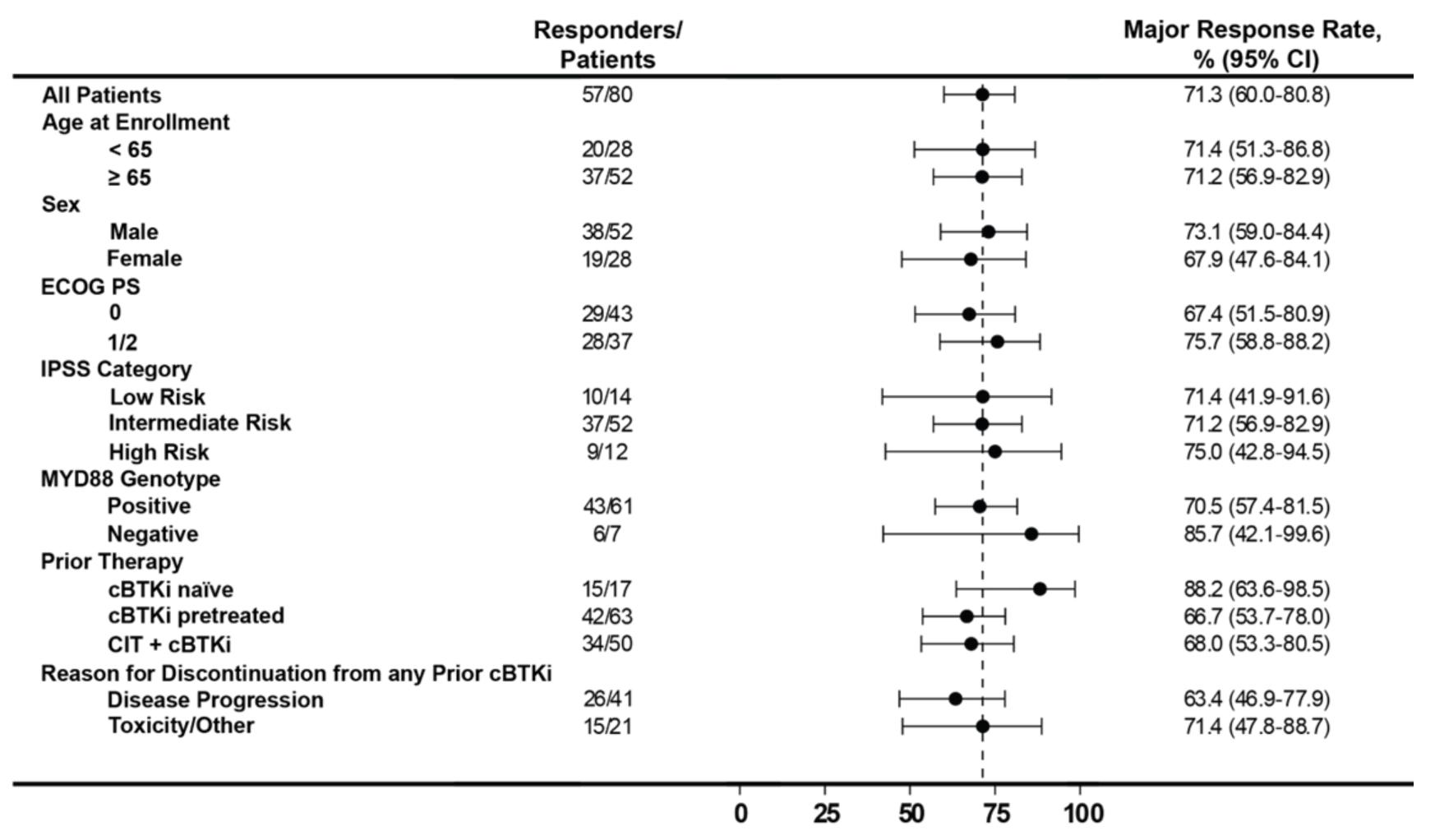
Pirtobrutinib Efficacy in WM Patients



Data cutoff date of 29 July 2022. Data for 4 patients are not shown in the waterfall plot due to missing IgM values at baseline or response assessment. 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. Major response includes subjects with a best response of CR, VGPR, or PR. Total % may be different than the sum of the individual components due to rounding. Data from Palomba ML, et al. Presented at ASH Annual Meeting 2022. Abstract 229.



Major Response Rate in WM Subgroups



Data cutoff date of 29 July 2022. Response as assessed by investigator based on modified IWWM6 criteria. Data from Palomba ML, et al. Presented at ASH Annual Meeting 2022. Abstract 229.

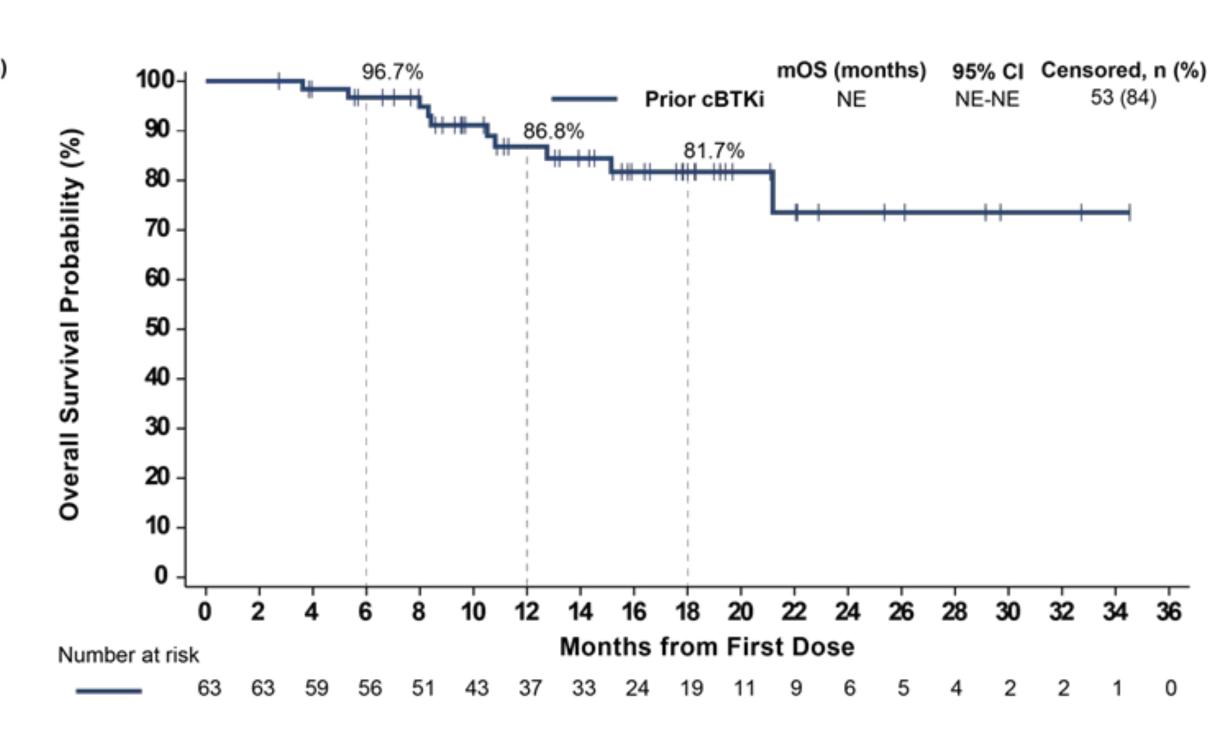


Progression-Free Survival and Overall Survival in Prior cBTKi Patients

Progression-Free Survival

PFS (months) 95% CI Censored, n (%) Prior cBTKi 19.4 15.1-22.1 39 (62) ## PFS (months) 95% CI Censored, n (%) 19.4 15.1-22.1 39 (62) ## PFS (months) 95% CI Censored, n (%) ## PFS (months) 95% CI Cen

Overall Survival



- The median follow-up for PFS and OS in patients who received prior cBTKi was 19.4 and NR months, respectively
- All population, median followup 22.3 mo, median PFS 22 mo; PFS rate at 18 mo: 61.4%
- 55.6% (35/63) of patients who received prior cBTKi remain on pirtobrutinib

Data cutoff date of 29 July 2022. Response as assessed by investigator based on modified IWWM6 criteria. Data from Palomba ML, et al. Presented at ASH Annual Meeting 2022. Abstract 229.



Pirtobrutinib Safety Profile in WM

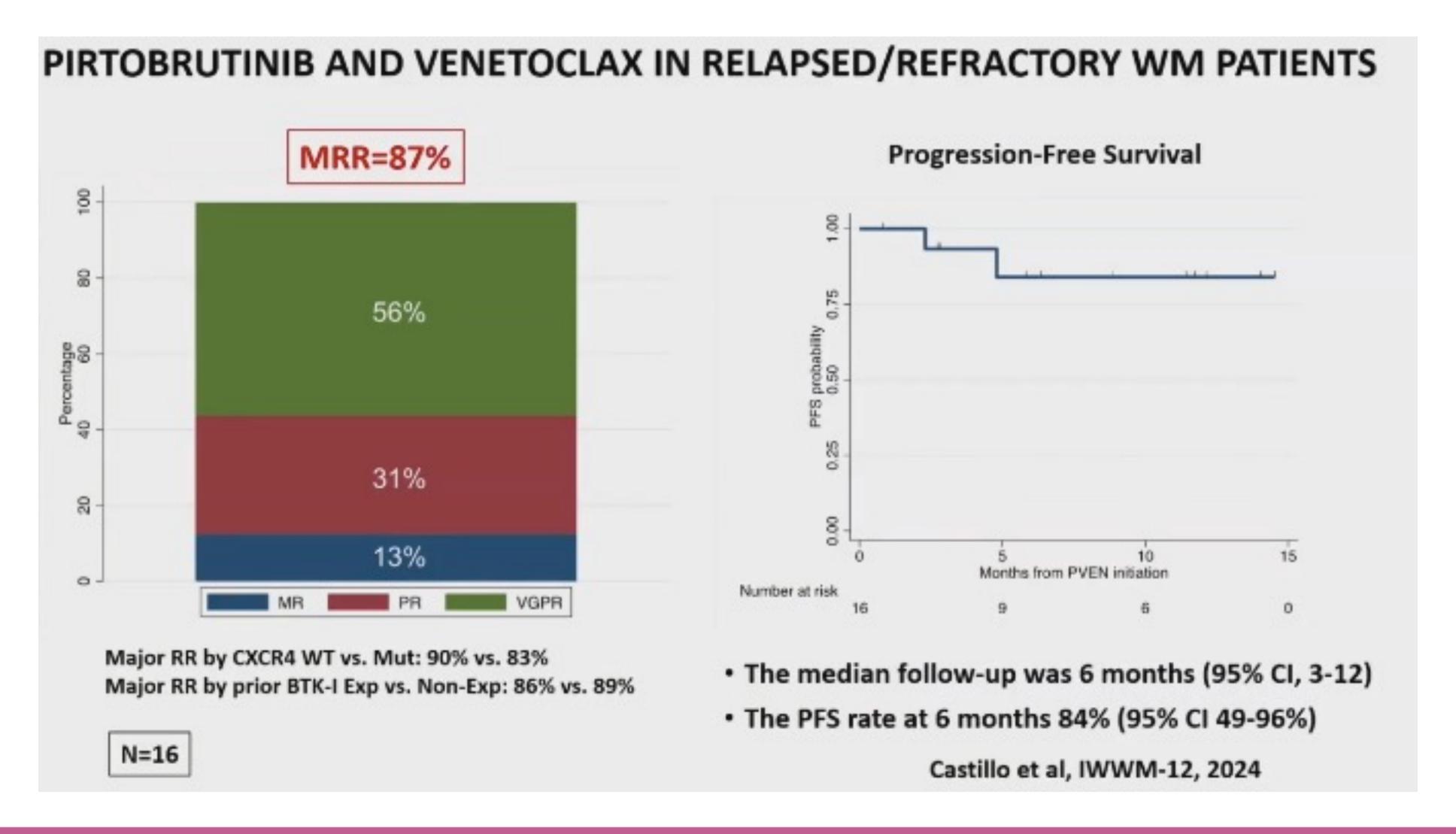
		WM patients (n=80)				
	Treatment-emerg	Treatment-emergent AEs, (≥15%)		related AEs		
Adverse Event	Any Grade	Grade ≥3	Any Grade	Grade ≥3		
Diarrhea	22.5%	3.8%	11.3%	1.3%		
Covid-19	21.3%	0.0%	1.3%	0.0%		
Headache	21.3%	0.0%	6.3%	0.0%		
Fatigue	20.0%	0.0%	7.5%	0.0%		
Anemia	18.8%	11.3%	5.0%	2.5%		
Neutropenia	18.8%	16.3%	12.5%	10.0%		
Constipation	15.0%	0.0%	2.5%	0.0%		
Contusion	15.0%	0.0%	11.3%	0.0%		
Es of special interest ^b	Any Grade	Grade ≥ 3	Any Grade	Grade ≥ 3		
Bruising ^c	20.0%	0.0%	15.0%	0.0%		
Rashd	17.5%	1.3%	12.5%	1.3%		
Arthralgia	10.0%	0.0%	2.5%	0.0%		
Hemorrhage/Hematomae	17.5%	1.3%	8.8%	1.3%		
Hypertension	11.3%	3.8%	8.8%	2.5%		
Atrial fibrillation/flutterf	1.3%	1.3%	0.0%	0.0%		

