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Combination of Zanubrutinib + Venetoclax in Patients With Treatment-Naive CLL/SLL With del(17p) and/or *TP53*: Preliminary Results from SEQUOIA Arm D

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AbbVie			X		X		
AstraZeneca			X				
BeiGene			X		X		
Janssen			X		X		
Lilly			X				

Introduction

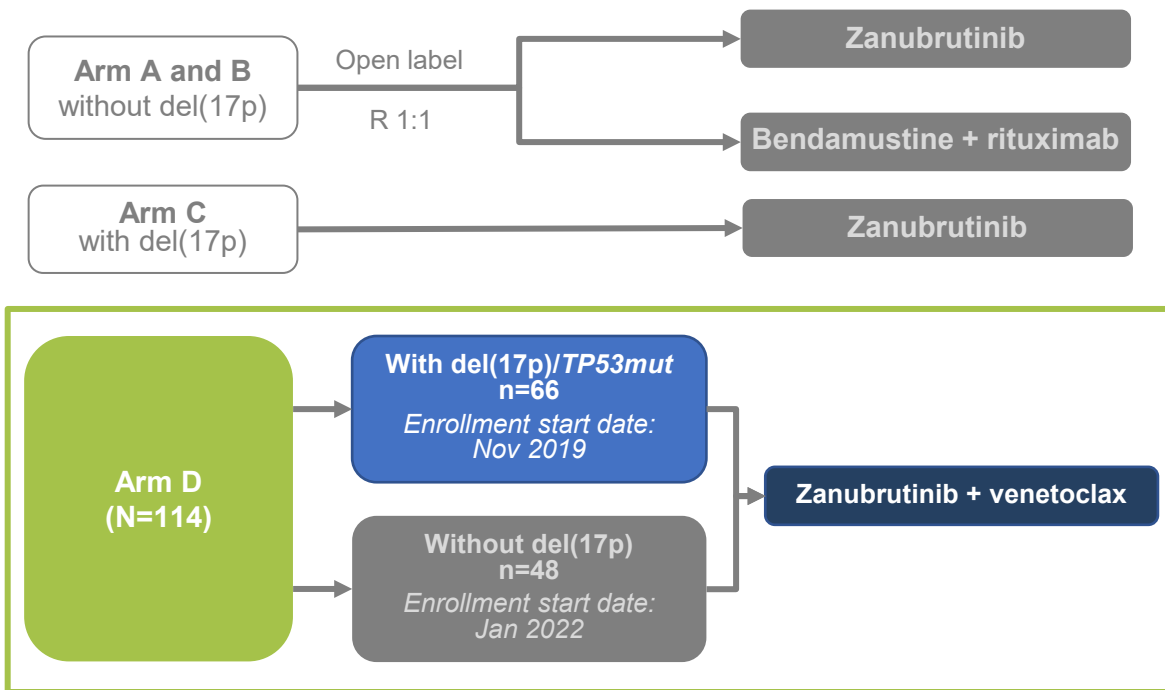
- Zanubrutinib is a highly potent and selective next-generation BTK inhibitor approved in TN and R/R CLL as monotherapy^{1,2} that was designed to provide complete and sustained BTK occupancy, with fewer off-target AEs and improved efficacy compared with other BTK inhibitors^{3,4}
- In Arm C of the phase 3 SEQUOIA trial, zanubrutinib monotherapy was well tolerated and achieved a high ORR (95%) and 18-month PFS estimate (89%) in patients who had untreated CLL/SLL with del(17p)⁵, which were consistent with outcomes in patients without del(17p)⁶
- Monotherapy with venetoclax, the first-generation BCL2 inhibitor, has also been shown to be well tolerated with durable responses achieved in patients with del(17p) and/or *TP53* mutation⁷, but data on venetoclax + ibrutinib combination therapy in this high-risk population has been limited
- Combination therapy with a BCL2 inhibitor in patients with high-risk CLL may provide deep responses and improve outcomes in patients treated with zanubrutinib
- Preliminary results in patients with del(17p) and/or *TP53* mutation who received zanubrutinib + venetoclax combination treatment in Arm D of the SEQUOIA trial are presented

1. Brukinsa. Prescribing information. BeiGene, Ltd; 2024; 2. Brukinsa. Summary of product characteristics. BeiGene, Ltd; 2021; 3. Guo Y, et al. *J Med Chem*. 2019;62(17):7923-7940; 4. Tam CS, et al. *Expert Rev Clin Pharmacol*. 2021;14(11):1329-1344; 5. Tam CS, et al. *Haematologica*. 2021;106(9):2354-2363; 6. Tam CS, et al. *Lancet Oncol*. 2022;23(8):1031-1043; 7. Stilgenbauer S, et al. *J Clin Oncol*. 2018;36(19):1973-1980.

