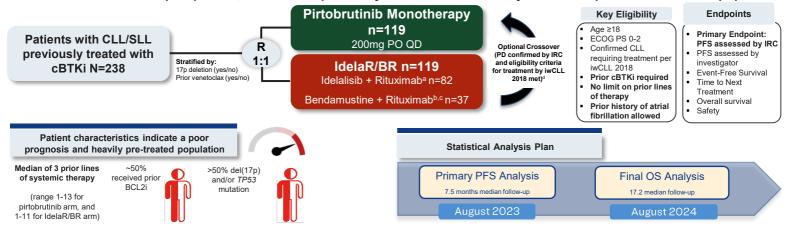
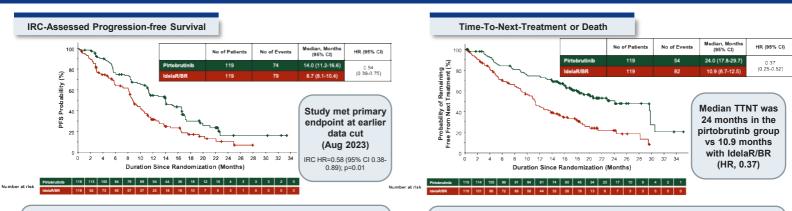
Study Design and Patient Population

BRUIN CLL-321 is the first prospective, randomized ph3 study conducted exclusively in a cBTKi-pretreated CLL/SLL population



Efficacy Analysis



At the final OS analysis with a median study follow-up of 17.2 months, the median IRC-PFS in the pirtobrutinib group was 14 months versus 8.7 months with IdelaR/BR, resulting in a relative reduction in risk of relapse, PD, or

death of 46% with pirtobrutinib (HR, 0.54 [95% CI, 0.39 to 0.75]

IRC-PFS benefit was consistently observed with pirtobrutinib among prespecified, clinically relevant patient subgroups including those who had TP53 mutation and/or del(17p) (HR, 0.59 [95%CI, 0.38-0.92]), unmutated IGHV (HR, 0.61 [95%CI, 0.42-0.88]), and complex karyotype (HR, 0.37 [95%CI, 0.23-0.58];

Overall Survival follow-up limited and confounded by high rate of post-progression crossover

In venetoclax naïve patients, median TTNT was 29.5 mo in the pirtobrutinib

group and 12.5 mo in the IdelaR/BR group (HR, 0.36 [95% CI, 0.21 to 0.61]).

In venetoclax-treated patients, median TTNT was 20 mo in the pirtobrutinib

group and 8.7 mo in the IdelaR/BR group (HR, 0.37 [95% CI, 0.23 to 0.60]).

- 18-month OS rate: Pirtobrutinib, 73.4%; IdelaR/BR, 70.8%
- 76% effective crossover rate among INV PD patients
- HR 1.09 (0.68-1.75). Crossover-adjusted HR <1.

Safety Analysis

TEAEs Occurring in ≥ 15% of Patients	Pirtobrutinib (n=116)		IdelaR/BR (n=109)	
	Any Grade, n (%)	Grade 3/4, n (%)	Any Grade, n (%)	Grade 3/4, n (%)
Anemia	23 (19.8)	13 (11.2)	19 (17.4)	8 (7.3)
Pneumonia	26 (22.4)	18 (15.5)	13 (11.9)	9 (8.3)
Neutropenia	21 (18.1)	17 (14.7)	17 (15.6)	13 (11.9)
Diarrhea	19 (16.4)	0 (0)	34 (31.2)	6 (5.5)
Cough	19 (16.4)	0 (0)	19 (17.4)	0 (0)
COVID-19	15 (12.9)	0 (0)	20 (18.3)	4 (3.7)
Pyrexia	15 (12.9)	1 (0.9)	29 (26.6)	1 (0.9)
Fatigue	13 (11.2)	2 (1.7)	22 (20.2)	1 (0.9)
Nausea	13 (11.2)	1 (0.9)	22 (20.2)	0 (0)
Vomiting	8 (6.9)	1 (0.9)	19 (17.4)	0 (0)
ALT increased	4 (3.4)	1 (0.9)	19 (17.4)	10 (9.2)
Infusion-related reaction	0 (0)	0 (0)	19 (17.4)	3 (2.8)
Weight decreased	4 (3.4)	0 (0)	18 (16.5)	0 (0)

