Title: PHASE 1 STUDY WITH THE NOVEL BCL-2 INHIBITOR BGB-11417 AS MONOTHERAPY OR IN COMBINATION WITH ZANUBRUTINIBBRUTINIB FOR NHL OR WALDENSTRÖM MACROGLOBULINEMIA (WM): PRELIMINARY DATA

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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 separate non-Hodgkin lymphoma (NHL; follicular lymphoma, diffuse large B-cell lymphoma [DLBCL], mantle cell lymphoma [MCL], marginal zone lymphoma [MZL]) and WM cohorts are presented.

Methods: Patients received BGB-11417 (40, 80, 160, 320, or 640 mg daily [QD]) with a ramp-up to the target dose. 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. Responses were assessed per Lugano criteria.

Results: As of 15May2022, 45 patients received BGB-11417 monotherapy (≤640 mg; n=34 [28 NHL, 6 WM]) or combination treatment (tx; 11 MCL). Nine patients (82%) in combination cohorts received BGB-11417 ≤160 mg (2 patients were in zanubrutinib pretx). Maximum tolerated dose (MTD) was not reached in patients with NHL at doses ≤640 mg. Dose escalation is ongoing for WM monotherapy and MCL combination tx. Median follow-up was 6.5 months (range, 0.4-25.3; monotherapy) and 4.8 months (range, 0.4-8.9; combination). Tx-emergent adverse events (TEAEs) are listed in the **Table**. The most common TEAEs were nausea (38%) and fatigue (24%) for monotherapy and contusion and neutropenia (27% each) for combination tx. The most common grade ≥3 TEAEs were neutropenia (monotherapy, 12%; combination, 9%) and thrombocytopenia (combination only, 9%). Tx was discontinued in 25 monotherapy patients (disease progression [PD], n=22; AE, n=1; other, n=2) and 2 combination patients (PD). No tumor lysis syndrome was reported. 23 patients with NHL reached the first response assessment, but most were receiving below the recommended phase 2 dose (RP2D); overall, 3 responses (DLBCL, n=2; MZL, n=1), including 1 complete response (DLBCL), and notable tumor reductions were seen. In the MCL combination cohort, 6 patients (55%) responded. In the monotherapy WM cohort, 1 of 4 evaluable patients had minor response at the first dose level (80 mg), and hemoglobin increases (>20 g/L) were seen in 3 of 6 treated patients; all remain on tx.

Conclusions: Initial data show encouraging safety and antitumor activity of BGB-11417 in NHL, MCL, and WM. MTD was not reached at doses up to 640 mg QD. All low-grade TEAEs and grade ≥3 neutropenia were manageable. Longer follow-up for BGB-11417 ± zanubrutinib at the RP2D is needed. Monotherapy MCL data are forthcoming.

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Table. Summary of Treatment-Emergent Adverse Events

| BGB-11417 monotherapy (R/R NHL + WM; n=34) | | |
|---|-----------|----------|
| TEAEs (≥3 patients), n (%) | All grade | Grade ≥3 |
| Nausea | 13 (38.2) | 0 |
| Fatigue | 8 (23.5) | 0 |
| Constipation | 7 (20.6) | 0 |
| Diarrhea | 7 (20.6) | 0 |
| Dizziness | 7 (20.6) | 0 |
| Fall | 6 (17.6) | 2 (5.9) |
| Headache | 6 (17.6) | 0 |
| Neutropenia (includes neutrophil count decreased) | 5 (14.7) | 4 (11.8) |
| Pyrexia | 5 (14.7) | 0 |
| Abdominal pain | 4 (11.8) | 2 (5.9) |
| Anemia | 4 (11.8) | 1 (2.9) |
| Urinary tract infection | 4 (11.8) | 0 |
| Vomiting | 4 (11.8) | 0 |
| Arthralgia | 3 (8.8) | 1 (2.9) |
| Aspartate aminotransferase increased | 3 (8.8) | 1 (2.9) |
| Back pain | 3 (8.8) | 1 (2.9) |
| Dyspnea | 3 (8.8) | 0 |
| Hypotension | 3 (8.8) | 0 |
| Lethargy | 3 (8.8) | 0 |
| Edema peripheral | 3 (8.8) | 0 |
| Cough | 3 (8.8) | 0 |
| BGB-11417 + zanubrutinibbrutinib combination (R/R MCL; n=11a) | | |
| TEAEs (≥2 patients), n (%) | All grade | Grade ≥3 |
| Contusion | 3 (27.3) | 0 |
| Neutropenia (includes neutrophil count decreased) | 3 (27.3) | 1 (9.1) |
| Herpes zoster | 2 (18.2) | 0 |
| Lethargy | 2 (18.2) | 0 |
| Nausea | 2 (18.2) | 0 |
| Thrombocytopenia (includes platelet count decreased) | 2 (18.2) | 1 (9.1) |

MCL, mantle cell lymphoma; NHL, non-Hodgkin lymphoma; R/R, relapsed/refractory; TEAE, treatment-emergent adverse event; WM, Waldenström macroglobulinemia.

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^a Two patients had not yet received BGB-11417 at the time of analysis.