











XXXVIII Congreso Nacional SETH 38th World Congress of the International Society of Hematology (ISH)



BARCELONA

6 - 8 | OCT | 2022

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SEQUOIA: Results of a Phase 3 Randomized Study of Zanubrutinib Versus Bendamustine + Rituximab in Patients With Treatment-Naive CLL/SLL

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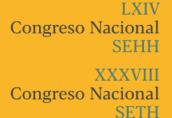












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Disclosures for Eva Gonzalez Barca

Consultancy for Janssen, AbbVie, Gilead, Kiowa, EUSAPharma, Incyte, Lilly, BeiGene, Novartis; Speaker for Janssen, AbbVie, Takeda, Roche, EUSAPharma, Incyte; Travel support from Janssen, AbbVie, Roche, EUSAPharma













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Introduction

- Treatment of CLL/SLL has been transformed with the advent of effective inhibitors of B-cell receptor signaling, such as the BTK inhibitors ibrutinib and acalabrutinib
- Zanubrutinib (BGB-3111) is a highly selective next-generation BTK inhibitor designed to maximize BTK occupancy and minimize off-target effects^{1,2}
- Efficacy and safety of zanubrutinib has been recently demonstrated in two large randomized studies in Waldenström macroglobulinemia and relapsed/refractory CLL/SLL, with lower rates of atrial fibrillation when compared with ibrutinib^{3,4}
- Preliminary data showing high response rates with zanubrutinib in untreated patients with the high-risk genomic abnormality del(17p) have been recently published^{5,6}













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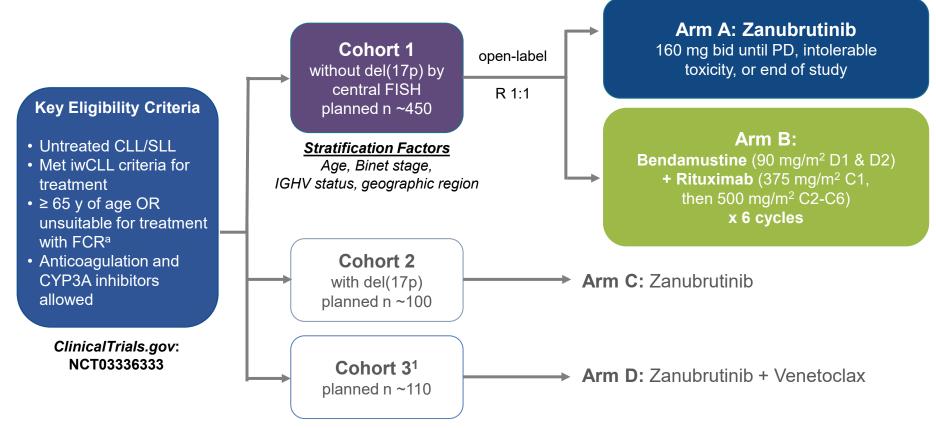


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SEQUOIA (BGB-3111-304) Study Design



^aDefined as Cumulative Illness Rating Scale > 6, creatinine clearance < 70 mL/min, or history of previous severe infection or multiple infections within the last 2 yrs. bid, twice daily; C, cycle; CLL/SLL, chronic lymphocytic leukemia/small lymphocytic lymphoma; CYP3A, cytochrome P450, family 3, subfamily A; D, day; del(17p), chromosome 17p deletion; FCR, fludarabine, cyclophosphamide, and rituximab; FISH, fluorescence in-situ hybridization; *IGHV*, gene encoding the immunoglobulin heavy chain variable region; iwCLL, International Workshop on CLL; PD, progressive disease; R, randomized.

1. Tedeschi A, et al. ASH 2021. Abstract 67.













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Endpoints and Analyses for Cohort 1

Primary Endpoint

PFS by IRC assessment^a

Select Secondary Endpoints

- PFS by investigator assessment^a
- Overall response rate per IRC and investigator assessments^a
- Overall survival
- Safety

Analyses

- One prespecified interim analysis was planned at approximately 86 events
- Efficacy analyses were intention-to-treat













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Patient Disposition^a

479 eligible patients without del(17p) were randomized

241 randomized to zanubrutinib 238 randomized to bendamustine + rituximab and were included in the efficacy analysis and were included in the efficacy analysis median follow-up: 26.4 months (IQR 24.2–29.5) median follow-up: 25.9 months (IQR 23.4-29.6) 1 did not receive study treatment 11 did not receive study treatment 240 received treatment and included in safety analysis 227 received treatment and included in safety analysis 39 Discontinued treatment 34 Discontinued treatment Disease progression 11 Disease progression 31 Adverse events 20 Adverse events 3 Investigator discretion 1 Investigator discretion 1 Withdrawal by patient 2 Withdrawal by patient 3 Otherb 188 completed regimen 206 are receiving zanubrutinib at data cutoff 15 crossed over to receive zanubrutinib after centrally confirmed disease progression