Median time on treatment for the WM safety population was 13.1 months Discontinuations due to TRAEs occurred in 5.0% (n=4) of WM patients Dose reductions due to TRAEs occurred in 2.5% (n=2) of WM patients

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. Data from Palomba ML, et al. Presented at ASH Annual Meeting 2022. Abstract 229.



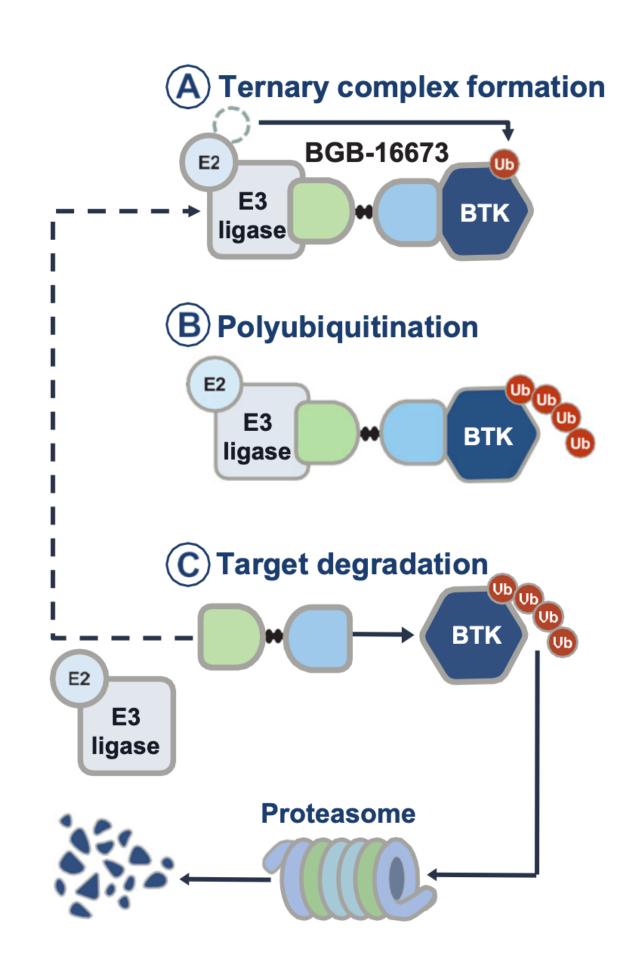
RR WM: Pirtobrutinib + Venetoclax





RR WM - BGB-16673 (BTK degrader)

- BTK inhibitors are effective in WM but are associated with toxicities and/or resistance development^{1,2}
- BGB-16673 is an orally available protein degrader that blocks BTK signaling by tagging BTK for degradation through the cell's proteasome pathway, leading to tumor regression³
- In preclinical models, BGB-16673 showed CNS penetration and degraded both wild-type and mutant BTK resistant to cBTK (C481S, C481F, C481Y, L528W, T474I) and ncBTK inhibitors (V416L, M437R, T474I, L528W)^{3,4}
- BGB-16673 led to substantial reductions in BTK protein levels in peripheral blood and tumor tissue⁵
- Here, updated safety and efficacy results are presented in patients with R/R WM in phase 1 of CaDAnCe-101



PRECEPTORSHIP

Un confronto sulla gestione delle malattie linfoproliferative al Sant'Orsola di Bologna



CaDAnCe-101: Phase 1/2, Open-Label, Dose-Escalation/Expansion Study in R/R B-Cell Malignancies

CaDAnCe-101 (BGB-16673-101, NCT05006716)

Key eligibility criteria for WM

- Met IWWM-7 criteria for treatment
- ≥2 prior therapies, includ. anti-CD20 monoclonal antibody & cBTK inhibitor (US & EU only)
- ECOG PS 0-2
- Adequate organ function

Key objectives: part 1

- Primary: safety^c & tolerability, MTD, & RDFE
- Secondary: PK, PD, & preliminary antitumor activity^d

Part 1a: Dose escalation

Selected R/R B-cell malignancies (MZL, FL, MCL, CLL/SLL, WM, DLBCL, RT)

n≤72

Oral, QD, 28-day cycle^b Doses: 50 mg, 100 mg, 200 mg, 350 mg, 500 mg, 600 mg

Part 1d: Additional safety expansion

R/R CLL/SLL *n*≤30

Part 1: Monotherapy dose finding^a

Part 1b: Safety expansion

Selected R/R B-cell malignancies (MZL, MCL, CLL/SLL, WM) n≤120

Part 1e: Additional safety expansion

Selected R/R B-cell malignancies (Japan only) (MZL, FL, MCL, CLL/SLL, WM) n=6-9

Part 1c: Additional safety expansion

Selected R/R B-cell malignancies (MZL, WM, RT, DLBCL, FL) n≤100

Part 1f: Monotherapy safety expansion

Selected BTK inhibitor-naive **B**-cell malignancies (MZL, MCL, CLL/SLL, WM, RT) n≤40

Determination of BGB-16673 RDFE

Cohort 1: Post BTK inhibitor, R/R CLL/SLL

Cohort 2: Post BTK inhibitor. R/R MCL

Cohort 3: Post BTK inhibitor, R/R WM

Cohort 4: Post BTK inhibitor R/R MZL

Phase 2

Cohort 5 R/R FL

Cohort 6: R/R non-GCB DLBCL

Cohort 7 Post BTK inhibitor, R/R RT

^aData from gray portions of the figure are not included in this presentation. ^bTreatment was administered until progression, intolerance, or other criteria were met for treatment discontinuation. ^cSafety was assessed according to CTCAE v5.0. dResponses were assessed per IWWM-6, modified Owen 2013 criteria after 4 weeks.



Patient's Characteristics

	Total (N=36)
Age, median (range), years	72.0 (49-81)
Male, n (%)	22 (61.1)
ECOG PS, n (%)	
0	17 (47.2)
1	17 (47.2)
2	2 (5.6)
Hemoglobin, median (range), g/L	102 (60-146)
Hemoglobin ≤110 g/L, n/N with known status (%)	25/34 (73.5)
Neutrophils, median (range), 10 ⁹ /L	2.6 (0.2-7.4)
Neutrophils ≤1.5×10 ⁹ /L, n/N with known status (%)	11/33 (33.3)
Platelets, median (range), 10 ⁹ /L	153.5 (14.0-455.0)
IgM, median (range), g/L	35.1 (0.3-92.6)

	Total (N=36)
Mutation status, n/N with known status (%) ^a	(14-50)
MYD88 mutation present	31/35 (88.6)
CXCR4 mutation present	19/35 (54.3)
BTK mutation present	11/31 (35.5)
TP53 mutation present	16/31 (51.6)
No. of prior lines of therapy, median (range)	3 (1-11)
Prior therapy, n (%)	
cBTK inhibitor	36 (100)
Anti-CD20 antibody	36 (100)
Chemotherapy	34 (94.4)
Proteasome inhibitor	11 (30.6)
BCL2 inhibitor	9 (25.0)
ncBTK inhibitorb	7 (19.4)
Discontinued prior BTK inhibitor due to PD, n (%)	30 (83.3)

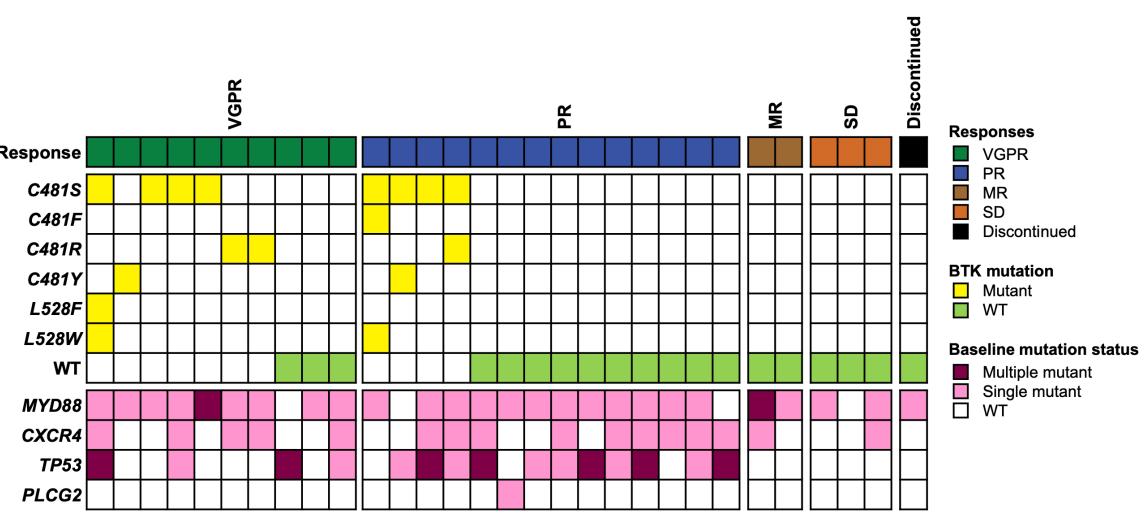
^aConfirmed by central laboratory. ^bAll seven patients with ncBTK inhibitor exposure were also exposed to a cBTK inhibitor.



BGB-16673 - Response Rates

	Total (N=32) ^a
Best overall response, n (%)	
VGPR	10 (31.3)
PR	14 (43.8)
MR	3 (9.4)
SD	3 (9.4)
PD	1 (3.1)
Discontinued prior to first assessment	1 (3.1)
ORR, n (%) ^b	27 (84.4)
Major response rate, n (%) ^c	24 (75.0)
Time to first response, median (range), months ^d	1.0 (0.9-3.7)

Mutation status, n/N tested (%)	ORR (N=32) ^a
BTK	
Mutated	11/11 (100)
Unmutated	15/19 (78.9)
Unknown	1/2 (50.0)
MYD88	
Mutated	25/28 (89.3)
Unmutated	2/3 (66.7)
Unknown	0/1 (0)
CXCR4	
Mutated	16/17 (94.1)
Unmutated	11/14 (78.6)
Unknown	0/1 (0)
TP53	
Mutated	15/15 (100)
Unmutated	11/15 (73.3)
Unknown	1/2 (50.0)



^aEfficacy-evaluable population; 4 patients were too early in treatment course to be response-evaluable. ^bIncludes best overall response of MR or better. ^cIncludes best overall response best overall response of PR or VGPR. ^dIn patients with a best overall response better than SD.

