



# 51°

CONGRESSO NAZIONALE SIE  
*Società Italiana di Ematologia*



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

**Alessandra Tedeschi**,<sup>1</sup> Shuo Ma,<sup>2</sup> Talha Munir,<sup>3</sup> Masa Lasica,<sup>4</sup> Mazyar Shadman,<sup>5,6</sup> Emmanuelle Ferrant,<sup>7</sup> Ian W. Flinn,<sup>8</sup> Wojciech Janowski,<sup>9</sup> Monica Tani,<sup>10</sup> Tadeusz Robak,<sup>11</sup> Jennifer R. Brown,<sup>12</sup> Constantine S. Tam,<sup>13</sup> Tian Tian,<sup>14</sup> Emily Mantovani,<sup>14</sup> Stephanie Agresti,<sup>14</sup> Linlin Xu,<sup>14</sup> Aileen Cohen,<sup>14</sup> Wojciech Jurczak,<sup>15</sup> Paolo Ghia<sup>16,17</sup>

<sup>1</sup>ASST Grande Ospedale Metropolitano Niguarda, Milan, Italy; <sup>2</sup>Robert H. Lurie Comprehensive Cancer Center, Northwestern University Feinberg School of Medicine, Chicago, IL, USA; <sup>3</sup>Leeds Teaching Hospitals NHS Trust, Leeds, UK; <sup>4</sup>St Vincent's Hospital Melbourne, Fitzroy, VIC, Australia; <sup>5</sup>Fred Hutchinson Cancer Research Center, Seattle, WA, USA; <sup>6</sup>University of Washington, Seattle, WA, USA; <sup>7</sup>Département Hématologie, CHU de Lyon-Sud, Lyon-Sud, France;

<sup>8</sup>Tennessee Oncology/OneOncology, Nashville, TN, USA; <sup>9</sup>Calvary Mater Newcastle Hospital, Waratah, NSW, Australia; <sup>10</sup>Hematology Unit, Santa Maria delle Croci Hospital, Ravenna, Italy; <sup>11</sup>Medical University of Łódź, Copernicus Memorial Hospital, Łódź, Poland; <sup>12</sup>Dana-Farber Cancer Institute, Boston, MA, USA;

<sup>13</sup>Alfred Hospital and Monash University, Melbourne, VIC, Australia; <sup>14</sup>BeiGene USA, Inc, San Mateo, CA, USA; <sup>15</sup>Maria Skłodowska-Curie National Research Institute of Oncology, Kraków, Poland; <sup>16</sup>IRCCS Ospedale San Raffaele, Milan, Italy; <sup>17</sup>Università Vita-Salute San Raffaele, Milan, Italy

MILANO, 23-25 Settembre 2024

MICO - Milano Convention Centre

## Disclosures of Alessandra Tedeschi

Company name	Research support	Employee	Consultant	Stockholder	Speakers bureau	Advisory board	Other
AbbVie			X			X	
AstraZeneca			X				
BeiGene			X			X	
Janssen			X			X	
Lilly			X				

## Introduction

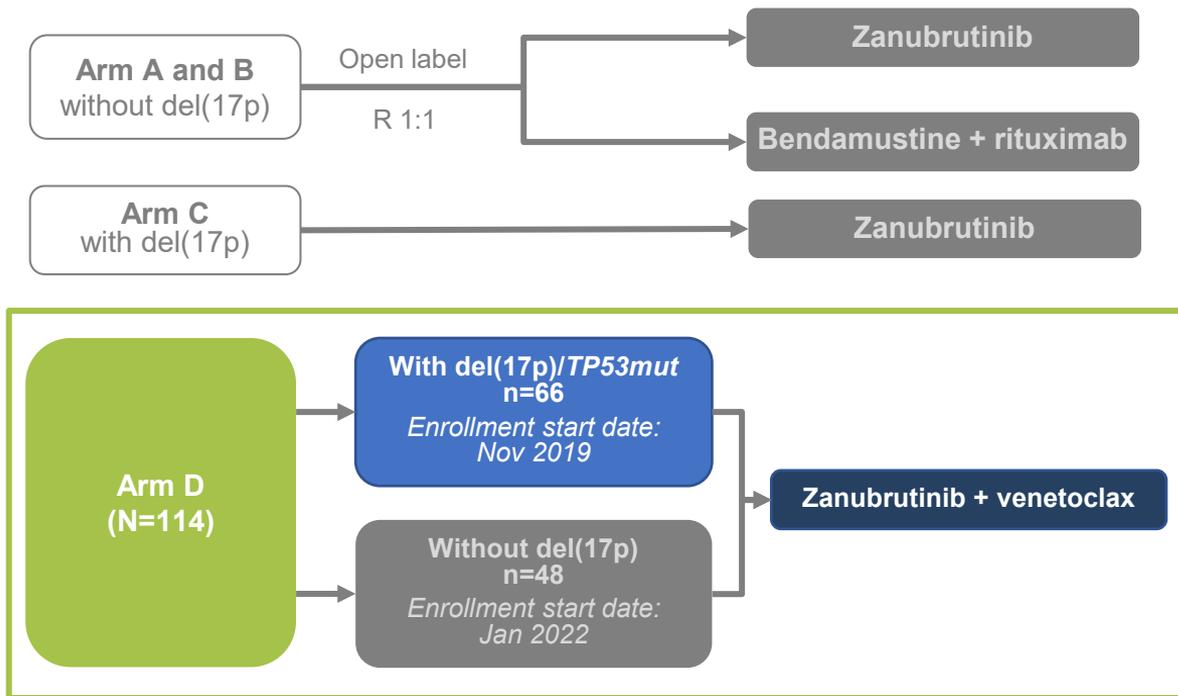
- Zanubrutinib is a highly potent and selective next-generation BTK inhibitor approved in TN and R/R CLL as monotherapy<sup>1,2</sup> that was designed to provide complete and sustained BTK occupancy, with fewer off-target AEs and improved efficacy compared with other BTK inhibitors<sup>3,4</sup>
- In 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)<sup>5</sup>, which were consistent with outcomes in patients without del(17p)<sup>6</sup>
- 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* mutation<sup>7</sup>, 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 TP53mut

