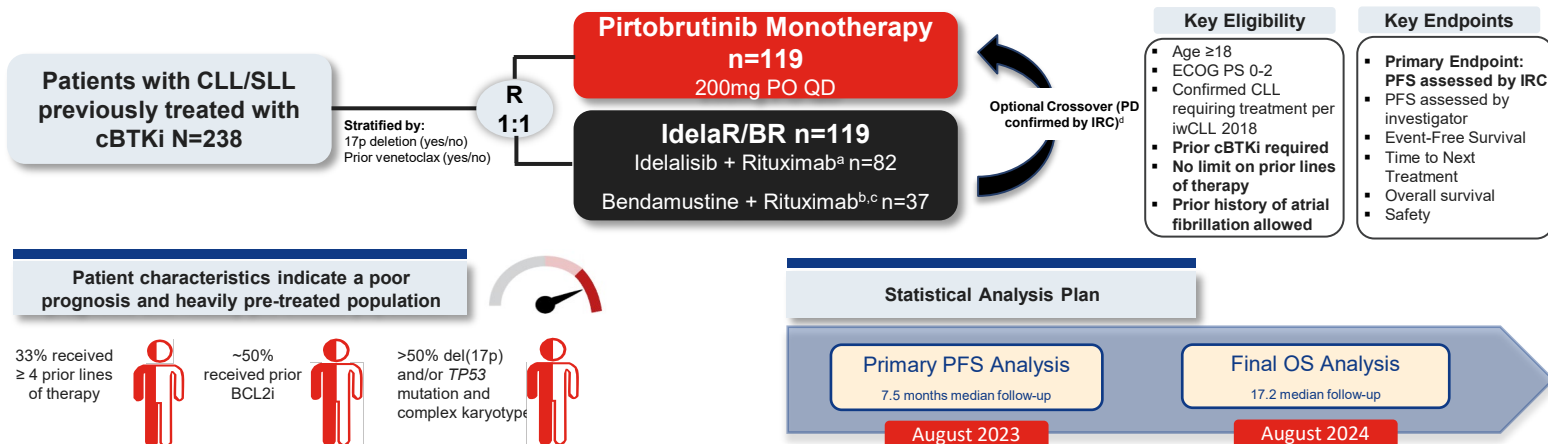


# BRUIN CLL-321: Randomized Phase III Trial of Pirtobrutinib versus Idelalisib plus Rituximab (IdelaR) or Bendamustine plus Rituximab (BR) in BTK Inhibitor Pretreated Chronic Lymphocytic Leukemia/Small Lymphocytic Lymphoma

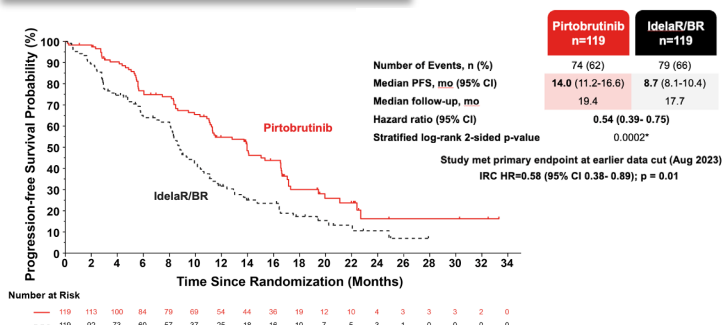
## Study Design and Patient Population

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



## Efficacy Analysis

### IRC-Assessed Progression-free Survival



Pirtobrutinib reduced risk of progression or death by 46% according to IRC assessment



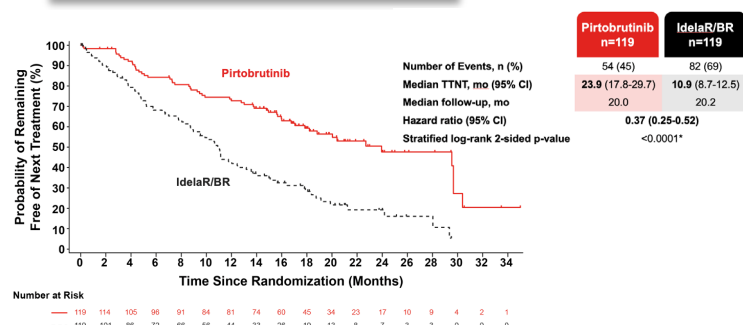
Consistent benefit of pirtobrutinib among subgroups (including presence of high-risk features, prior BCL2i, and IdelaR/BR)



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

- 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.

### Time-To-Next-Treatment or Death



Pirtobrutinib reduced the risk of starting next treatment or death by 63% with a median TTNT of ~24 months

## Safety Analysis

Treatment-Emergent Adverse Event (≥20%)	Pirtobrutinib (n=116)		IdelaR or BR (N=109)	
	Any grade, n (%)	Grade 3+, n (%)	Any grade, n (%)	Grade 3+, n (%)
Subjects with ≥ 1 TEAE	108 (93.1)	67 (57.7)	107 (98.2)	80 (73.4)
Infections*	74 (63.8)	34 (29.3)	54 (49.5)	26 (23.9)
Pneumonia	26 (22.4)	20 (17.2)	13 (11.9)	12 (11.1)
COVID-19	15 (12.9)	2 (1.7)	20 (18.3)	5 (4.6)
Anemia	23 (19.8)	13 (11.2)	19 (17.4)	8 (7.3)
Neutropenia <sup>†</sup>	31 (26.7)	24 (20.7)	37 (33.9)	30 (27.5)
Cough	19 (16.4)	0	19 (17.4)	0
Diarrhea	19 (16.4)	0	34 (31.2)	6 (5.5)
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



- Median time on treatment with pirtobrutinib, Idela, and BR was 15.1 months, 7.1 months and 4.7 months, respectively
- When adjusting for exposure, the incidence rate of TEAEs was lower with pirtobrutinib than with IdelaR/BR
- Overall pirtobrutinib treatment-emergent AESI rates were comparable to those seen in the Phase 1/2 BRUIN Study (any grade, grade 3+)
- Infection (63.8%, 29.3%)      Neutropenia (26.7%, 20.7%)
- Bleeding (21.6%, 3.4%)      Anemia (20.7%, 11.2%)
- Hypertension (6.9%, 2.6%)      Thrombocytopenia (9.5%, 7.8%)
- Atrial fibrillation & atrial flutter (2.6%, 1.7%)<sup>(2 of 3 patients with any grade atrial fibrillation had a past medical history of atrial fibrillation)</sup>
- Drug-related AEs led to discontinuation in 6 (5.2%) and 23 (21.1%) patients treated with pirtobrutinib and IdelaR/BR

## Summary



Pirtobrutinib demonstrated superior PFS in this cohort of heavily pretreated, R/R CLL/SLL patients previously treated with cBTKi. This benefit was seen in patients across all key risk-factors



Patients in the pirtobrutinib arm were able to delay next therapy or death for a median of approximately 2 years



Pirtobrutinib was well-tolerated, with low rates of treatment-related discontinuation

Lilly