- Response rates were observed at all dose levels and in pts with prior CIT (25/30), cBTKi (27/32) or ncBTKi (4/4)
- Responses occurred regardless of baseline mutations (BTKi-resistant mutations, TP53 and CXCR4)
- Rapid decline in IgM with
- With a median follow-up of 8.2 mo, mPFS was NR

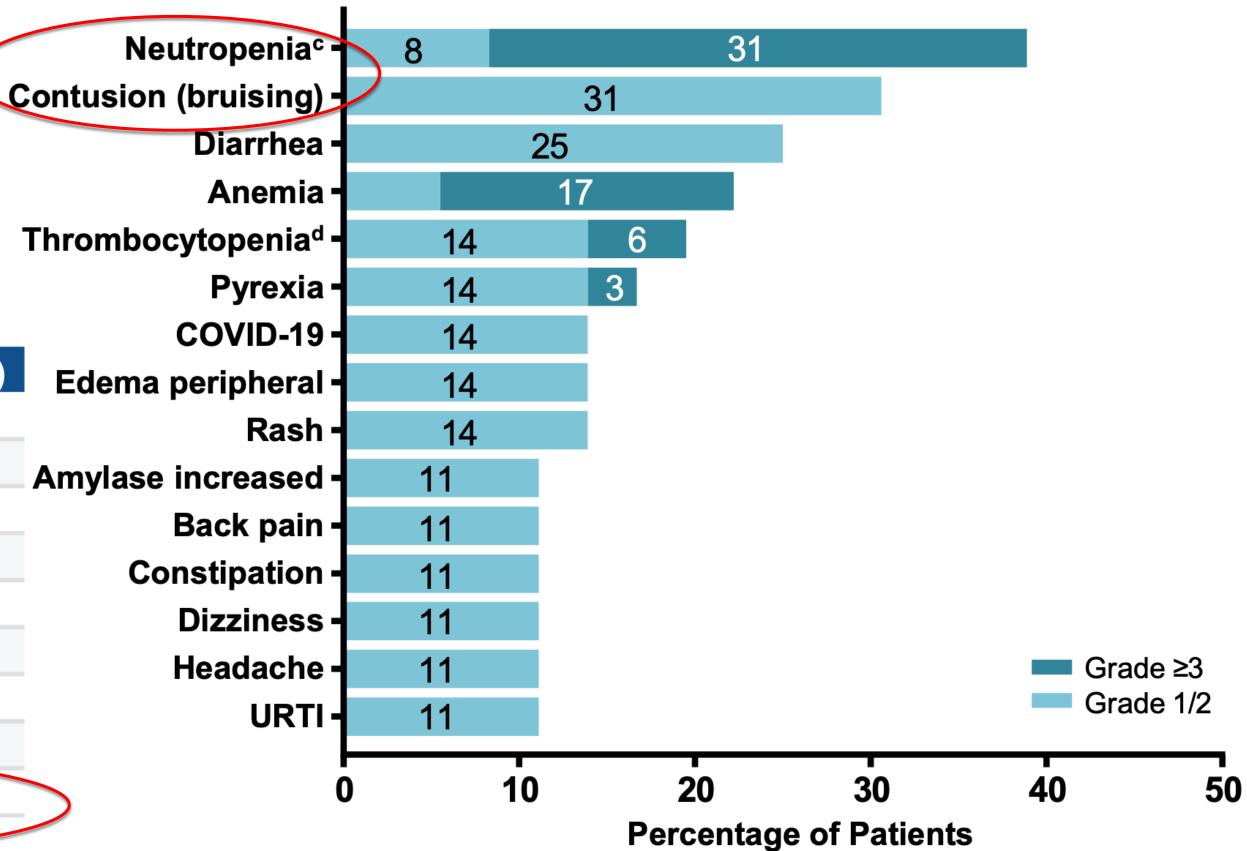


BGB-16673 - Safety and TRAEs in ≥ 10% of Patients

 Most common TEAEs were neutropenia in 39% and contusion (bruising) in 31% of patients

 No atrial fibrillation, major hemorrhage^a, febrile neutropenia, or pancreatitis

Patients, n (%)	Total (N=36)	
Any TEAE	32 (88.9)	
Any treatment-related	25 (69.4)	A
Grade ≥3	22 (61.1)	
Treatment-related grade ≥3	14 (38.9)	
Serious	12 (33.3)	
Treatment-related serious	4 (11.1)	
Leading to death ^b	1 (2.8)	
Treatment-related leading to death	0	
Leading to treatment discontinuation	2 (5.6)	



Data cutoff: March 3, 2025. Median follow-up: 8.2 months (range, 0.6 30.6 months).

^aGrade ≥3, serious, or any central nervous system bleeding. ^bSeptic shock (200-mg dose level), note in the context of PD. ^cNeutropenia combines preferred terms *neutrophil count decreased* and *neutropenia*.

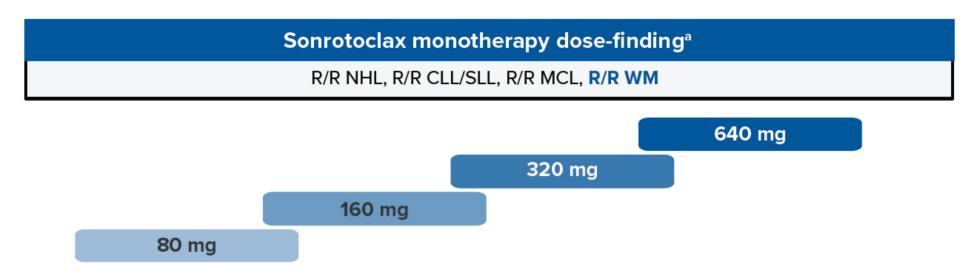
dThrombocytopenia combines preferred terms *platelet count decreased* and *thrombocytopenia*.

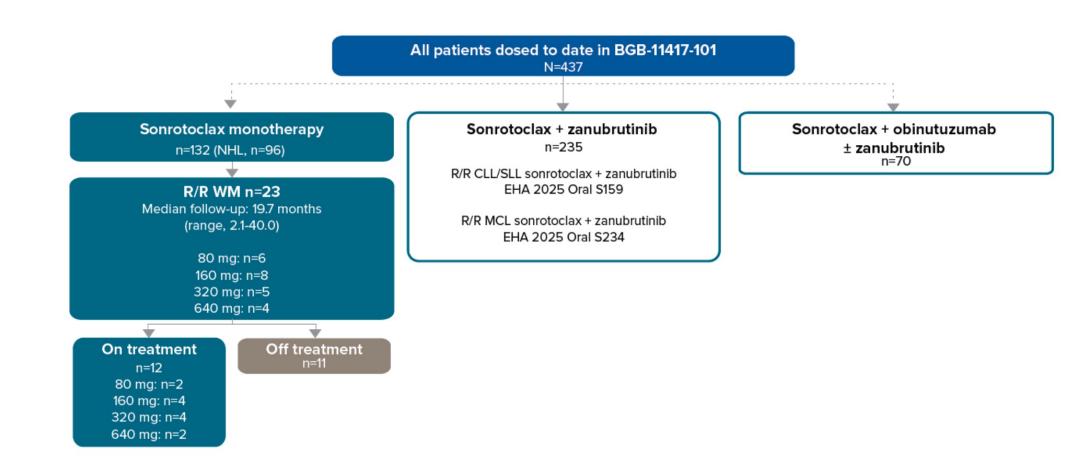
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Ph 1/1b Trial BGB-11417-101 – RR WM Cohort

- BGB-11417-101 (NCT04277637) is an ongoing, phase 1/1b, open-label, multicenter, dose-escalation and -expansion study of sonrotoclax as mono- or combination therapy in patients with various B-cell malignancies
- For the R/R WM cohort, eligible patients have WM that relapsed after or was refractory to at least one prior systemic therapy and requires treatment per International Workshop on Waldenstrom's Macroglobulinemia-7 criteria
- Sonrotoclax monotherapy is administered orally QD, with ramp-up to the intended target dose to prevent TLS, until disease progression or unacceptable toxicity
- The primary study objectives are to assess safety/tolerability, define MTD, and determine RP2D of sonrotoclax monotherapy; a secondary objective is to assess ORR, defined as MR or better per modified Owens 2013 criteria





Sonrotoclax (BGB-11417), a next-generation BCL2 inhibitor, is a more selective and pharmacologically potent inhibitor of BCL2 than venetoclax, with a shorter half-life and no drug accumulation

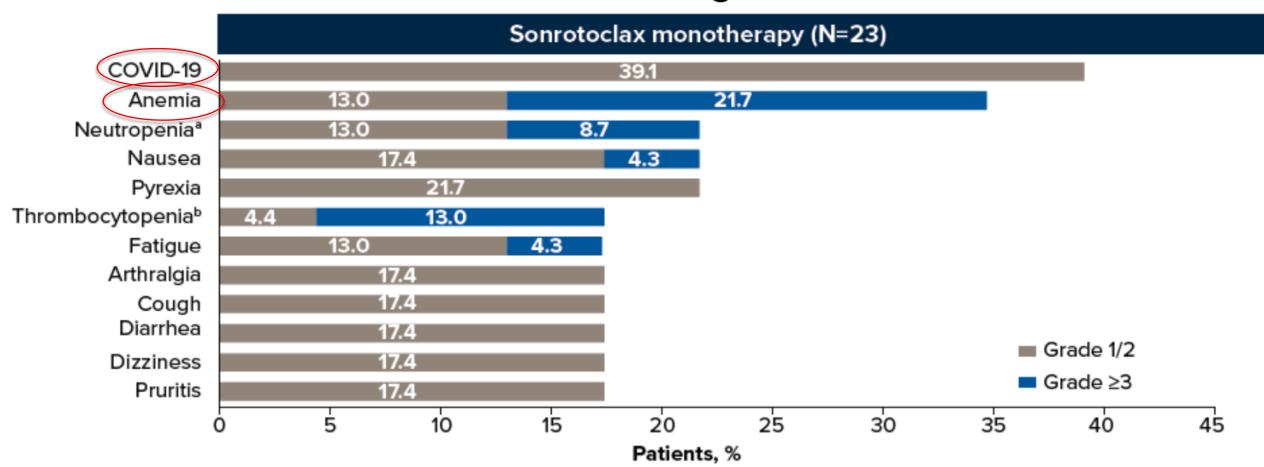
Cheah CY et al, EHA 2025



Ph 1/1b Trial BGB-11417-101 – Pts Characteristics and Safety

Characteristic	80 mg (n=6)	160 mg (n=8)	320 mg (n=5)	640 mg (n=4)	All (N=23)
Study follow-up time, median (range), months	36.3 (7.6-40.0)	25.9 (2.1-32.9)	17.0 (15.6-21.4)	9.0 (6.7-12.5)	19.7 (2.1-40)
lge, median (range), years	65.5 (48-79)	69.5 (61-87)	65.0 (61-77)	73.0 (68-84)	69.0 (48-87)
Male, n (%)	6 (100)	5 (62.5)	4 (80.0)	4 (100)	19 (82.6)
COG PS, n (%)					
0	3 (50.0)	2 (25.0)	1 (20.0)	2 (50.0)	8 (34.8)
1	3 (50.0)	5 (62.5)	4 (80.0)	2 (50.0)	14 (60.9)
2	0	1 (12.5)	0	0	1 (4.3)
MYD88 mutation, n/tested (%)	5/5 (100)	7/8 (87.5)	5/5 (100)	4/4 (100)	21/22 (95.4
CXCR4 mutation, n/tested (%)	1/5 (20.0)	2/8 (25.0)	3/5 (60.0)	3/4 (75.0)	9/22 (40.9)
Prior therapy					
No. of lines of prior systemic therapy, median (range)	3.0 (1-8)	2.5 (1-9)	1.0 (1-8)	2.0 (1-3)	3.0 (1-9)
No. of prior lines of systemic therapy, n (%)					
1	1 (16.7)	3 (37.5)	3 (60.0)	2 (50.0)	9 (39.1)
2	1 (16.7)	1 (12.5)	0	0	2 (8.7)
≥3	4 (66.7)	4 (50.0)	2 (40.0)	2 (50.0)	12 (52.2)
Prior BTK inhibitor, n (%)	4 (66.7)	4 (50.0)	3 (60.0)	3 (75.0)	14 (60.9)
BTK inhibitor as last therapy, n (%)	3 (50.0)	3 (37.5)	1 (20.0)	2 (50.0)	9 (39.1)
Prior BTK inhibitor duration, median (range), months	58.0 (28.5-85.4)	53.7 (19.4-66.5)	33.1 (1.1-46.0)	37.0 (21.5-68.5)	49.5 (1.1-85.4)

