



SERVIZIO SANITARIO REGIONALE EMILIA-ROMAGNA Azienda Ospedaliero - Universitaria di Bologna



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Bologna, Royal Hotel Carlton January 15-17, 2024

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#### **Disclosures of Wojciech Jurczak**

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Lilly	х					x	
Janssen	x					x	
Astra Zeneca	х					x	
BeiGene	x					x	

# **Pirtobrutinib in CLL/SLL**



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### **BTKi - differences in potential off target effect**



Less selective BTK inhibitors (eg, ibrutinib) have more off-target effects, which contribute to more toxicity compared with more selective agents<sup>2</sup>

#### Potential off-target effects include:



#### **BTK inhibitors - differences in "head to head" comparisons**



### **Pirtobrutinib Safety Profile**

	All doses and patients (n=618)							
		Treatment-e	emergent AEs, (≥	15%), %			Treatment-re	elated AEs, %
Adverse Event	Grade 1	Grade 2	Grade 3	Grade 4	Any Grade		Grades 3/4	Any Grade
Fatigue	13%	8%	<mark>1%</mark>	-	23%		1%	9%
Diarrhea	15%	4%	<mark>&lt;1%</mark>	<mark>&lt;1%</mark>	19%		<1%	8%
Neutropenia <sup>a</sup>	1%	2%	<mark>8%</mark>	<mark>6%</mark>	18%		8%	10%
Contusion	15%	2%	•	-	17%		-	12%
AEs of special interest <sup>b</sup>								
Bruising <sup>c</sup>	20%	2%	-	-	22%		-	15%
Rash <sup>d</sup>	9%	2%	<mark>&lt;1%</mark>	·	11%		<1%	5%
Arthralgia	8%	3%	<mark>&lt;1%</mark>	-	11%		-	3%
Hemorrhage <sup>e</sup>	5%	2%	<mark>1%<sup>g</sup></mark>	-	8%		<1%	2%
Hypertension	1%	4%	<mark>2%</mark>	-	7%		<1%	2%
Atrial fibrillation/flutter <sup>f</sup>	-	1%	<mark>&lt;1%</mark>	<mark>&lt;1%</mark>	2% <sup>h</sup>		-	<1%

### IC50 of the 1-st and 2-nd generation BTKi



**IC50 - Half maximal inhibitory concentration -** indicates how much of a particular inhibitory substance (e.g. drug) is needed to inhibit, *in vitro*, a given biological process or biological component by 50%

#### **Pirtobrutinib is a Highly Selective, Non-Covalent BTKi**



- EMA approved pirtobrutinib for the treatment of adult patients with relapsed or refractory mantle cell lymphoma (MCL) who have been previously treated with a Bruton's tyrosine kinase (BTK) inhibitor
- Inhibits both Wild Type and C481-mutant BTK with equal low nM potency<sup>4</sup>
- 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 signaling<sup>4</sup>

### Limited Therapeutic Options after cBTKi in CLL/SLL

- The vast majority of patients discontinue cBTKi for either progression or intolerance<sup>1-3</sup>
- Limited prospective data and treatment options in the post-cBTKi setting currently exist
- Venetoclax (BCL2i) based regimens have often been a next treatment option after cBTKi for patients with CLL/SLL
- An increasing number of patients who have discontinued cBTKi have also discontinued venetoclax
  - Outcomes are poor and there is a need for additional treatment options<sup>4</sup>

