



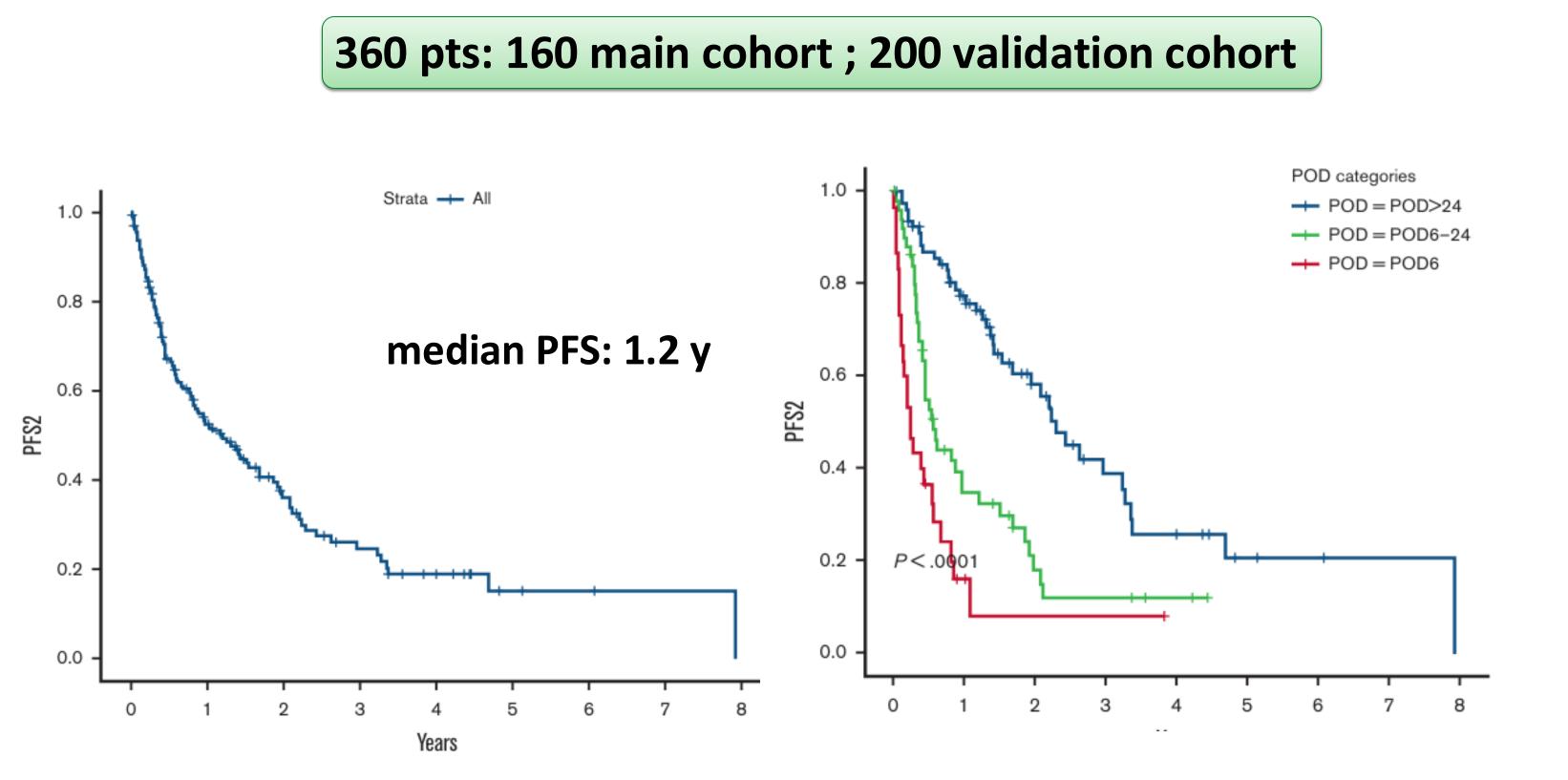


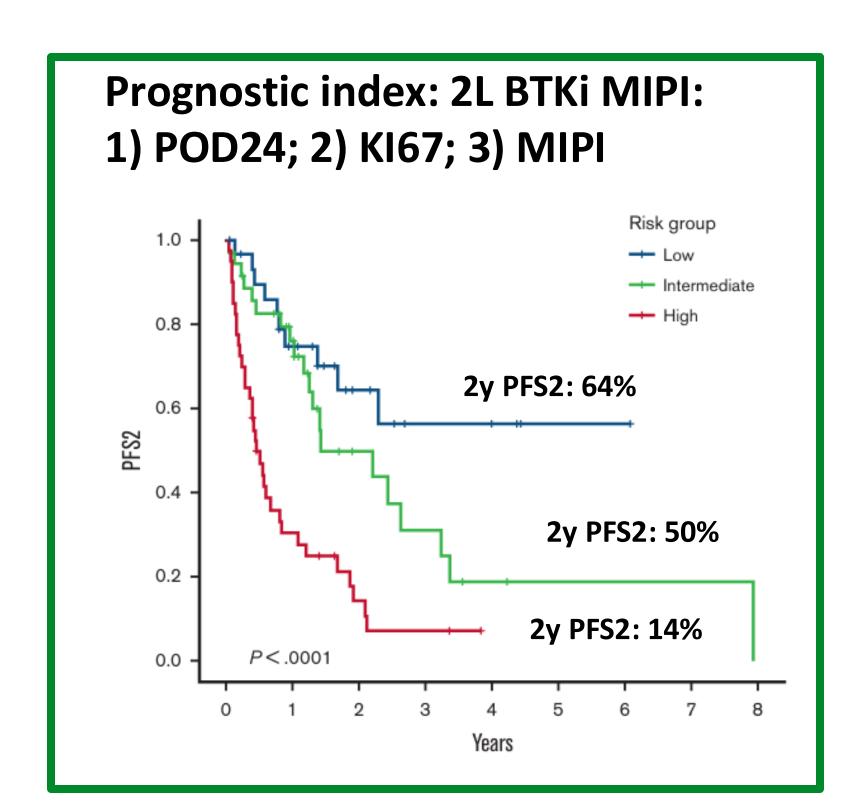
Disclosures of Maria Chiara Tisi

Company name	Research support	Employee	Consultant	Stockholder	Speakers bureau	Advisory board	Other
Gilead Science					X	X	
Novartis					X	X	
BMS					X	X	
Roche					X	X	
Incyte					X		
Lilly					X		
Janssen					X		
SOBI					X	X	
Beigene					X	X	
Abbvie					X	X	



Background - Time to progression of disease and outcomes with second-line BTK inhibitors on r/r MCL