## 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



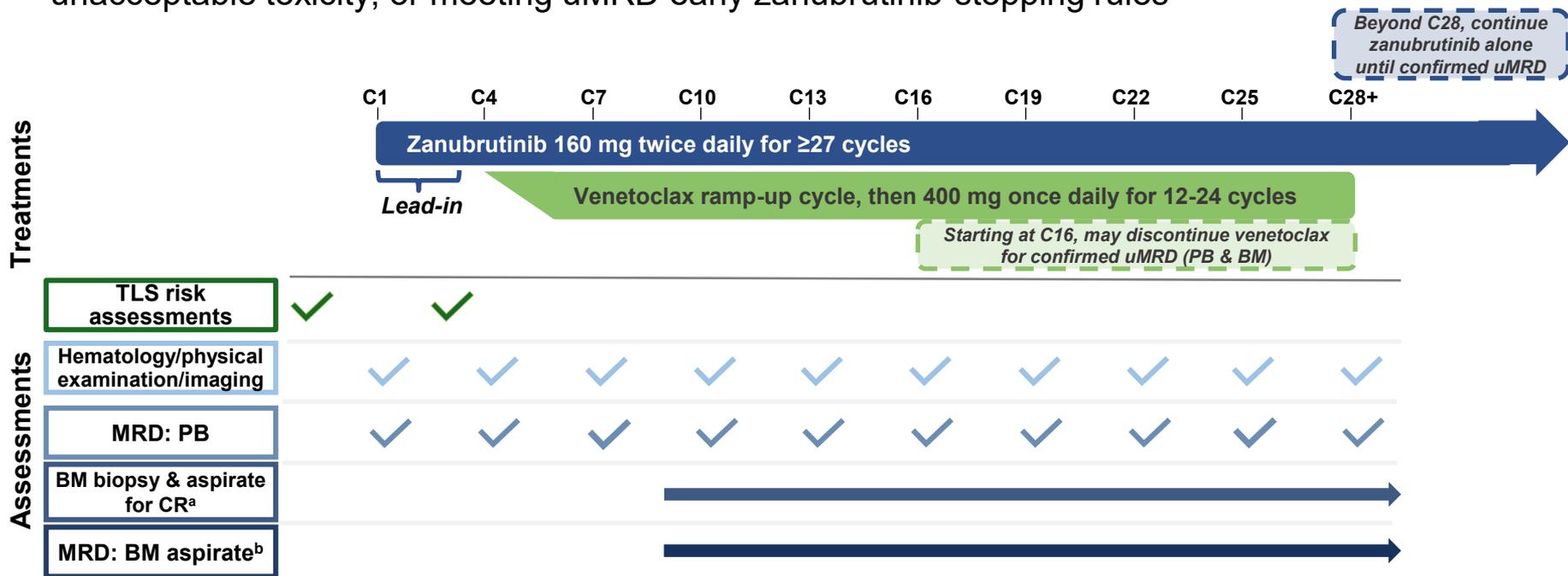
## Endpoints for Arm D

- ORR (INV)<sup>a</sup>
- PFS (INV)
- uMRD4 rate (<10<sup>-4</sup> sensitivity)
- Safety per CTCAE

<sup>a</sup> Reponses 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



<sup>a</sup> 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.