### Time from cBTKi/BCL2i Discontinuation to Subsequent Treatment Failure or Death<sup>4</sup>



#### **Real-World Use and Outcomes of Therapies after cBTKi**



Characteristic <sup>a</sup>	Overall post-cBTKi N=1243	Non ven-containing post- cBTKi <i>N</i> =955	All ven-containing post- cBTKi <i>N</i> =288
Age, median (range)	72 (37, 86)	72 (37, 85)	71 (40, 86)
Male sex, n (%)	793 (64)	600 (63)	193 (67)
Race <sup>c</sup> , n/N (%)	, <i>, ,</i>	. ,	
Asian	18/1170 (2)	10/902 (1)	8/268 (3)
Black or African American	131/1170 (11)	104/902 (12)	27/268 (10)
White	924/1170 (79)	708/902 (78)	216/268 (81)
Other	97/1170 (8)	80/902 (9)	17/268 (6)
Received post-cBTKi treatment in community setting, n %)	1026 (83)	782 (82)	244 (85)
ECOG PS 0-1° (%)	844/988 (85)	634/753 (84)	210/235 (89)
Disease subtype, n (%)	· · ·		
CLL	986 (79)	757 (79)	229 (79)
CLL/SLL	170 (14)	136 (14)	34 (12)
SLL	87 (7)	62 (7)	25 (9)
Deletion 17p present <sup>c</sup> , n/N (%)	234/1080 (22)	157/813 (19)	77/267 (29)
gHV unmutated <sup>c</sup> , n/N (%)	388/624 (62)	291/474 (61)	97/150 (65)
Rai stage at initial diagnosis <sup>c</sup> , n/N (%)			
0	271/791 (34)	209/606 (34)	62/185 (34)
I	183/791 (23)	137/606 (23)	46/185 (25)
11	105/791 (13)	80/606 (13)	25/185 (14)
III	86/791 (11)	64/606 (11)	22/185 (12)
IV	146/791 (18)	116/606 (19)	30/185 (16)
Line of therapy in which the first post-cBTKi treatment was received, n (%)			
2	754 (61)	590 (62)	164 (57)
3	351 (28)	256 (27)	95 (33)
4	87 (7)	65 (7)	22 (8)
5 or greater	51 (4)	44 (5)	7 (2)
Follow-up time from start of immediate post-cBTKi treatment to last confirmed activity or death (months), median (range)	15.5 (0, 90.7)	15.0 (0, 90.7)	17.3 (0.1, 77.0)

#### **Real-World Use and Outcomes of Therapies after cBTKi**

- Time to treatment discontinuation or death (TTD-D):
- Time to next treatment or death (TTNT-D):

Clinical outcomes in non venetoclax-containing post-cBTKi group

• Overall survival (OS):



#### Clinical outcomes in venetoclax-containing post-cBTKi group



The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

# Pirtobrutinib after a Covalent BTK Inhibitor in Chronic Lymphocytic Leukemia

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



Data cutoff of 05 May 2023 (NCT03740529); <sup>a</sup>Other includes DLBCL, WM, FL, MZL, Richter transformation, B-PLL, Hairy Cell Leukemia, PCNSL, and other transformation.

#### **Baseline characteristics CLL/SLL Pts who receive prior cBTKi**

Characteristics	Prior cBTKi (n=282)	BCL2i-N (n=154)	BCL2i-E (n=128)
Median age, years (range)	69 (36-88)	69 (36-87)	68 (41-88)
<b>Male,</b> n (%)	192 (68)	106 (69)	86 (67)
Rai staging, n (%)			
0-11	147 (52)	94 (61)	53 (41)
III-IV	120 (43)	58 (38)	62 (48)
Missing	15 (5)	2 (1)	13 (10)
Bulky Lymphadenopathy ≥5 cm, n (%)	88 (31)	42 (27)	46 (36)
ECOG PS, n (%)			
0	144 (51)	89 (58)	55 (43)
1	118 (42)	56 (36)	62 (48)
2	20 (7)	9 (6)	11 (9)
Median number of prior lines of systemic therapy, (range)	4 (1-11)	3 (1-9)	5 (1-11)
Prior therapy, n (%)			
BTK inhibitor	282 (100)	154 (100)	128 (100)
Anti-CD20 antibody	251 (89)	127 (83)	124 (97)
Chemotherapy	228 (81)	114 (74)	114 (89)
BCL2 inhibitor	128 (45)	0 (0)	128 (100)
PI3K inhibitor	71 (25)	17 (11)	54 (42)
CAR-T	17 (6)	2 (1)	15 (12)
Allogeneic stem cell transplant	7 (3)	1 (1)	6 (5)

Characteristics	Prior cBTKi	BCL2i-N	BCL2i-E
	(n=282)	(n=154)	(n=128)
Median time from diagnosis to first dose, years (IQR)	11 (8-15)	11 (7-15)	12 (8-15)
Reason for any prior BTKi discontinuation <sup>a</sup> , n (	%)		
Progressive disease	217 (77)	110 (71)	107 (84)
Toxicity/Other	64 (23)	43 (28)	21 (16)

