**Title:** PHASE 1 STUDY WITH THE NOVEL B-CELL LYMPHOMA 2 (BCL-2) INHIBITOR BGB-11417 AS MONOTHERAPY OR IN COMBINATION WITH ZANUBRUTINIB FOR CLL/SLL: PRELIMINARY DATA

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SEHH 2023 1

## **ABSTRACT**

**Introduction:** BGB-11417-101 (NCT04277637) is an ongoing, first-in-human, phase 1/1b, dose-escalation/expansion study of BGB-11417 (a highly selective Bcl-2 inhibitor) as monotherapy or in combination with zanubrutinib, a next-generation Bruton tyrosine kinase inhibitor. Data from patients with CLL/SLL are presented.

**Methods:** Patients received BGB-11417 (40, 80, 160, 320, or 640 mg once daily [QD]) with a ramp-up to the intended target dose to mitigate tumor lysis syndrome (TLS). In combination cohorts, patients received zanubrutinib (320 mg QD or 160 mg twice daily) 8 to 12 weeks before BGB-11417. Dose-limiting toxicity was evaluated with a Bayesian logistic regression model during dose ramp-up through day 21. Minimal residual disease (MRD) was assessed by a European Research Initiative on CLL flow cytometry assay.

Results: As of 15May2022, 50 patients with CLL received treatment (tx): 6 had monotherapy (all relapsed/refractory [R/R]), and 44 had combination tx (R/R, n=22; tx naive [TN], n=22). The monotherapy cohort received BGB-11417 ≤160 mg, and the combination cohorts received BGB-11417 ≤640 mg (R/R CLL) or ≤320 mg (TN CLL; included 8 patients receiving zanubrutinib pre-tx and not yet treated with BGB-11417). Maximum tolerated dose had not been reached in any cohort, and dose escalation is ongoing. Median follow-up was 11.5 months (range, 8.5-18.3; monotherapy) and 5.8 months (range, 0.2-10.5; combination). Tx-emergent adverse events (TEAEs) are listed in the **Table**. With monotherapy, cytopenias were the most common TEAE (≥50%; grade ≥3, 33%). With combination tx, contusion, neutropenia, and low-grade gastrointestinal toxicity were the most common TEAEs (≥23%); neutropenia was the most common grade ≥3 TEAE (11%). One patient discontinued combination tx (disease progression; Richter transformation); none discontinued monotherapy. One monotherapy patient had laboratory TLS (overall, ≤2%) that resolved without intervention. No clinical TLS was reported. Most patients had reductions in absolute lymphocyte count (ALC), with responses seen at doses of ≥1 mg. Among 4 MRDevaluable patients at 160 mg, 3 (monotherapy, n=2; combination, n=1) had a peripheral blood CLL count of <10<sup>-4</sup> at 24 weeks after BGB-11417 initiation.

**Conclusions:** Preliminary data show that BGB-11417 ± zanubrutinib was well tolerated in most patients. Grade ≥3 neutropenia was uncommon and manageable, and TLS rates were low. Efficacy was supported by rapid ALC reduction during ramp-up. Enrollment for cohorts of venetoclax-treated patients with CLL/SLL will open soon.

SEHH 2023 2

**Table. Summary of Treatment-Emergent Adverse Events** 

| BGB-11417 monotherapy (R/R CLL; n=6)                 |           |          |
|--|-----------|----------|
| TEAEs (≥2 patients), n (%)                           | All grade | Grade ≥3 |
| Thrombocytopenia (includes platelet count decreased) | 4 (66.7)  | 2 (33.3) |
| Neutropenia (includes neutrophil count decreased)    | 3 (50)    | 2 (33.3) |
| Arthralgia   | 2 (33.3)  | 0        |
| Contusion  | 2 (33.3)  | 0        |
| Diarrhea   | 2 (33.3)  | 0        |
| Musculoskeletal chest pain                           | 2 (33.3)  | 0        |
| Nausea   | 2 (33.3)  | 0        |
| Edema peripheral                                     | 2 (33.3)  | 0        |
| Pyrexia  | 2 (33.3)  | 1 (16.7) |
| BGB-11417 + zanubrutinib combination (CLL; n=44)     |           |          |
| TEAEs (≥3 patients), n (%)                           | All grade | Grade ≥3 |
| Contusion  | 13 (29.5) | 0        |
| Neutropenia (includes neutrophil count decreased)    | 10 (22.7) | 5 (11.4) |
| Diarrhea   | 10 (22.7) | 0        |
| Nausea   | 10 (22.7) | 0        |
| COVID-19   | 9 (20.5)  | 1 (2.27) |
| Fatigue  | 9 (20.5)  | 0        |
| Headache   | 8 (18.2)  | 0        |
| Constipation   | 7 (15.9)  | 0        |
| Arthralgia   | 6 (13.6)  | 0        |
| Petechiae  | 6 (13.6)  | 0        |
| Back pain  | 4 (9.1)   | 0        |
| Immunization reaction                                | 4 (9.1)   | 0        |
| Thrombocytopenia (includes platelet count decreased) | 4 (9.1)   | 0        |
| Abdominal pain                                       | 3 (6.8)   | 1 (2.27) |
| Epistaxis  | 3 (6.8)   | 0        |
| Seasonal allergy                                     | 3 (6.8)   | 0        |

CLL, chronic lymphocytic leukemia; R/R, relapsed/refractory; TEAE, treatment-emergent adverse event.

SEHH 2023 3