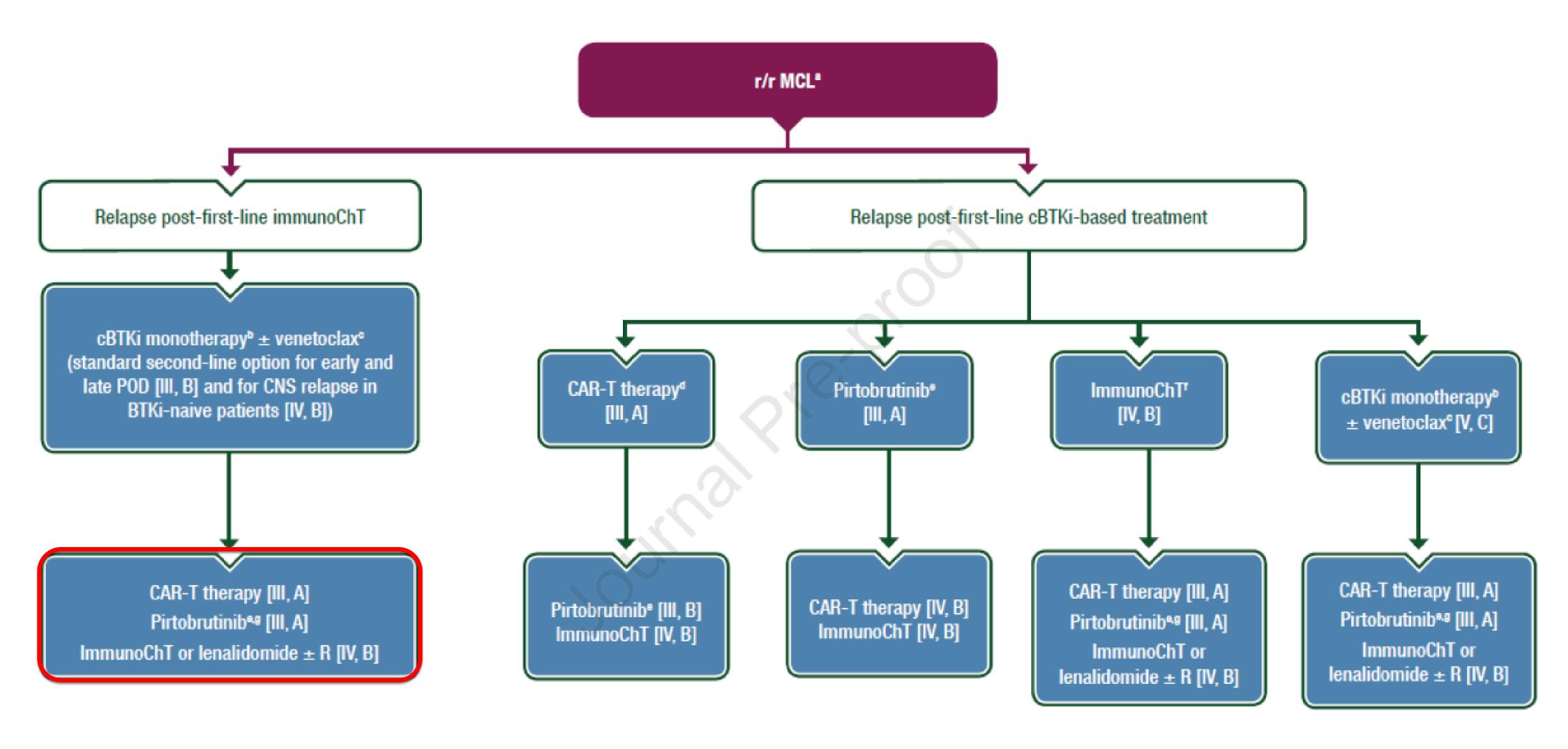


The 2L BTKi MIPI identifies patients expected to have limited disease control with 2L BTKis and who may benefit from other therapies

Villa et al, Blood Advances 2023



Management of R/R MCL – ESMO guidelines



Eyre TA et al, Annals of Oncology 2025



CART – ZUMA-2 Brexucel – 5y outcomes

Baseline patient and disease characteristics

Baseline Characteristics	
Characteristic	N = 68
Median age (range), years	65 (38 – 79)
≥ 65 years, n (%)	39 (57)
Male, n (%)	57 (84)
Stage IV disease, n (%)	58 (85)
ECOG PS, n (%)	
0	44 (65)
1	24 (35)
Bulky disease (≥ 10 cm), n (%)	7 (10)
Intermediate/high-risk MIPI, n (%)	38 (56)
Ki-67 proliferation index ≥ 50%, n/n (%)*	34/49 (69)
TP53 mutation, n/n (%)	6/36 (17)
Bone marrow involvement, n (%)	37 (54)
Extranodal disease, n (%) [†]	38 (56)
MCL morphology, n (%) [‡]	
Classical	40 (59)
Pleomorphic	4 (6)
Blastoid	17 (25)

Prior therapies										
Characteristic N = 68										
Median no. of prior therapies (range)*	3 (1-5)									
≥ 3 prior lines of therapy, n (%)	55 (81)									
Anthracycline or bendamustine, n (%)	67 (99)									
Anthracycline	49 (72)									
Bendamustine	37 (54)									
BTKi, n (%)	68 (100)									
Ibrutinib	58 (85)									
Acalabrutinib	16 (24)									
Both	6 (9)									
Relapsed/refractory subgroup, n (%)										
Relapsed after autologous SCT	29 (43)									
Refractory to last prior therapy	27 (40)									
Relapsed after last prior therapy	12 (18)									
BTKi relapsed/refractory status, n (%)	68 (100)									
Refractory to BTKi	42 (62)									
Relapsed on BTKi	18 (26)									
Relapsed after BTKi	5 (7)									
Intolerant to BTKi [†]	3 (4)									

Cohort 1: 2 x 10⁶ cells/kg; Cohort 2: 0.5 x 10⁶ cells/kg

Cohort 2 did not achieve full enrollment (limited CAR T-cell area under the curve expansion in Cohort 2)

