A PHASE 1 STUDY WITH THE NOVEL B-CELL LYMPHOMA 2 INHIBITOR SONROTOCLAX (BGB-11417) AS MONOTHERAPY OR IN COMBINATION WITH ZANUBRUTINIB IN PATIENTS WITH CLL/SLL: PRELIMINARY DATA

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Disclosures for Dr. Ghia

Consultant for AbbVie, AstraZeneca, ArQule/MDS, BeiGene, Celgene/Juno/BMS, Janssen, and Roche; honoraria from AbbVie, AstraZeneca, ArQule/MDS, BeiGene, Celgene/Juno/BMS, Janssen, and Roche; research funding from AbbVie, AstraZeneca, Janssen, Gilead, and Sunesis

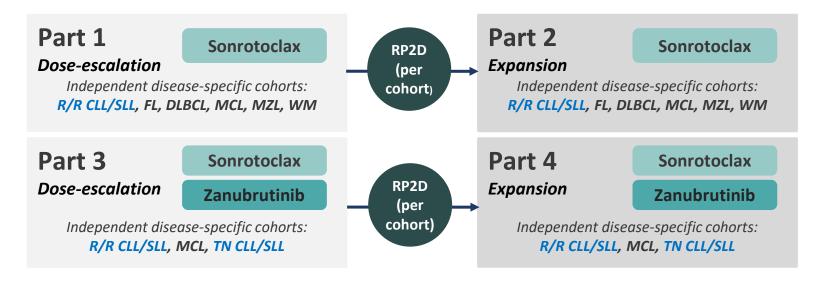


Introduction

- BCL2 inhibition is an established mechanism for treating B-cell malignancies such as CLL/SLL¹⁻²
- Sonrotoclax (BGB-11417) has shown more potent and selective BCL2 inhibition and better activity against BCL2 mutations than venetoclax in vitro²
- The combination of BCL2 and BTK inhibitors has potent activity in CLL and MCL³⁻⁶
- Ibrutinib with venetoclax has shown efficacy as a first-line treatment in a phase 3 trial in patients with CLL/SLL; however, toxicities can limit use⁷
 - A more tolerable BTK inhibitor + BCL2 inhibitor combination is needed
- Zanubrutinib has demonstrated superior efficacy and safety, especially cardiovascular, in a head-to-head study vs ibrutinib in patients with R/R CLL⁸
- Here, we present the preliminary data from a phase 1 study with sonrotoclax as monotherapy or combination with zanubrutinib in patients with CLL/SLL

Study Design

- BGB-11417-101 is a first-in-human, phase 1, open-label, multicenter, dose escalation and expansion study in patients with B-cell malignancies (NCT04277637)
- Blue: CLL/SLL cohort data focused on in this presentation





Dosing and Dose Escalation

DOSF LEVEL 2

80 mg

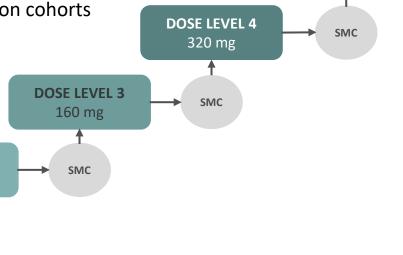
SMC

- Sonrotoclax was dosed QD ≤30 minutes after a low-fat meal
- For combination therapy, zanubrutinib (160 mg BID or 320 mg QD) started 8-12 weeks (depending on tumor burden) before starting sonrotoclax
- Five potential planned dose levels for all dose-escalation cohorts

DOSE LEVEL 1

40 mg

Starting target dose level for a cohort may be >40 mg if established as safe in other cohorts per SMC^a



