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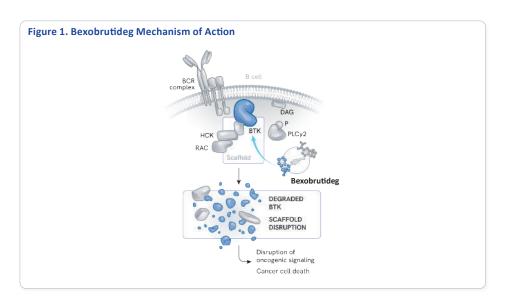
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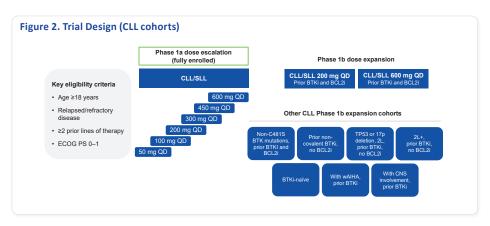
Background

- The current standard of care for patients with CLL focuses on utilizing the inhibitors of two key signaling pathways: BTK and BCL2.
- An unmet need still exists in the CLL treatment landscape
- Covalent and non-covalent BTKi resistance mutations are found in more than half of patients who progress on BTKi therapies.^{1,2}
- Some mutations in BTK can maintain intact B-cell receptor signaling through a scaffolding function of BTK.3
- The number of patients whose disease is BCL2i refractory and double (BTKi/BCL2i) refractory is growing. 4
- The novel BTK degrader bexobrutideg (NX-5948) is a small molecule degrader that offers an additional treatment modality (Figure 1). Bexobrutideg induces specific degradation of wild-type and mutant forms of BTK by ubiquitination via the cereblon E3 ligase complex and subsequent proteasomal degradation. This mechanism allows bexobrutideg to overcome treatment-emergent BTKi resistance mutations⁵ and disrupt BTK scaffolding.^{3,5}
- Here we report updated findings from a Phase 1a trial of bexobrutideg in patients with relapsed/refractory CLL.

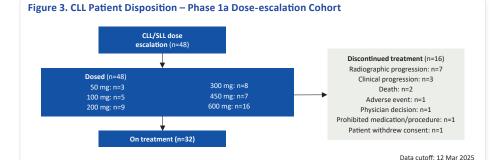


Methods

- NX-5948-301 is a Phase 1 clinical trial evaluating the safety and efficacy of bexobrutideg in patients with relapsed/refractory B-cell malignancies, including CLL and NHL, in parallel 3+3 dose-escalation then dose-expansion cohorts (Figure 2).
- Key eligibility criteria include ≥2 prior therapy lines and ECOG PS 0-1
- Primary: safety/tolerability and identification of a recommended Phase 2 dose.
- Secondary: characterization of the pharmacokinetic/pharmacodynamic profile and assessment of preliminary efficacy according to iwCLL criteria.



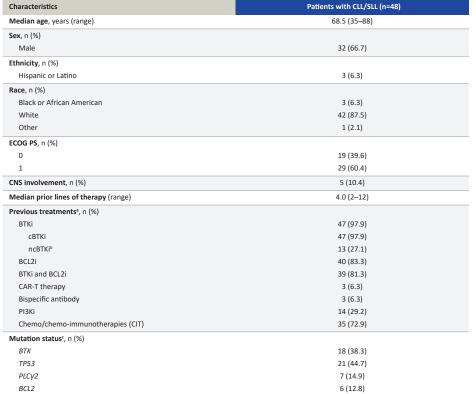
Results



- As of 12 March 2025, 48 patients with CLL/SLL were enrolled in Phase 1 a of the trial and treated at 6 daily oral dose levels
- The CLL population comprised patients with multiple prior lines of therapy and high prevalence of baseline mutations (Table 1).
- Bexobrutideg was well tolerated across all doses, consistent with previous reports (Table 2).
- · There was one treatment-emergent adverse event (TEAE) resulting in drug discontinuation, no dose-limiting toxicities and no
- In 47 response-evaluable patients with CLL, ORR was 80.9%; best overall responses included: 1 CR, 37 PR, 7 SD, and 2 PD (Table 3).
- Clinical activity was observed regardless of TP53 or PLCG2 mutation status, cBTKi or ncBTKi resistance mutations, or CNS
- Bexobrutideg resulted in a decrease in lesion size, as measured by the change from baseline in sum of product diameters (Figure 6).

Table 1. Patient Demographics and Baseline Disease Characteristics: Phase 1a

involvement (Figure 4). Durable responses were observed regardless of prior therapy (Figure 5).

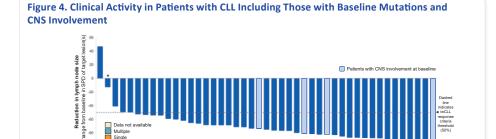


Patients could have received multiple prior treatments; bAll patients who received ncBTKi also previously received cBTKi;