<sup>b</sup> Patients with confirmed CR/CRi and 2 consecutive PB uMRD  $\geq 12$  weeks apart.

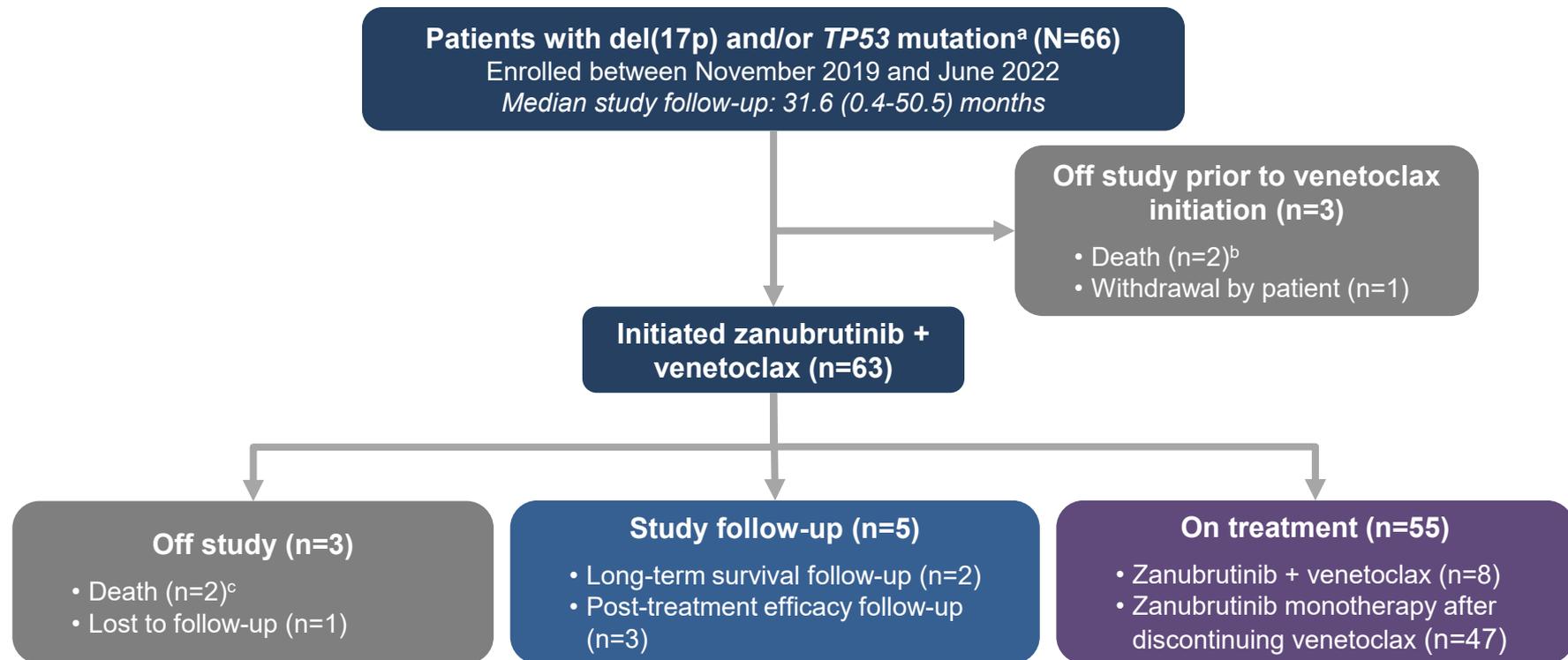
## uMRD<sup>a</sup>-Guided Early Zanubrutinib- or Venetoclax-Stopping Rules

- 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  $\geq 12$  weeks apart
  - uMRD4 achieved in 2 consecutive bone marrow aspirate MRD tests conducted  $\geq 12$  weeks apart
  - Received
    - $\geq 12$  cycles of venetoclax (to stop venetoclax early)
    - $\geq 27$  cycles of zanubrutinib (to stop zanubrutinib early)

<sup>a</sup> uMRD was assessed by flow cytometry.

CRi, complete response with incomplete hematopoietic recovery.

## Patient Disposition



Data cutoff: January 31, 2024.

<sup>a</sup> Based on central assessment. <sup>b</sup> Due to AE. <sup>c</sup> Due to AE (n=1); due to PD (n=1).