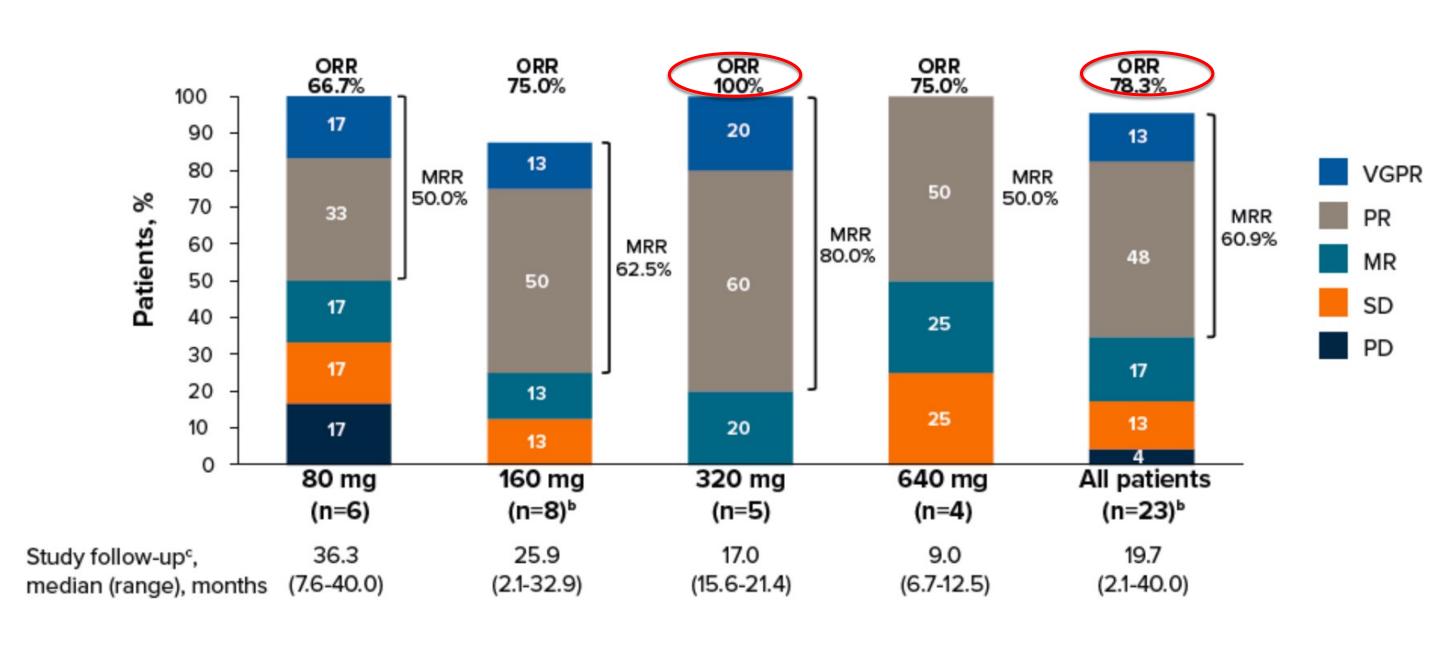
TEAEs Occurring in ≥4 Patients



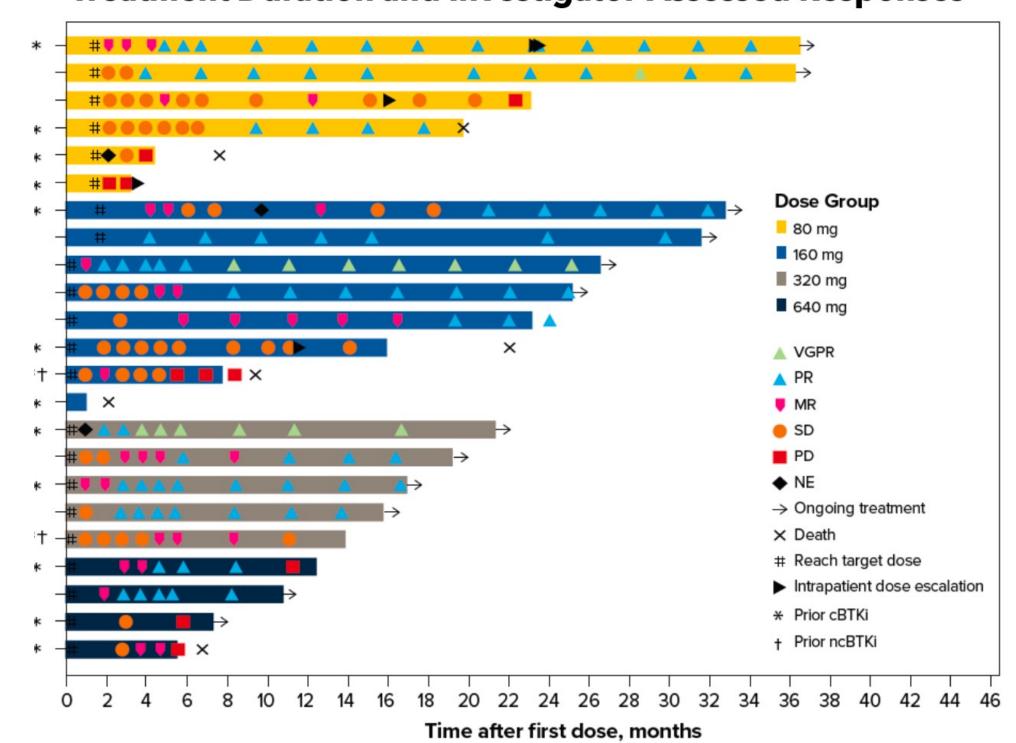
- 6 patients died while on study due to PD (n=4) and AEs (n=2) of COVID-19 and pneumonia;
- No cases of laboratory or clinical TLS occurred up to the highest dose tested (640 mg);
- No cases of atrial or ventricular fibrillation were reported;
- Sonrotoclax 320 mg was declared the RP2D, and no MTD was reached.



Ph 1/1b Trial BGB-11417-101 – Response Rates



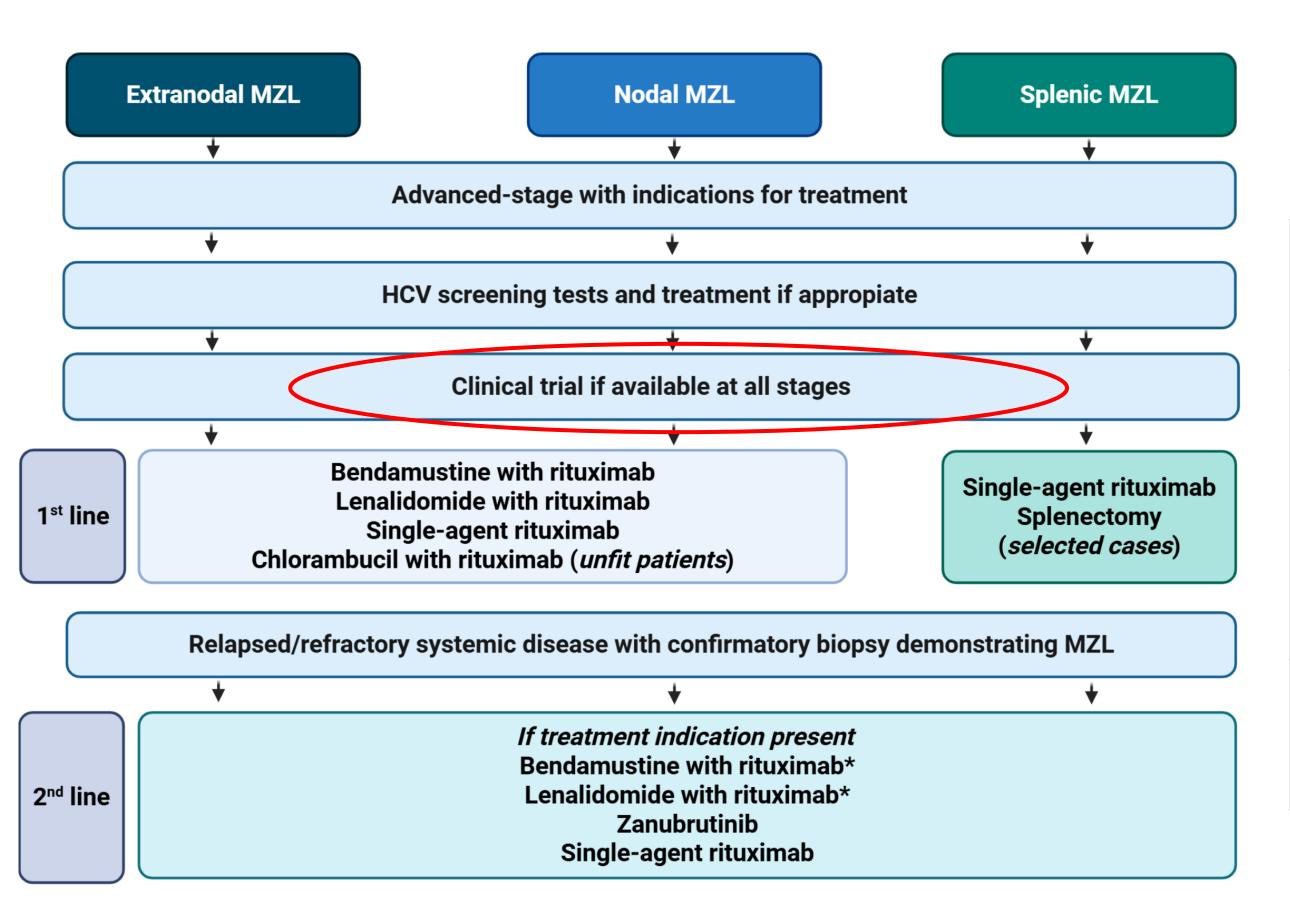
Treatment Duration and Investigator-Assessed Responses



- Median time to response: 4.4 mo in all pts, 2.8 mo in 320 mg cohort
- Among 9 patients with a BTK inhibitor as their last therapy, an ORR of 66.7% (MR, n=1; PR, n=4; VGPR, n=1) was achieved
- Median DoR and median PFS were NR



Marginal Zone Lymphomas, around the corner....