Wang et al, N Engl J Med 2020; Wang et al, ASH 2024, Abstract 4388

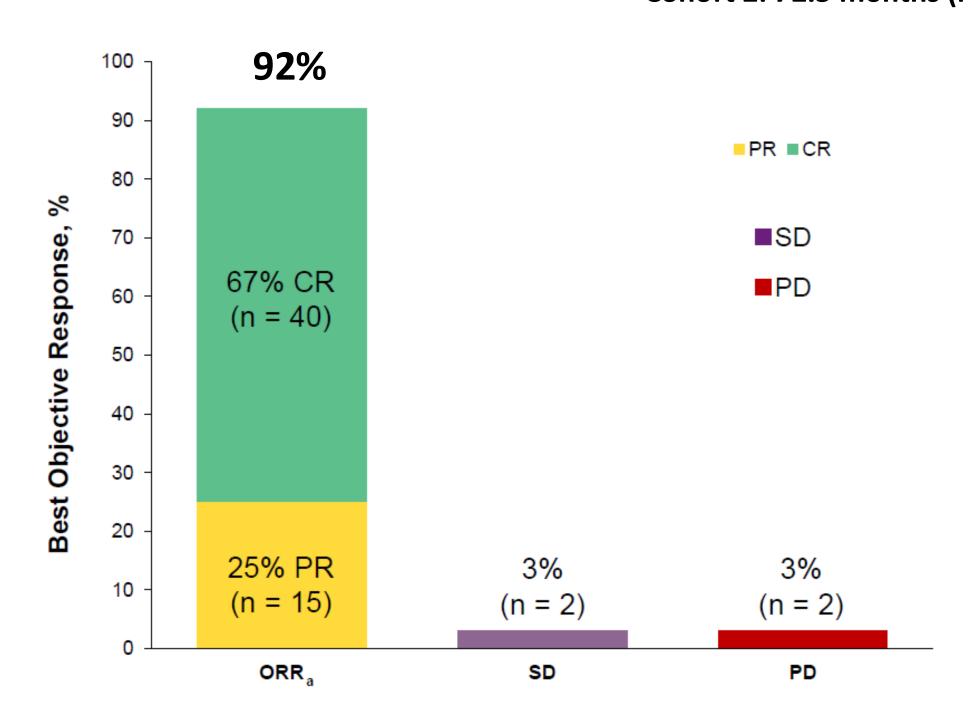


CART – ZUMA-2 Brexucel – 5y outcomes

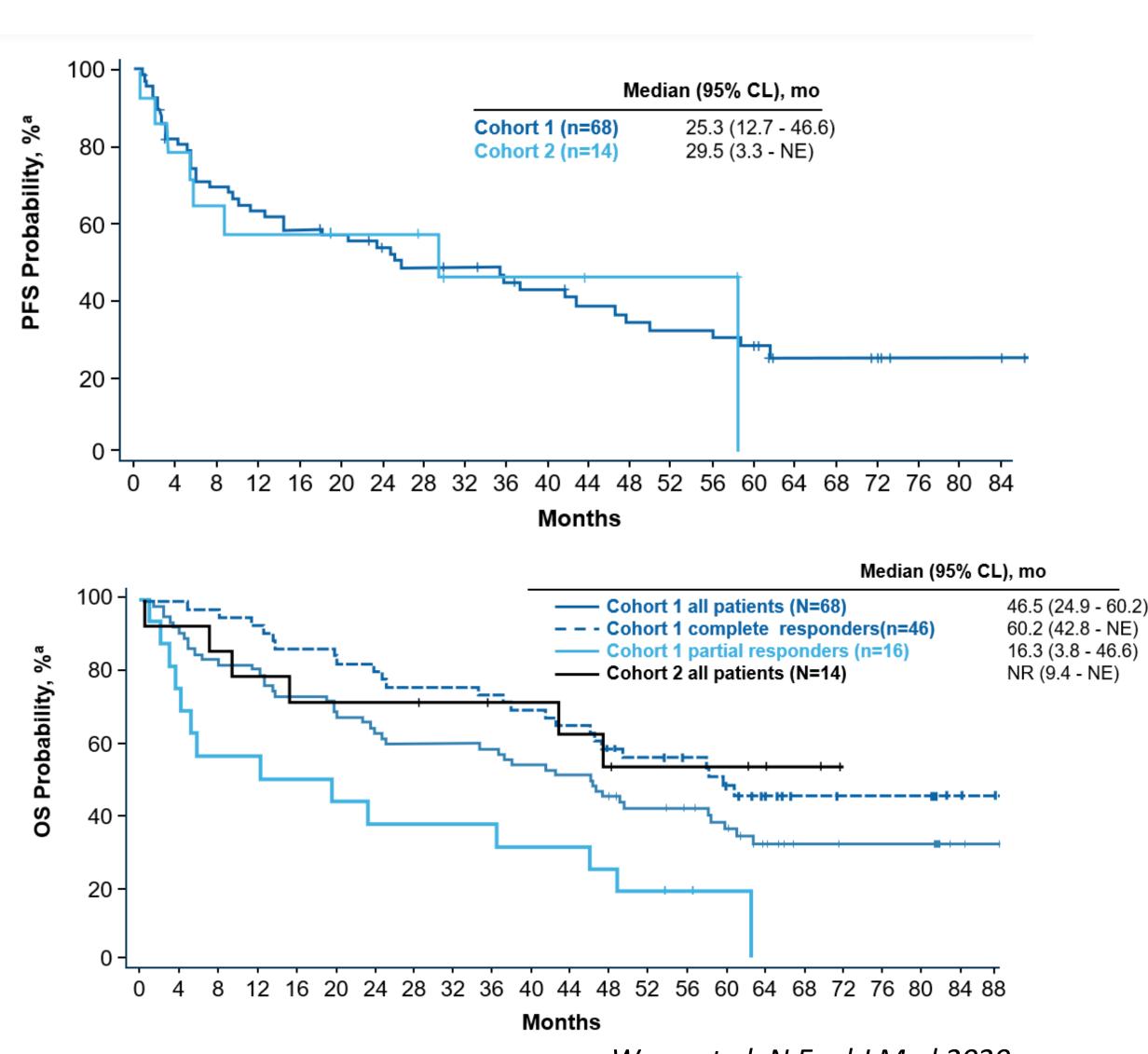
Efficacy and survival

median f-up

Cohort 1: 67.8 months (range, 58.2-88.6) Cohort 2: 72.3 months (range, 70.1-74.3)



In Cohort 2 primary analysis,
ORR was 93% (95% CI, 66.1-99.8);
64% of patients had a CR and 29% had a PR



Wang et al, N Engl J Med 2020; Wang et al, ASH 2024, Abstract 4388



CART – ZUMA-2 Brexucel – 5y outcomes

Safety and expansion

AEs of Interest, n (%)	Cohort 1 (N=68)	Cohort 2 (N=14)
Any CRSª	62 (91)	13 (93)
Grade ≥3	10 (15)	2 (14)
Any neurologic event ^b	43 (63)	13 (93)
Grade ≥3	21 (31)	6 (43)
Any thrombocytopenia	50 (74)	7 (50)
Grade ≥3	36 (53)	6 (43)
Any neutropenia	59 (87)	11 (79)
Grade ≥3	58 (85)	11 (79)
Any anemia	47 (69)	7 (50)
Grade ≥3	36 (53)	6 (43)
Any infection	37 (54)	7 (50)
Grade ≥3	26 (38)	3 (21)
Any hypogammaglobulinemia	14 (21)	0
Grade ≥3	1 (1)	0

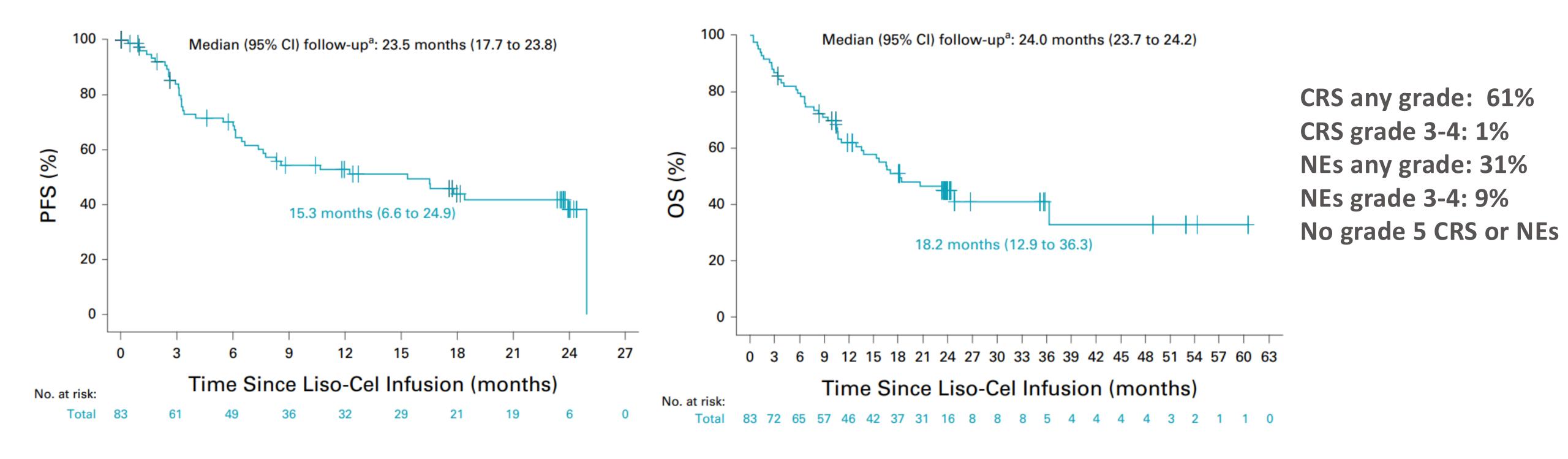
- no cases of Grade 5 CRS or neurological events occurred;
- 5-year rates of PD-related death 40% (24/60)
- 5-year non-PD-related death 22% (13/60)
- On LTFU, 1 patient had 3 ongoing AEs: hypogammaglobulinemia and 2 viral infections that arose prior to LTFU
- Two patients died on LTFU, both due to PD
- No cases of secondary T-cell malignancies were reported in ZUMA-2

Wang et al, N Engl J Med 2020; Wang et al, ASH 2024, Abstract 4388



CART – TRANSCEND NHL 001 study, Liso-Cel

Of 104 leukapheresed patients, 88 received liso-cel In the total of 83 pts (efficacy set) ORR was 83.1% and CR was 72.3%



Palomba et al, ASH 2023, abstr 3505; Wang et al, JCO 2024



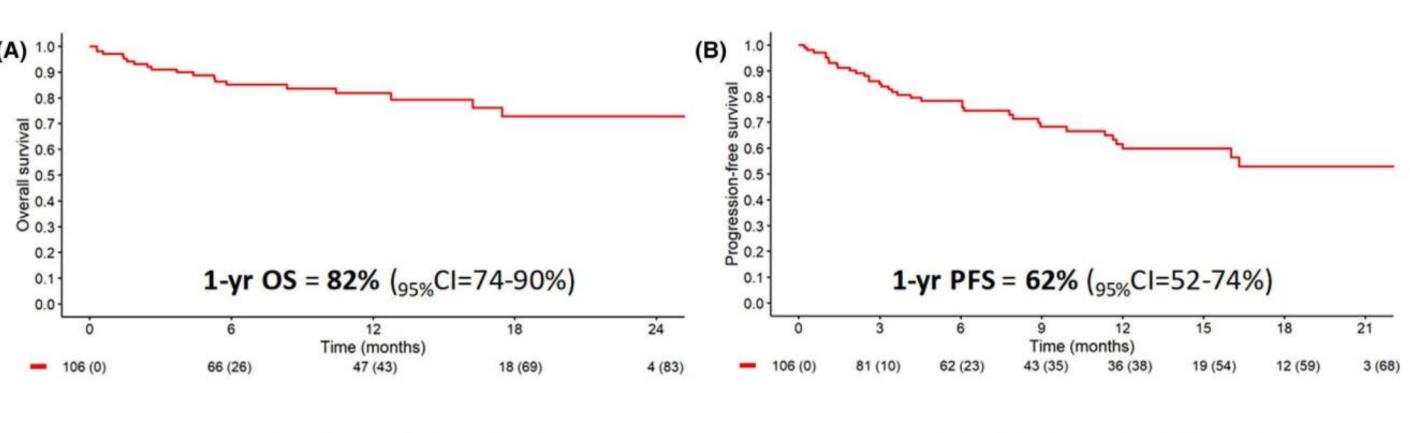
CART – RWE – The Italian Experience

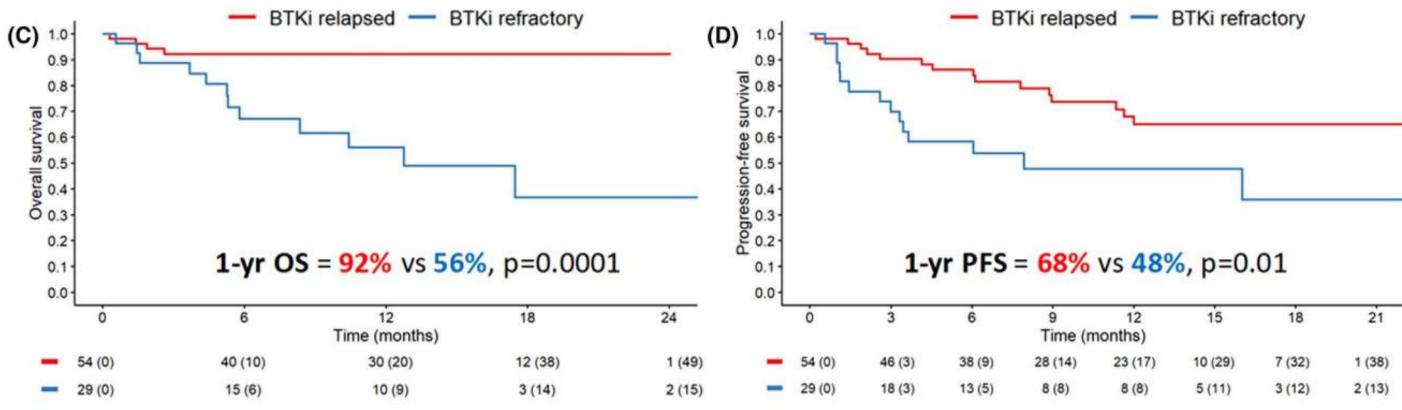


refractoriness have a negative influence on progression-free survival in mantle cell lymphoma: Results from CART-SIE study