# Treatment Discontinuations

Patient, n (%)	Zanubrutinib + venetoclax (n=66)
<b>Enrolled/dosed</b>	66 (100)
<b>Treated with zanubrutinib only</b>	3 (5)
<b>Discontinued from zanubrutinib</b>	11 (17)
AE	5 (8)
PD	2 (3)
Completed treatment (uMRD early stopping)	3 (5)
Withdrawal by patient	1 (2)
<b>Discontinued from venetoclax</b>	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

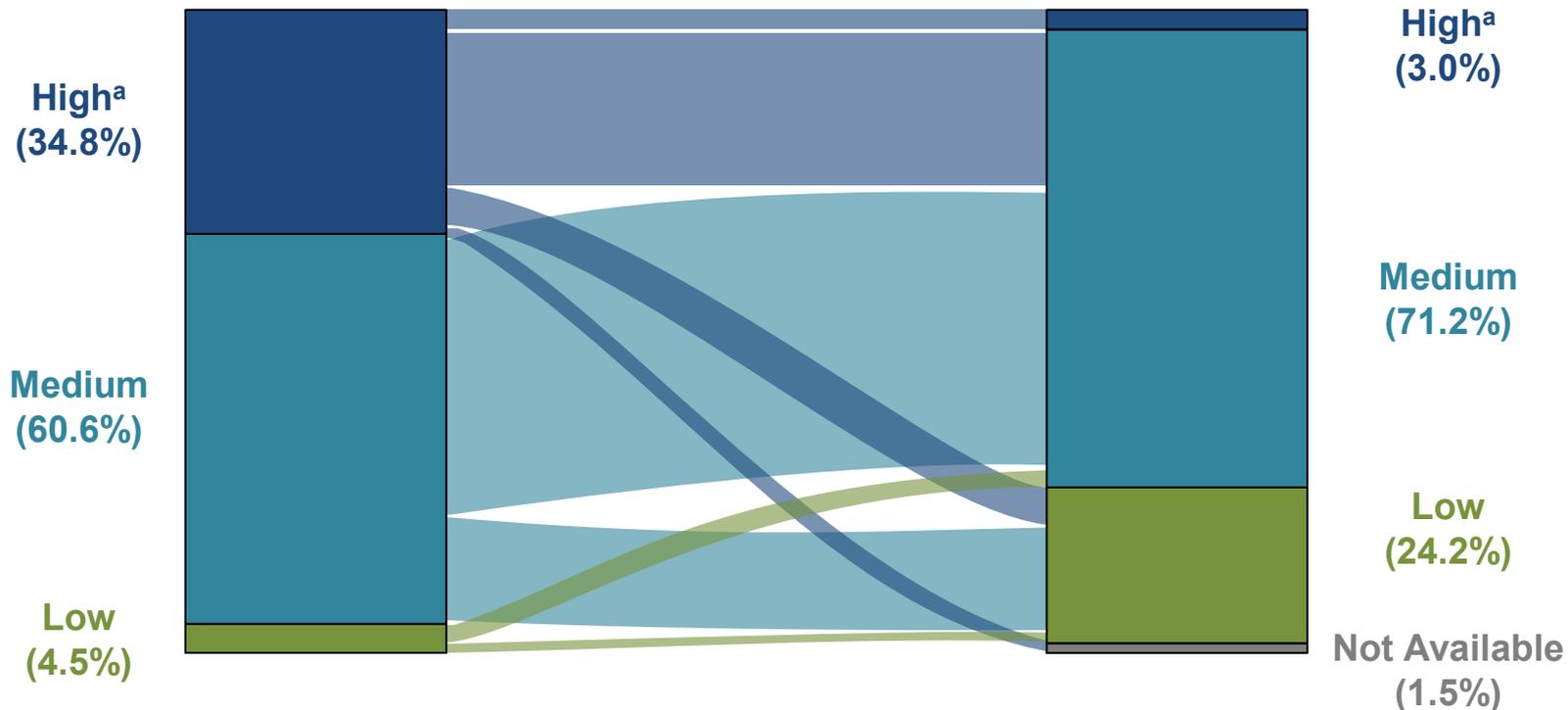
Characteristic	Zanubrutinib + venetoclax (n=66)
<b>Age, median (range), years</b>	66 (26-87)
≥65 years, n (%)	36 (55)
<b>Male sex, n (%)</b>	34 (52)
<b>White race, n (%)</b>	58 (88)
<b>ECOG performance status, n (%)</b>	
1	32 (48)
2	2 (3)
<b>SLL, n (%)</b>	3 (5)
<b>Bulky disease, n (%)</b>	
Any target lesion LDi ≥5 cm	29 (44)
Any target lesion LDi ≥10 cm	5 (8)
<b>Genotype status, n (%)</b>	
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)
<b>Complex karyotype, n (%)</b>	
≥3 abnormalities	33 (50)
≥5 abnormalities	24 (36)
<b>del(17p) % of abnormal nuclei, median (range)</b>	60.5 (1-98)

LDi, longest diameter.

