Pirtobrutinib in Richter Transformation: Updated Efficacy and Safety Results With 18-Month Median Survival Follow-up From the Phase 1/2 BRUIN Study WG Wierda, NN Shah, CY Cheah, D Lewis, MS Hoffman, CC Coombs, N Lamanna, S Ma, D Jagadeesh, T Munir, Y Wang, TA Eyre, J Rhodes, M McKinney, E Lech-Maranda, CS Tam, W Jurczak, K Izutsu, A Alencar, MR Patel, JF Seymour, JA Woyach, LE Roeker, PA Thompson, P Abada, C Ho, SC McNeely, N Marella, B Nguyen, C Wang, AS Ruppert, B Nair, H Liu, DE Tsai, P Ghia

Background

Richter transformation (RT) occurs in up to 10% of patients with CLL and is associated with **poor** outcomes and limited success with cBTKi

Study design

The phase 1/2 BRUIN study examined the **efficacy** and **safety** of pirtobrutinib in 778 patients with previously treated CLL, MCL, and other B-cell NHLs

82 patients with **RT**, 74 of whom received **prior RT-directed** therapy, were evaluated for efficacy and safety

Patient characteristics in patients with RT (n=82)

- Median age was 67 years
- 67% of patients were male
- Median of 4 prior lines of therapy for CLL (2) and RT (2)

74% of patients were previously treated with **cBTKi**

68% of patients were previously treated with BCL2i

Efficacy results

Median OS was 12.5 months

Summary

With a median survival follow-up of 18 months, pirtobrutinib **demonstrated promising efficacy** in patients with RT who have been heavily pretreated, a population with **historically poor overall survival**



AE, adverse event; BCL2i, B-cell lymphoma 2 inhibitor; BTK, Bruton tyrosine kinase; BTKi, Bruton tyrosine kinase; BTKi, Bruton tyrosine kinase; BTKi, covalent Bruton tyrosine kinase; BTKi, Bruton tyrosine kinase inhibitor; CLL, chronic lymphocytic leukemia; DOR, duration of response; MCL, mantle cell lymphoma; NHL, non-Hodgkin lymphoma; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; R/R, relapsed/refractory.

^aAggregate of neutropenia and neutrophil count decreased. ^bAEs of interest are those that were previously associated with covalent BTKis regardless of occurrence rate. ^cAggregate of all preferred terms including hemorrhage or hematoma. ^fAggregate of all preferred terms including rash.

Infographic by Lilly using data from the presentation at the American Society of Hematology 65th Annual Meeting; San Diego, CA; December 9-12, 2023. Poster #1737.

Pirtobrutinib is an oral, highly potent and selective, **non-covalent** (reversible) BTKi with sustained **BTK** inhibition throughout the dosing interval

R/R CLL and RT

