Supplementary Appendix

Pirtobrutinib in Covalent BTK-Inhibitor Pre-treated Mantle Cell Lymphoma

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Supplementary Tables

Table S1. Overall response rate and duration of response in patients previously treated
with ibrutinib, acalabrutinib, or zanubrutinib.

	lbrutinib (n=59)	Acalabrutinib (n=31)	Zanubrutinib (n=6)
Overall response rate, % (95 CI)	59.3% (45.7-71.9)	58.1% (39.1-75.5)	50.0% (11.8, 88.2)
Best overall response, n (%)			
Complete response	13 (22.0)	5 (16.1)	1 (16.7)
Partial response	22 (37.3)	13 (41.9)	2 (33.3)
Stable disease	7 (11.9)	4 (12.9)	2 (33.3)
Progressive disease	11 (18.6)	4 (12.9)	1 (16.7)
Not evaluable ^a	6 (10.2)	5 (16.1)	0
Duration of response			
Patients with a response, n	35	18	3
Patients with censored data, n (%)	24 (68.6)	8 (44.4)	3 (100.0)
Median duration of response, mo (95% CI)	NR (7.46-NR)	6.93 (3.22-NR)	NR (NR-NR)
Median follow-up, mo	11.93	8.21	5.78

Overall response and best response were determined according to the 2014 Lugano criteria²⁰ and based on independent review committee assessment. ^aPatients without post-baseline disease assessment were not evaluable. NE, not estimable; mo, months

	Overall safety population (N=725)			
	Treatment-emergent AE, (≥10%), %		Treatment-related AE, %	
	Any Grade	Grade ≥ 3	Any Grade	Grade ≥ 3
Adverse event				
Fatigue	191 (26.3)	12 (1.7)	64 (8.8)	6 (0.8)
Diarrhea	160 (22.1)	6 (0.8)	62 (8.6)	2 (0.3)
Contusion	138 (19.0)	0	91 (12.6)	0
Nausea	108 (14.9)	1 (0.1)	32 (4.4)	1 (0.1)
Cough	107 (14.8)	0	16 (2.2)	0
Anemia	101 (13.9)	56 (7.7)	34 (4.7)	13 (1.8)
Dyspnea	99 (13.7)	7 (1.0)	21 (2.9)	1 (0.1)
Arthralgia	94 (13.0)	3 (0.4)	23 (3.2)	0
Constipation	93 (12.8)	2 (0.3)	18 (2.5)	0
Back Pain	91 (12.6)	4 (0.6)	5 (0.7)	0
Neutrophil Count Decrease	89 (12.3)	77 (10.6)	51 (7.0)	43 (5.9)
Headache	88 (12.1)	2 (0.3)	29 (4.0)	1 (0.1)
Pyrexia	87 (12.0)	6 (0.8)	14 (1.9)	0
Oedema peripheral	83 (11.4)	1 (0.1)	6 (0.8)	0
Abdominal pain	80 (11.0)	6 (0.8)	11 (1.5)	1 (0.1)
Platelet count decreased	74 (10.2)	35 (4.8)	33 (4.6)	8 (1.1)
Neutropenia	73 (10.1)	62 (8.6)	47 (6.5)	37 (5.1)
Adverse event of special inter	rest ^a			× ,
Anemia	102 (14.1)	57 (7.9)	34 (4.7)	13 (1.8)
Neutropenia ^b	165 (22.8)	143 (19.7)	99 (13.7)	82 (11.3)
Thrombocytopenia	94 (13.0)	48 (6.6)	40 (5.5)	11 (1.5)
Infections	342 (47.2)	128 (17.6)	63 (8.7)	20 (2.8)
Bleeding	249 (34.3)	16 (2.2)	134 (18.5)	4 (0.6)
Bruising ^c	168 (23.2)	0	108 (14.9)	0
Hemorrhage Bruising ^c	<u>126 (17.4)</u> 168 (23.2)	16 (2.2)	44 (6.1)	4 (0.6)
Hemorrhage	126 (17.4)	0	108 (14.9)	0
Atrial Fibrillation/Atrial Flutter ^d	126 (17.4)	16 (2.2) 7 (1.0)	44 (6.1) 5 (0.7)	4 (0.6) 1 (0.1)

Table S2. Adverse events in at least 10% of the overall BRUIN safety population.