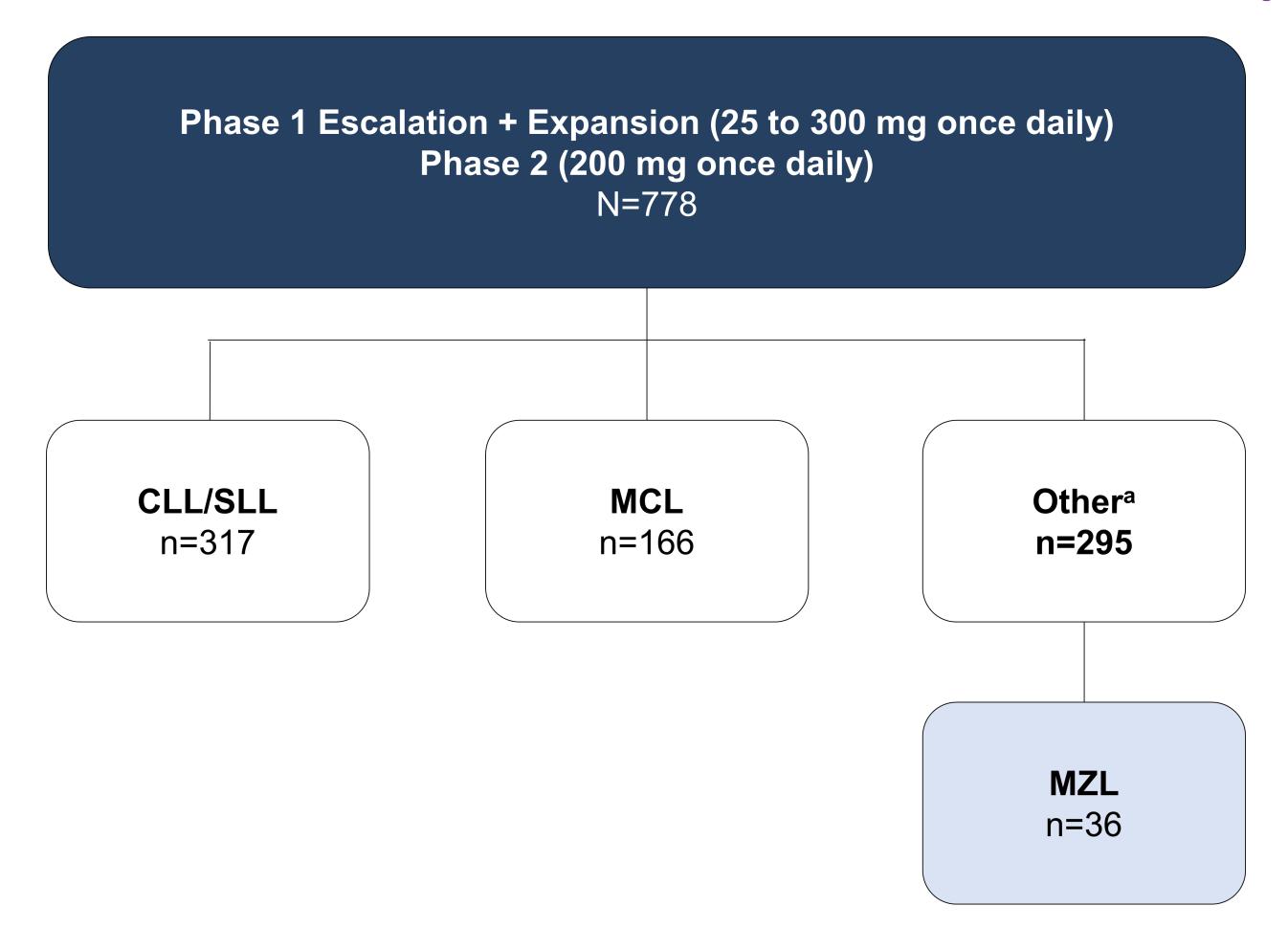


	BTKi	BTK degrader	BCL2i	ADC	BsAbs	CAR T
Single Agent	Pirto Nemta	BGB- 16673 NX-5948 ABBV-101	Sonrotoclax	Lonca	Odro (ELM-2, RR)	Axicel (ZUMA5)
Combo	Zanu+Obi vs R2		Zanu+Sonrot	\	Mosu+Lena (TN)	\

Modified from Alderuccio P et al, Blood 2025



Phase 1/2 BRUIN Study Design



Eligibility

- Age ≥18
- ECOG PS 0-2
- Active disease and in need of treatment
- Previously treated

Key Endpoints

- Safety/tolerability
- Determine MTD and RP2D
- **Pharmacokinetics**
- Efficacy (ORR according to Lugano criteria, DoR, PFS, and OS)

Data cutoff date of 05 May 2023 (NCT03740529). Other includes DLBCL, RT, WM, FL, MZL, B-PLL, HCL, PCNSL, and other transformations.



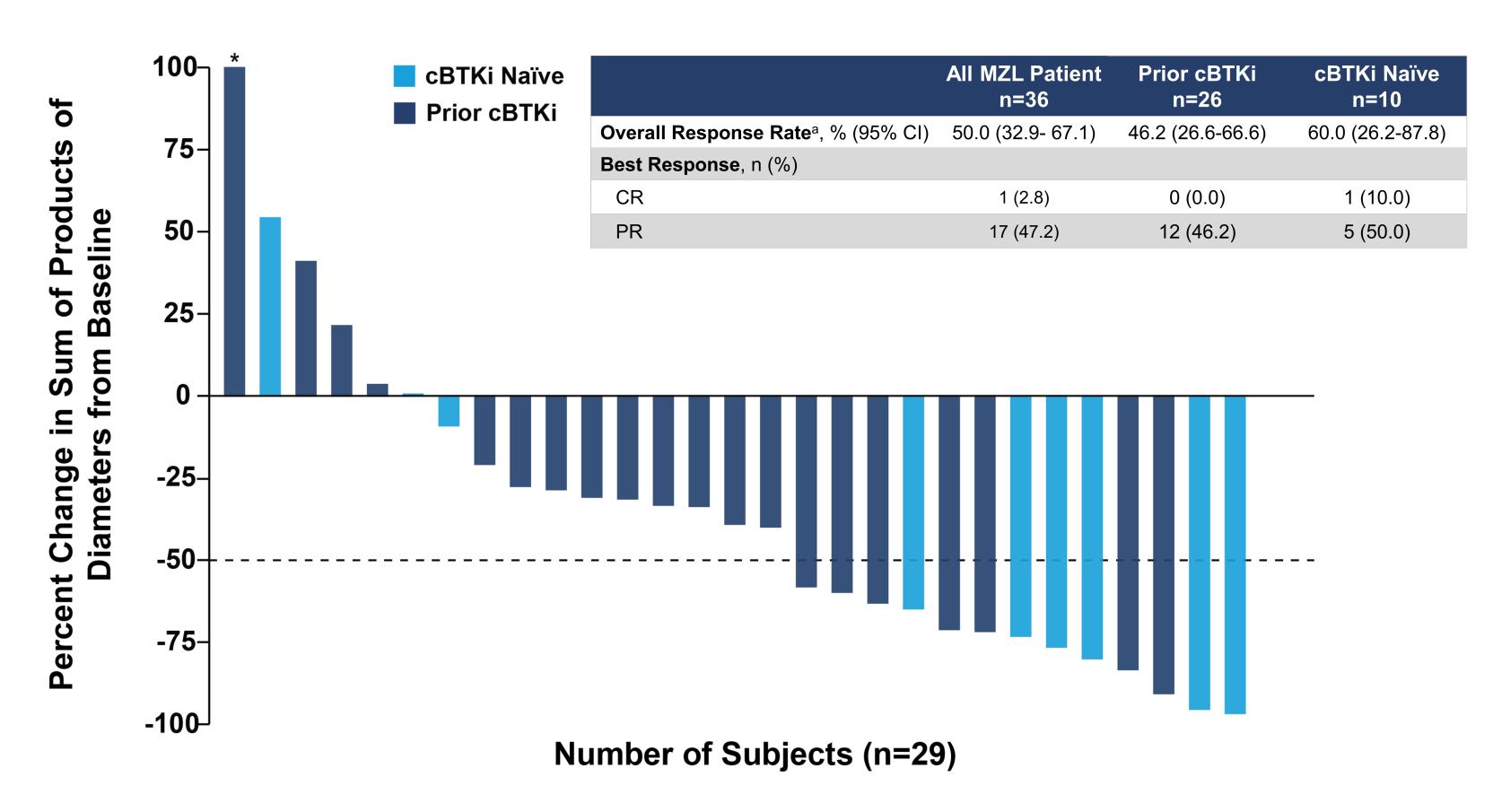
MZL Patient Characteristics

Median age, years (range) 68 (22-83) Male, n (%) 16 (44) Female, n (%) 20 (56) ECOG PS, n (%) 18 (50) 0 18 (50) 1 17 (47) 2 1 (3) MZL Subtype, n (%) 17 (47) Nodal 17 (47) Splenic 13 (36) Extranodal* 6 (17) Tumor Bulk (cm), n (%) 23 (64) No measurable lymph node 9 (25) Elevated LDH, n (%) 25 Yes 15 (42) No 21 (58) Baseline Hemoglobin >12g/dL 29 (81) No 7 (19) Involved Nodal Sites, n (%) ≤4 24 20 (56) >4 16 (44)	Characteristics	n=36
Female, n (%) 20 (56) ECOG PS, n (%) 0 18 (50) 1 17 (47) 2 1 (3) MZL Subtype, n (%) Nodal 17 (47) Splenic 13 (36) Extranodal* 6 (17) Tumor Bulk (cm), n (%) ≥5 4 (11) <5	Median age, years (range)	68 (22-83)
ECOG PS, n (%) 0	Male, n (%)	16 (44)
0 18 (50) 1 17 (47) 2 1 (3) MZL Subtype, n (%) Nodal 17 (47) Splenic 13 (36) Extranodal* 6 (17) Tumor Bulk (cm), n (%) ≥5 4 (11) <5 23 (64) No measurable lymph node 9 (25) Elevated LDH, n (%) Yes 15 (42) No 21 (58) Baseline Hemoglobin >12g/dL Yes 29 (81) No 7 (19) Involved Nodal Sites, n (%) ≤4 20 (56)	Female, n (%)	20 (56)
1 17 (47) 2 1 (3) MZL Subtype, n (%) Nodal 17 (47) Splenic 13 (36) Extranodal* 6 (17) Tumor Bulk (cm), n (%) ≥5 4 (11) <5 23 (64) No measurable lymph node 9 (25) Elevated LDH, n (%) Yes 15 (42) No 21 (58) Baseline Hemoglobin >12g/dL Yes 29 (81) No 7 (19) Involved Nodal Sites, n (%) ≤4 20 (56)	ECOG PS, n (%)	
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MZL Subtype, n (%) Nodal 17 (47) Splenic 13 (36) Extranodal* 6 (17) Tumor Bulk (cm), n (%) ≥5 4 (11) <5	1	17 (47)
Nodal 17 (47) Splenic 13 (36) Extranodal* 6 (17) Tumor Bulk (cm), n (%) 4 (11) <5	2	1 (3)
Splenic 13 (36) Extranodal* 6 (17) Tumor Bulk (cm), n (%) 4 (11) ≥5 4 (11) <5	MZL Subtype, n (%)	
Extranodal* 6 (17) Tumor Bulk (cm), n (%) ≥5 4 (11) <5 23 (64) No measurable lymph node 9 (25) Elevated LDH, n (%) Yes 15 (42) No 21 (58) Baseline Hemoglobin >12g/dL Yes 29 (81) No 7 (19) Involved Nodal Sites, n (%) ≤4 20 (56)	Nodal	17 (47)
Tumor Bulk (cm), n (%) ≥5 4 (11) <5	Splenic	13 (36)
≥5 4 (11) <5 23 (64) No measurable lymph node 9 (25) Elevated LDH, n (%) Yes 15 (42) No 21 (58) Baseline Hemoglobin >12g/dL Yes 29 (81) No 7 (19) Involved Nodal Sites, n (%) ≤4 20 (56)	Extranodal*	6 (17)
	Tumor Bulk (cm), n (%)	
No measurable lymph node 9 (25) Elevated LDH, n (%) 15 (42) Yes 15 (42) No 21 (58) Baseline Hemoglobin >12g/dL 29 (81) Yes 29 (81) No 7 (19) Involved Nodal Sites, n (%) 20 (56)	≥5	4 (11)
Elevated LDH, n (%) Yes 15 (42) No 21 (58) Baseline Hemoglobin >12g/dL Yes 29 (81) No 7 (19) Involved Nodal Sites, n (%) 20 (56)	<5	23 (64)
Yes No 21 (58) Baseline Hemoglobin >12g/dL Yes 15 (42) 21 (58) 29 (81) 7 (19) Involved Nodal Sites, n (%) ≤4 20 (56)	No measurable lymph node	9 (25)
No 21 (58) Baseline Hemoglobin >12g/dL 29 (81) Yes 29 (81) No 7 (19) Involved Nodal Sites, n (%) 20 (56)	Elevated LDH, n (%)	
Baseline Hemoglobin >12g/dL Yes 29 (81) No 7 (19) Involved Nodal Sites, n (%) ≤4 ≤4 20 (56)	Yes	15 (42)
Yes 29 (81) No 7 (19) Involved Nodal Sites, n (%) ≤4 20 (56)	No	21 (58)
No Involved Nodal Sites, n (%) ≤4 20 (56)	Baseline Hemoglobin >12g/dL	
Involved Nodal Sites, n (%) ≤4 20 (56)	Yes	29 (81)
≤4 20 (56)	No	7 (19)
	Involved Nodal Sites, n (%)	
>4 16 (44)	≤4	20 (56)
	>4	16 (44)

