

# Sonrotoclax and Zanubrutinib as Frontline Treatment for CLL Demonstrates High MRD Clearance Rates with Good Tolerability: Data from an Ongoing Phase 1/1b Study BGB-11417-101

**Jacob D. Soumerai**,<sup>1</sup> Chan Y. Cheah,<sup>2-4</sup> Mary Ann Anderson,<sup>5,6</sup> Masa Lasica,<sup>7</sup> Emma Verner,<sup>8,9</sup> Stephen S. Opat,<sup>10</sup> Shuo Ma,<sup>11</sup> Robert Weinkove,<sup>12,13</sup> Raul Cordoba,<sup>14</sup> Paolo Ghia,<sup>15,16</sup> Sophie Leitch,<sup>17</sup> David Westerman,<sup>18,19</sup> Sheel Patel,<sup>20</sup> Yiqian Fang,<sup>21</sup> Wei Ding,<sup>20</sup> Haiyi Guo,<sup>21</sup> Constantine S. Tam<sup>22</sup>

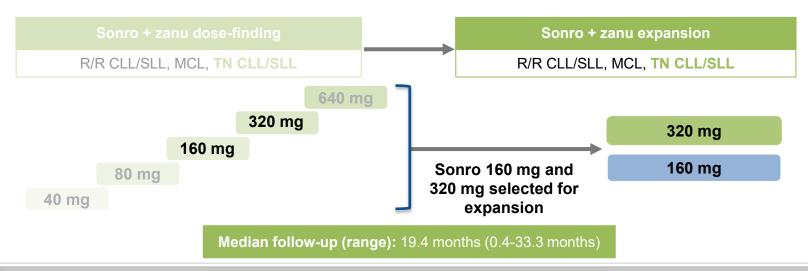
¹Massachusetts General Hospital Cancer Center and Harvard Medical School, Boston, MA, USA; ²Sir Charles Gairdner Hospital, Nedlands, WA, Australia; ³Medical School, University of Western Australia, Crawley, WA, Australia; ⁴Linear Clinical Research, Nedlands, WA, Australia; ⁵Royal Melbourne Hospital and Peter MacCallum Cancer Centre, Melbourne, VIC, Australia; ⁵The Walter and Eliza Hall Institute, Melbourne, VIC, Australia; ¹St Vincent's Hospital Melbourne, Fitzroy, VIC, Australia; ¹Concord Repatriation General Hospital, Concord, NSW, Australia; ¹University of Sydney, NSW, Australia; ¹University, Clayton, VIC, Australia; ¹¹Robert H. Lurie Comprehensive Cancer Center, Northwestern University Feinberg School of Medicine, Chicago, IL, USA; ¹²Te Rerenga Ora Blood and Cancer Centre, Te Whatu Ora Health New Zealand Capital Coast & Hutt Valley, Wellington, New Zealand; ¹³Cancer Immunotherapy Programme, Malaghan Institute of Medical Research, Wellington, New Zealand; ¹⁴Hospital Universitario Fundación Jiménez Díaz, Madrid, Spain; ¹⁵Università Vita-Salute San Raffaele, Milano, Italy; ¹¹Te Whatu Ora Health New Zealand-Waitemata, Auckland, New Zealand; ¹³Peter MacCallum Cancer Centre, Melbourne, VIC, Australia; ¹¹University of Melbourne, VIC, Australia; ²0BeiGene USA, Inc, San Mateo, CA, USA; ²¹BeiGene (Shanghai) Co, Ltd, Shanghai, China; ²²Alfred Hospital and Monash University, Melbourne, VIC, Australia

### Introduction

- Ibrutinib + venetoclax in patients with CLL/SLL is effective; however, toxicities can limit use<sup>1</sup>
- A next-generation BCL2 inhibitor + 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>
- Zanubrutinib is highly effective in patients with TN and 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

### BGB-11417-101 (NCT04277637) Study Design

- BGB-11417-101 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



### **Baseline Characteristics**

Characteristics	Sonro 160 mg + zanu (n=51)	Sonro 320 mg + zanu (n=86)	All Patients (N=137)
Study follow-up, median (range), months	19.5 (12.6-33.3)	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)
<i>TP53</i> 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)
High tumor bulkb at baseline, n/tested (%)	22/51 (43.1)	17/82 (20.7)	39/133 (29.3)

Data cutoff: August 23, 2024.

