

- In phase 1 of CaDanCe-101, the novel BTK degrader BGB-16673 was safe and well tolerated in this heavily pretreated population of patients with R/R CLL/SLL
  - Only 2 patients discontinued treatment due to a treatment-related TEAE
  - No treatment-related deaths occurred
  - The 200-mg dose was selected as the recommended dose for expansion for phase 2
- Significant antitumor activity was observed, including in patients with BTK mutations and those previously exposed to cBTK, ncBTK, and BCL2 inhibitors
  - The ORR was 84.8%, and the CR/CRi rate was 4.5%; in the 200-mg dose group, the ORR was 93.8%
  - The ORR in triple-exposed patients was 75.0%
  - Median time to first response was 2.8 months
  - 65.2% of patients remained on treatment with a median follow-up of 15.6 months
- BGB-16673 is being evaluated in ongoing phase 2 and 3 studies in R/R CLL

Many patients with chronic lymphocytic leukemia/small lymphocytic lymphoma (CLL/SLL) experience disease progression with Bruton tyrosine kinase (BTK) inhibitors, which can be caused by resistance mutations in BTK<sup>1,3</sup>

- BGB-16673 is an orally available protein degrader that blocks BTK signaling by tagging BTK for degradation through the cell's proteasome pathway, leading to tumor regression (**Figure 1**)<sup>4</sup>
- In preclinical models, BGB-16673 showed central nervous system (CNS) penetration and degraded both wild-type and mutant BTK resistant to covalent BTK (cBTK) (C481S, C481F, C481Y, L528W, T474I) and noncovalent BTK (ncBTK) inhibitors (V416L, M437R, T474I, L528W)<sup>4,5</sup>
- BGB-16673 led to substantial reductions in BTK protein levels in peripheral blood and tumor tissue<sup>6</sup>
- Here, updated safety and efficacy results in patients with relapsed or refractory (R/R) CLL/SLL in phase 1 of CaDanCe-101 are presented

**Figure 1. BGB-16673: a BTK-Targeted CDAC**

**A Ternary complex formation**

**B Polyubiquitination**

**C Target degradation**

**Proteasome**

**Abbreviations:** BTK, Bruton tyrosine kinase; CDAC, chimeric degradation activating compound; Ub, ubiquitin.

- CaDAnCe-101 (BGB-16673-101; NCT05006716) is a phase 1/2, open-label, dose-escalation and dose-expansion study evaluating BGB-16673 in patients with R/R B-cell malignancies (**Figure 2**)

<b>CaDaNcE-101</b> <b>(BBG-16673-101, NCT0500676)</b>		<b>Part 1: Monotherapy dose finding*</b>						
<b>Key eligibility criteria for CaD/CLL</b> <ul style="list-style-type: none"> <li>Meets <b>iwCLL 2018</b> criteria for treatment</li> <li>≥2 prior therapies, incl. <b>cdBTKi</b> if approved for disease</li> <li><b>ECOG PS 0-2</b> &amp; adequate end-organ function</li> </ul>	<b>Part 1a: Dose escalation</b> <b>Selected R/R B-cell malignancies</b> (MZL, FL, MCL, CLL/SLL, WM, DLCL, RT) <i>n</i> =72 <b>Oral, QD, 28-day cycle*</b> Dose: 50 mg, 100 mg, 200 mg, 350 mg, 500 mg, 600 mg		<b>Part 1b: Safety expansion</b> <b>Selected R/R B-cell malignancies</b> (MZL, MCL, CLL/SLL, WM) <i>n</i> ≥20	<b>Part 1c: Additional safety expansion</b> Selected R/R B-cell malignancies (MZL, WM, RT, DLCL, FL) <i>n</i> ≥100				
	<b>Part 1d: Additional safety expansion</b> R/R CLL/SLL <i>n</i> ≥30		<b>Part 1e: Additional safety expansion</b> Selected R/R B-cell malignancies (Japan only) (MZL, FL, MCL, CLL/SLL, WM) <i>n</i> ≥9	<b>Part 1f: Monotherapy safety expansion</b> Selected BTK inhibitor-naïve B-cell malignancy (MZL, MCL, CLL/SLL, WM, RT) <i>n</i> ≤40				
	Determination of <b>BBG-16673 IRD</b>							
<b>Key study objectives for part 1</b> <ul style="list-style-type: none"> <li><b>Primary:</b> safety &amp; tolerability, MTD, &amp; RP2D</li> <li><b>Secondary:</b> PK, PD, &amp; preliminary antitumor activity*</li> </ul>		Cohort 1 Post BTK inhibitor, R/R CLL/SLL	Cohort 2 Post BTK inhibitor, R/R MCL	Cohort 3 Post BTK inhibitor, R/R WM	Phase 2 Cohort 4 Post BTK inhibitor, R/R MZL	Cohort 5 R/R FL	Cohort 6 Post BTK-inhibitor R/R DLCL	Cohort 7 Post BTK inhibitor, R/R RT

