# Sonrotoclax + Zanubrutinib for TN-CLL Demonstrates MRD Clearance and Tolerability in Ongoing Phase 1/1b Study (BGB-11417-101)

#### Piers E.M. Patten<sup>1,2</sup> Jacob D. Soumerai<sup>3</sup>, Chan Y. Cheah<sup>4-6</sup>, Stephen S. Opat<sup>7</sup>, Raul Cordoba<sup>8</sup>, Paolo Ghia<sup>9,10</sup>, Sheel Patel<sup>11</sup>, Yiqian Fang<sup>12</sup>, Wei Ding<sup>11</sup>, Constantine S. Tam<sup>13</sup>,

<sup>1</sup>Comprehensive Cancer Centre, King's College London, UK; <sup>2</sup>King's College Hospital, London, UK; <sup>3</sup>Massachusetts General Hospital, Nedlands, WA, Australia; <sup>5</sup>Medical School, University of Western Australia, Crawley, WA, Australia; <sup>6</sup>Linear Clinical Research, Nedlands, WA, Australia; <sup>7</sup>Lymphoma Research Group, School of Clinical Sciences at Monash Health, Monash Universitario Fundación Jiménez Díaz, Madrid, Spain; <sup>9</sup>Università Vita-Salute San Raffaele, Milano, Italy; <sup>10</sup>IRCCS Ospedale San Raffaele, Milano, Italy; <sup>11</sup>BeiGene USA, Inc, San Mateo, CA, USA; <sup>12</sup>BeiGene (Shanghai) Co, Ltd, Shanghai, China; <sup>13</sup>Alfred Hospital and Monash University, Melbourne, VIC, Australia

# INTRODUCTION

- Ibrutinib + venetoclax in patients with chronic lymphocytic leukemia (CLL)/ small lymphocytic lymphoma (SLL) is effective; however, toxicities can limit use<sup>1</sup>
- A next-generation BCL2 inhibitor + Bruton tyrosine kinase (BTK) inhibitor doublet is desired to improve the safety and efficacy of combination therapy
- Sonrotoclax (BGB-11417), a next-generation BCL2 inhibitor, is a more selective and pharmacologically potent inhibitor of BCL2 than venetoclax, with a shorter half-life and no drug accumulation<sup>2,3</sup>

#### Table 2. Overall Safety Summary

Patients, n (%)	Sonro 160 mg + Zanu (n=51)	Sonro 320 mg + Zanu (n=86)	All Patients (N=137)
Duration of exposure, median (range), months	18.7 (5.8-33.3)	19.3 (0.4-29.7)	19.2 (0.4-33.3)
Any TEAEs	51 (100)	77 (89.5)	128 (93.4)
Grade ≥3	29 (56.9)	39 (45.3)	68 (49.6)
Serious TEAEs	13 (25.5)	20 (23.3)	33 (24.1)
Leading to death	0	0	0
Leading to discontinuation of zanu	1 (2)	4 (4.7)	<b>5 (3.6)</b> <sup>a,b</sup>
Treated with sonro	51 (100)	67 (77.9)	118 (86.1)
Leading to discontinuation of sonro	1 (2)	2 (2.3)	3 (2.2)ª
Relative dose intensity of sonro, median, %	98.9	99.0	99.0

## CONCLUSIONS

• Sonrotoclax 160 or 320 mg in combination with zanubrutinib (320 mg) was generally safe and well tolerated, with a median relative dose intensity of 99%

**PO104** 

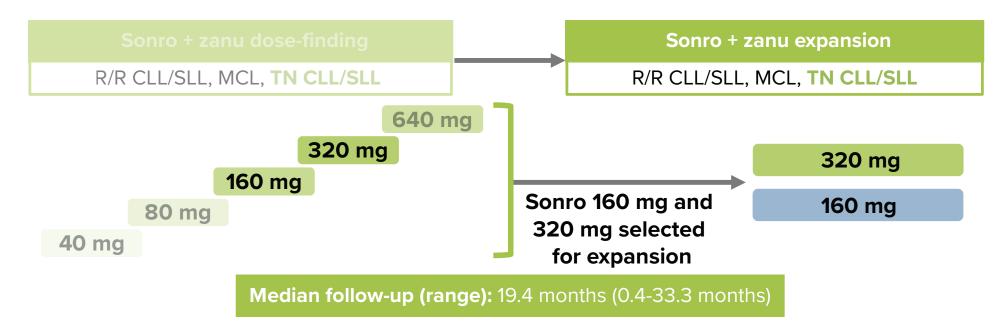
- No laboratory or clinical TLS occurred
- Majority of TEAEs were low grade; low rates of gastrointestinal TEAEs, predominantly grade 1, were observed