Federico Stella^{1,2} | Annalisa Chiappella² | Martina Magni² | Francesca Bonifazi³ |

- 106 pts; median age 63 (42-79)
- Previous lines 3 (2–5)
 - The best ORR 88%
 - CR rate 75%
 - ORR at 90 days was 77%





Stella et al, BJHaem, 2024



Cohen et al, ASH 2023; Wang M et al, JCO 2023

Non-Covalent (Reversible) BTK Inhibitor

Characteristics	Prior cBTKi n=152	cBTKi Naïve n=14
Median age, years (range)	70 (46-88)	67 (60-86)
Male, n (%)	120 (79)	10 (71)
Histology, n (%)		
Classic/leukemic	120 (79)	11 (79)
Pleomorphic/Blastoid	32 (21)	3 (21)
ECOG PS, n (%)		
0	93 (61)	5 (36)
1	56 (37)	8 (57)
2	3 (2)	1 (7)
sMIPI score, n (%)		
Low risk (0-3)	30 (20)	3 (21)
Intermediate risk (4-5)	79 (52)	5 (36)
High risk (6-11)	43 (28)	6 (43)
Bulky Lymphadenopathy (cm), n (%)		
<5	94 (62)	8 (57)
≥5	36 (24)	5 (36)
No Measurable Lymph Node	22 (15)	1 (7)
Bone marrow involvement, n (%)		
Yes	81 (53)	4 (29)
No	71 (47)	10 (71)
Median number of prior lines of systemic therapy, n (range)	3 (1-9)	2 (1-3)

Characteristics	Prior cBTKi n=152	cBTKi Naïve n=14
Prior therapy, n (%)		
BTK inhibitor	152 (100)	0 (0)
Anti-CD20 antibody	147 (97)	14 (100)
Chemotherapy	137 (90)	14 (100)
Immunomodulator	26 (17)	1 (7)
Stem cell transplant	33 (22)	7 (50)
Autologous	30 (20)	7 (50)
Allogeneic	7 (5)	0 (0)
BCL2 inhibitor	24 (16)	0 (0)
CAR-T	13 (9)	0 (0)
PI3K inhibitor	6 (4)	1 (7)
Reason discontinued any prior BTKia, n	(%)	
Progressive disease	128 (84)	-
Toxicity / Other	21 (14)	-
Unknown	3 (2)	-
TP53 Mutation status, n (%)		
Yes	30 (20)	3 (21)
No	30 (20)	4 (29)
Missing	92 (61)	7 (50)
Ki-67 index, n (%)		
<30%	18 (12)	2 (14)
≥30%	45 (30)	6 (43)
Missing	89 (59)	6 (43)



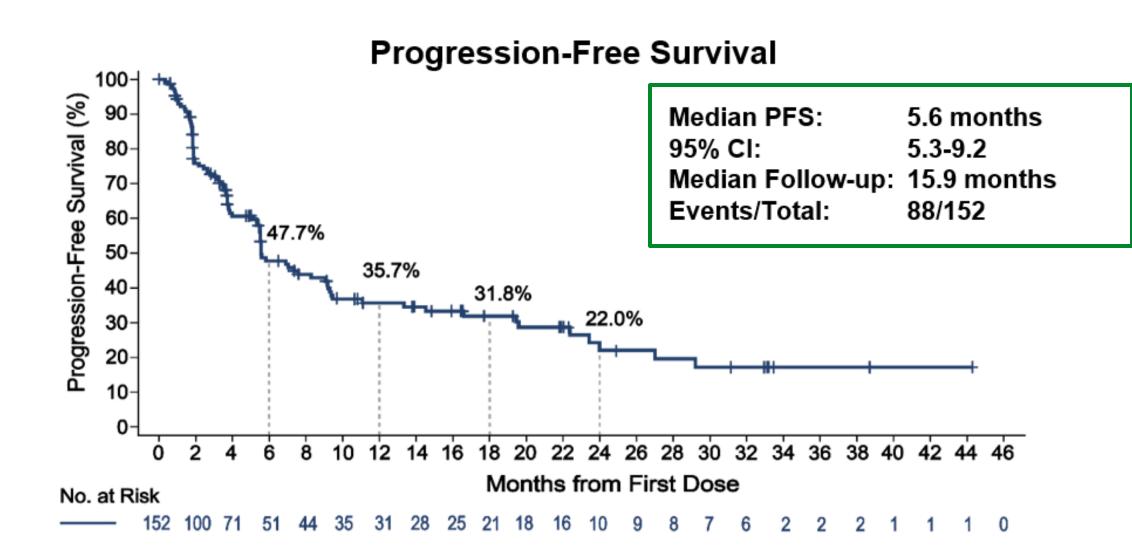
Efficacy and outcomes in prior cBTKi

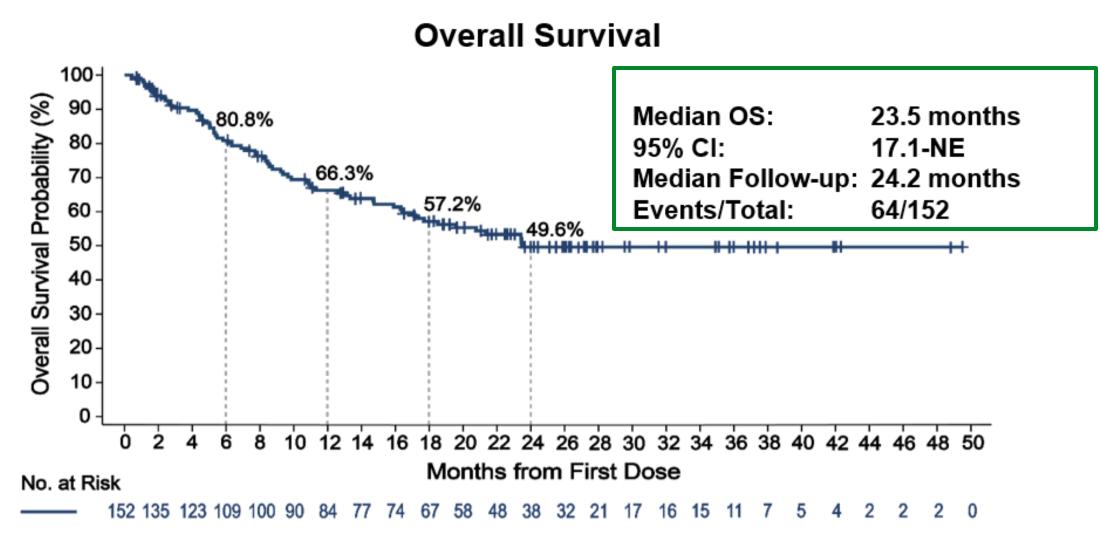
Prior cBTKi	n=152
ORR ^b , % (95% CI)	49.3 (41.1-57.6)
Best Response, n (%)	
CR	24 (15.8)
PR	51 (33.6)

Median Time to First Response was 1.8 months (range: 0.8-13.8)

cBTKi Naive Cohort:

- ORRa 85.7% (95% CI: 57.2-98.2)
- 6 CR (42.9%) and 6 PR (42.9%)





