

## **Preliminary Safety and Efficacy Of BGB-11417, a Potent and Selective B-Cell Lymphoma 2 (BCL2) Inhibitor, in Patients (Pts) with Acute Myeloid Leukemia (AML)**

**Authors:** Jake Shortt,<sup>1</sup> Silke Kapp-Schwoerer,<sup>2</sup> Uwe Platzbecker,<sup>3</sup> Shuh Ying Tan,<sup>4</sup> Paul Cannell,<sup>5</sup> Teng Fong Ng,<sup>6</sup> Chun Yew Fong,<sup>7</sup> Sundra Ramanathan,<sup>8</sup> Rajeev Rajagopal,<sup>9</sup> Sophie Leitch,<sup>10</sup> Robin Gasiowski,<sup>11</sup> Carolyn Grove,<sup>12</sup> Douglas Lenton,<sup>13</sup> Peter Tan,<sup>14</sup> Courtney DiNardo,<sup>15</sup> Ming Tat Ling,<sup>16</sup> Si Cheng,<sup>16</sup> Yuan Liu,<sup>16</sup> Melannie Co,<sup>16</sup> Wai Y. Chan,<sup>16</sup> David Simpson,<sup>16</sup> Andrew H. Wei<sup>17,18</sup>

**Affiliations:** <sup>1</sup>School of Clinical Sciences, Monash University and Monash Health, Clayton, Victoria, Australia; <sup>2</sup>University Hospital of Ulm, Ulm, Germany; <sup>3</sup>Leipzig University Hospital, Leipzig, Germany; <sup>4</sup>St Vincent's Hospital Melbourne, Fitzroy, Victoria, Australia; <sup>5</sup>Fiona Stanley Hospital, Murdoch, Western Australia, Australia; <sup>6</sup>Gold Coast University Hospital, Southport, Queensland, Australia; <sup>7</sup>Austin Health, Heidelberg, Victoria, Australia; <sup>8</sup>The Saint George Hospital-Kogarah, Kogarah, New South Wales, Australia; <sup>9</sup>Middlemore Hospital, Auckland, New Zealand; <sup>10</sup>North Shore Hospital, Auckland, New Zealand; <sup>11</sup>Concord Repatriation General Hospital, Concord West, New South Wales, Australia; <sup>12</sup>Linear Clinical Research & Sir Charles Gairdner Hospital, Nedlands, Western Australia, Australia; <sup>13</sup>Orange Health Service (Central West Cancer Care Centre), Orange, New South Wales, Australia; <sup>14</sup>One Clinical Research, Nedlands, Western Australia, Australia; <sup>15</sup>University of Texas MD Anderson Cancer Center, Houston, Texas, USA; <sup>16</sup>BeiGene (Shanghai) Co., Ltd., Shanghai, China and BeiGene USA, Inc., San Mateo, CA, USA; <sup>17</sup>One Clinical Research, Nedlands, Western Australia, Australia; <sup>18</sup>Department of Clinical Haematology, Peter MacCallum Cancer Centre and Royal Melbourne Hospital, Melbourne, Victoria, Australia.

## ABSTRACT

**Background:** BCL2, a key apoptosis regulator, is aberrantly expressed in many hematologic malignancies. The highly selective BCL2 inhibitor, BGB-11417, demonstrated more potent antitumor activity than venetoclax in preclinical studies. Here, preliminary results for BGB-11417 + azacitidine (aza) in AML are presented.

**Methods:** BGB-11417-103 (NCT04771130) is an ongoing, phase 1b/2, global, dose-escalation/expansion study. Eligible pts have treatment (tx)-naïve (TN) AML (unfit for intensive induction chemotherapy) or relapsed/refractory (R/R) AML (no prior aza or BCL2 inhibitors). Pts received 40mg (Cohort 1), 80mg (Cohort 2), or 160mg (Cohort 3) BGB-11417 for 10 d + aza (75 mg/m<sup>2</sup> x 7 d). Cycle 1 had a 4-d BGB-11417 ramp-up. Dose-limiting toxicity (DLT) through Day 28 (nonhematologic) and Day 42 (hematologic), tx-emergent AEs, and responses (2017 European LeukemiaNet criteria) were assessed.

**Results:** As of 10 Jan2022, 27 pts were treated (Cohort 1 n=6; Cohort 2 n=15; Cohort 3 n=6). Median age was 80 y (TN n=18) and 70 y (R/R n=9); 44% had adverse karyotype. At a median follow-up of 2.1 mo and median tx duration of 1.8 mo (range 0.3-7.6), 2/23 evaluable pts had DLTs: Grade [Gr]4 neutropenia and Gr4 thrombocytopenia (Cohort 2) which did not meet safety stopping criteria. 1 pt (Cohort 3) with chronic kidney disease had asymptomatic laboratory tumor lysis syndrome. The most common nonhematologic AEs were constipation (37%) and aza injection-site reaction (33%). The most common Gr≥3 hematologic AEs were neutropenia (44%), thrombocytopenia (41%), and anemia (37%). No pts had BGB-11417 dose reductions. 10 pts discontinued tx: AEs (n=3), proceeding to transplant (n=3), withdrawal (n=2), or disease progression (n=2). CR/CRh rates were 56% (TN) and 44% (R/R). 7/9 CRs occurred by the end of Cycle 1.

**Discussion:** Preliminary data suggest that 10-d BGB-11417 + aza was well-tolerated with promising activity in AML. Most AEs were low-grade in severity. 2 DLTs were seen across the 3 dose levels tested.

**Conclusions:** BGB-11417 + aza resulted in a majority of CR by the end of Cycle 1 and was well-tolerated in AML.