Characteristics	n=36
Ann Arbor Staging, n (%)	
Stage I/II	1 (3)
Stage III/IV	29 (81)
Missing	6 (17)
MALT-IPI Risk Group, n (%)	
Low Risk (0)	1 (3)
Intermediate Risk (1)	10 (28)
High Risk (≥2)	19 (53)
Missing	6 (17)
Median Number of Prior Lines of Systemic	3 (2-10)
Therapy, (range)	3 (2-10)
Prior Therapy, n (%)	
cBTK inhibitor	26 (72)
Anti-CD20 antibody	36 (100)
Chemotherapy + Anti-CD20 antibody	31 (86)
PI3K inhibitor	6 (17)
Lenalidomide	8 (22)
BCL2 inhibitor	1 (3)
Autologous stem cell transplant	1 (3)
Other Systemic Therapy ^a	4 (11)
Reason for Discontinuation of any Prior cBTK n (%)	Ci ^b ,
Progressive disease	20 (77)
Toxicity/Other	6 (23)



Pirtobrutinib Efficacy in MZL



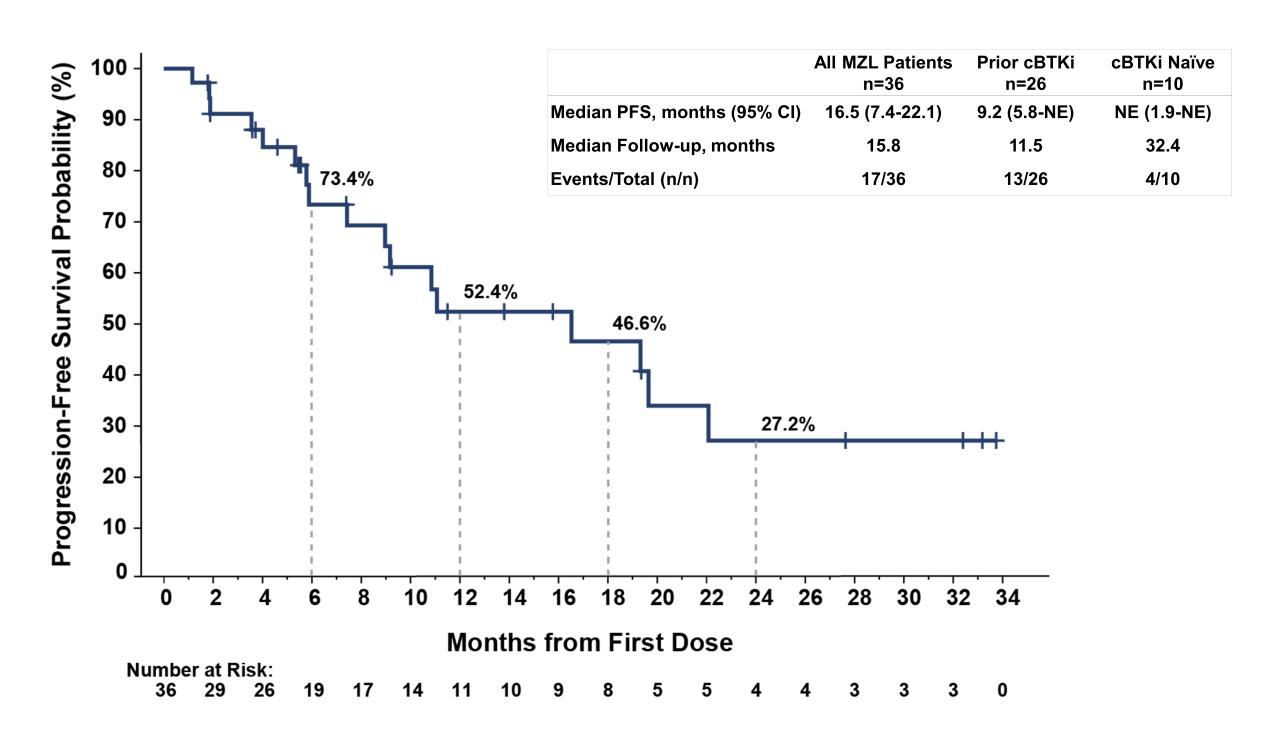
Median time-to-response was 1.9 months (range, 1.6-19.3)

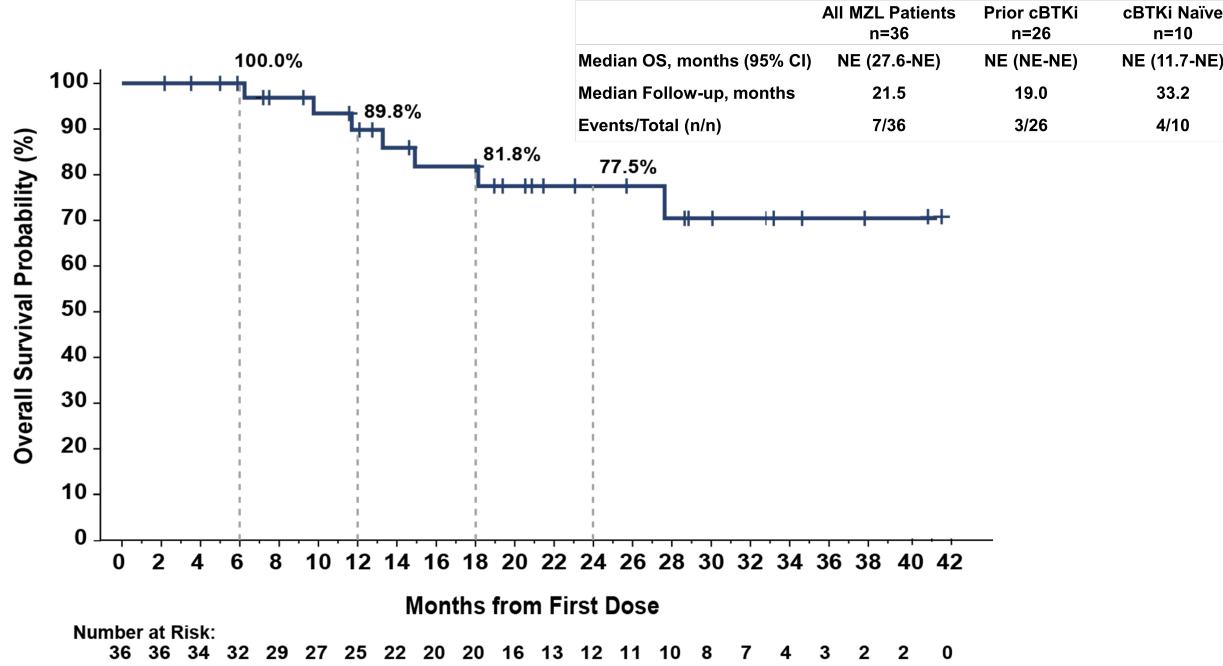
Data for 7 patients are not shown in the waterfall plot due to no measurable target lesions identified by CT at baseline, discontinuation prior to first response assessment, or lack of adequate imaging in follow-up.

*Indicates patient with a > 100% increase in sum of products of diameter, with the corresponding change from baseline of 181.6%. ORR is the number of patients with best response of CR or PR divided by the total number of patients; No patients with a best response of not evaluable (NE) are included in the denominator.



Pirtobrutinib Progression-Free and Overall Survival







Pirtobrutinib Safety Profile

	Trea	Treatment Emergent AEs in Patients with MZL (n=36)				
	All-Cause AEs,	, (≥15%) %	Treatment-Related AEs, %			
Adverse Event	Any Grade	Grade ≥3	Any Grade	Grade ≥3		
Diarrhea	36.1	5.6	16.7	2.8		
Fatigue	33.3	0	11.1	0		
Neutropenia ^a	30.6	27.8	13.9	13.9		
Anemia	25.0	13.9	8.3	5.6		
Dyspnea	25.0	0	2.8	0		
Nausea	22.2	0	2.8	0		
Platelet Count Decrease	22.2	11.1	11.1	2.8		
Arthralgia	16.7	0	2.8	0		
Abdominal Pain	16.7	0	0	0		
AEs of Interest ^b	Any Grade	Grade ≥3	Any Grade	Grade ≥3		
Infection ^c	61.1	13.9	5.6	0		
Bruising ^d	30.6	0	25.0	0		
Rashe	25.0	0	19.4	0		
Hemorrhage ^f	13.9	0	2.8	0		
Hypertension	5.6	2.8	2.8	2.8		
Atrial Fibrillation/Flutter ^g	0	0	0	0		

Median time on treatment for patients with MZL was 9 months Pirtobrutinib discontinuations due to treatment-related AEs occurred in 5.6% (n=2) of all patients Dose reductions due to treatment-related AEs occurred in 11.1% (n=4) of all patients



Study Design of ELM-2 Ph 2 Trial

• Phase 2, open-label, multicohort, multicenter study of odronextamab monotherapy in patients with R/R B-NHL (NCT03888105)

Key eligibility criteria

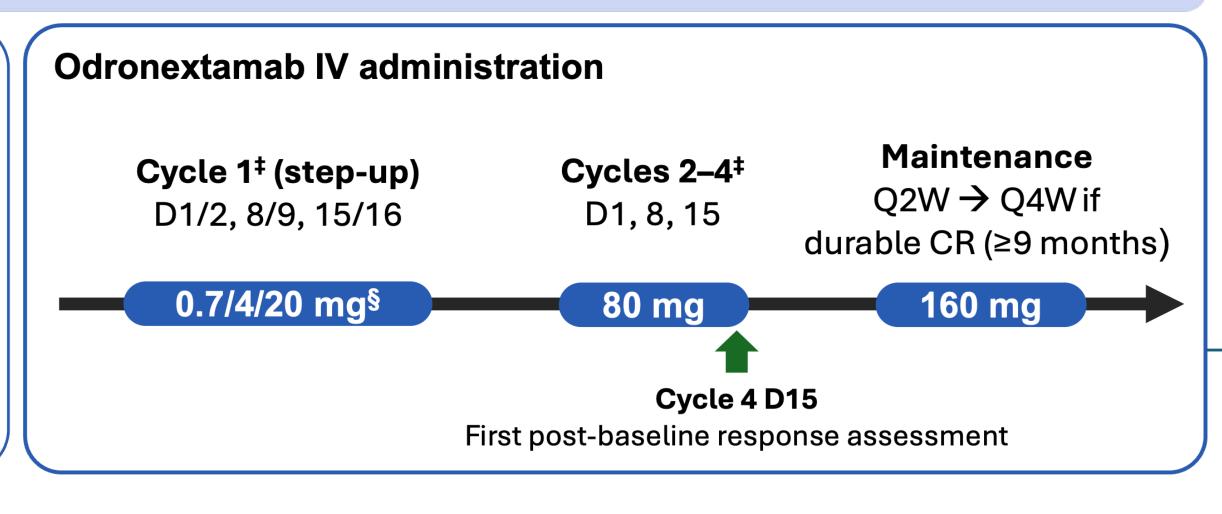
- ≥18 years old
- MZL (extranodal, splenic, or nodal subtype)*
- ECOG PS 0 or 1
- Refractory to, or relapsed after, ≥2 prior lines of systemic therapy

