## Adverse events of interest (AEIs) with zanubrutinib vs fixed-duration combination of venetoclax + obinutuzumab in treatment-naive (TN) chronic lymphocytic leukemia (CLL)

Authors: Wassim Aldairy,<sup>1</sup> Lipeng Chen,<sup>2</sup> Sheng Xu,<sup>3</sup> Ayad K. Ali,<sup>1</sup> Han Ma,<sup>1</sup> Nicole Lamanna<sup>4</sup>

**Affiliations:** <sup>1</sup>BeiGene USA, Inc, San Mateo, CA, USA; <sup>2</sup>BeiGene (Beijing) Co, Ltd, Beijing, China; <sup>3</sup>BeiGene (Shanghai) Co, Ltd, Shanghai, China; <sup>4</sup>Herbert Irving Comprehensive Cancer Center, Columbia University, New York, NY, USA

**Background:** The efficacy and safety of BTKi zanubrutinib (zanu) monotherapy has been evaluated in TN CLL/SLL in SEQUOIA (NCT03336333), while the combination of fixed-duration BCL-2 inhibitor venetoclax + CD20 monoclonal antibody obinutuzumab (VenO) has been evaluated in CLL14 (NCT02242942). This analysis evaluated selective AEIs with zanu vs VenO.

**Methods:** The incidence rates of infections, hematologic events, and treatment-emergent adverse events (TEAEs) leading to treatment (tx) discontinuation of zanu in SEQUOIA (n=351) and VenO in CLL14 (n=212) were compared. In this analysis, data for zanu at median tx duration of 23.9 mo (to match safety follow-up for VenO) and 61.1 mo and data for fixed-duration VenO from available publications (median tx duration, 11.1 mo) were compared for AEIs. Zanu outcomes were adjusted for COVID-19 as SEQUOIA was ongoing during the pandemic while CLL14 was conducted prior to the pandemic.

**Results:** With a median tx duration of 23.9 mo with zanu vs 11.1 mo with VenO (**Table**), the incidence of grade 3/4 infections (excluding COVID-19), neutropenia, thrombocytopenia, and febrile neutropenia and TEAEs leading to discontinuation was lower with zanu vs VenO (nominal P<.05 for all). With longer zanu exposure at the 61.2-mo median tx duration for zanu, the incidence rate of infection was higher with zanu vs VenO but similar after excluding COVID-19. The rates of neutropenia, thrombocytopenia, and febrile neutropenia remained lower with zanu vs VenO (nominal P≤.05). COVID-19 was the most common TEAE leading to discontinuation of zanu (1.1% and 1.7% with median tx duration of 23.9 and 61.1 mo, respectively), while neutropenia was the most common TEAE leading to discontinuation of ven (2.4%).

**Conclusion:** Hematologic toxicity rates were lower with zanu vs VenO in the analysis time window. Rates of TEAEs leading to discontinuation and infections excluding COVID-19 were lower with zanu with a median tx duration of 23.9 mo. Continuing zanu monotherapy does not appear to increase the risk of infection, even with much longer tx duration, compared with fixed-duration VenO.

Zanu up to 104 weeks SEQUOIA zanu (n=351) vs CLL14 VenO (n=212)	Zanu DCO: April 30, 2024 SEQUOIA zanu (n=351) vs CLL14 VenO (n=212)
12.5 vs 17.5; <i>P</i> =.109	27.1 vs 17.5; <i>P</i> =.010
11.1 vs 17.5; <i>P</i> =.034	20.2 vs 17.5; <i>P</i> =.418
9.1 vs 52.8; <i>P</i> <.001	10.3 vs 52.8; <i>P</i> <.001
1.1 vs 13.7; <i>P</i> <.001	1.7 vs 13.7; <i>P</i> <.001
0.6 vs 5.2; <i>P</i> =.004	0.9 vs 5.2; <i>P</i> =.005
7.4 vs 15.6; <i>P</i> =.003	18.8 vs 15.6; <i>P</i> =.329
6.6 vs 15.6; <i>P</i> =.001	16.2 vs 15.6; <i>P</i> =.833
	SEQUOIA zanu (n=351) vs   CLL14 VenO (n=212)   23.9 vs 11.1   12.5 vs 17.5; P=.109   11.1 vs 17.5; P=.034   9.1 vs 52.8; P<.001

## Table. AEIs in SEQUOIA vs CLL14

All *P* values are nominal.