17 patients were enrolled across 9 sites in Spain













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Select Baseline Patient and Disease Characteristics

	Arm A Zanubrutinib	Arm B BR
	(n = 241)	(n = 238)
Age, median (IQR), years	70 (66–75)	70 (66–74)
Age ≥ 65, n (%)	196 (81.3)	192 (80.7)
Male, n (%)	154 (63.9)	144 (60.5)
ECOG PS 2, n (%)	15 (6.2)	20 (8.4)
Geographic region, n (%)		
North America	34 (14.1)	28 (11.8)
Europe	174 (72.2)	172 (72.3)
Asia/Pacific	33 (13.7)	38 (16.0)
Binet stage C, ^a n (%)	70 (29.0)	70 (29.4)
Bulky disease ≥ 5 cm, n (%)	69 (28.6)	73 (30.7)
Cytopenia at baseline, ^b n (%)	102 (42.3)	109 (45.8)
Unmutated <i>IGHV</i> gene, n/N (%)	125/234 (53.4)	121/231 (52.4)
del(11q), n (%)	43 (17.8)	46 (19.3)
TP53 mutation, n/N (%)	15/232 (6.5)	13/223 (5.8)













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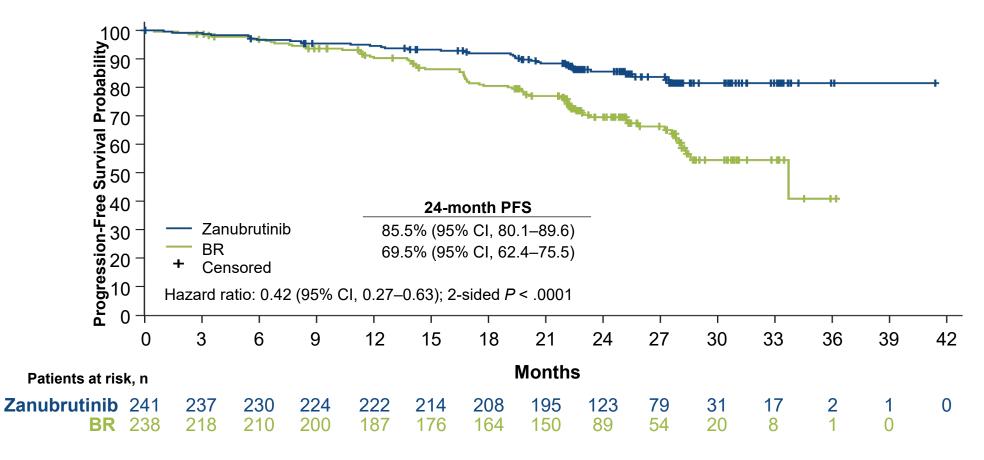


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PFS Per IRC Assessment (median follow-up 26 mo)















Event/Patient

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PFS Per IRC Assessment by Key Patient Subgroups

	Evenural	ICIIL		
Subgroup	Zanubrutinib	BR		Hazard Ratio (95% CI), % ^a
All Patients	36/241	71/238	-	0.42 (0.28–0.63)
Age (years) < 65 ≥ 65	6/45 30/196	19/46 52/192	—	0.25 (0.10–0.62) 0.47 (0.30–0.74)
Sex Male Female	24/154 12/87	47/144 24/94		0.39 (0.24–0.64) 0.45 (0.23–0.91)
Binet stage A or B C	24/171 12/70	52/168 19/70		0.39 (0.24–0.64) 0.48 (0.23–1.00)
ECOG PS 0 ≥ 1	12/110 24/131	24/101 47/137	——	0.39 (0.19–0.78) 0.43 (0.26–0.71)
Bulky disease, LDi < 5 cm ≥ 5 cm	21/172 15/69	44/165 27/73	—	0.37 (0.22–0.63) 0.52 (0.27–0.97)
IGHV mutational status Mutated Unmutated	18/109 15/125	25/110 45/121	—• —	0.67 (0.36–1.22) 0.24 (0.13–0.43)
Cytopenias at baseline ^b Yes No	21/102 15/139	34/109 37/129	—	0.55 (0.32–0.95) 0.31 (0.17–0.57)
Chromosome 11q deletion Yes No	7/43 29/198	22/46 49/192	—	0.21 (0.09–0.50) 0.50 (0.32–0.80)
			0	1 2 3

^aHazard ratios were calculated using a stratified Cox regression model; ^bDefined as having anemia (hemoglobin ≤ 110 g/L) or thrombocytopenia (platelets ≤ 100×10⁹/L) or neutropenia (absolute neutrophil count ≤ 1.5×10⁹/L).