Primary endpoint

ORR[†] by ICR

Secondary endpoints

- ORR[†] by local investigator
- DOR,[†] PFS,[†] and OS
- Safety and tolerability
- Patient-reported outcomes



Measures taken to facilitate diverse, inclusive enrollment:

- Diverse trial sites
- Translated consents
- Extended screening windows
- Broad eligibility criteria
- Investigator training

Anti-infection prophylaxis including IVIg supplementation and antivirals was recommended, and PJP prophylaxis was mandated

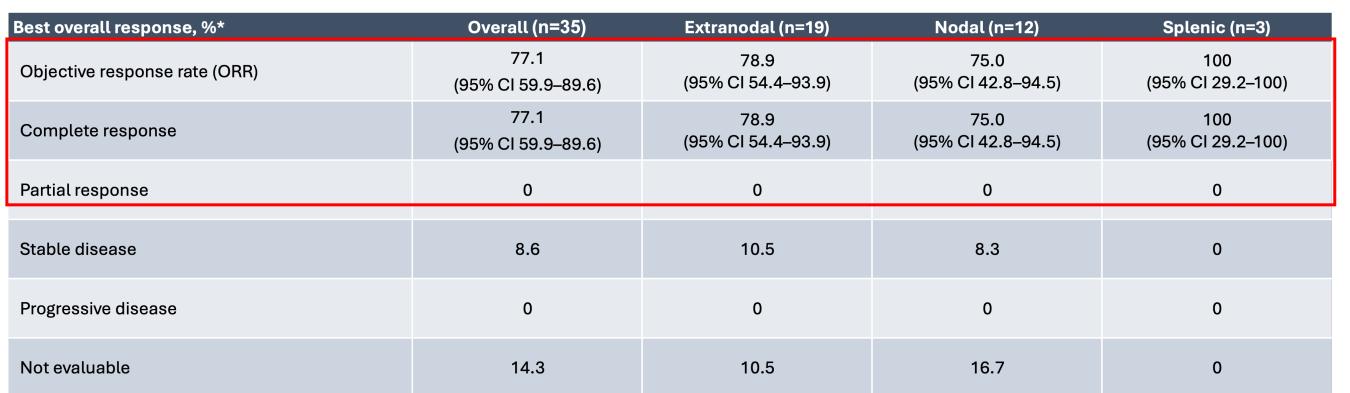


ELM-2 Patient's Characteristic

Patient and disease characteristics		Overall (n=42)*	Extranodal (n=21)	Nodal (n=15)	Splenic (n=5)
Median age (range), years		63.5 (34–82)	59.0 (34–82)	66.0 (38–80)	73.0 (52–80)
Male, %		45.2	42.9	46.7	40.0
Ann Arbor stage III/IV, %		83.3	76.2	93.3	0.08
Bulky disease, %		9.5	14.3	0	20.0
Race, %	White / Asian / Black or African American / Not reported	47.6 / 38.1 / 4.8 / 9.5	33.3 / 57.1 / 4.8 / 4.8	60.0 / 26.7 / 6.7 / 6.7	80.0 / 0 / 0 / 20.0
ECOG PS, %	0/1	45.2 / 54.8	42.9 / 57.1	46.7 / 53.3	40.0 / 60.0
IPI score, %	3/4–5	19.0 / 9.5	23.8 / 0	13.3 / 20.0	20.0 / 20.0
Median number of prior lines of therapy (range)		2 (1–8)	2 (1–8)	2 (1–4)	2 (2–4)
Number of prior lines,† %	<i>≥2/≥3/≥4/≥5</i>	83.3 / 31.0 / 19.0 / 2.4	76.2 / 38.1 / 19.0 / 4.8	93.3 / 20.0 / 13.3 / 0	100 / 40.0 / 40.0 / 0
Primary refractory, %		33.3	38.1	33.3	20.0
Refractory to last line of therapy, %		64.3	57.1	80.0	60.0
Refractory to anti-CD20 antibody in any line, %	, D	47.6	52.4	53.3	20.0
Double refractory to alkylator/anti-CD20 antibo	ody in any line, %	33.3	42.9	33.3	0
Prior BTKi, %		28.6	19.0	33.3	60.0
Prior bendamustine, %	33.3	33.3	40.0	20.0	
Prior ASCT, %	7.1	9.5	6.7	0	
POD24, %		50.0	57.1	60.0	0



ELM-2 Results

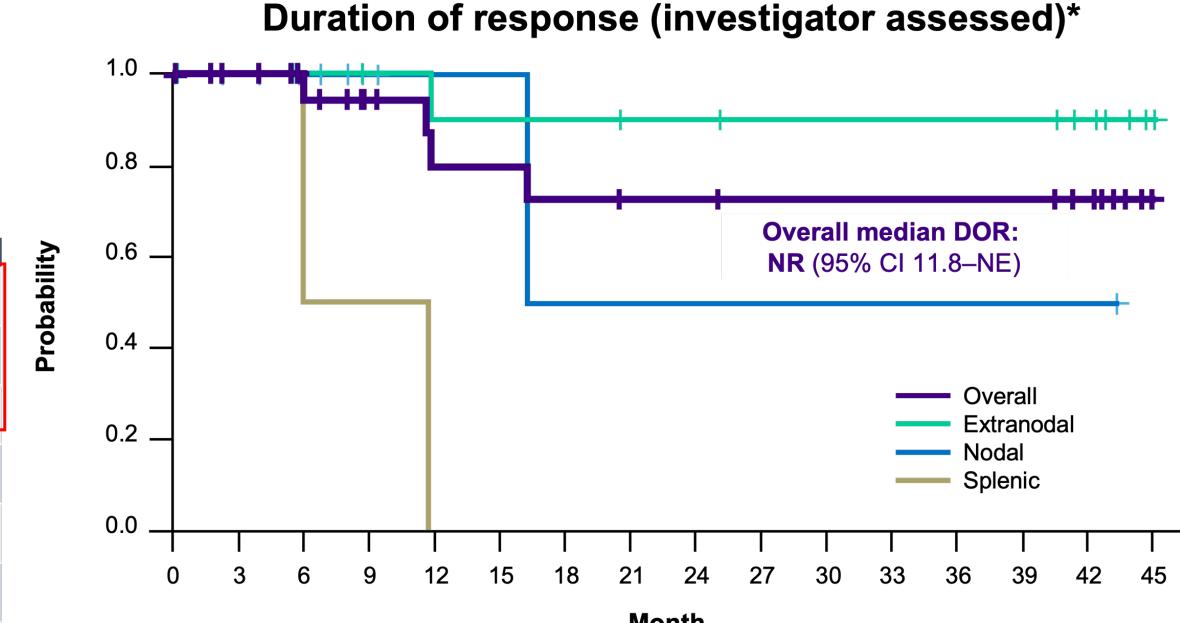


12-month PFS rate (95% CI):

Overall	Extranodal	Nodal	Splenic
87.5 (65.9–95.8)	93.3 (61.3–99.0)	88.9 (43.3–98.4)	50.0 (0.6–91.0)

12-month OS rate (95% CI):

Overall	Extranodal	Nodal	Splenic
92.2 (71.8–98.0)	93.3 (61.3–99.0)	100 (100–100)	50.0 (0.6–91.0)



					Month											
Patients at risk	x, n															
Overall	27	22	18	14	11	11	10	9	9	8	8	8	8	8	6	0
Extranodal	15	12	1 1	10	9	9	9	8	8	7	7	7	7	7	5	0
Nodal	9	8	6	3	2	2	1	1	1	1	1	1	1	1	1	0
Splenic	3	2	1	1	0											

	Overall	Extranodal	Nodal	Splenic
12-mo DOR (95% CI)	80.2 (49.6–93.3)	90.0 (47.3–98.5)	100 (100–100)	0.0 (NE-NE)

PRECEPTORSHIP (

Un confronto sulla gestione delle malattie linfoproliferative al Sant'Orsola di Bologna



Odronextamab demonstrated generally manageable safety consistent with that reported in 3L+ R/R FL

	Overall (n=42)				
n (%)	Any event	Treatment related			
Any TEAE	42 (100.0)	42 (100.0)			
Grade ≥3 TEAE	35 (83.3)	31 (73.8)			
Serious TEAE	27 (64.3)	17 (40.5)			
TEAE leading to dose interruption/delay	35 (83.3)	33 (78.6)			
TEAE leading to dose reduction	4 (9.5)	3 (7.1)			
TEAE leading to discontinuation	4 (9.5)	1 (2.4)			
TEAE leading to death	0	0			

- Safety profile was generally consistent across MZL subtypes, with CRS, IRR, and pyrexia among the most frequent TEAEs
- Treatment-related TEAEs leading to discontinuation: CRS (n=1)
- Overall safety consistent with that in 3L+ R/R FL in ELM-2²

TEAEs* in ≥15% of patients





AEs of interest: CRS and ICANS

	0.7/4/20 mg						
	Overall (n=23)	Extranodal (n=10)	Nodal (n=9)	Splenic (n=4)			
CRS (any grade), n (%)	13 (56.5)	5 (50.0)	5 (55.6)	3 (75.0)			
Grade 1	8 (34.8)	5 (50.0)	2 (22.2)	1 (25.0)			
Grade 2	5 (21.7)	Ο	3 (33.3)	2 (50.0)			
Grade 3	0	О	0	0			
Grade ≥4	0	0	0	0			
Median time to onset CRS (range), hours	4.0 (-6.0-64.0)	4.0 (-6.0-18.7)	3.6 (0.0–64.0)	3.0* (3.0–3.0)			
Median CRS duration (range), hours	6.2 (1.0–29.0)	5.5 (1.4–29.0)	6.0 (1.0–16.8)	6.7* (6.7–6.7)			
Systemic steroid for CRS management, n (%)	8 (34.8)	2 (20.0)	3 (33.3)	3 (75.0)			
Tocilizumab for CRS management, n (%)	7 (30.4)	2 (20.0)	3 (33.3)	2 (50.0)			

- 0.7/4/20 mg step-up regimen:
 - CRS events all Grade 1/2 and generally confined to Cycle 1
 - CRS events resolved within a median of 6.2 hours (range 1.0-29.0) with supportive measures
- No ICANS events reported