SEQUOIA Study Design – Arm D Cohort With del(17p) and/or *TP53*mut

Key eligibility criteria

- Untreated CLL/SLL
- Met iwCLL criteria for treatment
- Measurable disease by CT/MRI
- For Arm D: central confirmation of del(17p) by FISH and/or local *TP53* mutation



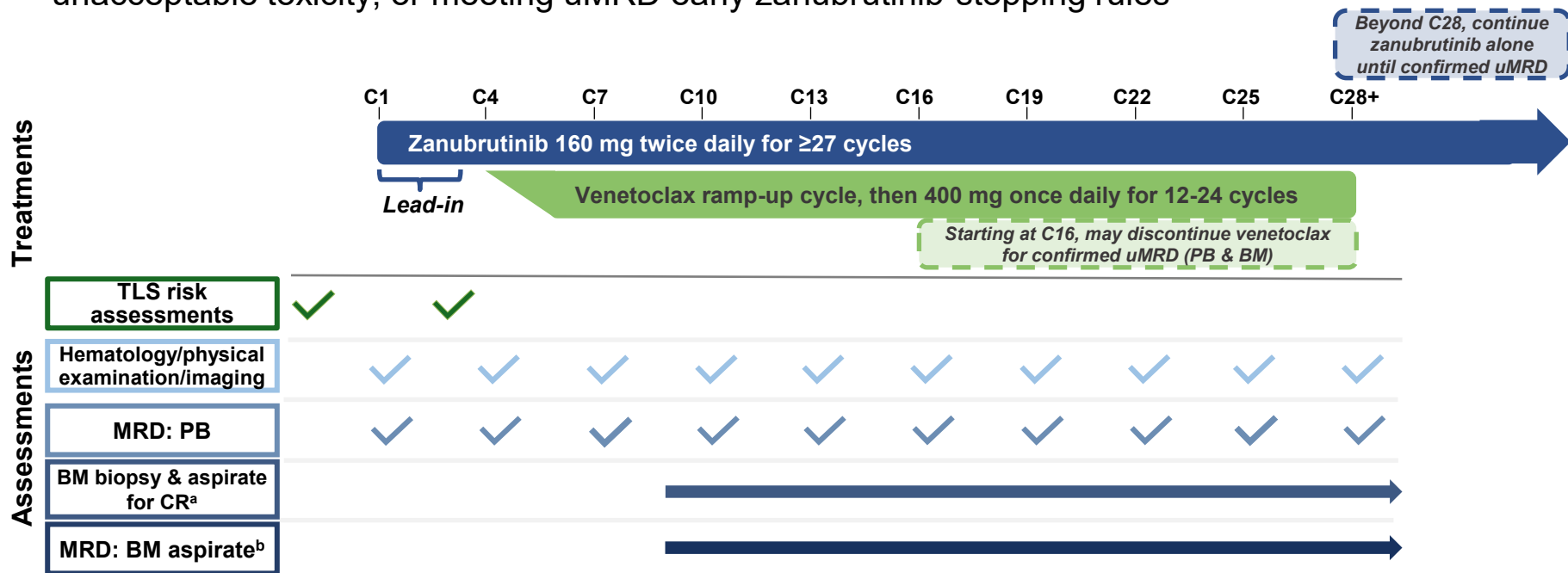
Endpoints for Arm D

- ORR (INV)^a
- PFS (INV)
- uMRD4 rate (<10⁻⁴ sensitivity)
- Safety per CTCAE

^a Responses assessed per modified iwCLL criteria for CLL and Lugano criteria for SLL.

SEQUOIA Arm D Treatment Regimen and Assessment Schedule

- Zanubrutinib lead-in (3 cycles) followed by zanubrutinib + venetoclax (12-24 cycles dependent on uMRD early venetoclax-stopping rules), then zanubrutinib monotherapy until disease progression, unacceptable toxicity, or meeting uMRD early zanubrutinib-stopping rules



^a BM biopsy and aspirate are required to confirm a suspected CR/CRi (BM collection timepoint not defined per protocol), starting after cycle 9 and then annually if needed.

^b Patients with confirmed CR/CRi and 2 consecutive PB uMRD ≥ 12 weeks apart.