- Zanubrutinib is highly effective in patients with treatment naive (TN) and relapsed/refractory (R/R) CLL/SLL, regardless of risk factors<sup>4,5</sup>
- Zanubrutinib has shown superior PFS and favorable safety/tolerability compared with ibrutinib, including fewer cardiac AEs, in patients with R/R CLL/SLL<sup>6</sup>
- Here, we report updated expansion data from the BGB-11417-101 trial in patients with TN CLL/SLL treated with sonrotoclax in combination with zanubrutinib

# METHODS

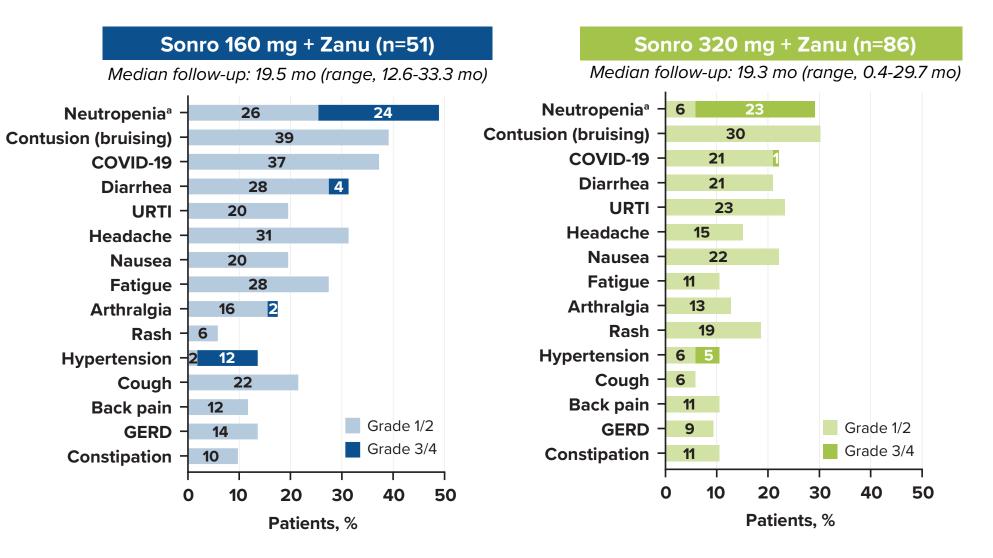
- BGB-11417-101 (NCT04277637) is a global phase 1/1b study evaluating sonrotoclax as monotherapy, or in combination with zanubrutinib and/or obinutuzumab in patients with B-cell malignancies
- The study endpoints included safety per CTCAE v5.0, RP2D, and efficacy
- Treatment consisted of 8-12 weeks of zanubrutinib lead-in (320 mg QD or 160 mg BID), then zanubrutinib + sonrotoclax until disease progression or intolerance (Figure 1)

#### Figure 1. BGB-11417-101 Study Design



° Three discontinuations of sonro + zanu (n=1 each): meningitis (sonro 160 mg on study day 177), CMML (sonro 320 mg on study day 742), recurrent sinusitis (sonro 320 mg on study day 533). <sup>b</sup> Two discontinuations of zanu only (n=1 each): intracranial hemorrhage (study day 318), intermittent diarrhea (grade 1 on study day 30).

