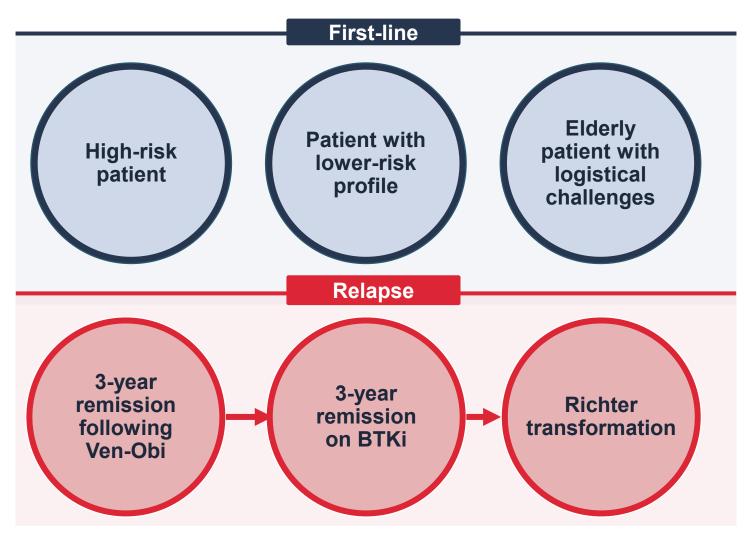
# From trial data to individual patients in CLL

Alessandra Tedeschi Niguarda Cancer Center, Milan, Italy

## **Disclosures**

- Advisory board: AbbVie, AstraZeneca, BeiGene, Johnson & Johnson, Lilly
- Speaker bureau: AbbVie, BeiGene, Johnson & Johnson, Lilly

## Variations on a CLL case: Exploring different clinical scenarios



How would you manage the patient and why?

How would you make your treatment decision?

### Patient scenario 1

## Previously untreated CLL

| Age                     | 70 years  |
|-------------------------|---|
| History<br>with CLL     | Recent CLL diagnosis following a routine examination; experienced increasing fatigue in recent weeks  |
| Patient characteristics | <ul><li>ECOG PS: 0</li><li>No comorbidities and no comedications</li></ul>  |
| Laboratory<br>findings  | <ul> <li>WBC count: 128 × 10<sup>9</sup>/L → 70% lymphocytes</li> <li>Hemoglobin: 9.3 g/dL / 5.8 mmol/L</li> <li>Platelet count: 75 × 10<sup>9</sup>/L</li> </ul> |
| Genetic testing         | <ul><li>Unmutated IGHV</li><li>del(17p)</li><li>TP53 mutated</li></ul>  |

#### **First-line**

How would you manage the patient and why?

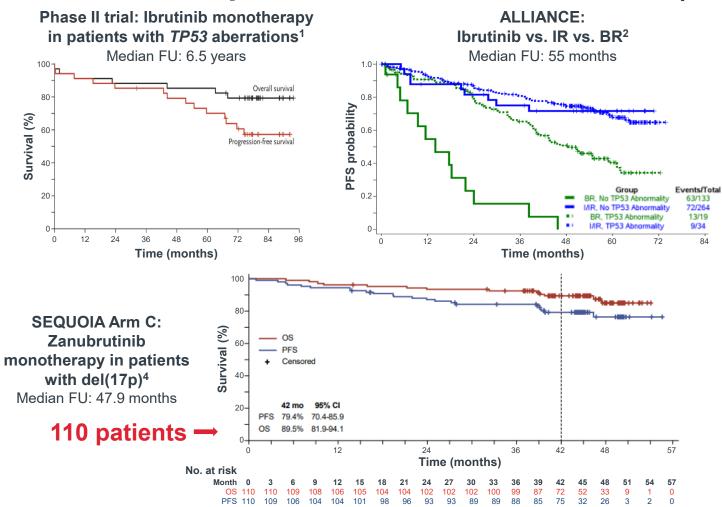
What further information would be helpful to inform clinical decision-making?

## Ask the audience

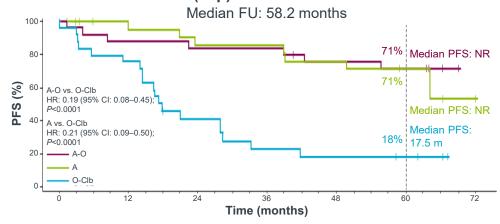
### How would you treat this patient?