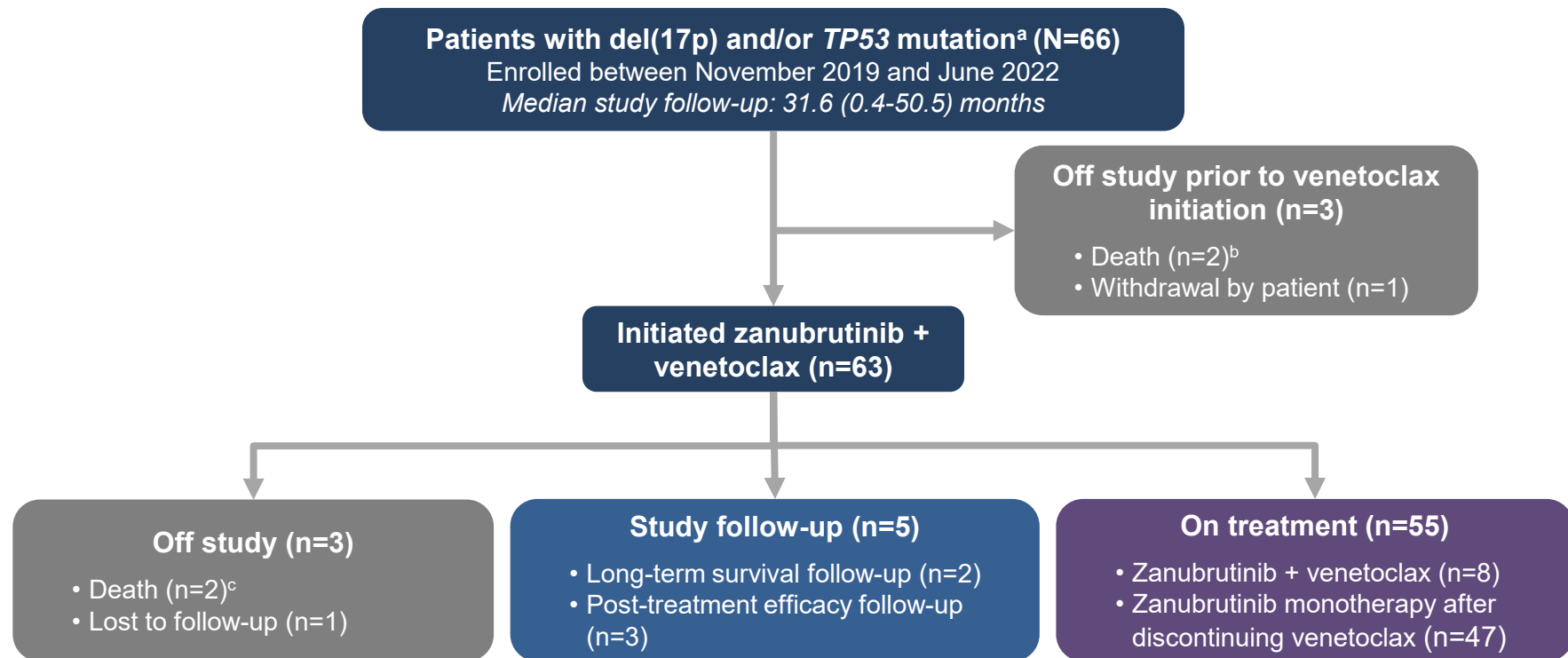
uMRD^a-Guided Early Zanubrutinib- or Venetoclax-Stopping Rules

- Zanubrutinib or venetoclax can be stopped early if all of the following conditions are met:
 - Response assessed as CR/CRi confirmed by a bone marrow biopsy
 - uMRD4 achieved in 2 consecutive peripheral blood MRD tests conducted ≥ 12 weeks apart
 - uMRD4 achieved in 2 consecutive bone marrow aspirate MRD tests conducted ≥ 12 weeks apart
 - Received
 - ≥ 12 cycles of venetoclax (to stop venetoclax early)
 - ≥ 27 cycles of zanubrutinib (to stop zanubrutinib early)

^a uMRD was assessed by flow cytometry.

CRi, complete response with incomplete hematopoietic recovery.

Patient Disposition



Data cutoff: January 31, 2024.

^a Based on central assessment. ^b Due to AE. ^c Due to AE (n=1); due to PD (n=1).

Treatment Discontinuations

Patient, n (%)	Zanubrutinib + venetoclax (n=66)
Enrolled/dosed	66 (100)
Treated with zanubrutinib only	3 (5)
Discontinued from zanubrutinib	11 (17)
AE	5 (8)
PD	2 (3)
Completed treatment (uMRD early stopping)	3 (5)
Withdrawal by patient	1 (2)
Discontinued from venetoclax	55 (83)
Completed treatment	50 (76)
24 cycles per protocol	49 (74)
uMRD early stopping	1 (2)
AE	2 (3)
PD	2 (3)
Investigator decision	1 (2)