#### Figure 2. Most Common TEAEs (≥10% of All Patients)



Includes the combined preferred terms neutrophil count decreased and neutropenia. GERD, gastroesophageal reflux disease; URTI, upper respiratory tract infection

- The most common grade  $\geq$ 3 TEAE was neutropenia, which was mostly transitory
- No fatal TEAEs and no complicated COVID-19 case or death occurred
- Substantial efficacy was observed in this all-comer TN CLL/SLL population, including in patients with high-risk features
  - The sonrotoclax + zanubrutinib combination demonstrated a high response rate, including 100% ORR in the 320-mg cohort
  - High and early blood uMRD4 was seen by week 24 of combination therapy in both dose cohorts, with higher rates in the 320-mg cohort and further deepening by week 48 in both cohorts. No patient has progressed from uMRD4 to MRD4+
  - With median follow-up of 19.4 months, only 1 primary progression occurred in the 160-mg cohort that was an Richter transformation
- Sonrotoclax 320 mg in combination with zanubrutinib is being evaluated in patients with TN CLL in the phase 3 study, CELESTIAL-TNCLL (NCT06073821)

Figure 5. PFS for Sonrotoclax + Zanubrutinib

RESULTS

0.9

#### Disposition

- As of August 23, 2024, 137 patients were enrolled
- Patient and disease characteristics are shown in Table 1

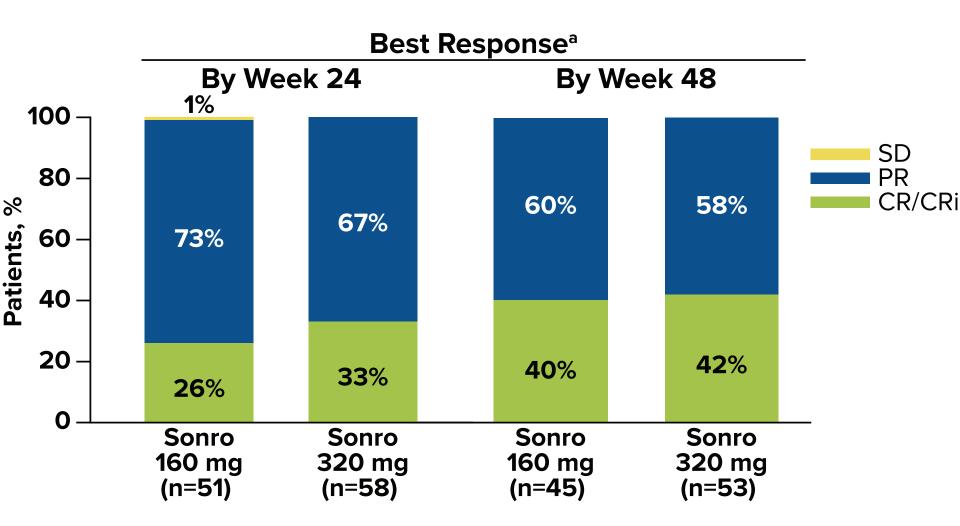
### Table 1. Baseline Demographics and Clinical **Characteristics**

Characteristics	Sonro 160 mg + Zanu (n=51)	Sonro 320 mg + Zanu (n-86)	All Patients
Characteristics Study follow-up, median	(n=51) 19.5 (12.6-33.3)	<b>(n=86)</b> 19.3 (0.4-29.7)	<b>(N=137)</b> 19.4 (0.4-33.3)
(range), months	19.3 (12.0-33.3)	19.3 (0.4-29.7)	19.4 (0.4-33.3)
Age, median (range), years	63 (38-82)	61 (32-84)	62 (32-84)
≥65 years, n (%)	20 (39.2)	35 (40.7)	55 (40.1)
Male sex, n (%)	37 (72.5)	61 (70.9)	98 (71.5)
Disease type, n (%)			
CLL	48 (94.1)	82 (95.3)	130 (94.9)
SLL	3 (5.9)	4 (4.7)	7 (5.1)
Risk status, n/tested (%)			
del(17p)	5/45 (11.1)	6/77 (7.8)	11/122 (9.0)
TP53 mutation <sup>a</sup>	11/47 (23.4)	13/62 (21.0)	24/109 (22.0)
del(11q)	10/45 (22.2)	11/77 (14.3)	21/122 (17.2)
IGHV status, n/tested (%)			
Unmutated IGHV	32/47 (68.1)	32/60 (53.3)	64/107 (59.8)