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

Baseline Before Treatment

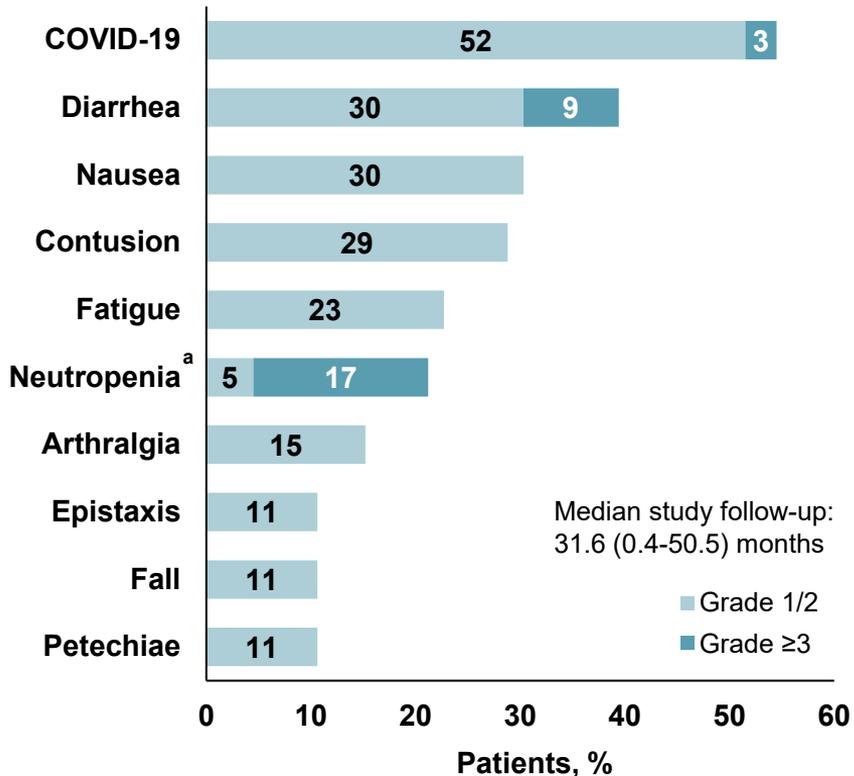
Before Venetoclax



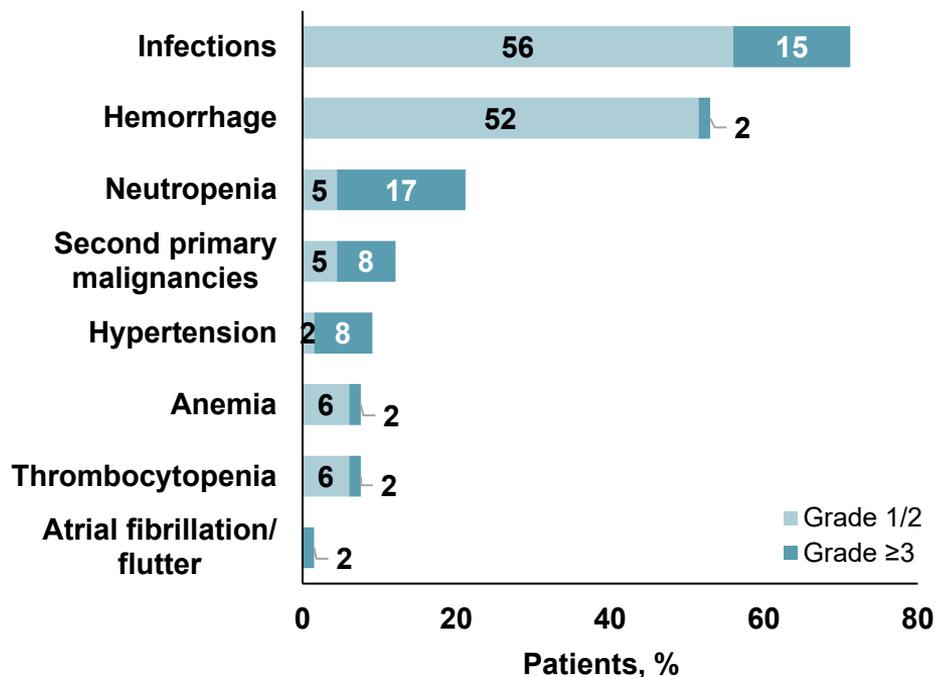
<sup>a</sup> Any lymph node with the largest diameter  $\geq 10$  cm or an absolute lymphocyte count  $\geq 25 \times 10^9/L$  and a lymph node with the largest diameter  $\geq 5$  cm by radiologic assessment. TLS, tumor lysis syndrome.