DOSE LEVEL 5

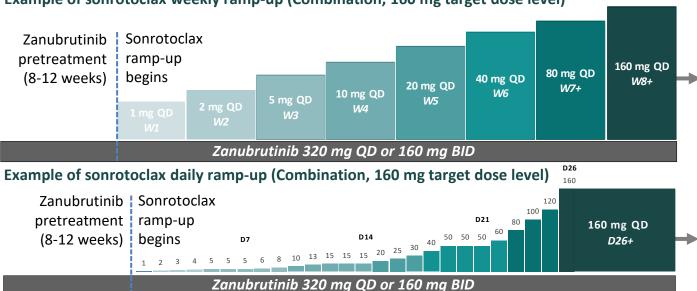
640 mg





Dose Ramp-up Schedules

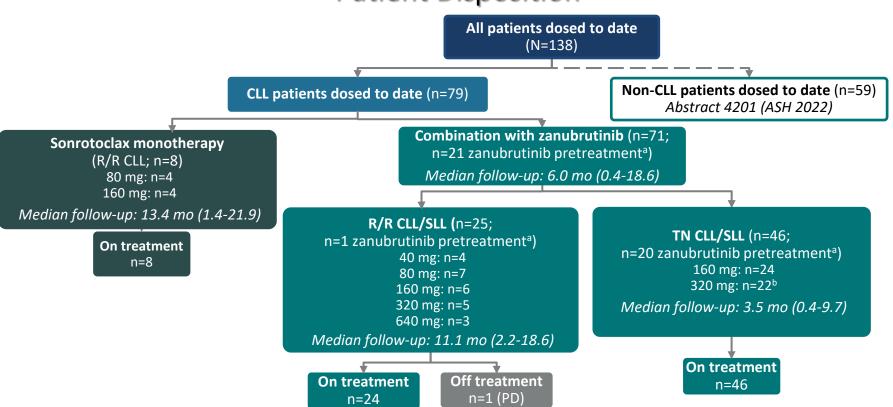




- TLS prophylaxis included hydration and started 24-48 hours prior to first dose
- Allopurinol started 2-3 days prior to first dose and rasburicase started as indicated
- Hospitalization for observation was initially required for each new ramp-up dose level for first 3 dose levels,
 but the requirement has been removed per SMC



Patient Disposition



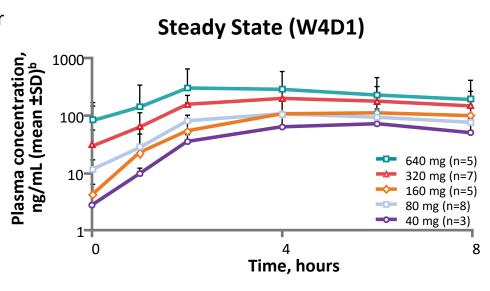
Patient Characteristics

	Sonrotoclax monotherapy	Sonrotoclax + zanubrutinib	All patients
Characteristic	(n=8)	(n=71)	(N=79)
Median age, (range), years	68.5 (55-84)	61 (35-84)	62 (35-84)
Sex, n (%)			
Male	6 (75)	56 (78.9)	62 (78.5)
Female	2 (25)	15 (21.1)	17 (21.5)
ECOG PS, n (%)			
0	3 (37.5)	49 (69)	52 (65.8)
1	5 (62.5)	21 (29.6)	26 (32.9)
2	0	1 (1.4)	1 (1.3)
Disease type, n (%)			
CLL	(100)	70 (99)	78 (99)
SLL	0	1 (1)	1 (1)
R/R, n (%)	8 (100)	25 (35.2)	33 (41.8)
No. of prior lines of therapy, median (range)	2 (1-3)	1 (1-2)	1 (1-3)
Time from end of most recent systemic therapy			
to first dose, median (range), months	0.4 (0.0-10.2)	57.0 (1.6-194.4)	45.4 (0.0-194.4)
TN, n (%)	0	46 (64.8)	46 (58.2)
Risk status, n (%)			
del(17p)	2 (25)	11 (15.5)	13 (16.5)
TP53 ^{mut}	3 (37.5)	15 (21.1)	18 (22.8)



Steady State Pharmacokinetics^a

- Preliminary steady state PK data from patients with NHL or CLL who received sonrotoclax monotherapy at 40-640 mg target doses QD for 3 weeks
 - Dose-dependent PK from 40-640 mg
 - Fast absorption (median T_{max} ~4 hours)
 - Short half-life (median $T_{1/2} \sim 5$ hours)
 - No significant accumulation at steady state
 - Similar PK with and without zanubrutinib (data not shown)





Summary of AEs and DLTs

- Only 1 DLT of febrile neutropenia noted among patients with CLL with sonrotoclax monotherapy at 80 mg; no DLTs were observed to date with the combination therapy at any dose level
- Toxicity does not seem dose dependent
- These AEs are consistent with sonrotoclax NHL data, which tested through 640 mg with no MTD reached

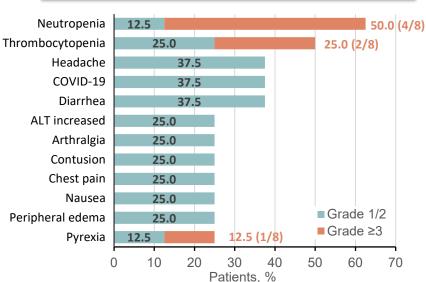
TEAE, n (%)	Sonrotoclax monotherapy (n=8)	Sonrotoclax + zanubrutinib (n=71)	All patients (N=79)
Any AEs	8 (100)	61 (86)	69 (87)
Grade ≥3	5 (63)	20 (28)	25 (32)
Serious AEs	2 (25)	7 (10)	9 (11)
Leading to death	0	0	0
Treated with sonrotoclax	8	50	58
Leading to hold of sonrotoclax	5 (62.5)	14 (28)	19 (33)
Leading to dose reduction of sonrotoclax	0	1 (2)	1 (2)
Leading to discontinuation of sonrotoclax	0	0	0