Baseline Molecular Characteristics <sup>b</sup>	Prior cBTKi (n=282)	BCL2i-N (n=154)	BCL2i-E (n=128)
Mutation status, n/n available (%)			
BCL2 mutated	<mark>19/246 (8)</mark>	<mark>0/133 (0)</mark>	<mark>19/113 (17)</mark>
BTK C481-mutant	<mark>96/245 (39)</mark>	<mark>57/138 (41)</mark>	<mark>39/107 (36)</mark>
PLCG2-mutant	18/245 (7)	10/138 (7)	8/107 (8)
High Risk Molecular Features, n/n available (%)			
17p deletion and/or TP53 mutation	<mark>104/217 (48)</mark>	<mark>57/123 (46)</mark>	<mark>47/94 (50)</mark>
IGHV unmutated	193/225 (86)	100/125 (80)	93/100 (93)
Complex Karyotype	<mark>33/73 (45)</mark>	<mark>17/41 (42)</mark>	<mark>16/32 (50)</mark>
11q deletion	47/202 (23)	28/115 (24)	19/87 (22)

#### **Pirtobrutinib Efficacy in CLL/SLL Pts who Received Prior cBTKi**



#### **Pirtobrutinib Efficacy in Pts with or wihout Prior BCL2i**



BCL2i-N	(n=154) <sup>b</sup>
<b>ORR</b> <sup>a</sup> <b>incl. PR-L</b> , % (95% Cl)	83.1 (76.2-88.7)
Best Response, n (%)	
CR	5 (3.2)
nPR	2 (1.3)
PR	108 (70.1)
PR-L	13 (8.4)



BCL2I-E	(n=128) <sup>c</sup>
ORR <sup>a</sup> incl. PR-L, % (95% CI)	79.7 (71.7-86.3)
Best Response, n (%)	
CR	0 (0)
nPR	0 (0)
PR	88 (68.8)
PR-L	14 (10.9)

#### **Pirtobrutinib ORR in Pts with or wihout Prior BCL2i**

		BCL2i-N			BCL2i-E	
	Responders/Patients		ORRª % (95% CI)	<b>Responders/Patients</b>		ORRª % (95% CI)
All Patients with Prior cBTKi	128/154	⊨⊷	83.1 (76.2 - 88.7)	102/128	<b>⊢</b> →	79.7 (71.7 - 86.3)
Age (years)						
< 75	99/122		81.1 (73.1 - 87.7)	82/102	<b>⊢</b>	80.4 (71.4 - 87.6)
<u>≥</u> 75	29/32	⊢∎●⊣	90.6 (75.0 - 98.0)	20/26		76.9 (56.4 - 91.0)
ECOG PS at Baseline						
0	72/89		80.9 (71.2 - 88.5)	46/55	⊢-•	83.6 (71.2 - 92.2)
1	47/56	<b>⊢</b>	83.9 (71.7 - 92.4)	48/62		77.4 (65.0 - 87.1)
2	9/9	<b>⊢</b>	100.0 (66.4 - 100.0)	8/11	⊢ <b>● ∔</b>	72.7 (39.0 - 94.0)
Rai Staging at Baseline						
Stage 0 - II	76/94		80 9 (71 4 - 88 2)	42/53		79 2 (65 9 - 89 2)
Stage III - IV	50/58	<b>⊢</b> ●	86.2 (74.6 - 93.9)	48/62		77.4 (65.0 - 87.1)
Prior Lines of Systemic Theranies						
	93/112	⊢ <b>∳</b> ⊣	83.0 (74.8 - 89.5)	23/26	<b>⊢</b>	88.5 (69.8 - 97.6)
> 3	35/42	⊢ <b>∳</b> I	83.3 (68.6 - 93.0)	79/102		77.5 (68.1 - 85.1)
Reason for any Prior BTKi Discontinuati	on <sup>b</sup>					
Disease Progression	88/110		80 0 (71 3 - 87 0)	85/107	⊢ <b>.</b>	79 4 (70 5 - 86 6)
Toxicity/Other	39/43		90 7 (77 9 <b>-</b> 97 4)	17/21		81 0 (58 1 - 94 6)
	00/40		00.1 (11.0 - 01. <del>1</del> )			01.0 (00.1 - 04.0)
	o z	25 50 75 100		ò	25 50 75 100	