# 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

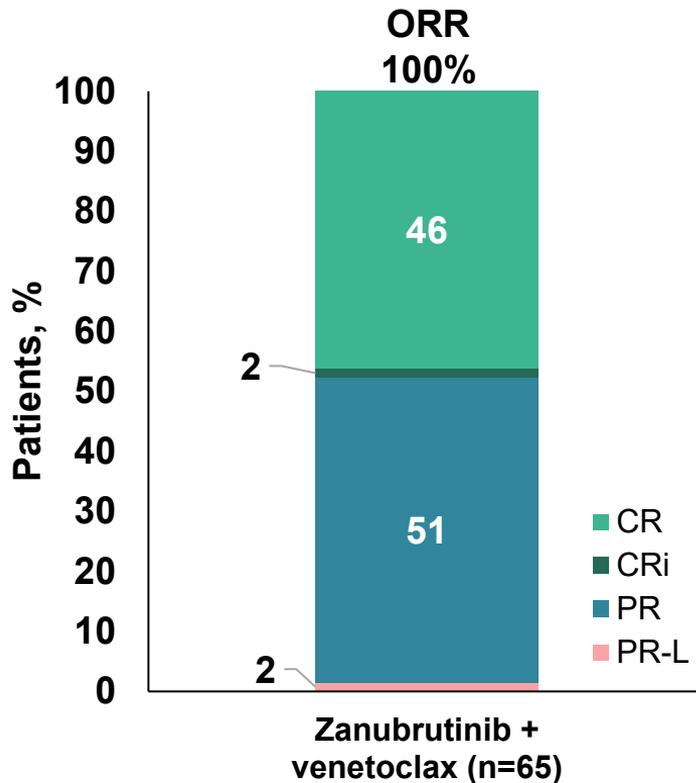
<sup>a</sup> Neutropenia combines preferred terms *neutrophil count decreased* and *neutropenia*.

## 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 <sup>a</sup>	
3	Lung carcinoma	X	N/A <sup>b</sup>	X
4	Pneumonia	X	X	
5	Pneumonia ( <i>S. aureus</i> ) Septic shock ( <i>S. aureus</i> )	X	N/A <sup>b</sup>	X X

<sup>a</sup> Patient completed venetoclax treatment. <sup>b</sup> Patient did not start venetoclax.

