

## **CELESTIAL-TNCLL: an ongoing, open-label, multiregional, phase 3 study of sonrotoclax (BGB-11417) + zanubrutinib vs venetoclax + obinutuzumab for treatment-naive (TN) CLL**

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**Background:** The combination of venetoclax (ven), the first-generation BCL2 apoptosis regulator (BCL2) inhibitor, and ibrutinib, a BTK inhibitor, has demonstrated efficacy in patients with CLL (Wierda et al. *J Clin Oncol.* 2021). However, the toxicity profile of this regimen suggests a need for a more tolerable combination of BTK and BCL2 inhibitors. Sonrotoclax, a next-generation BCL2 inhibitor, is a more selective and more pharmacologically potent inhibitor of BCL2 than ven. Z. In a phase 1 study in patients with TN CLL treated with sonrotoclax + zanubrutinib, efficacy data was promising, with ORR and 1-year progression-free survival (PFS) rate of 100% and deep responses on the basis of undetectable measurable residual disease at  $<10^{-4}$  sensitivity (uMRD4). The most common grade  $\geq 3$  TEAE was neutropenia, and no tumor lysis syndrome or cardiac toxicity was observed (Tam et al. *Blood.* 2023). Presented here is the design of a phase 3 trial aimed at comparing the efficacy of sonrotoclax + zanubrutinib vs ven + obinutuzumab (obi) in patients with TN CLL.

**Methods:** CELESTIAL-TNCLL (BGB-11417-301; NCT06073821) is a randomized, open-label, phase 3 study. Eligible patients must have previously untreated CLL that requires treatment per 2018 iwCLL criteria, measurable disease by CT/MRI, an ECOG performance score of 0 to 2, and adequate hematologic and organ function. Approximately 640 patients will be randomized 1:1 to receive either three cycles of oral zanubrutinib monotherapy (320 mg daily) followed by zanubrutinib + sonrotoclax for 12 cycles, or standard ven + obi

treatment for 12 cycles. Randomization will be stratified by age (<65 vs ≥65 years) and IGHV and del(17p)/TP53 mutation status. The primary endpoint is PFS as assessed by independent review committee (IRC) according to 2018 iwCLL guidelines, with modifications for treatment-related lymphocytosis in patients with CLL (Cheson et al. *J Clin Oncol.* 2012). Key secondary endpoints include complete response rate (CRR), defined as CR or CR with incomplete hematopoietic recovery, assessed by IRC; rates of uMRD4 in bone marrow and peripheral blood at the first post-treatment follow-up visit based on next-generation sequencing by clonoSEQ (Adaptive Biotechnologies, Seattle, WA); and overall survival. Other secondary endpoints include PFS as assessed by investigator (INV); CRR by INV; rate of uMRD4 based on flow cytometry; overall response rate by IRC and INV; duration of response by IRC and INV; patient-reported outcomes; and safety and tolerability. Recruitment is ongoing.