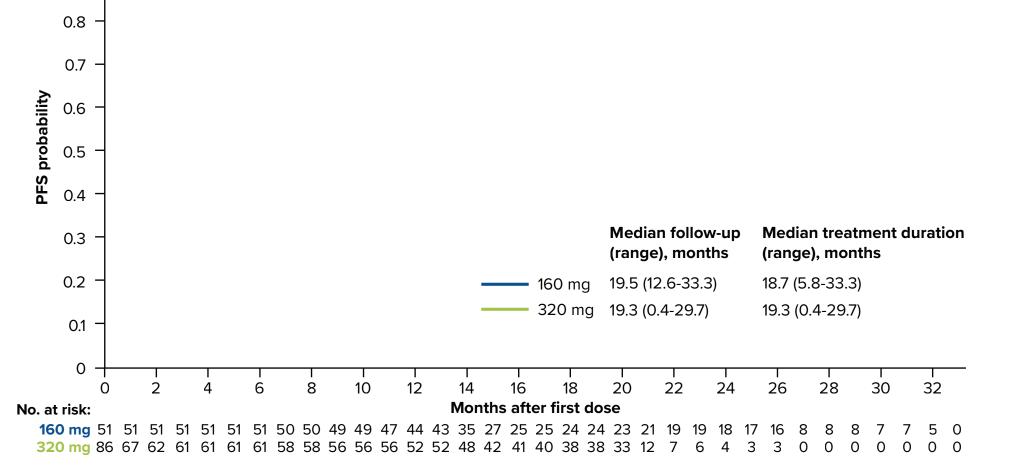
#### Efficacy

- In efficacy-evaluable patients, the CR/CRi rates by week 24 were 26% and 33%, and by week 48 were 40% and 42% for the 160-mg and 320-mg cohorts, respectively (Figure 3)
- Best blood uMRD4 rates by week 24 were 59% and 78%, and by week 48 were 82% and 91% for the 160-mg and 320-mg cohorts, respectively (Figure 4)
- As of the data cutoff date, no patients had switched from uMRD4 to MRD4+
- One PFS event occurred in the 160-mg cohort (Richter transformation); no progression was seen in the 320-mg cohort (Figure 5)

Figure 3. Best Response Rates by Weeks 24 and 48



<sup>a</sup> Percentages based on the number of patients who reached assessment at 24 or 48 weeks after completion of ramp-up, following zanu monotherapy and sonro ramp-up to target dose.



#### REFERENCES

- 1. Kater AP, et al. NEJM Evidence. 2022;1(7):EVIDoa2200006.
- 2. Guo Y, et al. J Med Chem. 2024;67(10):7836-7858.
- 3. Liu J, et al. *Blood*. 2024;143(18):1825-1836.
- 4. Brukinsa (zanubrutinib). Prescribing information. BeiGene, Ltd; 2024.
- 5. Brukinsa (zanubrutinib). Summary of product characteristics. BeiGene, Ltd; 2021.
- 6. Brown JR, et al. N Engl J Med. 2023;388(4):319-332.

#### DISCLOSURES

**PEMP:** Research funding: AstraZeneca, AbbVie, BeiGene, Janssen, Novartis; Honoraria: AstraZeneca, AbbVie, BeiGene; Travel, accommodations, or expenses: AbbVie, BeiGene, Janssen. **JDS:** Consulting fees: AstraZeneca, BMS, Genentech/Roche, LOXO@Lilly; Research support: (paid to institution): Adaptive Biotechnologies, BeiGene, BostonGene, Genentech/Roche, GSK, Moderna, Takeda, TG Therapeutics. CYC: Consulting, advisory, honoraria: Roche, Janssen, Gilead, AstraZeneca, Lilly, BeiGene, Menarini, Dizal, AbbVie, Genmab, Sobi, CRISPR Therapeutics, BMS, Regeneron; Speaker's bureau: Janssen, AstraZeneca, BeiGene, Genmab, AbbVie, Roche, MSD; Research funding: BMS, Roche, AbbVie, MSD, Lilly; Travel expenses: Lilly, BeiGene. SSO: Honoraria: AbbVie, AstraZeneca, BeiGene, Gilead, Janssen, Merck; Consulting or advisory role: AbbVie, AstraZeneca, BeiGene, Janssen, Novartis; Research funding: AbbVie, AstraZeneca, BeiGene, Gilead, Janssen, Novartis, Pharmacyclics, Roche, Takeda; Other relationship: Member of Safety and Data Monitoring Committee (Merck). RC: Consultancy fees, honoraria, travel support, advisory board: AbbVie, AstraZeneca, BeiGene, Gilead, Incyte, Johnson & Johnson, Lilly, Roche. PG: Consultant or advisory role and honoraria: AbbVie, AstraZeneca, BeiGene, BMS, Galapagos, Johson & Johnson, Lilly/Loxo Oncology, MSD, Roche. SP, YF: Employment and may own stock: BeiGene. WD: Employment, stock, and travel, accommodations, expenses: BeiGene. CST: Honoraria: BeiGene, Janssen, AbbVie, AstraZeneca, Gilead; Research funding: BeiGene, Janssen, AbbVie.

