

A PHASE 1 STUDY WITH THE NOVEL B-CELL LYMPHOMA 2 (BCL2) INHIBITOR BGB-11417 AS MONOTHERAPY OR IN COMBINATION WITH ZANUBRUTINIB (ZANU) IN PATIENTS (PTS) WITH B-CELL MALIGNANCIES: PRELIMINARY DATA

Authors: Stephan Stilgenbauer,¹ Stephen Opat,^{2,3} Chan Y. Cheah,^{4,5,6} Masa Lasica,⁷ Emma Verner,^{8,9} Peter J. Browett,¹⁰ Henry Chan,¹¹ Jacob D. Soumerai,¹² Eva González Barca,¹³ James Hilger,¹⁴ Yiqian Fang,¹⁴ David Simpson,¹⁴ Constantine S. Tam^{15,16,17}

Affiliations: ¹University of Ulm, Ulm, Germany; ²Monash Health, Clayton, Victoria, Australia; ³Monash University, Clayton, Victoria, Australia; ⁴Sir Charles Gairdner Hospital and Pathwest Laboratory Medicine, Nedlands, Western Australia, Australia; ⁵Medical School, University of Western Australia, Crawley, Western Australia, Australia; ⁶Linear Clinical Research, Nedlands, Western Australia, Australia; ⁷St Vincent's Hospital Melbourne, Fitzroy, Victoria, Australia; ⁸Concord Repatriation General Hospital, Concord, New South Wales, Australia; ⁹University of Sydney, Sydney, New South Wales, Australia; ¹⁰Auckland City Hospital, Auckland, New Zealand; ¹¹North Shore Hospital Auckland, New Zealand; ¹²Massachusetts General Hospital Cancer Center, Harvard Medical School, Boston, MA, USA; ¹³Institut Català d'Oncologia-Hospitalet, IDIBELL, Universitat de-Barcelona, Barcelona, Spain; ¹⁴BeiGene (Beijing) Co., Ltd., Beijing, China and BeiGene USA, Inc., San Mateo, CA, USA; ¹⁴Peter MacCallum Cancer Centre, Melbourne, Victoria, Australia; ¹⁶University of Melbourne, Parkville, Victoria, Australia; ¹⁶Royal Melbourne Hospital, Parkville, Victoria, Australia

ABSTRACT

Introduction: BCL2 is aberrantly expressed in many hematologic malignancies and promotes tumorigenesis. BGB-11417 was developed as a potent and highly selective inhibitor of BCL2.

Methods: BGB-11417-101 (NCT04277637) is an ongoing first-in-human phase 1/1b dose-escalation/expansion study to evaluate safety, tolerability, maximum tolerated dose (MTD), and recommended phase 2 dose of oral BGB-11417 alone or combined with BTK inhibitor zanu, in pts with relapsed/refractory (R/R) B-cell malignancies. Pts in separate monotherapy and combination therapy cohorts received escalating BGB-11417 doses (40, 80, 160, 320, or 640 mg once daily [QD]) with weekly or daily ramp-up to the target dose; combination cohorts received zanu (320 mg QD or 160 mg twice daily) 8-12 wks before BGB-11417. Dose-limiting toxicity for each dose cohort was evaluated by a Bayesian logistic regression model. Adverse events (AEs) were reported per CTCAE v5.0.

Results: As of 17Dec2021, 58 pts received BGB-11417 (32 monotherapy; 26 combination). Of pts receiving BGB-11417 monotherapy, 26 with non-Hodgkin lymphoma (NHL) received doses \leq 640 mg and 6 with CLL/SLL received \leq 160 mg. Of pts receiving combination treatment, 19 with R/R CLL/SLL received BGB-11417 \leq 160 mg and 7 with R/R MCL received \leq 80 mg. MTD has not yet been reached. Median follow-up was 3.9 mo (range, 0.1-20.4). Only 2 grade \geq 3 AEs (1 neutropenia, 1 autoimmune hemolytic anemia) were reported in combination cohorts. 20 pts discontinued treatment (17 disease progression; 1 AE; 2 other reasons). One high-risk pt with CLL on monotherapy had laboratory tumor lysis syndrome (TLS) that resolved with no intervention (laboratory TLS $<$ 2%). Early efficacy data show that most pts had reduction in sum of product of perpendicular diameters; 2 pts with NHL (monotherapy) had responses (1 complete response). Pts with CLL/SLL had notable reductions in absolute lymphocyte count at doses as low as 1 mg; 2 responses (\geq partial response) were seen with monotherapy and 12 responses with combination (\geq partial response with lymphocytosis).

Conclusions: These preliminary findings suggest that BGB-11417 has promising efficacy and is tolerable at doses \leq 640 mg as monotherapy and \leq 160 mg in combination with zanu. Dose escalation continues as an MTD has not yet been reached. Enrollment is ongoing, data for Waldenström macroglobulinemia and treatment-naïve CLL/SLL cohorts are forthcoming.