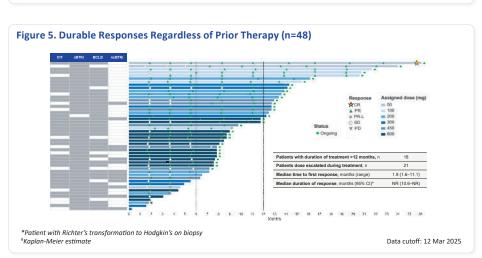
Data cutoff: 12 Mar 2025

Abbreviations

AE, adverse event; ATM, ataxia-telangiectasia mutated; BCL2, B-cell lymphoma 2; BCL2i, BCL2 inhibitor; BTK, Bruton's tyrosine kinase; BTKi, BTK inhibitor; CAR-T, chimeric antigen receptor T-cell; cBTKi, covalent BTKi; CI, confidence interval; CIT, chemo/chemo-immunotherapies; CLL, chronic lymphocytic leukemia; CNS, central nervous system; CR, complete response; ECOG PS, Eastern Cooperative Oncology Group performance status; iwCLL, International Workshop on CLL; MFI, mean fluorescence intensity; ncBTKi, non-covalent BTKi; NE, not evaluable; NHL, non-Hodgkin's lymphoma; NOTCH1, neurologic locus notch homolog protein 1; NR, not reached; ORR, objective response rate; PD, progressive disease; PI3Ki, phosphoinositide 3-kinase inhibitor; PLCG2, phospholipase C gamma 2; PR, partial response; PR-L, partial response with rebound lymphocytosis; QD, once daily; SAE, serious adverse event; SD, stable disease; SLL, small lymphocytic lymphoma; SPD, sum of products diameters; **TEAE**, treatment emergent AE



are evaluated as disease-evaluable per iwCLL criteria, although they may not be represented in the waterfall plo



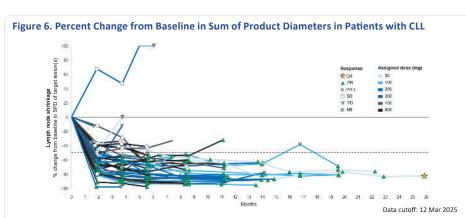


Table 2. TEAEs in ≥10% of Patients or Grade ≥3 TEAEs or SAEs in >1 Patient: Phase 1a

TEAE s, n (%)	Patients with CLL/SLL (n=48)		
	Any grade	Grade ≥3	SAEs
Purpura/contusion ^a	22 (45.8)	-	-
Diarrhea	15 (31.3)	2 (4.2)	-
Fatigue ^b	15 (31.3)	-	-
Neutropenia ^c	14 (29.2)	11 (22.9)	-
Rash ^d	13 (27.1)	1 (2.1)	1 (2.1)
Petechiae	12 (25.0)	-	_
Headache	12 (25.0)	_	-
Thrombocytopenia ^e	11 (22.9)	1 (2.1)	-
Anemia	9 (18.8)	2 (4.2)	-
COVID-19 ^f	9 (18.8)	-	-
Peripheral edema	9 (18.8)	-	-
Cough	8 (16.7)	-	_
Lower respiratory tract infection	7 (14.6)	1 (2.1)	1 (2.1)
Nausea	7 (14.6)	-	_
Pneumonia ^g	6 (12.5)	2 (4.2)	2 (4.2)
Arthralgia	6 (12.5)	-	_
Upper respiratory tract infection	5 (10.4)	-	_
Vomiting	5 (10.4)	1 (2.1)	_
Respiratory syncytial virus infection	2 (4.2)	1 (2.1)	2 (4.2)

"Purpura/contusion includes episodes of contusion or purpura; "Fatigue was transient; 'Aggregate of 'thrombocytopenia' Data cutof and 'platelet count decreased'; 'Aggregate of 'rash' and 'rash maculopapular' and 'rash pustular'; 'Aggregate of 'neutrophil count decreased' or 'neutropenia'; 'Aggregate of 'COVID-19' and 'COVID-19 pneumonia'; 'Aggregate of 'pneumonia' and 'pneumonia' Data cutoff: 12 Mar 2025

Table 3, Bexobrutideg Overall Response Assessment

CLL response-evaluable patients ^a	Response analysis (n=47)
Objective response rate (ORR), 6 % (95% CI)	80.9 (66.7–90.9)
Best response, n (%)	
CR	1 (2.1)
PR	37 (78.7)
PR-L	0 (0.0)
SD	7 (14.9)
PD	2 (4.3)
Median follow-up, months: (range)d	9.0 (1.6–26.1)

ePatients who were treated with bexobrutideg having ≥1 post-baseline disease assessment or documented clinical PD ^bObjective response rate was evaluated using iwCLL criteria and included CR + PR + PR-L unconfirmed responses Kaplan-Meier estimate; dObserved values

Data cutoff: 12 Mar 2025

Conclusions

- Bexobrutideg (NX-5948) is a novel small molecule that degrades a well-validated CLL target BTK by utilizing the ubiquitin-proteasome pathway.
- In the fully enrolled Phase 1a CLL portion of the NX-5948-301 study as of the 12 March 2025 data cut: - Median follow-up was 9.0 months, and most patients were still on treatment.
- Bexobrutideg was well tolerated, consistent with the overall study population and previous disclosures.
- Bexobrutideg showed clinical activity in a population of heavily pretreated patients with advanced CLL: · Patients had a median of four prior lines of therapy including, among others, prior cBTKi, ncBTKi, and BCL2i
- A high number of patients had BTK, PLCG2, and BCL2 mutations, high-risk molecular features and CNS
- involvement. No patient profile was associated with intrinsic resistance to bexobrutideg
- Robust and deepening responses were observed with high ORR (80.9%), including one CR:
- · Responses were rapid with a median time to first response of 1.87 months.
- Multiple conversions were observed from SD to PR, and one conversion from PR to CR. • Of 18 patients treated for more than 12 months, 17 remain on study. One patient is approaching 2.5 years
 - Enrollment is ongoing in additional Phase 1b sub-population cohorts and

pivotal trial(s) initiation is planned later in 2025

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