Cohen et al, ASH 2023; Wang M et al, JCO 2023



Pirtobrutinib Safety Profile

	Treatment-Emergent AEs in Patients with MCL (n=166)									
	All Cause AE	s, (≥15%), %	Treatment-Re	lated AEs, %						
Adverse Event	Any Grade	Grade ≥3	Any Grade	Grade ≥3						
Fatigue	31.9	3.0	21.1	2.4						
Diarrhea	22.3	0.0	12.7	0.0						
Dyspnea	17.5	1.2	9.0	0.6						
Anemia	16.9	7.8	7.2	2.4						
Platelet Count Decreased	15.1	7.8	7.8	3.0						
AEs of Interest ^a	Any Grade	Grade ≥3	Any Grade	Grade ≥3						
Infections ^b	42.8	19.9	15.7	3.6						
Bruising ^c	16.3	0.0	11.4	0.0						
Rash ^d	14.5	0.6	9.0	0.0						
Arthralgia	9.0	1.2	2.4	0.0						
Hemorrhagee	10.2	2.4	4.2	0.6						
Hypertension	4.2	0.6	1.8	0.0						
Atrial Fibrillation/Flutter ^{f,g}	3.6	1.8	0.6	0.0						

Median time on treatment was 5.5 months for the MCL cohort Discontinuations due to TRAEs occurred in 3% (n=5) of patients with MCL Dose reductions due to TRAEs occurred in 5% (n=8) of patients with MCL

Cohen et al, ASH 2023; Wang M et al, JCO 2023



Bispecific - NP30179 Phase I/II study – Glofitamab in RR MCL

Patients baseline characteristics

n (%) of pati	ients unless stated	Prior BTKi (n=31)*	BTKi naïve (n=29)*	All patients (N=60)*
Median age,	years (range)	70.0 (41-84)	72.0 (52–86)	72.0 (41–86)
Male		23 (74.2)	21 (72.4)	44 (73.3)
Ann Arbor s	stage III/IV	28 (90.3)	24 (82.8)	52 (86.7)
MIPI score ≥	≥6	7 (22.6)	8 (27.5)	15 (25.0)
Median no.	of prior lines (range)	3.0 (1–5)	2.0 (1–4)	2.0 (1–5)
	since last prior therapy to first study nonths (range)	1.3 (0.1–53.2)	7.4 (1.1–132.5)	2.4 (0.1–132.5)
Median time since last anti-CD20 therapy to first study treatment, months (range)		15.1 (0.7–159.0)	25.1 (1.4–132.5)	16.3 (0.7–159.0)
Refractory	Refractory to any prior therapy	30 (96.8)	20 (69.0)	50 (83.3)
status	Refractory to 1L therapy Refractory to last prior therapy	17 (54.8) 27 (87.1)	14 (48.3) 17 (58.6)	31 (51.7) 44 (73.3)

Patients with R/R MCL were heavily pretreated and highly refractory to their last prior therapy

A higher proportion of patients with prior BTKi therapy were refractory to their last prior therapy

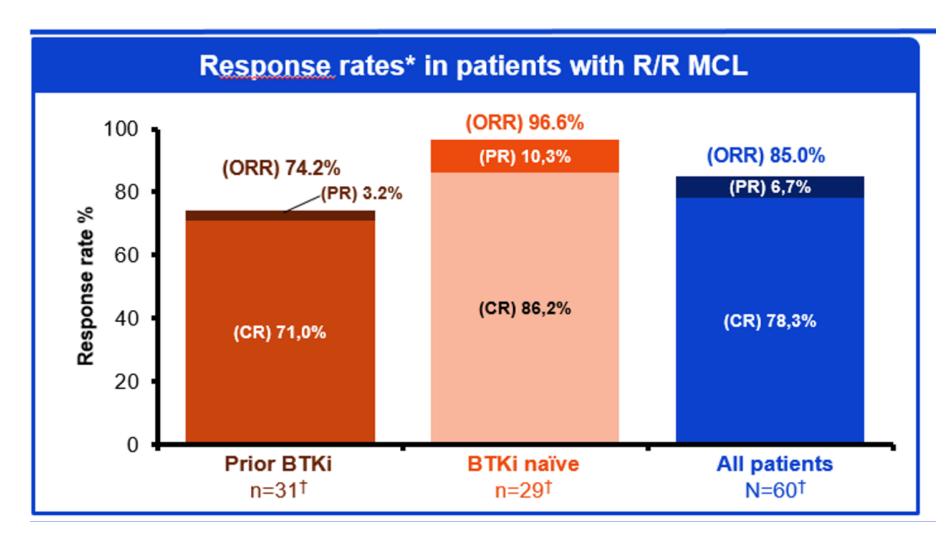
compared with BTKi-naïve patients

Phillips T et al, ASH 2022; Phillips T et al, ASCO 2024; Phillips T et al, EHA 2024; Philips et al JCO 2024

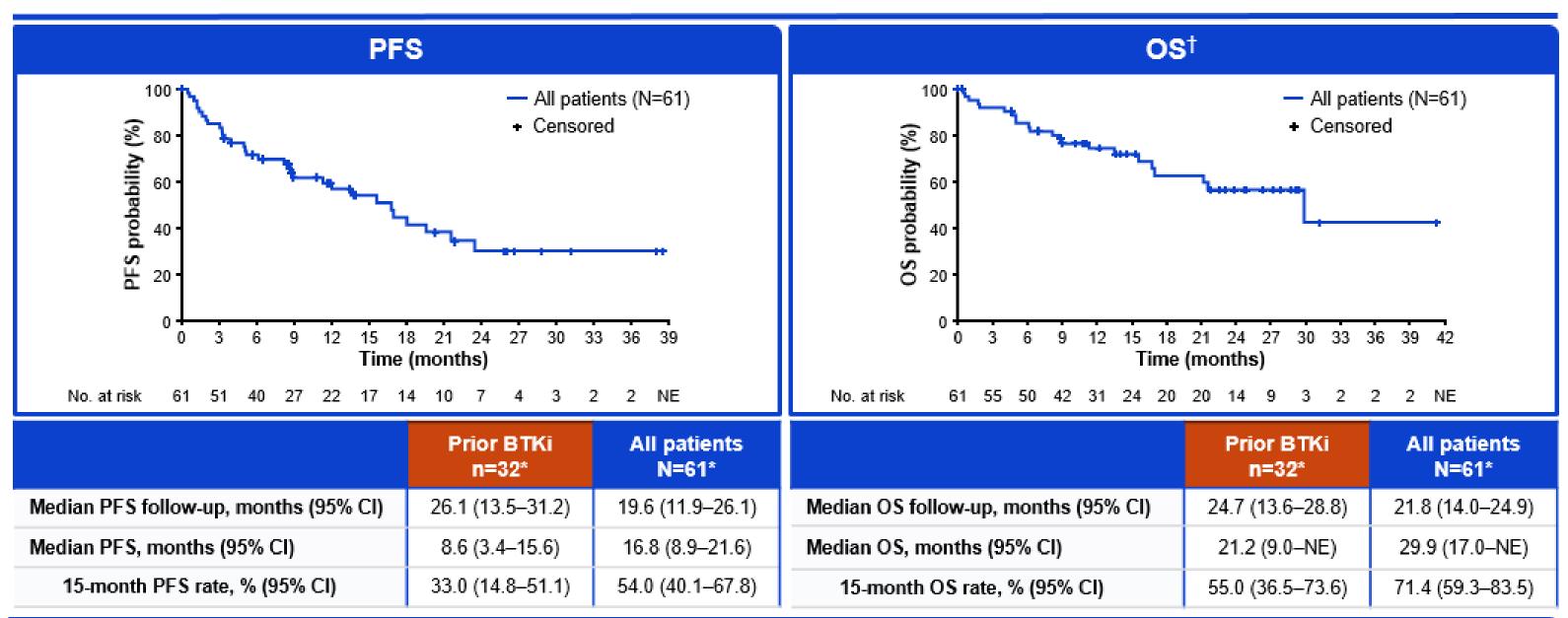


Bispecific - NP30179 Phase I/II study – Glofitamab in RR MCL

Response rates



Median time to first response among responders (n=51): 42 days (95% CI: 42.0–45.0)