SEQUOIA Arm D Included a High-Risk Cohort

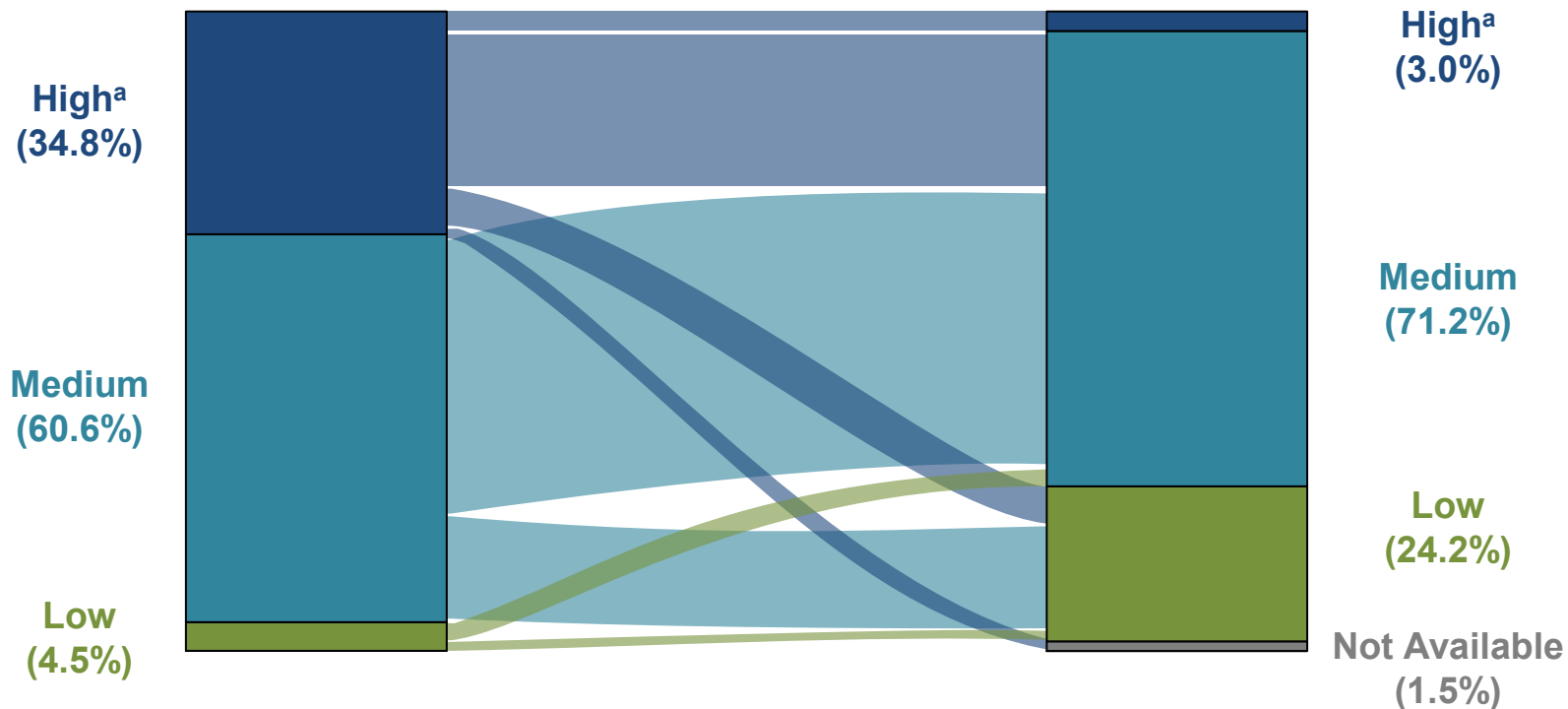
Characteristic	Zanubrutinib + venetoclax (n=66)
Age, median (range), years	66 (26-87)
≥65 years, n (%)	36 (55)
Male sex, n (%)	34 (52)
White race, n (%)	58 (88)
ECOG performance status, n (%)	
1	32 (48)
2	2 (3)
SLL, n (%)	3 (5)
Bulky disease, n (%)	
Any target lesion LD _i ≥5 cm	29 (44)
Any target lesion LD _i ≥10 cm	5 (8)
Genotype status, n (%)	
del(17p) positive and/or TP53 mutated	66 (100)
del(17p) positive and TP53 mutated	42 (64)
del(17p) positive and TP53 wildtype	17 (26)
del(17p) negative and TP53 mutated	7 (11)
Unmutated IGHV	56 (85)
Complex karyotype, n (%)	
≥3 abnormalities	33 (50)
≥5 abnormalities	24 (36)
del(17p) % of abnormal nuclei, median (range)	60.5 (1-98)

LD_i, longest diameter.