<sup>&</sup>lt;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.

## Sonrotoclax in Combination with Zanubrutinib is Well Tolerated With Low Treatment Discontinuation Rates

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)	5 (3.6) <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) <sup>a</sup>
Relative dose intensity of sonro, median, %	98.9	99.0	99.0

As of the data cutoff date, 19 patients in the 320-mg cohort remained in zanubrutinib lead-in

<sup>&</sup>lt;sup>a</sup> 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>&</sup>lt;sup>b</sup> Two discontinuations of zanu only (n=1 each): intracranial hemorrhage (study day 318), intermittent diarrhea (grade 1 on study day 30).

## TEAEs Observed With Sonrotoclax + Zanubrutinib Were Mostly Low Grade and Transient

#### TEAEs in ≥10% of all patients

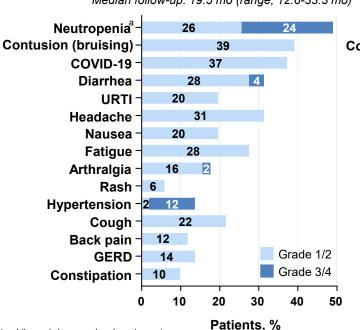
#### Sonro 160 mg + zanu (n=51)

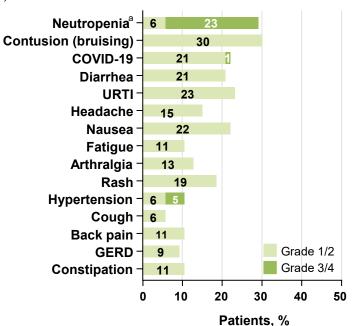
Median follow-up: 19.5 mo (range, 12.6-33.3 mo)

Sonro 320 mg + zanu (n=86)

Median follow-up: 19.3 mo (range, 0.4-29.7 mo)

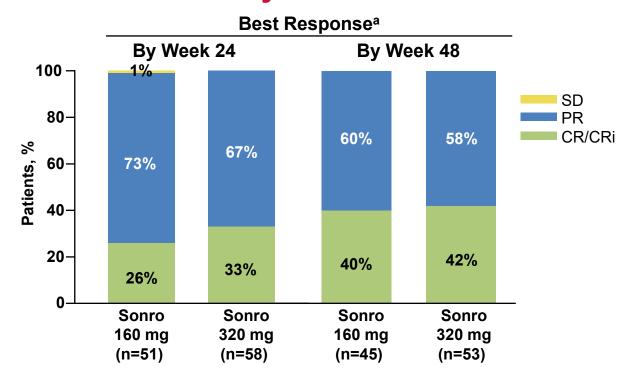
- No TLS
- Neutropenia was transient and did not lead to higher rates of grade ≥3 infections

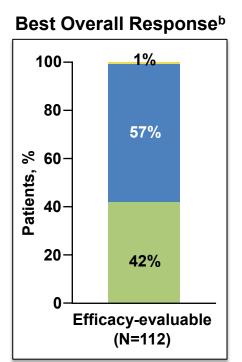




<sup>a</sup> Includes the combined preferred terms neutrophil count decreased and neutropenia.