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

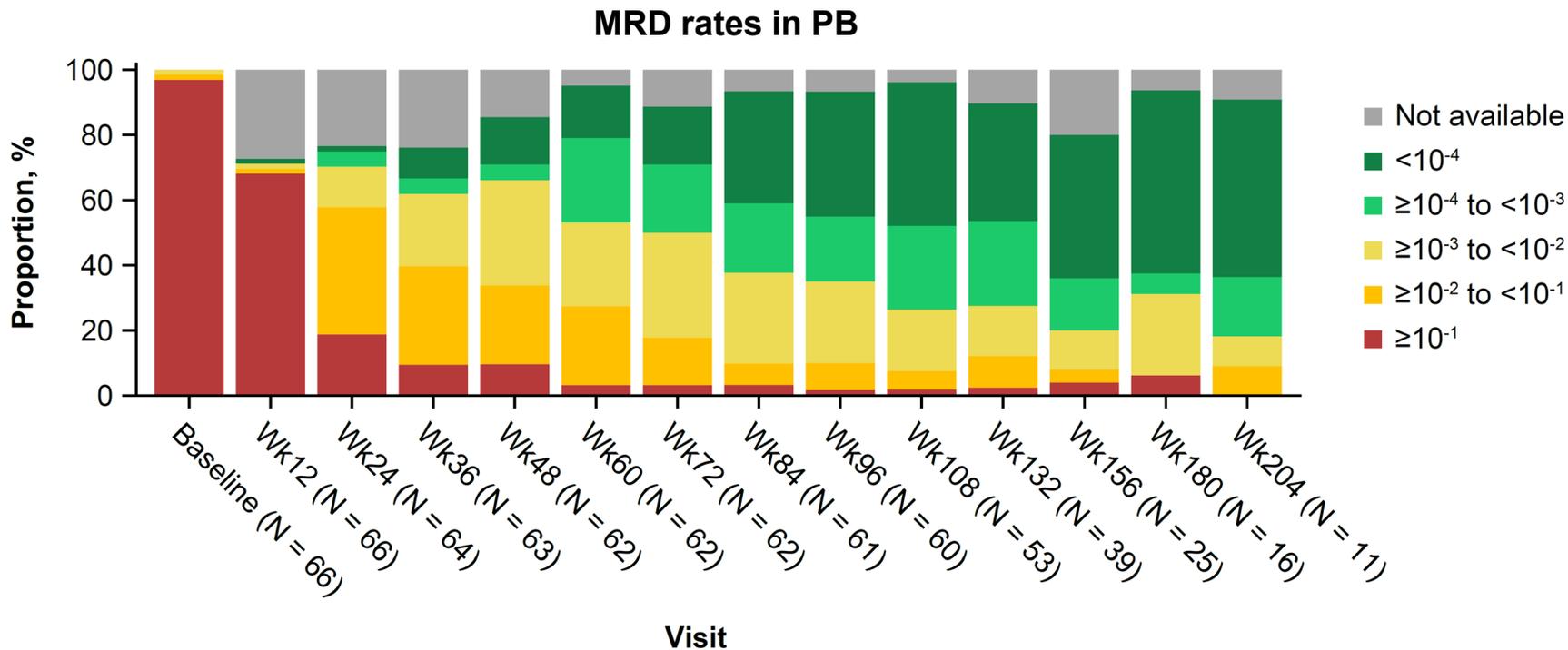


Median study follow-up:  
31.6 (0.4-50.5) months

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

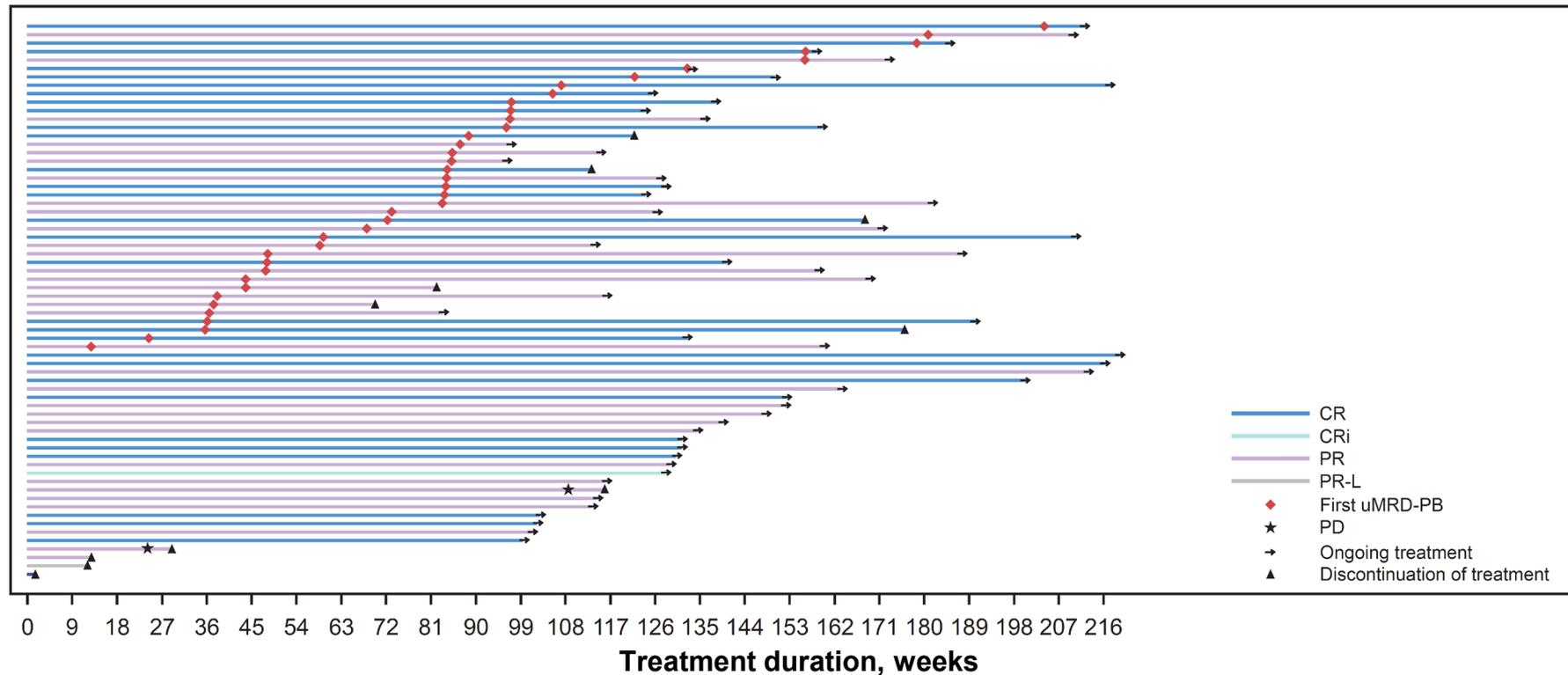
## Rates of uMRD in PB Increased With Longer Treatment Duration