BR, bendamustine + rituximab; CI, confidence interval; ECOG PS, Eastern Cooperative Oncology Group performance status; *IGHV*, gene encoding the immunoglobulin heavy chain variable region; IRC, independent review committee; LDi, longest diameter; PFS, progression-free survival.













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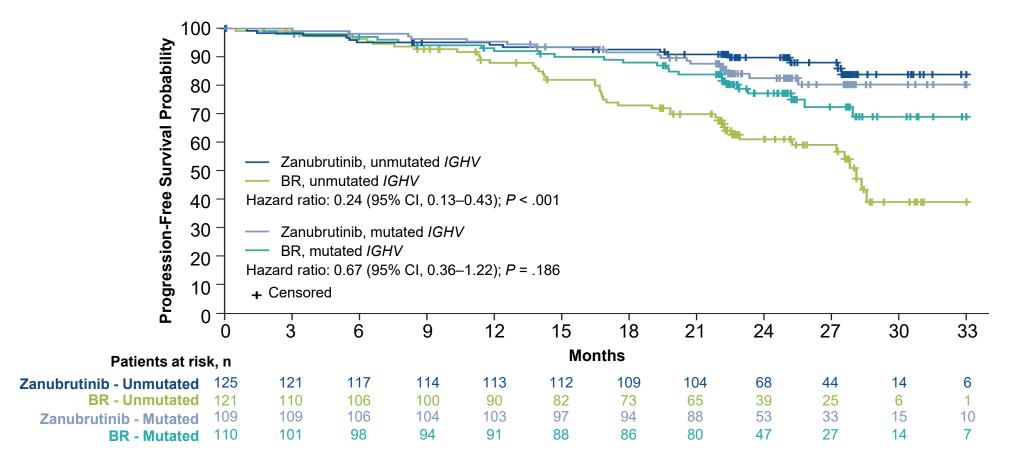


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PFS Per IRC Assessment by IGHV Status















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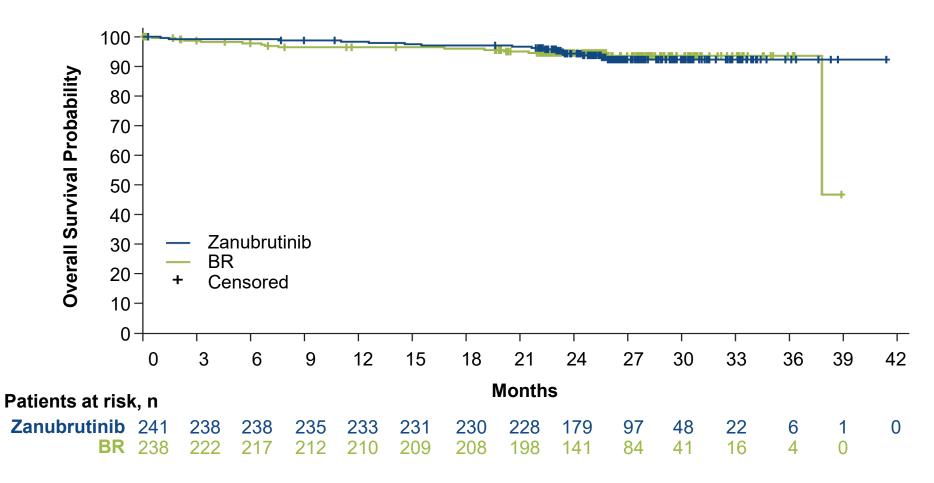


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Overall Survival















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AE Summary

	<u>Arm A</u>	Arm B
	Zanubrutinib	BR
	$(n = 240^a)$	$(n = 227^a)$
Any AE, n (%)	224 (93.3)	218 (96.0)
Grade ≥ 3 AE, n (%)	126 (52.5)	181 (79.7)
Serious AE, n (%)	88 (36.7)	113 (49.8)
Fatal AE, n (%)	11 (4.6)	11 (4.8)
AE leading to dose reduction, n (%)	18 (7.5)	84 (37.4)
AE leading to dose interruption/delay, n (%)	111 (46.3)	154 (67.8)
AE leading to discontinuation, n (%)	20 (8.3)	31 (13.7)

• AEs were recorded until disease progression to support safety evaluation over an equivalent time period













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Common AEs (≥ 12% of Patients in Any Arm)