Data are n (%).

There were 45 grade 5 adverse events, and 4 grade 5 adverse events considered treatment-related (1 COVID-19 pneumonia, 1 septic shock, 1 pneumonia necrotizing, and 1 respiratory failure).

^aAdverse events of special interest are those that were previously associated with cBTK inhibitors and are all composite terms except hypertension.

^bCombines neutrophil count decreased, neutropenia, febrile neutropenia, and neutropenic sepsis.

^cBruising includes contusion, petechia, ecchymosis, and increased tendency to bruise.

^dOf 19 total afib/aflutter TEAEs, 6 occurred in patients with a prior medical history of atrial fibrillation.

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Table S3. Treatment-emergent adverse events leading to treatment discontinuation	»n.
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Weight decreased $1(0.6)$			
	Weight decreased	1 (0.6)	1 (0.1)

	MCL safety population (n=164)	Overall safety population (N=725)
Any TRAE leading to treatment discontinuation	5 (3.0)	15 (2.1)
Alopecia	1 (0.1)	1 (0.1)
Anemia	0	1 (0.1)
COVID-19 pneumonia	0	1 (0.1)
Cholecystitis	1 (0.1)	1 (0.1)
Fatigue	1 (0.1)	1 (0.1)
Febrile neutropenia	0	1 (0.1)
Myalgia	0	1 (0.1)
Myelodysplastic syndrome	0	1 (0.1)
Neuropathy peripheral	0	1 (0.1)
Neutropenia	1 (0.1)	1 (0.1)
Neutrophil count decreased	1 (0.1)	1 (0.1)
Pneumonitis	1 (0.1)	1 (0.1)
Rash maculo-papular	0	1 (0.1)
Respiratory failure	0	1 (0.1)
Septic shock	0	1 (0.1)
Staphylococcal sepsis	0	1 (0.1)
Weight decreased	1 (0.1)	1 (0.1)

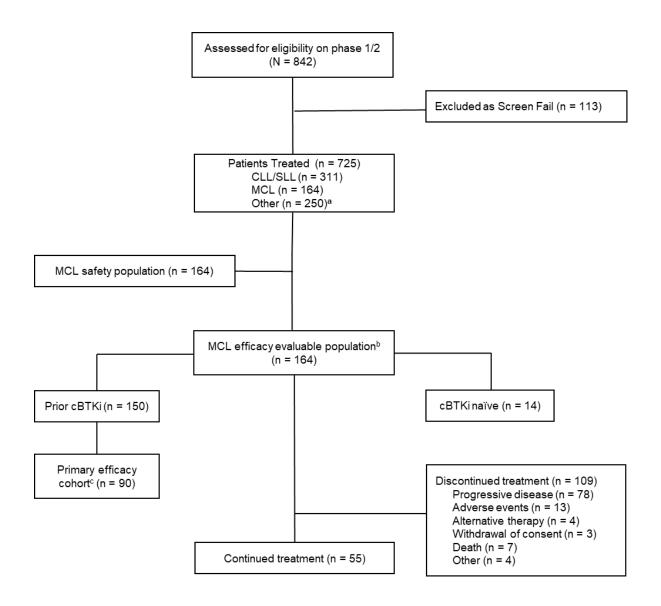
Table S4. Treatment-related adverse events leading to treatment discontinuation.

Table S5. Efficacy of pirtobrutinib in patients with BTKi as their most recent prior line of
therapy.

	PAS with BTKi As Most Recent Prior Systemic Therapy (N = 55)	Other (N = 35)
Overall Response Rate (ORR)		
n (%)	29 (52.7)	23 (65.7)
95% Confidence Interval [1]	38.8, 66.3	47.8, 80.9
Best overall response, n (%)		
Complete Response (CR)	7 (12.7)	11 (31.4)
Partial Response (PR)	22 (40.0)	12 (34.3)
Stable Disease (SD)	9 (16.4)	5 (14.3)
Progressive Disease (PD)	10 (18.2)	5 (14.3)
Not Evaluable (NE)	7 (12.7)	2 (5.7)
Duration of Response		
Median duration of response, mo (95% CI)	14.82 (5.55, NE)	21.59 (6.47, NE)
Patients with a response, n	29	23
Median follow up, mo	8.21	12.98

Supplemental Figures.

Figure S1. CONSORT diagram of patient disposition from the phase 1/2 BRUIN trial.