**Abbreviations:** cBTK, colocal Bruton tyrosine kinase inhibitor; CL, chronic lymphocytic leukemia; DLBCL, diffuse large B-cell lymphoma; ECOG PS, Eastern Cooperative Oncology Group performance status; FIC, follicular lymphoma; GCB, germinal center B-cell lymphoma; IGH, immunoglobulin heavy chain; CLL, chronic lymphocytic leukemia; MTD, maximum tolerated dose; MZL, marginal zone lymphoma; PD, pharmacokinetics; PK, pharmacokinetics; QD, once daily; R/R, relapsed/refractory; RDE, recommended dose for expansion; RP2D, recommended phase 2; RL, Richter transformation; SLL, small lymphocytic lymphoma; SW, Waldenström macroglobulinemia.

**Abbreviations:** BCL2, B-cell lymphoma 2; BTK, Bruton tyrosine kinase; cBTK, covalent Bruton tyrosine kinase; CLL, chronic lymphocytic leukemia; ECOG PS, Eastern Cooperative Oncology Group performance status; ncBTK, noncovalent Bruton tyrosine kinase; PD, progressive disease; SLL, small lymphocytic lymphoma.

- Overall, BGB-16673 was generally well tolerated (**Table 2**), with fatigue (37%) and contusion (bruising; 30%) among the most common treatment-emergent adverse events (TEAEs; **Figure 3**)
- One patient each had grade 1 and grade 2 atrial fibrillation in the context of infection and progressive disease, respectively
- No pancreatitis occurred
- Major hemorrhages (TEAEs of bleeding that were grade  $\geq 3$ , serious, or involved the CNS) occurred in 2 patients: grade 1 subarachnoid hemorrhage (n=1) and grade 3 subdural hemorrhage (n=1)
- TEAEs led to death in 4 patients; none were treatment related

Median follow-up in safety-evaluable patients: 15.6 months (range, 0.3-30.6+ months).  
Abbreviation: TEAE, treatment-emergent adverse event.

\*Neutropenia combines preferred terms *neutrophil count decreased* and *neutropenia*. All events were laboratory findings and were transient, mostly occurring during the first 1-3 cycles of treatment, with no clinical pancreatitis. Thrombocytopenia combines preferred terms *platelet count decreased* and *thrombocytopenia*.

**Abbreviation:** TEAE, treatment-emergent adverse event.

- In 66 response-evaluable patients, the overall response rate (ORR) was 84.8%; in the 200-mg cohort, the ORR was 93.8% (**Table 3**)
  - The complete response (CR)/CR with incomplete marrow recovery (CRI) rate was 4.5%
  - Median time to first response was 2.8 months
- High ORRs were observed in various high-risk patient subgroups (**Table 4**)
  - Responses were observed regardless of specific mutations in key signaling molecules (eg, *TP53*, *BTK*, and *PLCG2*) and in those previously exposed to cBTK, ncBTK and BCL2 inhibitors
- Rapid and significant cytopenia improvement was observed in patients with a response to treatment (**Figure 4**)
- The progression-free survival rate at 12 months was 77.4% (**Figure 5**)

**Abbreviations:** CR, complete response; CRI, complete response with incomplete marrow recovery; ORR, overall response rate; PD, progressive disease; PR, partial response; PR-L, partial response with lymphocytes; SD, stable disease.

<b>PLCG2 mutation</b>	9/10 (90.0)
<b>Abbreviations:</b> BCL2L2, B-cell lymphoma 2 inhibitor; cBTKi, covalent Bruton tyrosine kinase inhibitor; ncBTKi, noncovalent Bruton tyrosine kinase inhibitor; ORR, overall response rate.	

**PFS, %**

**Months**

**Median follow-up:**  
15.6 months (range, 0.3-30.6+)

**PFS rate at 12 months:**  
77.4% (95% CI, 63.1-86.8)

- Enrollment for CaDAnCe-101 phases 1 and 2 is ongoing at >100 study sites across the US, Canada, the UK, France, Georgia, Germany, Italy, Moldova, Spain, Sweden, Turkey, Australia, South Korea, Brazil, and Japan

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