#### **Pirtobrutinib ORR in Pts with or wihout Prior BCL2i**

	BCL2i-N		BCL2i-E			
	Responders/Patients		ORRª % (95% CI)	Responders/Patier	nts	ORRª % (95% CI)
BCL2 Mutation Status <sup>b</sup>						
Mutated				16/16	•	100 (79.4 - 100.0)
Unmutated				54/71	<b>⊢</b> →	76.1 (64.5 - 85.4)
BTK C481 Mutation Status <sup>c</sup>						
Mutated	47/54	<b>⊢</b> ••-1	87.0 (75.1 - 94.6)	34/39	<b>⊢</b>	87.2 (72.6 - 95.7)
Unmutated	31/44	<b>⊢</b>	70.5 (54.8 - 83.2)	41/53		77.4 (63.8 - 87.7)
PLCg2 Mutation Status <sup>c</sup>						· · · ·
Mutated	6/10 ⊢		60.0 (26.2 - 87.8)	4/8	<b>⊢⊢</b>	50.0 (15.7 - 84.3)
Unmutated	72/88	⊢ <b>.</b>	81.8 (72.2 - 89.2)	71/84		84.5 (75.0 - 91.5)
IGHV Mutation Status			· · · · · · · · · · · · · · · · · · ·			· · · ·
Mutated	21/25	<b>⊢</b>	84.0 (63.9 - 95.5)	3/7	⊢ <b>●</b> I	42.9 (9.9 - 81.6)
Unmutated	81/100	<b>⊢</b> ●	81.0 (71.9 - 88.2)	79/93	F <u></u>	84.9 (76.0 - 91.5)
Complex Karvotype						, , , , , , , , , , , , , , , , , , ,
Yes	16/17	<b>⊢</b>	94.1 (71.3 - 99.9)	14/16	<b>⊢</b>	87.5 (61.7 - 98.4)
No	20/24	<b>⊢</b>	83.3 (62.6 - 95.3)	11/16	⊢ <b></b>	68.8 (41.3 - 89.0)
del(11q)						
Yes	25/28	<b>⊢</b>	89.3 (71.8 - 97.7)	19/19	• • •	100.0 (82.4 - 100.0)
Νο	71/87	⊢ <b>−</b> €	81.6 (71.9 - 89.1)	50/68	⊢ <b>−</b> ● <b>∔</b> 1	73.5 (61.4 - 83.5)
del(17p) and/or TP53 Mutation						
Yes	48/57	<b>—</b> •–	84.2 (72.1 - 92.5)	43/47	•	91.5 (79.6 - 97.6)
No	55/66	<b>⊢</b>	83.3 (72.1 - 91.4)	34/47	<b>⊢</b> ●	72.3 (57.4 - 84.4)
	0 25	<u>:</u> 50 75 100		៤	i 25 50 75 100	