## Sonrotoclax + Zanubrutinib Demonstrates Substantial Antitumor Activity in TN CLL

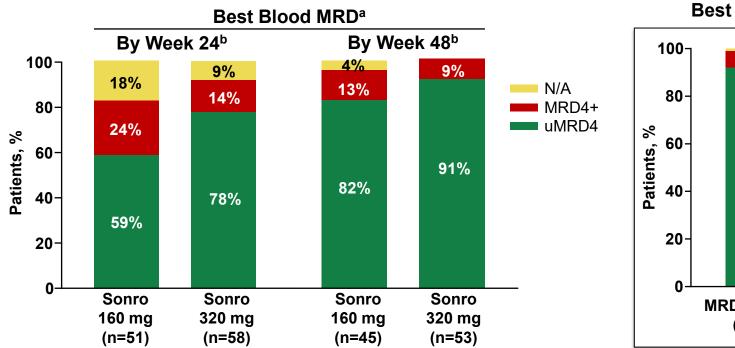


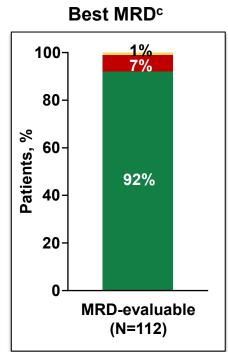


<sup>&</sup>lt;sup>a</sup> Percentages based on the number of patients who reached assessment at 24 or 48 weeks after completion of ramp-up, following zanu monotherapy and sonro ramp-up to target dose.

b Data based on the number of patients who had a post-baseline tumor assessment following zanu monotherapy and sonro ramp-up to target dose.

## High Blood uMRD4 Rates Occurred Early and All Patients Remain in uMRD



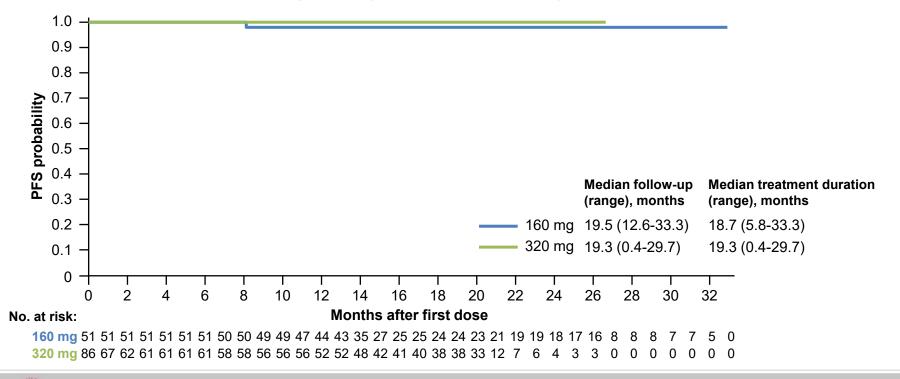


As of the data cutoff date, no patients had switched from uMRD to MRD4+

<sup>&</sup>lt;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. <sup>c</sup> Data based on the number of patients who had an MRD assessment following zanu monotherapy and sonro ramp-up to target dose.

### At Median Study Follow-Up of 19.4 Months, No Progression Was Observed With Sonrotoclax 320 mg

1 PFS event in sonrotoclax 160-mg cohort (Richter transformation)



## With Longer Follow-Up, Sonrotoclax + Zanubrutinib Continued to Demonstrate Compelling Safety and Efficacy in TN CLL

- 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%
  - No laboratory or clinical TLS occurred
  - Majority of TEAEs were low grade; low rates of GI TEAEs, predominantly grade 1, were observed
  - The most common grade ≥3 TEAE was neutropenia, which was mostly transitory
  - No fatal TEAEs, no complicated COVID-19 case or death
- 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+ and overall, 92% of patients achieved uMRD4 as a best MRD response
  - With median follow-up of 19.4 months, only 1 primary progression occurred in the 160-mg cohort that was an RT
- Sonrotoclax 320 mg in combination with zanubrutinib is being evaluated in patients with TN CLL in the phase 3 study, CELESTIAL-TNCLL (NCT06073821); enrollment is currently ongoing

### **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

Corresponding Author: Jacob D. Soumerai, jsoumerai@mgh.harvard.edu