Proportion of Patients at High Risk for TLS Decreased by 91% After Zanubrutinib Lead-in

Baseline Before Treatment

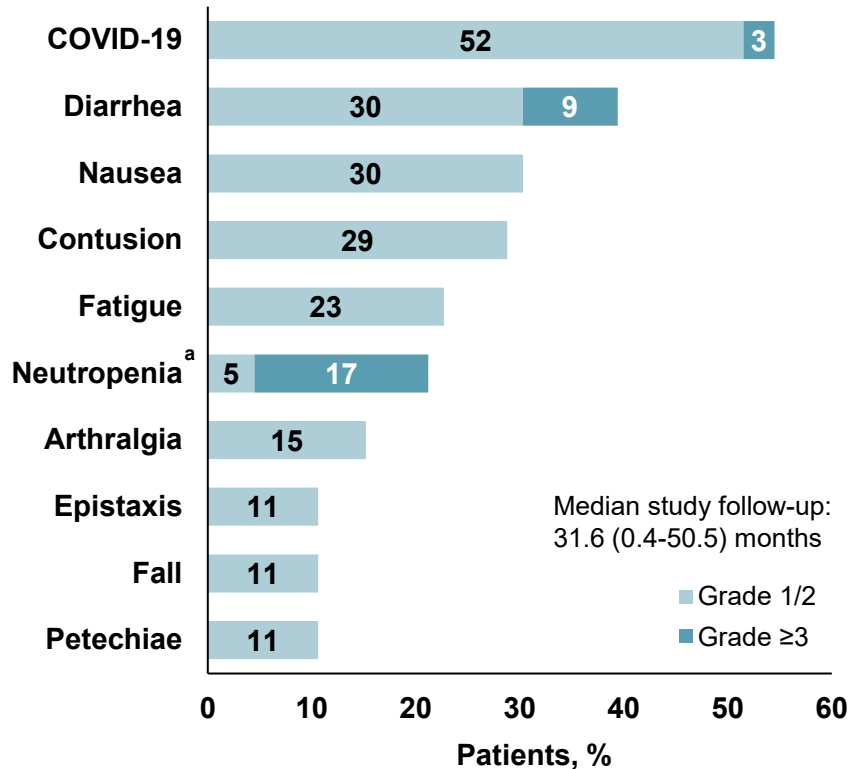
Before Venetoclax



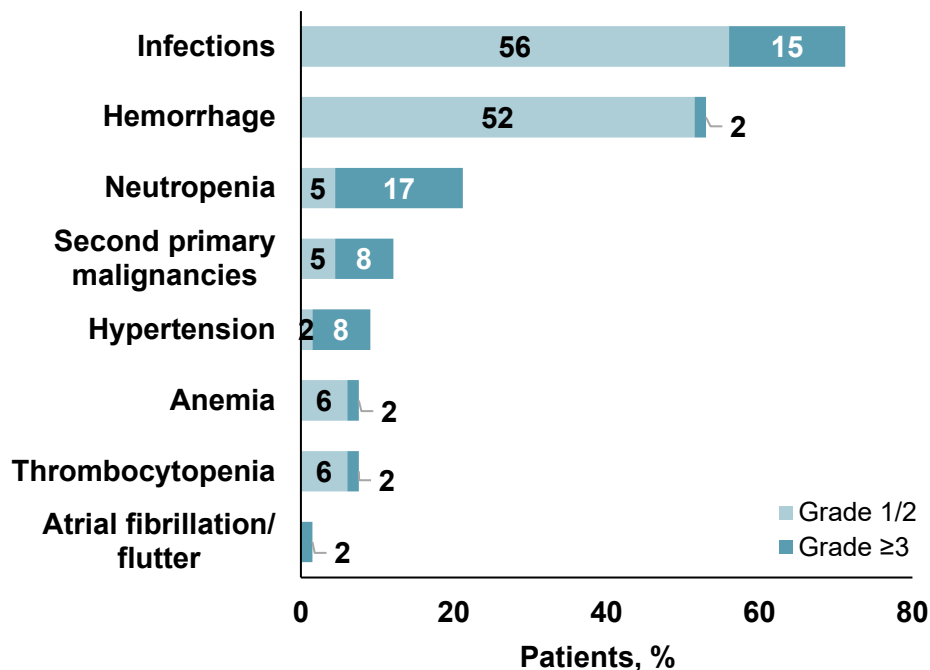
^a Any lymph node with the largest diameter ≥ 10 cm or an absolute lymphocyte count $\geq 25 \times 10^9/L$ and a lymph node with the largest diameter ≥ 5 cm by radiologic assessment.
 TLS, tumor lysis syndrome.

Safety Summary

TEAEs in >10% of patients



Treatment-emergent adverse events of special interest



- Of all infections, 36 patients (55%) had COVID-19, 2 (3%) of whom experienced a grade ≥3 event