^aOther includes DLBCL, WM, FL, MZL, Richter transformation, B-PLL, Hairy Cell Leukemia, PCNSL, and other transformation. ^bEfficacy evaluable patients are those who had at least one post-baseline response assessment or had discontinued treatment prior to first post-baseline response assessment.

^cThe primary efficacy cohort included the first 90 MCL patients enrolled to either phase 1 or 2 who had measurable disease per investigator, had received a prior cBTKi containing regimen, and had no known central nervous system involvement.

F	esponse/Patients		ORR, % (95% Cl)
Il Patients	52/90		57.8 (46.9 - 68.1)
ge (years)			
< 65	16/24	⊢	66.7 (44.7 - 84.4)
≥ 65	36/66		54.5 (41.8 - 66.9)
ex			
Male	40/72	↓↓	55.6 (43.4 - 67.3)
Female	12/18		66.7 (41.0 - 86.7)
ace White	42/76		55.3 (43.4 - 66.7)
Non-White	10/14		71.4 (41.9 - 91.6)
			/ (
egion		1	
US	38/68		55.9 (43.3 - 67.9)
Outside US	14/22	••••	63.6 (40.7 - 82.8)
COG PS at Baseline			
0	36/61	⊢	59.0 (45.7 - 71.4)
1-2	16/29	⊢⊢ I	55.2 (35.7 - 73.6)
nn Ashas Staging for Limithana			
nn Arbor Staging for Lymphoma Stage I - III	12/19		63.2 (38.4 - 83.7)
Stage IV	38/69		55.1 (42.6 - 67.1)
J =			
implified MCL IPI Low Risk [0 to 3]	15/20	· · · · · · · · · · · · · · · · · · ·	75.0 (50.9 - 91.3)
Intermediate Risk [4 to 5]	32/50		64.0 (49.2 - 77.1)
High Risk [6 to 11]	5/20	⊢ ● − − − 	25.0 (8.7 - 49.1)
umor Bulk (largest diameter)		1	
< 5 cm	34/59		57.6 (44.1 - 70.4)
≥ 5 cm	11/24	⊢ − − − − − − − − − −	45.8 (25.6 - 67.2)
xtranodal Disease			
Yes	24/35		68.6 (50.7 - 83.1)
No	28/55		50.9 (37.1 - 64.6)
one Marrow Involvement			
Yes	25/46		54.3 (39.0 - 69.1)
No	27/44		61.4 (45.5 - 75.6)
ICL Histology	10/70	, <u>1</u> .	
Classic /Leukemic Blastoid	40/70 6/8		57.1 (44.7 - 68.9) 75.0 (34.9 - 96.8)
Pleomorphic	6/12		50.0 (21.1 - 78.9)
rior Lines of Systemic Therapies			
≤3	30/59	F ● <u>+</u> +	50.8 (37.5 - 64.1)
> 3	22/31	⊢ ,	71.0 (52.0 - 85.8)
rior BCL2 Inhibitor			
Yes	7/14	⊢	50.0 (23.0 - 77.0)
No	45/76	⊢ _ ●	59.2 (47.3 - 70.4)
rior Stem Cell Transplant			
Yes	11/19	⊢ − − − − − 1	57.9 (33.5 - 79.7)
No	41/71	· • • •	57.7 (45.4 - 69.4)
in CART			
rior CART Yes	2/4		50.0 (6.8 - 93.2)
No	2/4 50/86	,	58.1 (47.0 -68.7)
			,,
iscontinuation from any Prior BTKi	27/74		E0.0 (00.4 04.0)
Disease Progression Toxicity/Other	37/74 15/16		50.0 (38.1 - 61.9) 93.8 (69.8 - 99.8)
-			
tarting Dose	0/0		
< 200 mg QD 200 mg QD	3/6 45/77		50.0 (11.8 - 88.2) 58.4 (46.6 - 69.6)
200 mg QD > 200 mg QD	4/7		58.4 (46.6 - 69.6) 57.1 (18.4 - 90.1)
-			
P53 Mutation	0/47		47 4 (00 0 70 0)
Positive Negative	8/17 11/19		47.1 (23.0 - 72.2) 57.9 (33.5 - 79.7)
	33/54	, <u> </u> ,	61.1 (46.9 - 74.1)
Other			
Other			
Other I-67%	4405		FO 0 (0 / C
Other I-67% ≥ 30	14/25 6/9		56.0 (34.9 - 75.6) 66 7 (29 9 - 92 5)
Other I-67%	14/25 6/9 32/56		56.0 (34.9 - 75.6) 66.7 (29.9 - 92.5) 57.1 (43.2 - 70.3)

Figure S2. Overall response rate to pirtobrutinib in cBTKi pre-treated MCL subgroups.