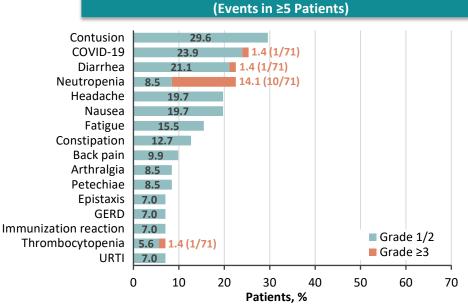


Most Frequent AEs





Sonrotoclax + Zanubrutinib, n=71^{a,b} (Events in ≥5 Patients)





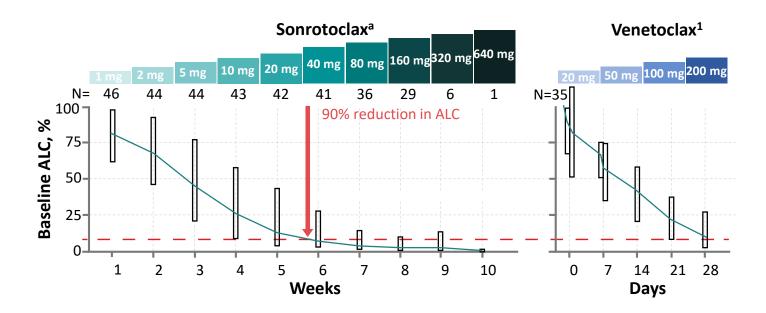
Selected TEAEs

- **TLS:** No clinical TLS and only 1 lab TLS observed
 - Patient with lab TLS had high tumor burden receiving monotherapy with weekly ramp-up
 - The pre-dose urate was elevated; the phosphate level rose post-dose
 - No TLS was observed with daily ramp-up (TN combination at 320 mg; n=3)
- **GI toxicity:** Diarrhea was mostly grade 1
 - Monotherapy grade ≥2: 12.5%; combination grade ≥2: 5.6%; and grade 3: n=1
- **Neutropenia:**
 - G-CSF use^b: monotherapy 4/8 (50%) patients; combination 10/71 (14.1%) patients
 - Only 3/78 (3.8%) patients used more than 1 course of G-CSF to treat neutropenia



Reduction in ALC

ALC dropped by ~90% after weekly ramp-up to 40 mg (sonrotoclax 40 mg ≈ venetoclax 200 mg [1:5])





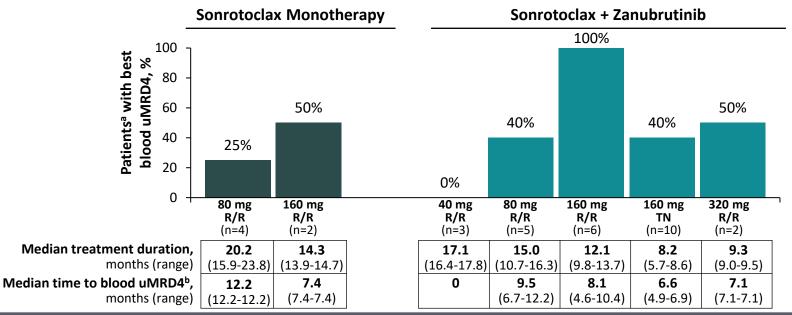
Overall Response Rate

	R/R sonrotoclax (n=8)	R/R sonrotoclax + zanubrutinib (n=25)	TN sonrotoclax + zanubrutinib (n=46)
Treated with sonrotoclax, n	8	24	26
Efficacy evaluable, n	6	20 ^a	11 ^a
ORR, n (%)	4 (67)	19 (95)	11 (100)
CR	2 (33) ^b	6 (30) ^c	2 (18) ^d
PR	2 (33) ^e	13 (65) ^f	9 (82) ^g
SD	2 (33)	1 (5)	0
PD	0	0	0
Median follow-up, months (range)	13.4 (1.4-21.9)	11.1 (2.2-18.6)	3.5 (0.4-9.7)



Blood MRD

- Undetectable MRD (uMRD) in peripheral blood was observed at ≥80 mg after 6 months (monotherapy and combination in R/R CLL/SLL)
- uMRD rate increased with longer follow-up and higher dose (160 mg and 320 mg are immature)





Conclusions

- Sonrotoclax, alone or in combination with zanubrutinib, was well tolerated
 - Dose escalation continues to 640 mg with only 1 DLT; MTD was not achieved
 - Grade ≥3 neutropenia and grade ≥2 diarrhea were uncommon and manageable
 - Only 1 laboratory TLS was seen; TLS was mitigated by the prophylactic measures and ramp-up schedule
- Efficacy is seen in monotherapy and in combination with zanubrutinib in R/R and in TN CLL/SLL
- Based on ALC reduction, sonrotoclax may be about 5 times as potent as venetoclax by dose
- MRD data are preliminary but appear promising
- A venetoclax-treated CLL/SLL cohort is recruiting

Acknowledgments

- We would like to thank the investigators, site support staff, and especially the patients for participating in this study
- We would also like to thank Tristin Tang and Binghao Wu (BeiGene) for their work on the PD and PK analyses
- This study was sponsored by BeiGene. Editorial support was provided by Medical Expressions and funded by BeiGene

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