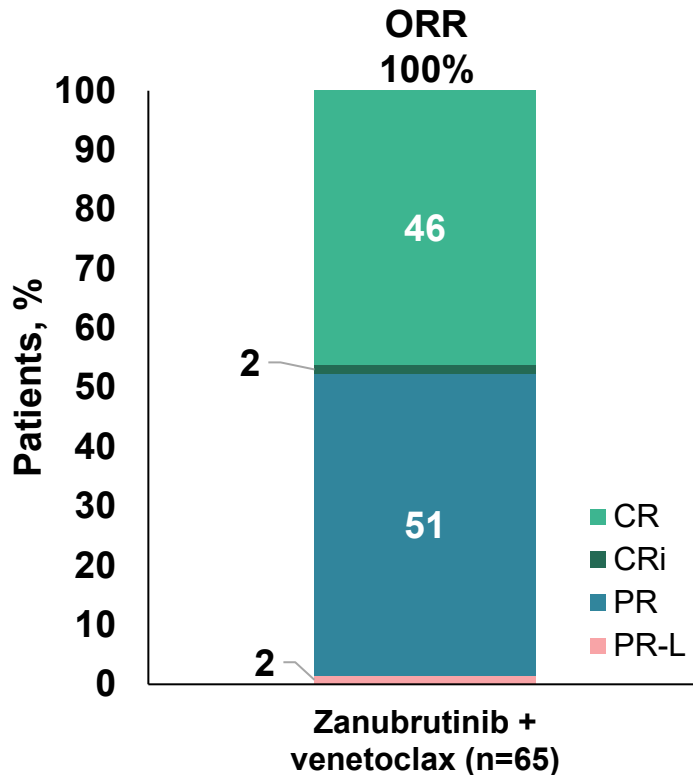
^a Neutropenia combines preferred terms *neutrophil count decreased* and *neutropenia*.

TEAEs Leading to Discontinuation and Death

Patients, n (%)				Zanubrutinib + venetoclax (n=66)
TEAE leading to zanubrutinib discontinuation				5 (8)
TEAE leading to venetoclax discontinuation				2 (3)
TEAE leading to death				3 (5)
Patient	TEAE(s)	Led to zanubrutinib discontinuation	Led to venetoclax discontinuation	Led to death
1	Motor vehicular accident, intra-abdominal hemorrhage, and intracranial hemorrhage	X	X	X
2	Pneumonitis	X	N/A ^a	
3	Lung carcinoma	X	N/A ^b	X
4	Pneumonia	X	X	
5	Pneumonia (<i>S. aureus</i>) Septic shock (<i>S. aureus</i>)	X	N/A ^b	X X

^a Patient completed venetoclax treatment. ^b Patient did not start venetoclax.

In 65 Response-Evaluable Patients^a With del(17p) and/or *TP53* Mutation, ORR^{b,c} was 100% and the CR + CRi rate was 48%