#### **Pirtobrutinib Progression-Free Survival in Pts with Prior cBTKi**



#### PFS in Pts with Prior cBTKi, with or without Prior BCL2i

#### BCL2i-N



BCL2i-E

#### **Pirtobrutinib Overall Survival in Patients with Prior cBTKi**



#### OS in Pts with Prior cBTKi, with or without Prior BCL2i



BCL2i-N

Woyach et al.; ASH 2023

#### **Pirtobrutinib Safety Profile in Prior cBTKi Patients**

	Treatment-Emergent AEs in Patients with CLL/SLL (n=282)					
	All Cause AE	Es, (≥20%), %	Treatment-Re	lated AEs, %		
Adverse Event	Any Grade	Grade ≥3	Any Grade	Grade ≥3		
Fatigue	36.9	1.8	3.5	0.0		
Neutropenia <sup>b,c</sup>	34.4	28.4	19.5	15.2		
Diarrhea	28.4	0.4	7.8	0.0		
Cough	27.3	0.0	1.8	0.0		
Contusion	26.2	0.0	17.4	0.0		
Covid-19	25.9	4.6	0.7	0.0		
Dyspnea	22.3	2.1	0.7	0.4		
Nausea	22.0	0.0	3.5	0.0		
Abdominal pain	21.3	1.8	2.1	0.4		
AEs of Interest <sup>a</sup>	Any Grade	Grade ≥3	Any Grade	Grade ≥3		
Infections <sup>d</sup>	74.1	30.9	12.8	4.3		
Bruising <sup>e</sup>	30.1	0.0	19.1	0.0		
Rash <sup>f</sup>	24.5	1.1	5.7	0.4		
Arthralgia	22.7	1.4	4.3	0.0		
Hemorrhage <sup>g</sup>	13.5	2.1	4.6	1.1		
Hypertension	14.2	4.3	3.5	0.4		
Atrial Fibrillation/Flutter <sup>h,i</sup>	4.6	1.8	1.4	0.7		

#### Median time on treatment was 18.7 months (prior BTKi), 24.3 months (BCL2i-N) and 15.3 months (BCL2i-E)

11 (3.9%; 9 BCL2i-N, 2 BCL2i-E) patients had TRAEs leading to pirtobrutinib dose reduction; 7 (2.5%; 4 BCL2i-N, 3 BCL2i-E) had TRAEs leading to pirtobrutinib discontinuation

### Phase 1/2 BRUIN Study: Conclusions for CLL

- With median follow-up of 30 months, pirtobrutinib demonstrates clinically meaningful and durable efficacy in heavily pretreated patients with CLL/SLL who received prior covalent BTK inhibitor
  - ORR including PR-L was ~80% regardless of prior BCL2 inhibitor exposure
  - Median PFS was 19.4 months overall, with 23.0 months for BCL2i-N patients and 15.9 months for BCL2i-E patients
- Pirtobrutinib was well-tolerated with low-rates of discontinuation due to drug-related toxicity among both BCL2i-N and BCL2i-E patients
- On December 1, 2023, the FDA granted accelerated approval to pirtobrutinib for adults with CLL/SLL who have received at least two prior lines of therapy, including a BTK inhibitor and a BCL2 inhibitor



#### Pirtobrutinib Non-covalent Binding Inhibits both WT and C481-mutated BTK

#### BTK sites with known cBTKi resistance mutations



- The majority of patients discontinue covalent BTK inhibitors (cBTKi) due to intolerance or progression<sup>1,2,3</sup>
- BTK C481 substitutions are the most common resistance mechanism to cBTKi<sup>4,5,6</sup>
- Acquired mutations have been identified in a limited number of patients treated with pirtobrutinib<sup>7,8</sup>

# Pirtobrutinib may stabilize BTK in a closed inactive conformation<sup>9</sup>



Inactive conformation of BTK by pirtobrutinib:

- blocks access to upstream kinases and phosphorylation of Y551
- inhibits both WT and C481-mutant BTK with equal low nM potency<sup>7,9</sup>
- may inhibit kinase-independent BTK signaling<sup>9</sup>

### **Genomic Evolution and Resistance during Pirtobrutinib Therapy**



- Next-generation sequencing (NGS) of paired baseline and progression PBMC samples from 88 cBTKi pre-treated CLL patients who progressed on pirtobrutinib
- Targeted NGS (5% VAF limit of detection [LoD]) gene list (all exons, 74 genes):
  - <u>BTK, PLCG2</u>, <u>TP53</u>, ABL1, APC, ARID1A, ATM, BAP1, BCL2, BCL6, BRAF, BRD4, CARD11, CCND1, CCND3, CD79A, CD79B, CDK4, CDKN2A, CDKN2B, CREBBP, EP300, EPHA7, ERBB3, EZH2, FAS, FGFR1, FLT1, FOXP1, GNA13, GRIN2A, GSK3B, HRAS, IKZF1, IRF4, JAK1, JAK2, KDR, KIT, KLHL6, KMT2C, KMT2D, KRAS, MAP2K1, MED12, MEF2B, MTOR, MYC, MYD88, NFKBIA, NOTCH1, NOTCH2, NRAS, NTRK1, PDGFRA, PIK3CA, PIK3CG, PIK3R1, PIK3R2, PRDM1, PRKDC, PTEN, RAF1, RB1, ROS1, SF3B1, SMARCA4, SOCS1, STAT3, SYK, TET2, TNFAIP3, TNFRSF14, XPO1
- 79 baseline PBMC samples were re-sequenced using a more sensitive assay (LoD ~ 0.5% VAF) to assess the presence of preexisting *BTK* mutations