Median DOR 15 months

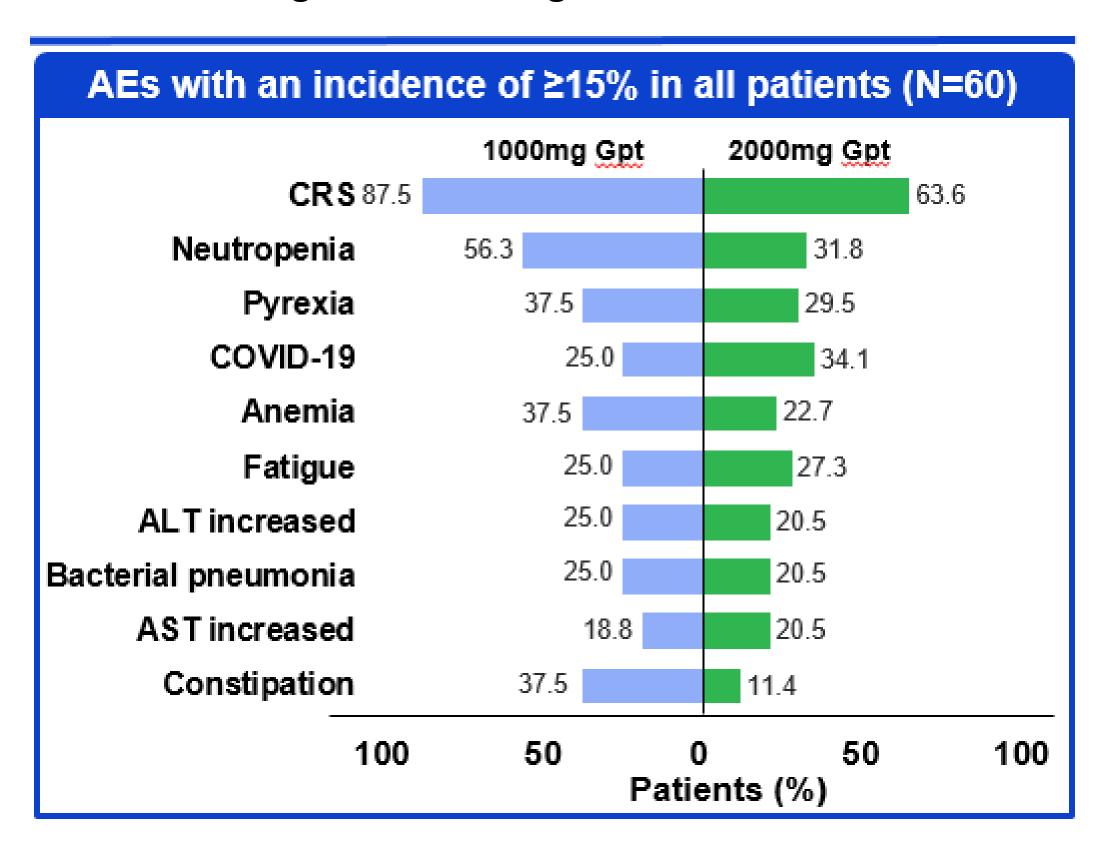
Median follow-up 17 months

Phillips T et al, ASH 2022; Phillips T et al, ASCO 2024; Phillips T et al, EHA 2024



Bispecific - NP30179 Phase I/II study – Glofitamab in RR MCLSafety

A lower incidence of CRS was observed in the 2000mg versus 1000mg cohort



ICANS any grade (3 pts – 5%) – all **G1-G2**

n (%)	1000mg Gpt cohort (n=16)	2000mg Gpt cohort (n=44)	All patients (N=60)				
Any grade CRS*	14 (87.5)	28 (63.6)	42 (70.0)				
Grade 1	4 (25.0)	18 (40.9)	22 (36.7)				
Grade 2	6 (37.5)	7 (15.9)	13 (21.7)				
Grade 3	2 (12.5)	3 (6.8)	5 (8.3)				
Grade 4	2 (12.5)	0	2 (3.3)				
Serious AE of CRS [†]	11 (68.8)	12 (27.3)	23 (38.3)				

Phillips T et al, ASH 2022; Phillips T et al, ASCO 2024; Phillips T et al, EHA 2024

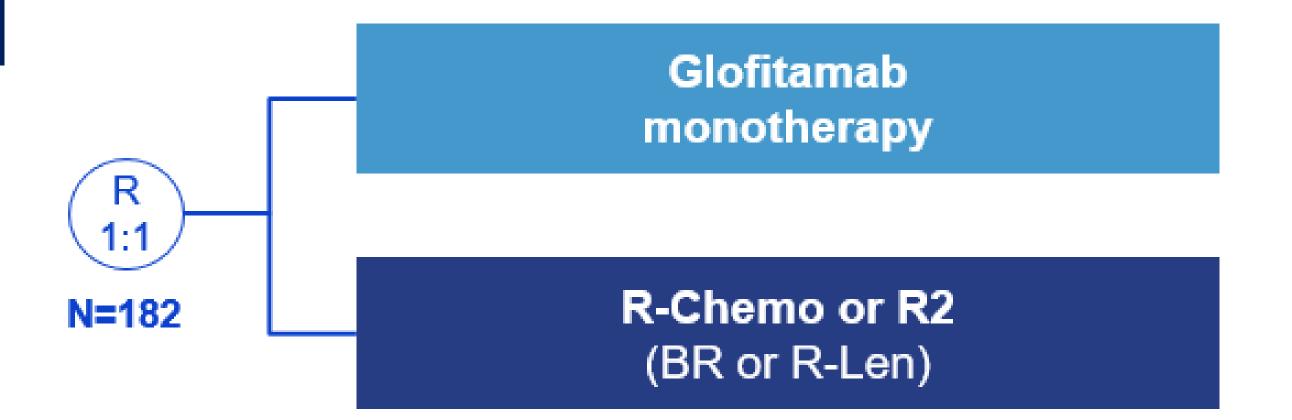


GLOBRYTE¹: A Phase III, Open-label, Multicenter Randomized Study Evaluating Glofitamab As A Single Agent Versus Investigator's Choice in Patients With R/R MCL



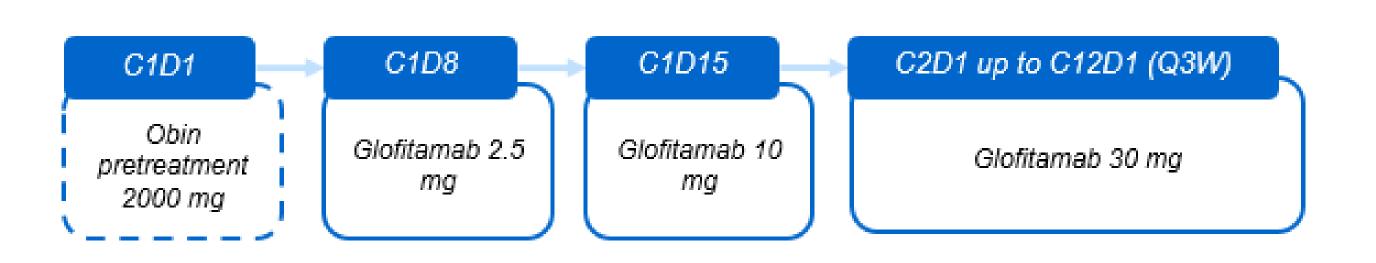
Key Inclusion Criteria

- Histologically confirmed MCL with documentation of either overexpression of cyclin D1 or the presence of t(11:14)
- Relapsed or refractory disease
- Prior therapy must have included a BTKi
- At least 1 bi-dimensionally measurable (1.5 cm) nodal lesion, or 1 bi-dimensionally measurable (1 cm²) extranodal lesion, as measured on computed tomography scan