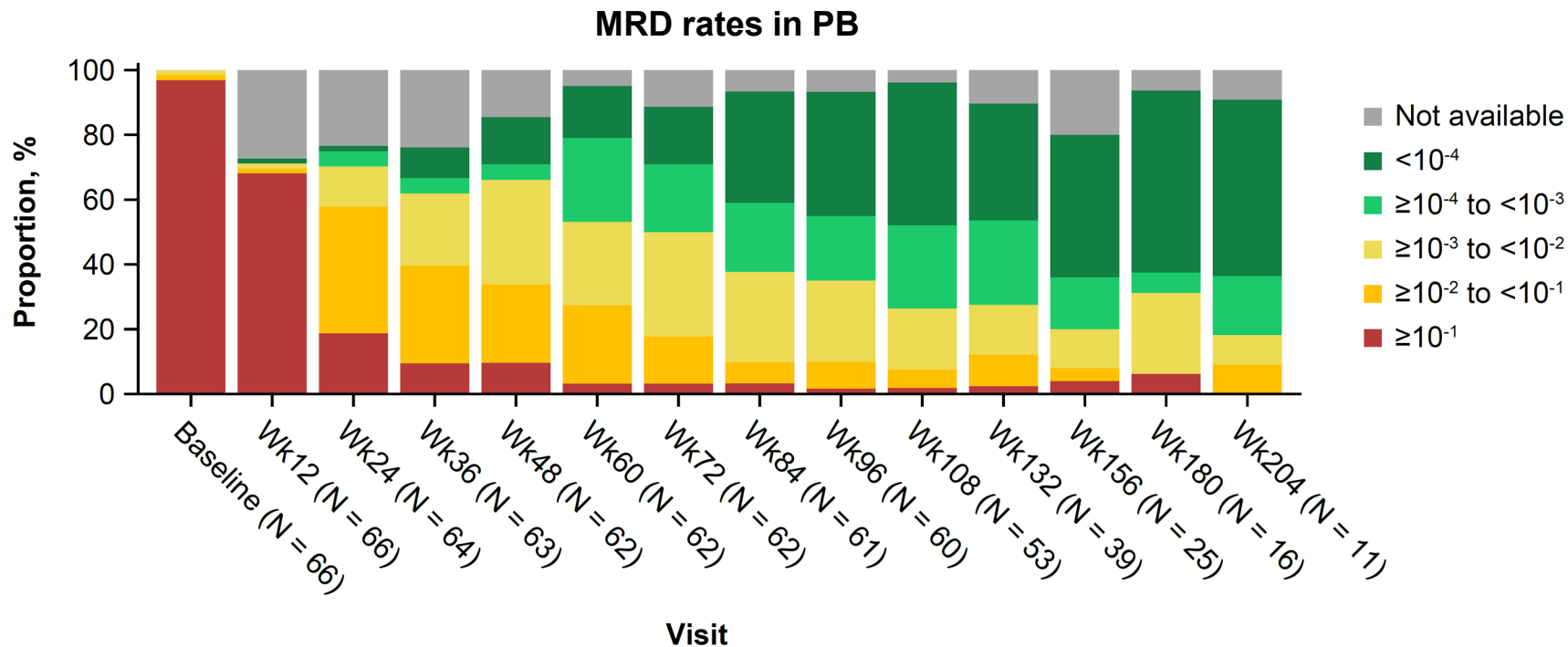


Median study follow-up:
31.6 (0.4-50.5) months

^a Received ≥ 1 dose of zanubrutinib with ≥ 1 post-baseline disease assessment. The 1 patient that was not response-evaluable died during cycle 1. ^b Responses assessed by investigator per modified iwCLL criteria for CLL and Lugano criteria for SLL. ^c ORR was defined as PR-L or better.

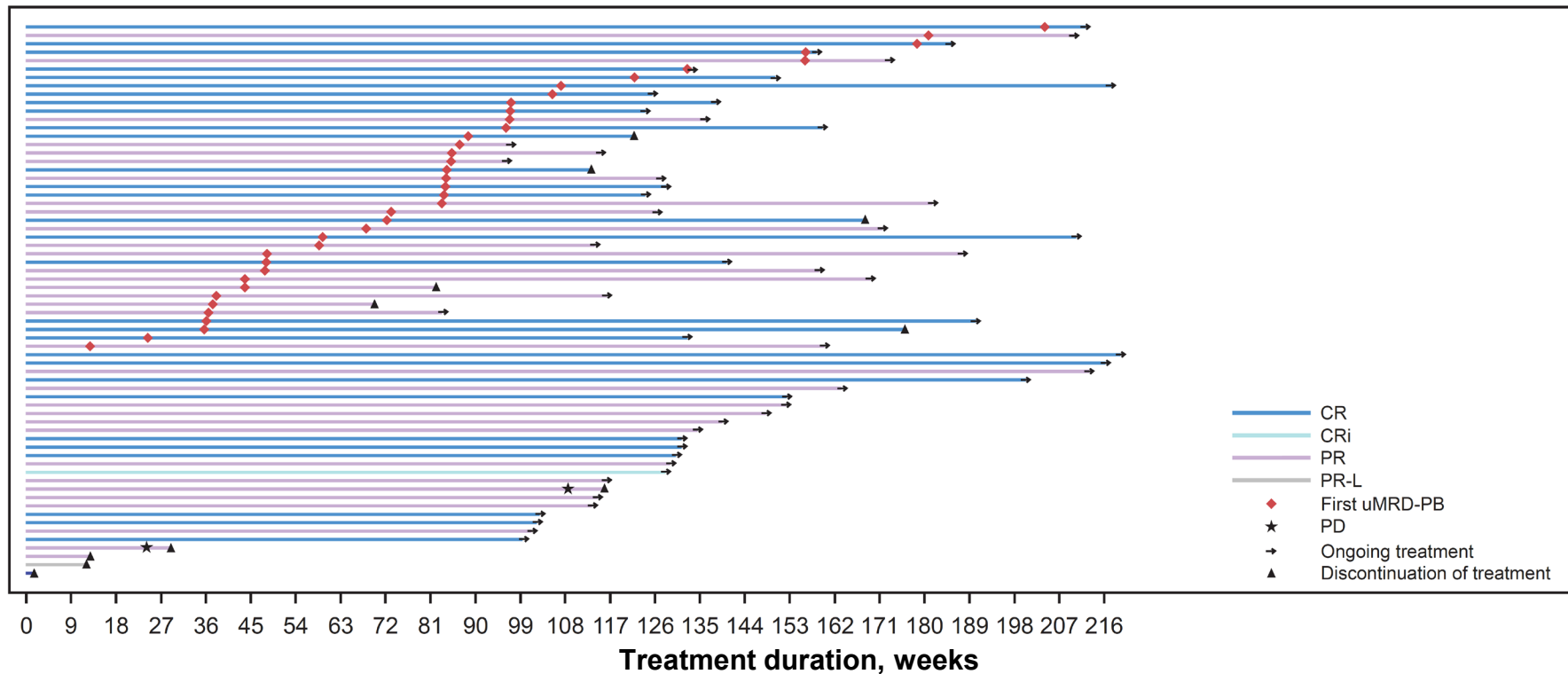
Rates of uMRD in PB Increased With Longer Treatment Duration