Data reported in the forest plot is overall response rate among prespecified patient characteristic subgroups. Two-sided 95% CI was calculated using the exact binomial distribution. Three patients received a phase one starting dose of 25mg, two patients received a starting dose of 100mg, one patient received a starting dose of 150mg, two patients received a starting dose of 250mg, and five patients received a starting dose of 300mg. ^aReason for cBTKi discontinuation was calculated as percent of patients who received prior cBTKi for either progression or toxicity/other. ^bIn the event more than one reason was noted for discontinuation, disease progression took priority. ^cmDOR was 14.8 months (95% CI, 5.5 - not reached) for patients in the primary efficacy cohort who discontinued prior cBTKi due to disease progression. ECOG, Eastern Cooperative Oncology Group; MCL, mantle cell lymphoma; cBTKi, covalent Bruton tyrosine kinase inhibitor; CI, confidence interval.

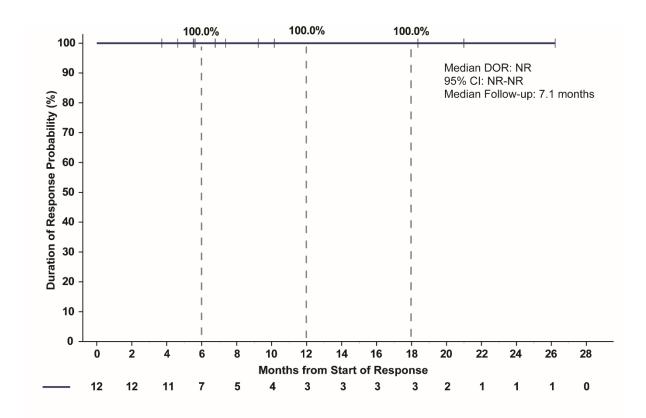


Figure S3. Kaplan-Meier plot of duration of response in cBTKi naïve MCL patients treated with pirtobrutinib

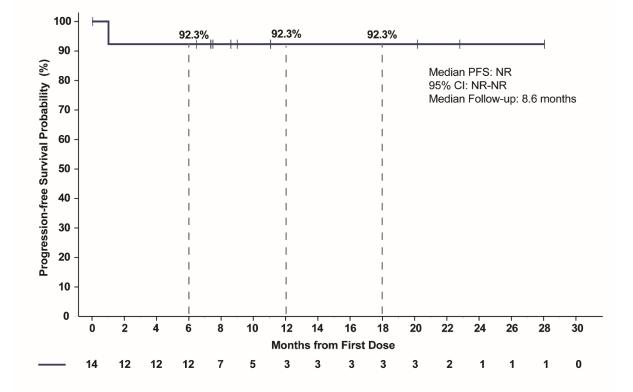


Figure S4. Kaplan-Meier plot of progression-free survival in cBTKi naïve MCL patients treated with pirtobrutinib

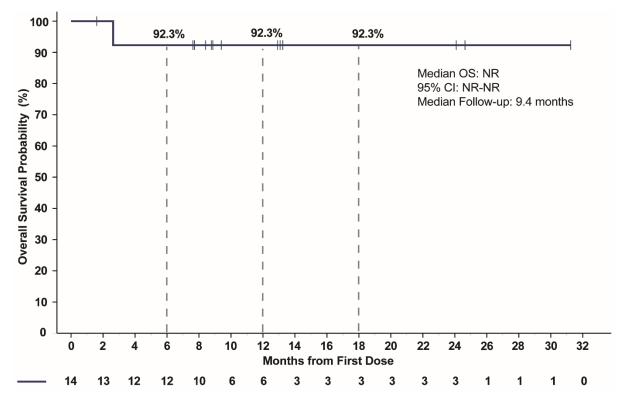


Figure S5. Kaplan-Meier plot of overall survival in cBTKi naïve MCL patients treated with pirtobrutinib

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