ZANUBRUTINIB MONOTHERAPY IN PATIENTS WITH RELAPSED OR REFRACTORY **CHRONIC LYMPHOCYTIC LEUKEMIA: 34-MONTH FOLLOW-UP RESULTS**

Wei Xu, MD, PhD¹; Shenmiao Yang, MD, PhD²; Keshu Zhou, MD, PhD³; Ling Pan, MD, PhD³; Jianda Hu, MD, PhD³; Jianda Hu, MD, PhD³; Jianda Hu, MD, PhD³; Jianfeng Zhou, MD, PhD³; Jianda Hu, MD, Ph William Novotny MD¹²; Shibao Feng, PhD¹²; and Jianyong Li, MD, PhD¹

1 The First Affiliated Cancer Hospital, China; ³ Affiliated Hospital, China; ⁴ West China; ⁴ West China; ⁴ West China; ³ Affiliated Cancer Hospital, China; ⁴ West China; ⁴ West China; ⁴ West China; ⁶ Tongji Hospital, China; ⁴ West China; ⁴ West China; ⁶ Tongji Hospital, China; ⁴ West China; ⁴ University, Changchun, China; ¹⁰Nanfang Hospital of Southern Medical University, Guangzhou, China; ¹⁰Nanfang Hospital of Southern Medical University, Guangzhou, China; ¹⁰Nanfang Hospital of Southern Medical University, Suzhou, China; ¹⁰Nanfang Hospital of Southern Medical University, Suzhou, China; ¹⁰Nanfang Hospital of Southern Medical University, Suzhou, China; ¹⁰Nanfang Hospital, Fuzhou, China; ¹⁰Nanfang Hospital, Fuzhou, China; ¹⁰Nanfang Hospital of Southern Medical University, Suzhou, China; ¹⁰Nanfang Hospital, Fuzhou, China; ¹⁰Nanfang

INTRODUCTION

- Zanubrutinib, a highly selective, potent, and irreversible Bruton tyrosine kinase (BTK) inhibitor, was designed to maximize BTK occupancy and minimize off-target inhibition of TEC, ITK, and EGFR-family kinase¹
- Zanubrutinib has been approved for the treatment of adult patients with relapsed/ refractory (R/R) chronic lymphocytic leukemia/small lymphocytic lymphoma (CLL/SLL) in China and for R/R mantle cell lymphoma in both China and the United States
- The previous results of this study reported that zanubrutinib is highly active in R/R CLL/SLL, with a well-tolerated safety profile²
- Here, we present the long-term results of a 34-month follow-up of this study

METHODS

- BGB-3111-205 is a single-arm, multicenter, phase 2 study (NCT03206918) of zanubrutinib conducted in China in patients with R/R CLL (**Figure 1**)
- Primary endpoint: overall response rate (ORR) assessed by independent review committee (IRC) according to International Workshop on CLL guidelines or the Lugano Classification for SLL
- Secondary endpoints: duration of response and progression-free survival assessed by IRC, and safety

Figure 1. Study Design



RESULTS

• A total of 91 patients were included in this analysis (**Figure 2**)



AE, adverse event; PD, progressive disease; PI, principal investigato

Table 1. Patient and Disease Characteristics

Baselir Median Male, n Advance **Prior the** Alkylato Purine a Anti-CD Median r Refractor ECOG PS Beta-2 m Molecula *TP53* mt IGHV un 11q dele 13q dele Trisomy

Percentages are based on number of CLL patients with Binet C and SLL patients with stage III and IV • Overall response rate was 87.9% (Table 2)

Table 2. Best Overall Response by IRC

Response by IRC	N=91
ORR, n (%)	80 (87.9)
Median TTR, months (range)	2.79 (2.6 - 16.8)
Best response, n (%)	
CR	6 (6.6)
PR	63 (69.2)
PR-L	11 (12.1)
SD	3 (3.3)
PD	3 (3.3)

Not evaluable

stable disease: TTR. time to response

Fig	jure	
%	100	
Ú.	90	
R	80	
þ	70	
sed	60	
ess	50	
SS	40	
e Þ	30	
SU	20	
bd	10	
Re	0	

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RESULTS (CONTINUED)

• Patient and disease characteristics are described in **Table 1**

Characteristics	N=91
age (range), years	61 (35 - 87)
(%)	52 (57.1)
ed stage,ª n (%)	63 (69.2)
erapy, n (%)	
or (including bendamustine)	68 (74.7)
analog	52 (57.1)
20 antibody	54 (59.3)
number of prior lines of therapy (range), n	1 (1-9)
ry to last therapy, n (%)	72 (79.1)
S 1/2, n (%)	49 (53.8)
nicroglobulin >3.5 mg/L, n (%)	68 (74.7)
ar risk, n (%)	
utation and/or 17p deletion	22 (24.2)
nmutated	51 (56.0)
tion	20 (22.0)
etion	41 (45.1)
12	21 (23.1)
cytic leukemia; ECOG PS, Eastern Cooperative Oncology Group performance status; IGHV, immunoglobulin	heavy chain; SLL, small lymphocytic lymphoma.