- Best uMRD rate: 59% (39/66) in ≥ 1 PB sample; 37% (13/35) in ≥ 1 BM sample^a

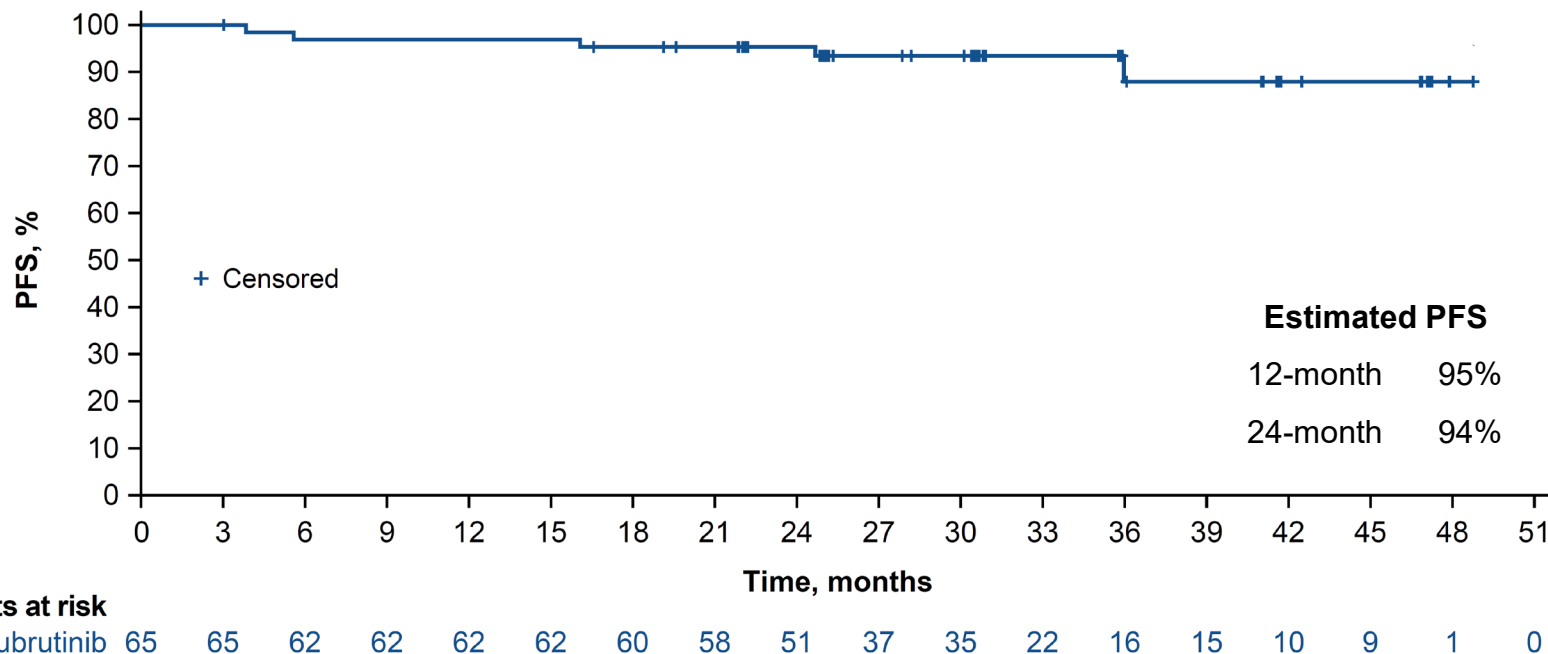


^a BM biopsy and aspirate were required to confirm a suspected CR/CRi and additional BM aspirate uMRD sample collection was dependent on PB uMRD status; BM collection timing varied by patient. On treatment BM aspirate samples have been collected in 35 patients to date.

Treatment Duration With Time to First uMRD



With Median Study Follow-up of 31.6 Months, Median PFS was Not Reached



Conclusions

- Preliminary results for treatment with zanubrutinib + venetoclax in patients with high-risk TN CLL/SLL with del(17p) and/or *TP53* mutation showed favorable safety and tolerability
 - Rates of atrial fibrillation/flutter and hypertension were low (2% and 9%, respectively)
- Promising efficacy was seen in this high-risk population with deep and durable responses
 - An ORR of 100% and a high rate of uMRD were achieved
 - With a median follow-up of 31.6 months, high 12- and 24-month PFS estimates were seen (95% and 94%, respectively)
- The study is ongoing and results in patients who meet MRD-guided early stopping rules will be reported as data mature
- The ongoing phase 3 CELESTIAL-TNCLL trial (BGB-11417-301) is evaluating zanubrutinib in combination with sonrotoclax, a next-generation and potent BCL2 inhibitor, as fixed duration therapy in patients with TN CLL

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