- Median time on treatment with pirtobrutinib, IdelaR and BR was 15.1 months, 7.1 months and 4.7 months, respectively
- Treatment discontinuations due to AEs occurred in 20 (17.2%) treated with pirtobrutinib and 38 patients (34.9%) treated with IdelaR/BR. 6 (5.2%) and 23 (21.1%) discontinuations, respectively, were considered drug-related
- Dose reductions occurred in 13 (11.2%) patients receiving pirtobrutinib and 40 (36.7%) receiving IdelaR/BR

TEAEs of Clinical Interest	Pirtobrutinib (n=116)		IdelaR/BR (n=109)	
	Any Grade, n (%)	Grade 3/4, n (%)	Any Grade, n (%)	Grade 3/4, n (%)
Anemia ^f	24 (20.7)	13 (11.2)	19 (17.4)	8 (7.3)
Atrial fibrillation and atrial flutter	3 (2.6)	2 (1.7)	1 (0.9)	0 (0)
Bleeding	25 (21.6)	4 (3.4)	11 (10.1)	0 (0)
Bruisingg	9 (7.8)	1 (0.9)	3 (2.8)	0 (0)
Petechiae and purpura	6 (5.2)	1 (0.9)	1 (0.9)	0 (0)
Hemorrhage ^h	18 (15.5)	3 (2.6)	8 (7.3)	0 (0)
Hypertension	8 (6.9)	3 (2.6)	4 (3.7)	1 (0.9)
Infections ⁱ	74 (63.8)	25 (21.6)	54 (49.5)	21 (19.3)
w/o COVID-19	67 (57.8)	26 (22.4)	47 (43.1)	19 (17.4)
Neutropenia ^j	31 (26.7)	24 (20.7)	37 (33.9)	30 (27.5)
Thrombocytopeniak	11 (9.5)	9 (7.8)	17 (15.6)	8 (7.3)

2 of 3 patients with any grade atrial fibrillation during pirtobrutinib treatment had a past medical history of atrial fibrillation. 1 patient treated with idelaRIBR had de novo atrial fibrillation. 3 patients on pirtobrutinib experienced grade 3 hemorrhage (ne'l ace); vaginal hemorrhage, conjunctival hemorrhage, and subdural hematoma). 1 patient treated with idelak had grade

Treatment was given in 28-day cycles. PFS assessed based on iwCLL2018. TTNT is defined as time from the date of randomization to the date of initiation of the subsequent anticancer therapy (including crossover) for CLL/SLL, or death due to any cause, whicheve occurs first. adelalisio dosed at 150mg PO BID. Day 1 of cycle 1, first dose of rituximab at 375 mg/m², next 4 infusions at 500 mg/m² every 2 weeks, next 3 infusions at 500 mg/m² every 4 weeks. Bendamustine (70 mg/m²) administered IV D1, D2 of cycles 1-6. Day 1 of cycle 1, first dose of rituximab at 375 mg/m², next 5 infusions day 1 of cycle 2 through cycle 6 at 500 mg/m². Eligible patients receiving investigator's choice of IdelaR/BR could crossover to receive pirtobrutinib upon confirmation of PD by IRC per protocol, and only if they met the eligibility criteria for treatment by iwCLL 2018. Among patients whose event was INV PD and thus had the opportunity to crossover. Includes anemia and iron deficiency anemia. Includes contusion and ecchymosis. Includes hemorrhage and hematoma Includes all infection events reported including COVID-19. Includes neutropenia, neutrophil count decreased, febrile neutropenia, and neutropenic sepsis. Includes thrombocylopenia and platelet count decreased