Other Study Details

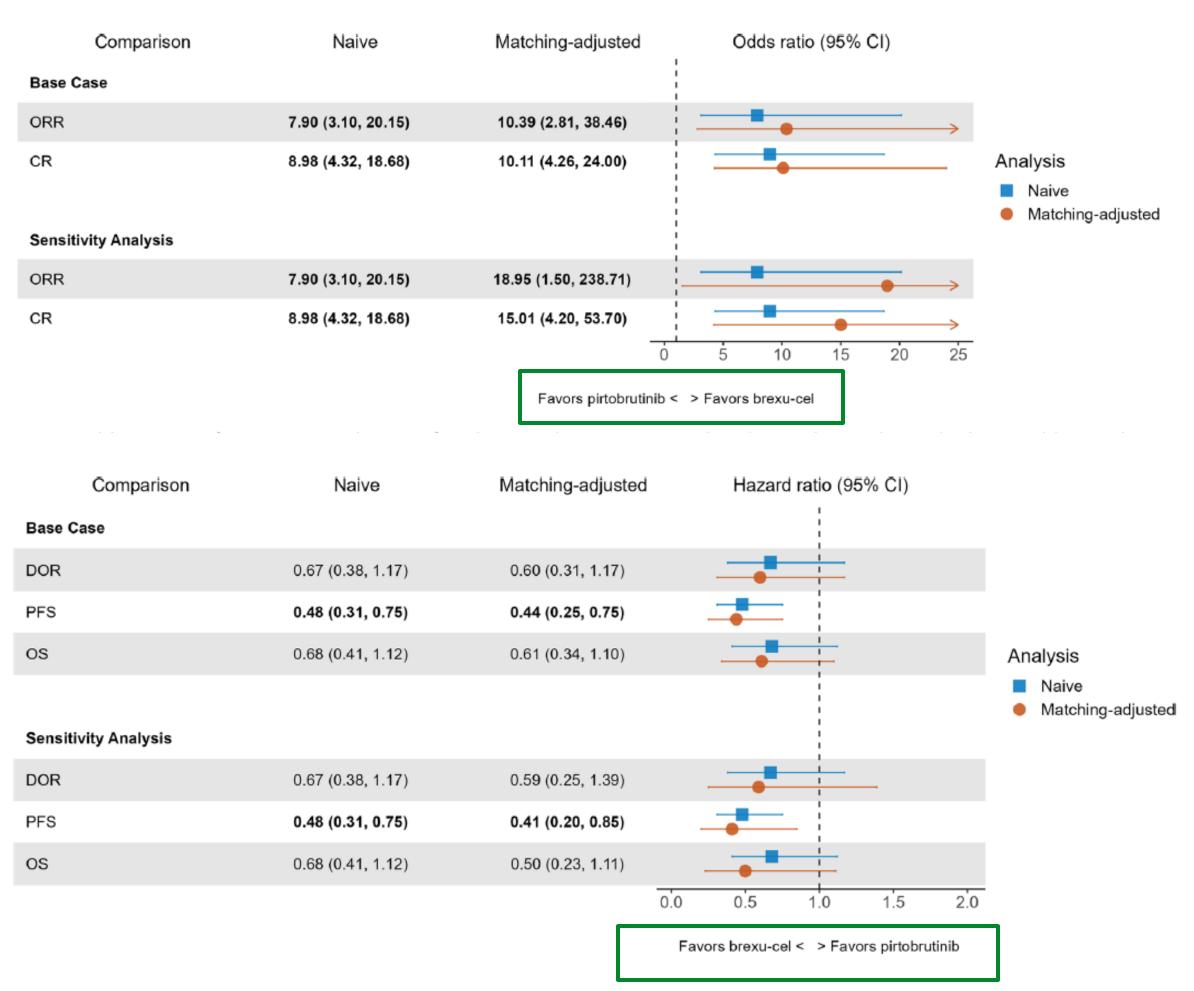
- Primary EP: PFS by IRC
- Secondary EPs: ORR, CR, OS, PFS (INV), DOR, DOCR
- Exploratory EPs: QOL, PK/PD/ADAs, Biomarkers, Safety
- Stratification factors: 2L vs 3L+, outcome of last line of therapy (relapsed vs refractory)
- Mandatory hospitalization after Dose 1
- Crossover to glofitamab permitted on confirmed progression



NCT06084936. Available at: https://www.clinicaltrials.gov

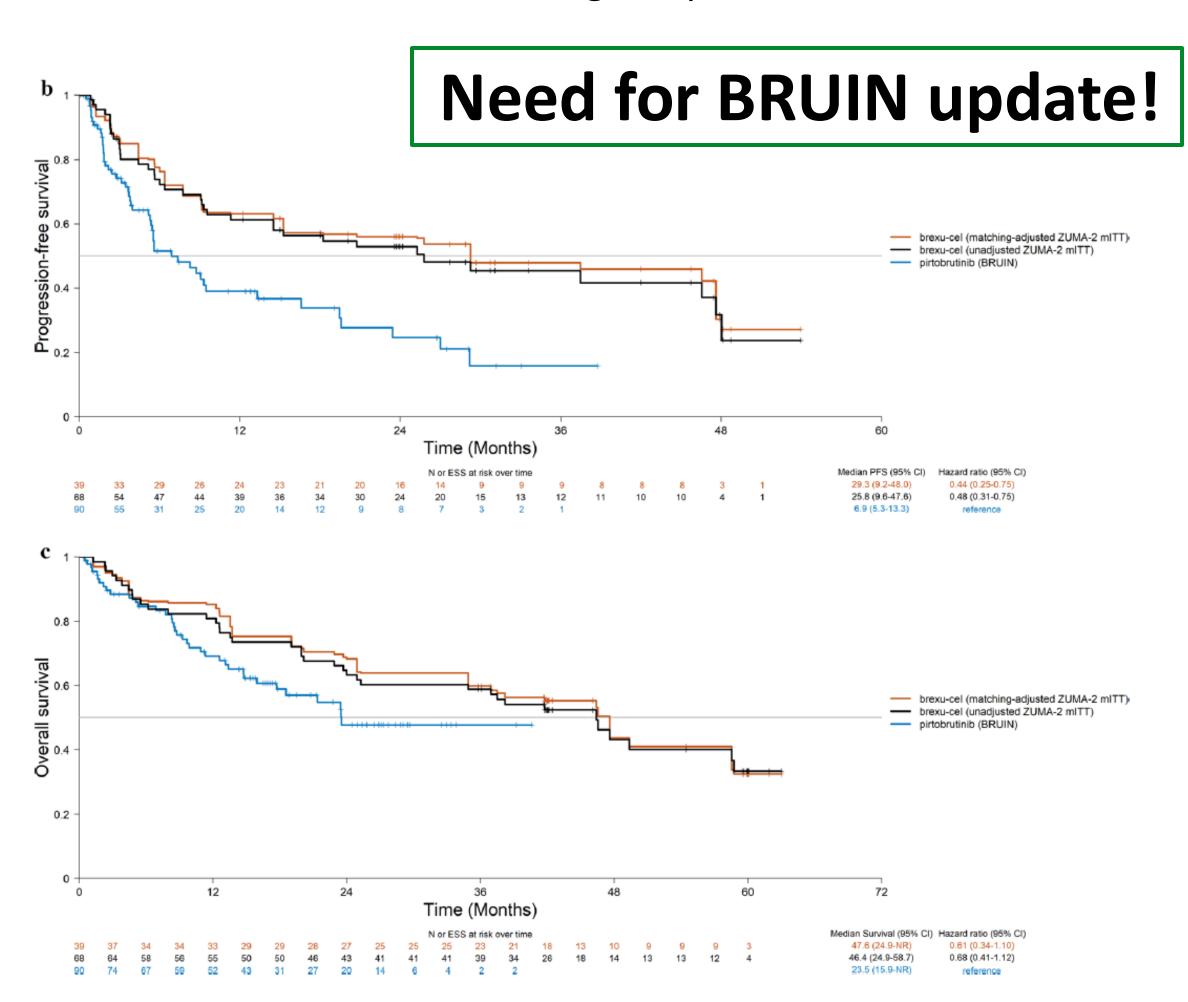


MAIC ZUMA-2 vs BRUIN in RR MCL post cBTKi



18,9% of pts of BRUIN went on to receive CART therapy

The ability to detect statistically significant differences for outcomes with low starting sample sizes is limited



Salles G et al, Adv Ther 2024



Conclusions

- Prognosis of patients with R/R MCL who discontinued cBTKi has been improved by new drugs (CAR-T, noncBTKi, ...)
- No direct comparison between drugs (MAIC with low sample size, small numbers of events and some variable/endpoint not included *Salles G et al, Adv Ther 2024*) shorter median f-up of BRUIN (23.5 mo vs 47.5 mo)
- Ongoing studies will probably provide more answers

CART

- Multistep process (referral, leukapheresis, BT, vein to vein time)
- Not all selected patients received infusion
- Specific toxicity need for inpatients
- Large amount of Real word data
- Longer follow-up
- Quality of life and economic outcomes

PIRTOBRUTINIB

- Immediatily available
- Less toxic
- No Real word data
- Shorter follow-up
- QoL

When choising a treatement consider:

- tp53 mutation status
- Ki67
- Response to prior cBTKi
- Response to last therapy
- Duration on prior cbTKi
- Reason for prior BTKi discontinuation (PD vs toxicity)