#### **Baseline Genomics in Patients with PD on Pirtobrutinib (n=88)**



- The most common mutations detected at baseline were BTK (53%), TP53 (49%), SF3B1 (34%), ATM (23%), NOTCH1 (20%), PLCG2 (14%), BCL2 (9%)
- Pirtobrutinib demonstrated efficacy, with an ORR of 83% (73/88)
  - Baseline genomic features did not predict response to pirtobrutinib treatment

#### **Acquired Mutations were Detected at PD in 68% of Patients**



#### The Majority of BTK Acquired Mutations were T474x and L528W



- Decrease/clearance of C481x<sup>a</sup> clones observed at progression in 84% (36/43) patients (clearance = 23/43, 53%)
- BTK C481S/Y/R, T474x<sup>a</sup>, L528W, other kinase mutations arose at/near progression (55 mutations in 39 patients, VAF range 3-86%)
- ORR was similar across groups regardless of the acquired *BTK* mutation (T474x, 22/23, 96%; L528W; 11/14, 79%)

#### **Pirtobrutinib in Richter Transformation (phase 1/2 Bruin study)**



#### **Pirtobrutinib in Richter Transformation**



	All	Prior RT Therapy
	n=82	n=74
Overall Response Rate <sup>a</sup> , % (95% Cl)	50.0 (38.7-61.3)	48.6 (36.9-60.6)
Best Response,n (%)		
CR	11 (13.4)	9 (12.2)
PR	30 (36.6)	27 (36.5)

- The median time-to-response was 1.9 months (range, 0.9-9.2)
- For patients with adequate post-baseline assessment, the ORR was similar between Lugano assessments done by PET vs. CT
- ORR for PET (n=49) was 57.1% (95%CI: 42.2-71.2), and for CT only (n=62), the ORR was 54.8% (95% CI: 41.7-67.5)

#### **Pirtobrutinib in Richter Transformation**





#### Fixed-Duration Pirtobrutinib with Venetoclax ± Rit in R/R CLL



Pirtobrutinib and venetoclax were given in combination in a fixed duration for 24 cycles

Each cycle was 28 days

Roeker, et al.; ASH 2023

#### Fixed-Duration Pirtobrutinib with Venetoclax ± Rit in R/R CLL



Number of Subjects (N=25)

#### Fixed-Duration Pirtobrutinib with Venetoclax ± Rit in R/R CLL



MRD <10<sup>-4</sup> Detectable Undetectable Missing data

- 70.8% (PV=10; PVR=7) of patients achieved uMRD rate at cycle 13
- 87.5% of patients (PV=12; PVR=9) achieved uMRD at some time during the trial
- Median time-to-first uMRD was 4.3 months for patients receiving PV and 3.7 months for patients receiving PVR
- All but one patient sustained uMRD during subsequent MRD assessments

#### Fixed-Duration Pirtobrutinib with Venetoclax ± Rit in R/R CLL



- Median (IQR) duration of follow-up for PFS was 22.1 months (20.1-23.0) for all patients
- PFS rate at 18 months was 87.5% (95% CI: 66.1-95.8) for all patients
- The 24-month PFS rate was 79.5% (95% CI: 52.0-92.3) for all patients

### **Ongoing phase III studies with Pritobrutinib in CLL**

Trial	Population	Experimental Arm	Control Arm
NCT05023980, phase 3	Untreated CLL/SLL	Pirtobrutinib	Bendamustine + Rituximab
NCT04965493, phase 3	Previously treated CLL/SLL	Pirtobrutinib + Venetoclax + Rituximab	Venetoclax + Rituximab
NCT04666038, phase 3	BTK inhibitor pre-treated CLL/SLL	Pirtobrutinib	Investigator's choice of Idelalisib + Rituximab or Bendamustine + Rituximab



I would like to thank Loxo/ Lilly, for making Kraków one of the important centres, where Pirtobrutinib was developped