

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

**Authors:** Eva Gonzalez Barca<sup>1</sup>; Stephen Opat<sup>2,3</sup>; Chan Y. Cheah<sup>4,5,6</sup>; Masa Lasica<sup>7</sup>; Emma Verner<sup>8,9</sup>; Peter J. Browett<sup>10</sup>; Henry Chan<sup>11</sup>; Jacob D. Soumerai<sup>12</sup>; James Hilger<sup>13</sup>; Yiqian Fang<sup>13</sup>; David Simpson<sup>13</sup>; Constantine S. Tam<sup>14,15,16,17</sup>

**Affiliations:** <sup>1</sup>Institut Català d'Oncologia-Hospitalet, IDIBELL, Universitat de Barcelona, Barcelona, Spain; <sup>2</sup>Monash Health, Clayton, Victoria, Australia; <sup>3</sup>Monash University, Clayton, Victoria, Australia; <sup>4</sup>Sir Charles Gairdner Hospital and Pathwest Laboratory Medicine, Nedlands, Western Australia, Australia; <sup>5</sup>Medical School, University of Western Australia, Crawley, Western Australia, Australia; <sup>6</sup>Linear Clinical Research, Nedlands, Western Australia, Australia; <sup>7</sup>St Vincent's Hospital Melbourne, Fitzroy, Victoria, Australia; <sup>8</sup>Concord Repatriation General Hospital, Concord, New South Wales, Australia; <sup>9</sup>University of Sydney, Sydney, New South Wales, Australia; <sup>10</sup>Auckland City Hospital, Auckland, New Zealand; <sup>11</sup>North Shore Hospital Auckland, New Zealand; <sup>12</sup>Massachusetts General Hospital Cancer Center, Harvard Medical School, Boston, MA, USA; <sup>13</sup>BeiGene (Beijing) Co., Ltd., Beijing, China and BeiGene USA, Inc., San Mateo, CA, USA; <sup>14</sup>Peter MacCallum Cancer Centre, Melbourne, Victoria, Australia; <sup>15</sup>University of Melbourne, Parkville, Victoria, Australia; <sup>16</sup>St Vincent's Hospital Melbourne, Fitzroy, Victoria, Australia; <sup>17</sup>Royal Melbourne Hospital, Parkville, Victoria, Australia

## ABSTRACT

**Introduction:** BCL2 is aberrantly expressed in many hematologic malignancies and promotes tumorigenesis. BGB-11417-101 (NCT04277637) is an ongoing, first-in-human, phase 1/1b dose-escalation/expansion study evaluating safety, tolerability, maximum tolerated dose (MTD), and recommended phase 2 dose of oral BGB-11417, a potent, highly selective BCL2 inhibitor, alone or in combination with zanubrutinib, a BTK inhibitor, in patients with relapsed/refractory (R/R) B-cell malignancies.

**Methods:** BGB-11417 (40, 80, 160, 320, or 640 mg once daily [QD]) with a weekly or daily ramp-up to the target dose) was given as monotherapy or combined with zanubrutinib (320mg QD or 160mg twice daily) 8-12 weeks before BGB-11417. Dose-limiting toxicity was evaluated by Bayesian logistic regression. Adverse events (AEs) were reported per CTCAE v5.0.

**Results:** As of 17Dec2021, 58 patients received BGB-11417 as monotherapy (n=32) or in combination with zanubrutinib (n=26). Since 17Dec2021, 7 patients have been enrolled across 5 currently active sites in Spain. Of patients receiving monotherapy, 26 with non-Hodgkin lymphoma (NHL; 17 DLBCL, 6 follicular lymphoma, and 3 marginal zone lymphoma) received  $\leq 640$ mg and 6 with CLL/SLL received  $\leq 160$ mg; for those 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 been reached. Median follow-up was 3.9 months (range=0.1-20.4 months). Two grade  $\geq 3$  AEs (neutropenia: n=1, autoimmune hemolytic anemia: n=1) occurred in combination cohorts. 20 patients discontinued treatment (disease progression: n=17; AE: n=1; other: n=2). One high-risk patient with CLL in the monotherapy cohort had laboratory tumor lysis syndrome ( $< 2\%$ ) that resolved without intervention. Early data show that most patients had a reduction in sum of product of perpendicular diameters; 2 patients with NHL in the monotherapy cohort had responses (complete response: n=1). Patients with CLL/SLL had notable reductions in absolute lymphocyte counts at doses  $\geq 1$ mg; 2 responses ( $\geq$ partial response) occurred with monotherapy and 12 with combination therapy ( $\geq$ partial response + lymphocytosis).

**Conclusions:** Preliminary findings suggest BGB-11417 has promising efficacy and is tolerable at  $\leq 640$ mg as monotherapy and  $\leq 160$ mg combined with zanubrutinib. Dose escalation continues as MTD has not been reached. Enrollment is ongoing and data for patients with Waldenström macroglobulinemia and treatment-naïve CLL/SLL are forthcoming.