	<u>Arm A</u> Zanubrutinib (n = 240ª)		Arm B BR		
			(n = 227 ^a)		
AE, n (%)	Any Grade	Grade ≥ 3	Any Grade	Grade ≥ 3	
Contusion	46 (19.2)	0 (0.0)	8 (3.5)	0 (0.0)	
Upper respiratory tract infection	41 (17.1)	2 (0.8)	27 (11.9)	2 (0.9)	
Neutropenia ^b	37 (15.4)	27 (11.3)	129 (56.8)	116 (51.1)	
Diarrhea	33 (13.8)	0 (0.0)	30 (13.2)	4 (1.8)	
Arthralgia	32 (13.3)	2 (0.8)	20 (8.8)	1 (0.4)	
Fatigue	28 (11.7)	3 (1.3)	36 (15.9)	2 (0.9)	
Rash	26 (10.8)	0 (0.0)	44 (19.4)	6 (2.6)	
Constipation	24 (10.0)	1 (0.4)	43 (18.9)	0 (0.0)	
Nausea	24 (10.0)	0 (0.0)	74 (32.6)	3 (1.3)	
Pyrexia	17 (7.1)	0 (0.0)	60 (26.4)	8 (3.5)	
Vomiting	17 (7.1)	0 (0.0)	33 (14.5)	3 (1.3)	
Anemia	11 (4.6)	1 (0.4)	43 (18.9)	4 (1.8)	
Thrombocytopenia	9 (3.8)	4 (1.7)	31 (13.7)	16 (7.0)	
Infusion-related reaction	1 (0.4) ^c	0 (0.0)	43 (18.9)	6 (2.6)	













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AEs of Interest

	Zanub	<u>Arm A</u> Zanubrutinib (n = 240 ^a)		<u>Arm B</u> BR (n = 227 ^a)	
AE, n (%)	Any Grade	Grade ≥ 3	Any Grade	Grade ≥ 3	
Anemia	11 (4.6)	1 (0.4)	44 (19.4)	4 (1.8)	
Neutropenia ^b	38 (15.8)	28 (11.7)	129 (56.8)	116 (51.1)	
Thrombocytopenia ^c	11 (4.6)	5 (2.1)	40 (17.6)	18 (7.9)	
Arthralgia	32 (13.3)	2 (0.8)	20 (8.8)	1 (0.4)	
Atrial fibrillation	8 (3.3)	1 (0.4)	6 (2.6)	3 (1.3)	
Bleeding ^a	108 (45.0)	9 (3.8)	25 (11.0)	4 (1.8)	
Major bleeding ^e	12 (5.0)	9 (3.8)	4 (1.8)	4 (1.8)	
Diarrhea	33 (13.8)	2 (0.8)	31 (13.7)	5 (2.2)	
Hypertension ^f	34 (14.2)	15 (6.3)	24 (10.6)	11 (4.8)	
Infections ⁹	149 (62.1)	39 (16.3)	127 (55.9)	43 (18.9)	
Myalgia	9 (3.8)	0 (0.0)	3 (1.3)	0 (0.0)	
Other cancers	31 (12.9)	17 (7.1)	20 (8.8)	7 (3.1)	
Dermatologic other cancers	16 (6.7)	2 (0.8)	10 (4.4)	2 (0.9)	

^aSafety was assessed in patients who received ≥ 1 dose of treatment; 1 patient in Arm A and 11 patients in Arm B did not receive treatment;

bNeutropenia, neutrophil count decreased, or febrile neutropenia; cThrombocytopenia or platelet count decreased; dPooled term of all-cause bleeding including bruising, petechiae, purpura, and contusion; Major bleeding included all Grade ≥ 3, serious, and any-grade central nervous system hemorrhage; Hypertension, blood pressure increased, or hypertensive crisis; All infection terms pooled. AE, adverse event; BR, bendamustine + rituximab.













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Conclusions

- Zanubrutinib demonstrated superiority in progression-free survival over BR (hazard ratio: 0.42, 2-sided P < .0001) as assessed by independent review
- Superiority was also observed across high-risk subgroups, such as patients with unmutated IGHV and del(11q)
- Consistent with other zanubrutinib studies, zanubrutinib appeared well tolerated with no new safety signals identified; the rate of atrial fibrillation was low
- These data demonstrate that chemotherapy-free treatment using the potent and selective BTK inhibitor, zanubrutinib, is safe and effective for patients with treatment-naive CLL/SLL













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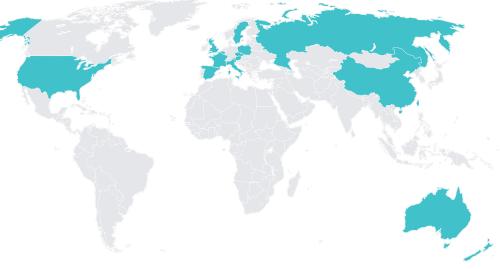
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