High tumor bulk<sup>b</sup> at

#### baseline, n/tested (%)

17/82 (20.7) 39/133 (29.3)

#### Data cutoff: August 23, 2024. <sup>a</sup> TP53 mutations defined as >0.1% VAF. <sup>b</sup> Nodes ≥10 cm or nodes >5 cm and ALC >25×10<sup>9</sup>/L.

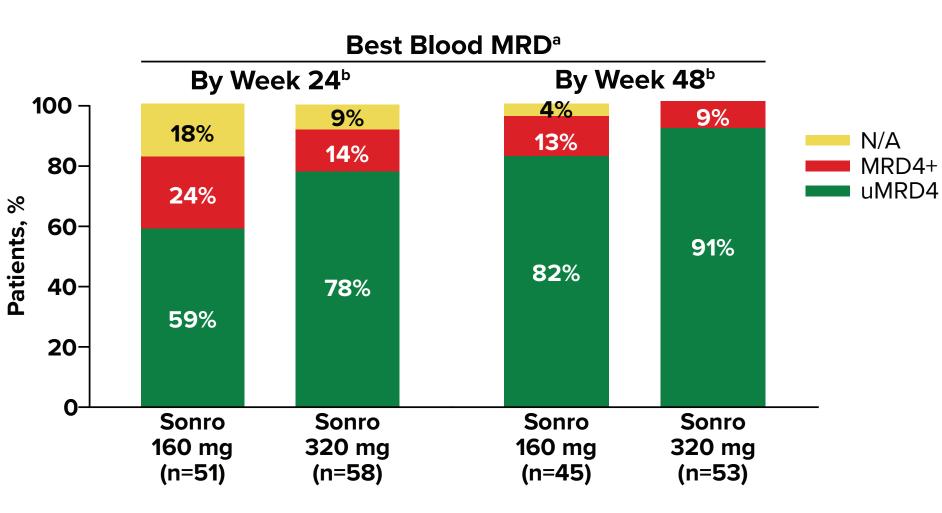
### Safety

 Three patients discontinued combination treatment, while 2 discontinued zanubrutinib only (**Table 2**)

22/51 (43.1)

- As of the data cutoff date, 19 patients in the 320-mg cohort remained in zanubrutinib lead-in
- The most common TEAEs for all patients were neutropenia (160 mg, 49%; 320 mg, 29%), contusion (160 mg, 39%; 320 mg, 30%), COVID-19 (160 mg, 37%; 320 mg, 22%), and diarrhea (160 mg, 31%; 320 mg, 21%)
  - Neutropenia was the most common grade  $\geq$ 3 TEAE (**Figure 2**)
  - Neutropenia was transient and did not lead to higher rates of grade  $\geq$ 3 infections
- No tumor lysis syndrome (TLS) or deaths occurred

Figure 4. Best Blood MRDs by Weeks 24 and 28



<sup>a</sup> As measured by ERIC flow cytometry panel; uMRD4 is defined as less than 1 CLL cell per 10,000 leukocytes (<10<sup>-4</sup>). <sup>b</sup> Number of weeks at target dose, following zanu monotherapy and sonro ramp-up to target dose.

#### ACKNOWLEDGMENTS

The authors thank the patients and their families, investigators, co-investigators, and the study teams at each of the participating centers. They also thank Binghao Wu (BeiGene) for work on the MRD analyses. This study was sponsored by BeiGene, Ltd. Medical writing was provided by Amanda Martin, PhD, of Nucleus Global, an Inizio company, and supported by BeiGene.