- Best uMRD rate: 59% (39/66) in  $\geq 1$  PB sample; 37% (13/35) in  $\geq 1$  BM sample<sup>a</sup>

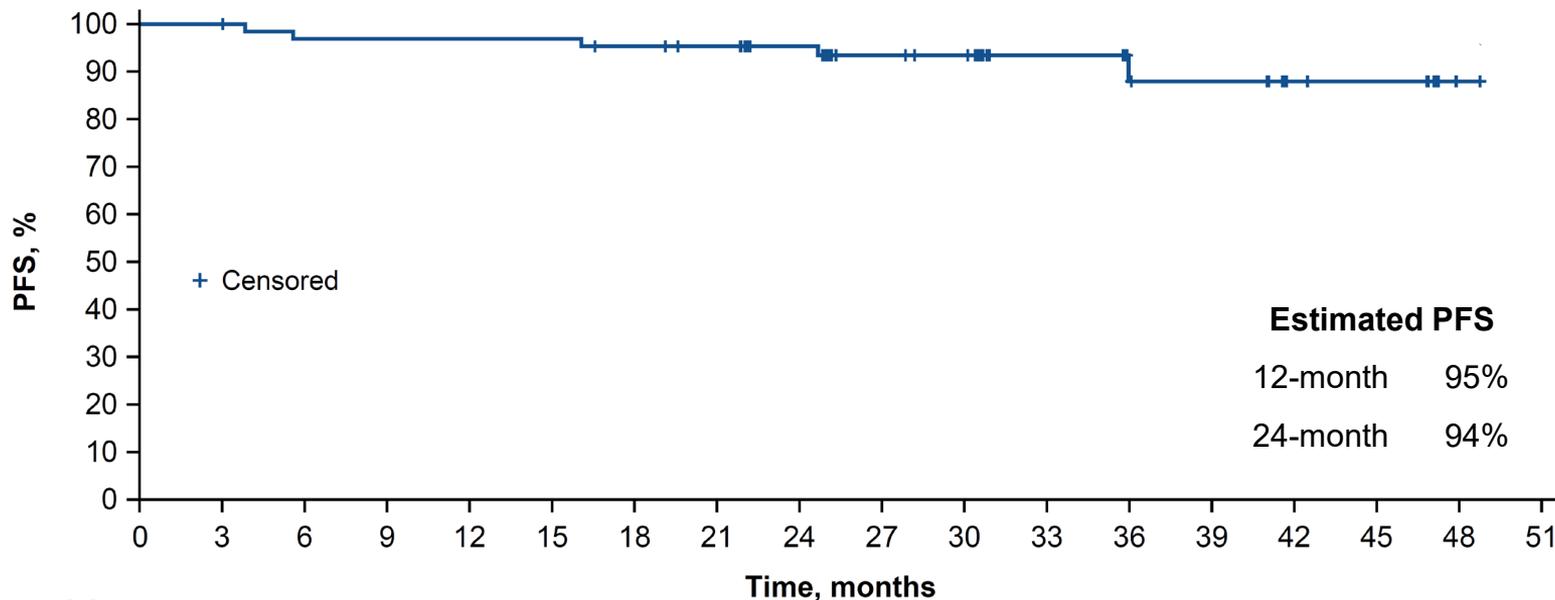


<sup>a</sup>BM biopsy and aspirate were required to confirm a suspected CR/CRi and additional BM aspirate uMRD sample collection was dependent on PB uMRD status; BM collection timing varied by patient. On treatment BM aspirate samples have been collected in 35 patients to date.

# Treatment Duration With Time to First uMRD



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



No. of patients at risk

Zanubrutinib 65 65 62 62 62 62 60 58 51 37 35 22 16 15 10 9 1 0

## 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

## Acknowledgments

- The authors thank the patients and their families, investigators, co-investigators, and the study teams at each of the participating centers
- This study was sponsored by BeiGene, Ltd
- Medical writing support was provided by Brittany Gifford, PharmD, of Nucleus Global, an Inizio company, and supported by BeiGene

**Corresponding Author:** Alessandra Tedeschi, [alessandra.tedeschi@ospedaleniguarda.it](mailto:alessandra.tedeschi@ospedaleniguarda.it)