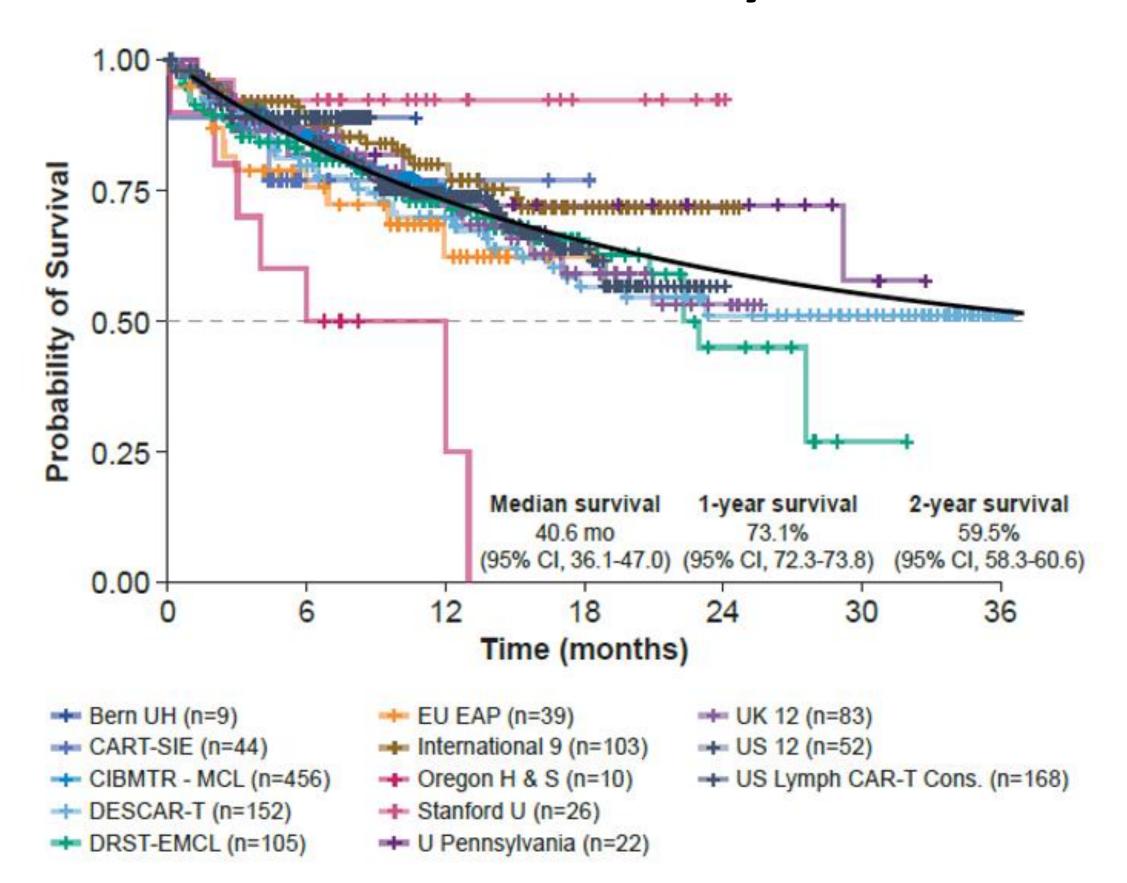
Speaker's opinion



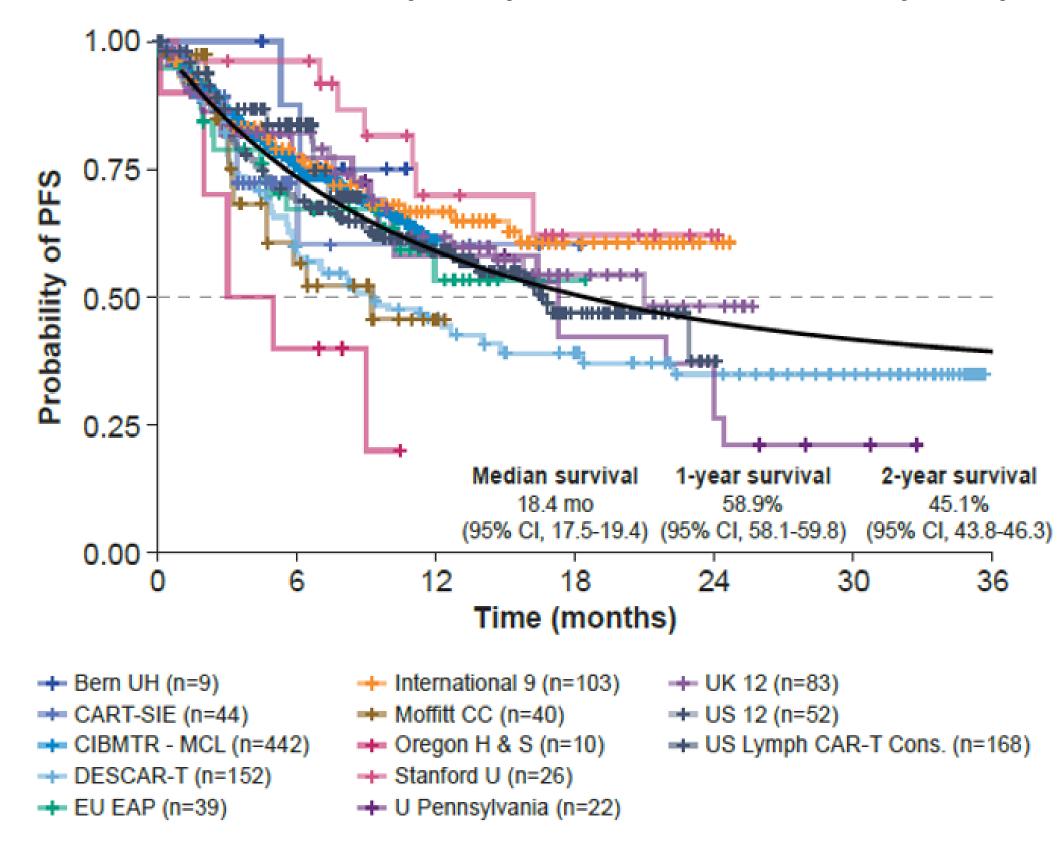




CART – RWE – Meta- Analysis



12 cohorts, 1670 pts per OS e 1591 pts per PFS



ORR was estimated at 88%; CR rate was 76% CRS 88%, CRS G>3 12%; ICANS 54%, ICANS G>3 20%

Secondary malignancies of any grade were reported at a pooled estimate of 5%

Olalekan, O, EHA 2025; Abstract PF954; poster presentation

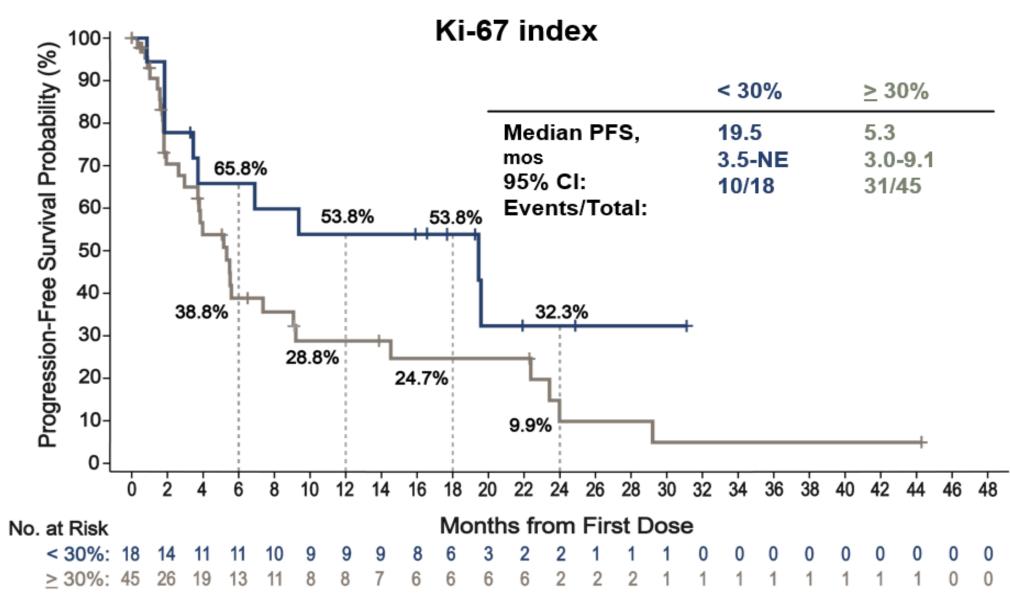


Pirtobrutinib Outcomes in Prior cBTKi Patients with MCL by High-Risk Subgroups

bability (%)

90

80-



	rvival Prob	70- 60-		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	† _,	52	.9%	,					s % C ents		otal	:		3.7 19/	-16 30	.6				.8-5 1/3(
	Progression-Free Survival Prob	50- 40- 30- 20-		2	9.6%	6		 	38.	_	23.7	1	8%_		٦ _‡	7.3%	6		<u> </u>						<u></u>			
	Prog	10-											0.0	%														
_			Ó	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	
	No. at	Risk										Mo	onth	s fr	om	Fir	st [Dos	е									
	Unmuta	ated:	30	20	14	12	9	8	8	8	7	5	5	5	3	2	2	2	1	1	1	1	1	1	1	0	0	
	Muta	ated:	30	15	10	6	6	4	4	4	4	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
												M	ledi (95		Do CI)				ı			n C						

	Median DoR (95% CI)	Median OS (95% CI)
Ki-67		
< 30%	17.7 (1.9-N.E.)	N.E. (9.4-N.E)
≥ 30%	21.6 (5.6-27.2)	23.4 (13.1-N.E.)

	Median DoR (95% CI)	Median OS (95% CI)
TP53		
Unmutated	14.8 (1.9-N.E.)	N.E (10.7-N.E.)
Mutated	17.6 (1.7-N.E.)	15.9 (7.8-N.E)

TP53 status

Median PFS,

Unmutated

6.9

Cohen et al, ASH 2023; Wang M et al, JCO 2023

Mutated

3.7