The median follow-up was 34 months (range, 0.8-41.4)

Discontinued prior to first postbaseline assessment

CR, complete response; IRC, independent review committee; ORR, overall response rate; PD, progressive disease; PR, partial response; PR-L, partial response with lymphocytosis; SI

2 (2.2)

3 (3.3)

• Response to zanubrutinib increased and deepened over time (Figure 3)

3. Response to Zanubrutinib Over Time



- cytogenetics (**Figure 4**)

Figure 4. Subgroup Efficacy Analysis

Subgroup	Response/Patients		Response/Patients Overall Response Rate (95% CI) (%) ^a		
All patients		80/91		⊢	.40, 93.81)
Age group	<65	54/60		⊢ 90.0 (79	.49, 96.24)
	≥65 years	26/31		⊢−−−−− 83.9 (66	.27, 94.55)
Cancer type	CLL	72/82		⊢−−− 87.8 (78	.71, 93.99)
	SLL	8/9		► 88.9 (51	.75, 99.72)
Refractory to last	Yes	63/72		⊢ − −− 87.5 (77	.59, 94.12)
systemic therapy	No	17/19		89.5 (66	.86, 98.70)
IGHV mutational status	Mutated	20/23		⊢ − −−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−	6.41, 97.22)
	Unmutated	45/51		⊢−−−− 88.2 (76	.13, 95.56)
	NA ^b	15/17		► 88.2 (63	.56, 98.54)
Chromosome 17p deletion	Yes	15/17		— 88.2 (63	.56, 98.54)
	No	65/74		⊢−●− 87.8 (78	.16, 94.29)
Chromosome	Yes	37/41		⊢ − −−− 90.2 (76	.87, 97.28)
13q deletion	No	43/50		⊨ ● 86.0 (73	.26, 94.18)
Chromosome	Yes	20/20		⊢ 100.0 (83	.16, 100.00)
11q deletion	No	60/71		⊢−−− 84.5 (73	.97, 92.00)
Trisomy 12	Yes	19/21		⊢ −−− −−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−	.62, 98.83)
	No	61/70		▶ • • • • • 87.1 (76.	99, 93.95)
TP53 mutation	Positive	18/20		⊢ −−− −−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−	3.30, 98.77)
	Negative	62/71		► 87.3 (77 .	30, 94.04)
Chromosome 17p	Yes	20/22		⊢ −−− −−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−	.84, 98.88)
deletion or <i>TP53</i> mutation	No	60/69		<u> </u>	.68, 93.86)
		C)	25 50 75 100	

CLL, chronic lymphocytic leukemia; IGHV, immunoglobulin neavy chain; SLL, small lymphocytic lymphoma. wo-sided Clopper-Pearson 95% confidence intervals. ^b 'NA' of IGHV mutational status is for the following cases: IGHV gene rearrangement undetected (3 patients); multiclonal IGHV gene rearrangement detected (13 patients); test failed (1 patient)





• ORR was generally consistent across all subgroups analyzed, including patients with high-risk

– Patients with del(17p) and/or TP53 mutation and del(11q) achieved high response rates of 91% (95% CI, 70.8%-98.9%) and 100% (95%CI, 83.2%-100%), respectively

• Prolonged lymphocytosis during treatment does not indicate a suboptimal PFS (**Figure 5**)

reported (Table 3-4, Figure 6)

 Table 3. Safety Summary

Event, n (%)	N=91
Any AE	91 (100)
Grade ≥3 AE	76 (83.5)
Serious AE	47 (51.6)
AEs leading to death ^a	6 (6.6)
AEs leading to treatment discontinuation	14 (15.4)
AE leading to dose interruption	42 (46.2)
AE leading to dose reduction	8 (8.8)



Table 4. Adverse Events of Special Interest^a

Event, n (%)	All Grade N=91	Grade ≥3 N=91
Anemia	36 (39.6)	10 (11.0)
Hemorrhage	66 (72.5)	1 (1.1)
Major hemorrhage	2 (2.2)	1 (1.1)
Hypertension	11 (12.1)	3 (3.3)
Infections	81 (89.0)	42 (46.2)
Neutropenia	71 (78.0)	46 (50.5)
Second primary malignancies ^b	5 (5.5)	5 (5.5)
Thrombocytopenia	48 (52.7)	15 (16.5)
AESI, adverse events of special interest. AESIs were summarized based on predefined categories and corresponding search o	riteria.	

• After 34 months of follow-up, safety data are consistent with those previously

Figure 6. Most Common (≥20%) Treatment Emergent Adverse Events

CONCLUSIONS

- Results with longer follow-up continue to show a deeper response in more patients, including those patients with prolonged lymphocytosis at a data cutoff with a median of 15-month follow-up
- Deep and durable responses were achieved in all patient subgroups, including patients with high-risk cytogenetics
- ORRs of 100% were achieved in patients with del(11q) and 91% in patients with del(17p) and/or TP53 mutation
- Data support the tolerability of long-term zanubrutinib treatment in R/R CLL/SLL, with no new safety signals identified
- Two-thirds of patients were still benefiting from continuous zanubrutinib treatment at time of data cutoff

REFERENCES

1. Tam CS, et al. *Blood*. 2017;129:2224-2232 2. Xu W, et al. *J Hematol* Oncol. 2020;13:48

DISCLOSURES

WX, SY, KZ, LP, ZL, JZ, SG, DZ, JH, RF, HH, TW and JL have nothing **MJ** is an employee of and has equity ownership from BeiGene

HG is an employee of and has equity ownership from BeiGene **JH** is an employee of, has a leadership role, equity ownership, patents and has received travel expenses from BeiGene WN is an employee of and has equity ownership from BeiGene **SF** is an employee of and has patents with BeiGene and has equity ownership with BeiGene, Amgen, Nektar, Illumina, Annexon, Hutchison China MediTech

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VIRTUAL

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Second primary malignancies were reported in 5 patients (2 gastric adenocarcinoma; 1 each of colon cancer, breast cancer, and rectal cancer).