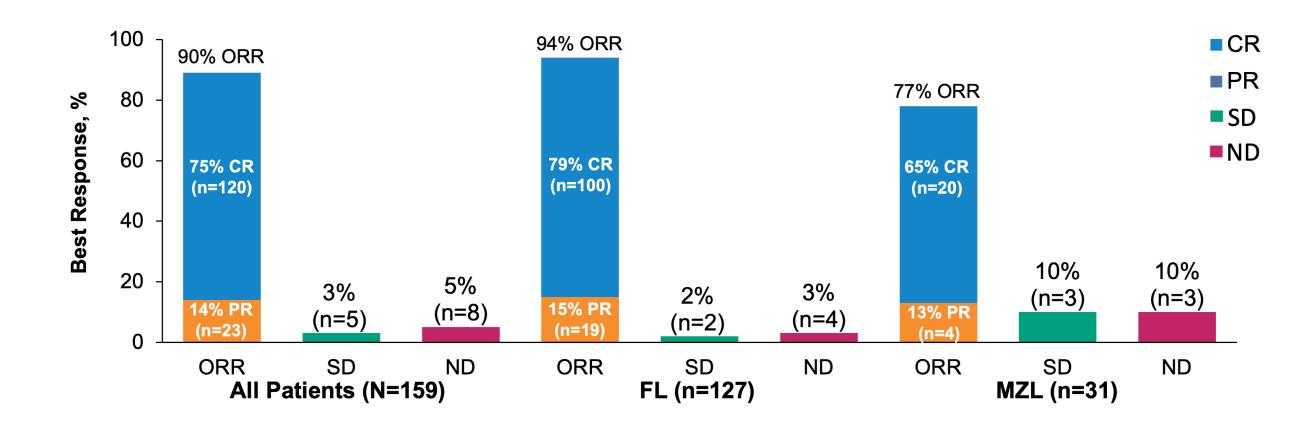
AEs of interest: Infections

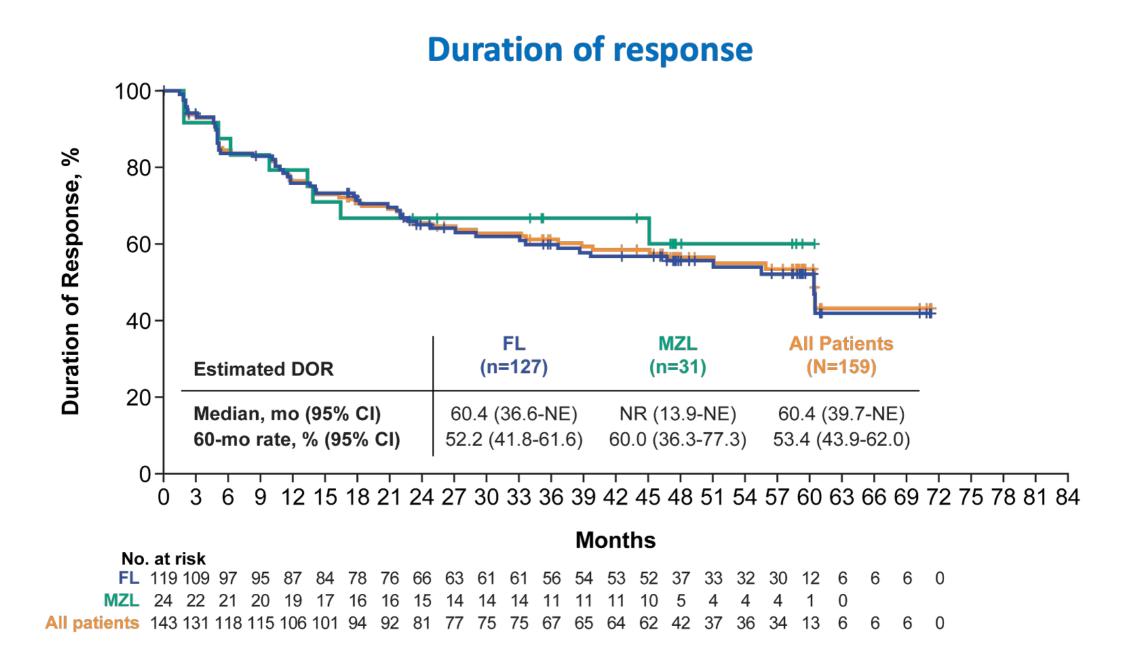
		All safety-evaluable patients							
Patients with any infection TEAE, n (%)	Overall (n=42)	Extranodal (n=21)	Nodal (n=15)	Splenic (n=5)					
Any grade	29 (69.0)	17 (81.0)	9 (60.0)	3 (60.0)					
Grade 1	4 (9.5)	3 (14.3)	1 (6.7)	0					
Grade 2	15 (35.7)	8 (38.1)	5 (33.3)	2 (40.0)					
Grade 3	9 (21.4)	5 (23.8)	3 (20.0)	1 (20.0)					
Grade 4	1 (2.4)	1 (4.8)	0	0					
Grade 5	0	0	0	0					

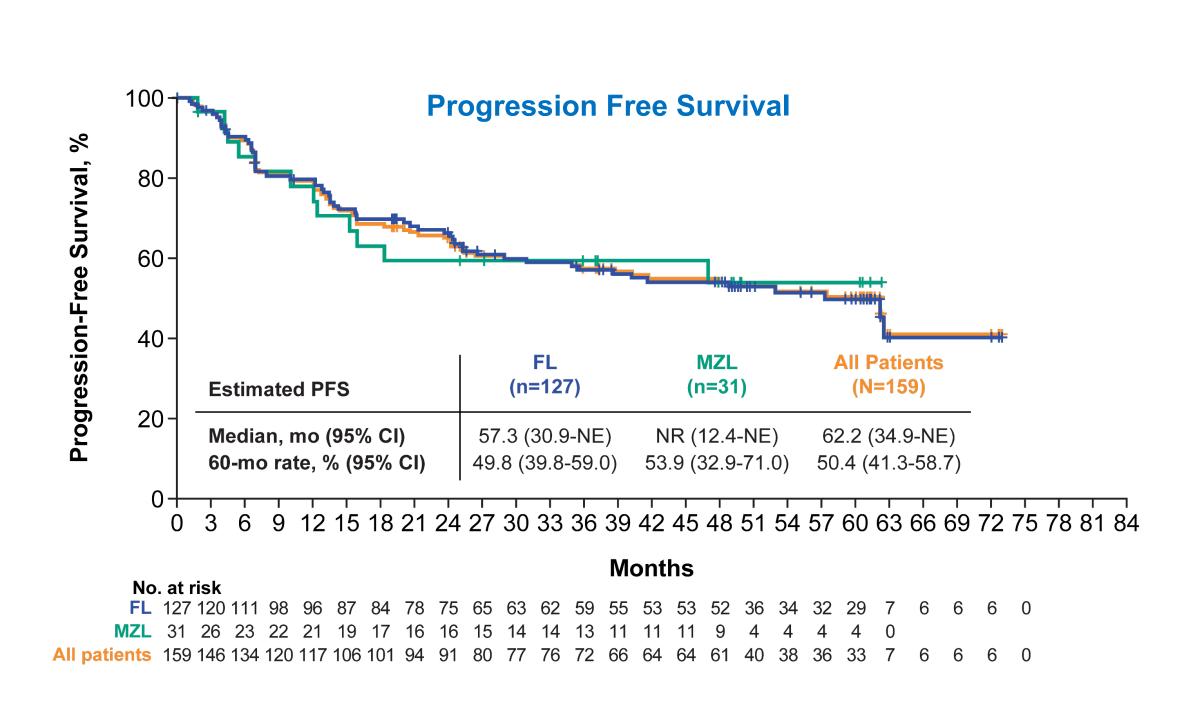
- Most frequent infections: COVID-19* (19.0%), cytomegalovirus reactivation† (11.9%), upper respiratory tract infection† (9.5%), and herpes zoster† (9.5%)
- Infection incidence was broadly similar across extranodal, nodal, and splenic subtypes
- No treatment discontinuations due to treatment-related infections
- No Grade 5 infections
- COVID-19* infection was reported in eight patients overall (Grade 3/4, n=2; no Grade 5)



ZUMA-5: Ph 2 Trial of Axicel in 3L+ MZL









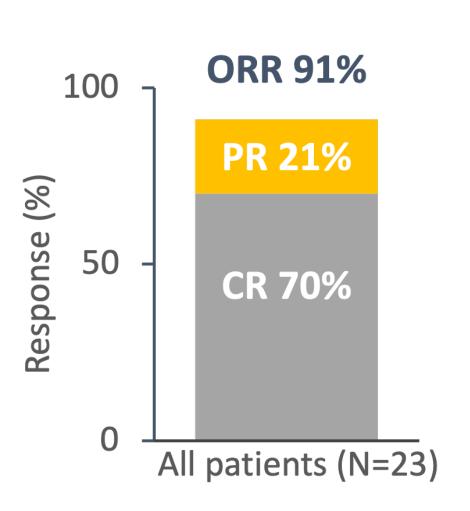
ADC – Ph 2 Trial of Lonca in RR MZL



23 patients enrolled

- Median age was 65 years (range 45–82)
- 100% had ECOG PS 0-1
- 83% had stage III/IV disease
- 48% had POD24
- 61% had relapsed disease
- 39% were refractory
- Median no. of prior LoT was
 2 (range 1–4)

Response rates



Additional efficacy findings

93% of CRs currently maintained

64% of POD24 patients achieved CR

1 patient received prior CAR-T and achieved CR

67% 92% 18-mo DoCR 12-mo PFS

Lonca was generally well tolerated

%	Any Grade	Grade 3–4
Maculopapular rash	65	4
Increased AST	65	0
Increased ALT	61	9
Increased ALP	48	13
Neutropenia	43	17
Local oedema	43	0
Photosensitivity	30	4
Anaemia	30	4

- 1 patient discontinued treatment[†]
- 3 patients required Lonca dose reductions
- No treatment-related deaths occurred



BTK Degrader:

	FL (n=17)		FL (FL (n=17)		MZL (n=29)		
Age, median (range), years	70 (52-86)	75 (33-88)		Patients, n (%)	Any Grade	Grade ≥3	Any Grade	Grade ≥3
Male, n (%)	13 (76.5)	13 (44.8)		URTI	4 (23.5)	1 (5.9)	4 (13.8)	0
ECOG PS, n (%)	(,	,		Fatique	3 (17 6)	0	7 (24.1)	0
	Patients, n (%)			FL (n=12)	MZL (n=20)	0	6 (20.7)	0
0	Best overall resp	onse, n (%)				0	4 (13.8)	0
1	CR			1 (8.3)	2 (10.0)	1 (5.9)	3 (10.3)	0
Ann Arbor stage III/IV at study entry, n/N (%) ^a	PR			4 (33.3)	8 (40.0)	2 (11.8)	8 (27.6)	6 (20.7)
Tumor bulk, n (%)	SD			3 (25.0)	5 (25.0)	0	4 (13.8)	0
Longest diameter ≥5 cm	PD		3 (25.0)	3 (15.0)	0	3 (10.3)	0	
No. of prior lines of therapy, median (range)	ORR, n (%) ^a		5 (41.7)	10 (50.0)	0	3 (10.3)	1 (3.4)	
Prior therapy, n (%)	Disease control rate, n (%) ^b		8 (66.7)	15 (75.0)	0	3 (10.3)	1 (3.4)	
cBTK inhibitor	Time to first response, median (range), months ^c		2.6 (2.3-3.3)	2.9 (2.6-9.9)	0	3 (10.3)	0	
ncBTK inhibitor	Duration of response, median (95% CI), months ^c		9.5 (5.7-NE)	10.8 (2.8-NE)	0	4 (13.8)	0	
BCL2 inhibitor	0	7 (24.1)		Asthenia	0	0	4 (13.8)	1 (3.4)
Anti-CD20-based therapy	17 (100)	29 (100)		Petechiae	0	0	4 (13.8)	0
Chemotherapy	16 (94.1)	28 (96.6)		Decreased appetite 0		0	3 (10.3)	0
Discontinued prior BTK inhibitor due to PD, n/N (%)	3/3 (100)	21/25 (84.0)b		Hematoma	0	0	3 (10.3)	0