- Chemoimmunotherapy
- Venetoclax-obinutuzumab
- Continuous zanubrutinib, acalabrutinib, or ibrutinib
- Acalabrutinib-obinutuzumab
- Ibrutinib-venetoclax
- Other
- Clinical trial with novel agent

## Studies of continuous BTKi therapies have shown consistent PFS outcomes in patients with and without del(17p) and/or *TP53* mutations



ELEVATE-TN: Acalabrutinib vs. A-O vs. O-Clb in patients with del(17p) and/or mutated *TP53*<sup>3</sup>



PFS with BTKi monotherapy is consistent between patients with and without del(17p) and/or *TP53* mutations

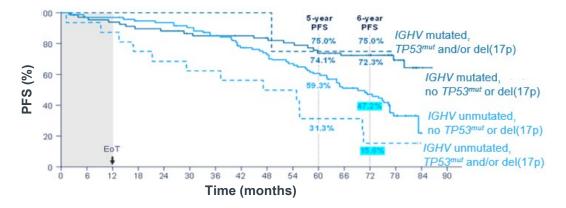
This slide includes data from different clinical trials. These data are meant for demonstration purposes only and are not meant for cross-trial comparison purposes.

A, acalabrutinib; BR, bendamustine-rituximab; BTKi, Bruton's tyrosine kinase inhibitor; CI, confidence interval; Clb, chlorambucil; del, deletion; FU, follow-up; HR, hazard ratio; I, ibrutinib; IR, ibr

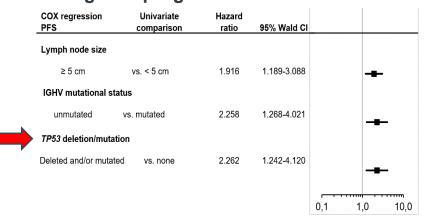
## del(17p)/mutated *TP53* was a negative prognostic marker with ibrutinib-venetoclax in the CAPTIVATE study

#### Venetoclax-obinutuzumab

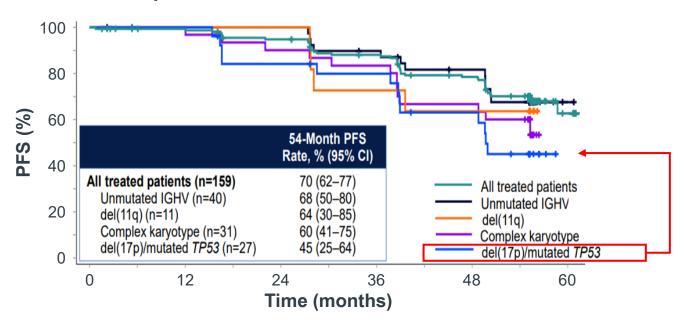
PFS according to IGHV and del(17p)/TP531



#### Negative prognostic factors for PFS<sup>1</sup>



#### **Captivate Phase II: Ibrutinib-venetoclax<sup>2</sup>**



CI, confidence interval; del, deletion; EoT, end of treatment; IGHV, immunoglobulin heavy chain variable; mut, mutated; PFS, progression-free survival.

1. Al Sawaf O *et al.* Oral presentation at EHA 2023; Frankfurt, Germany, June 8–11, 2023. 2. Ghia P *et al.* Oral presentation at ASH 2023; San Diego, CA, USA, December 9–12, 2023. Slide courtesy of Alessandra Tedeschi.

### Patient scenario 2

## Previously untreated CLL

| Age                        | 70 years  |
|----------------------------|---|
| History<br>with CLL        | Recent CLL diagnosis following a routine examination; experienced increasing fatigue in recent weeks  |
| Patient<br>characteristics | <ul><li>ECOG PS: 0</li><li>No comorbidities and no comedications</li></ul>  |
| Laboratory<br>findings     | <ul> <li>WBC count: 128 × 10<sup>9</sup>/L → 70% lymphocytes</li> <li>Hemoglobin: 9.3 g/dL / 5.8 mmol/L</li> <li>Platelet count: 75 × 10<sup>9</sup>/L</li> </ul> |
| Genetic<br>testing         | <ul><li>Unmutated IGHV</li><li>FISH results normal</li><li>TP53 wild-type</li></ul>   |
| Lymph nodes                | Abdominal LN: 8 cm  |

How would you manage the patient and why?

What is the impact of IGHV status and the 8 cm abdominal lymph node on your decision?

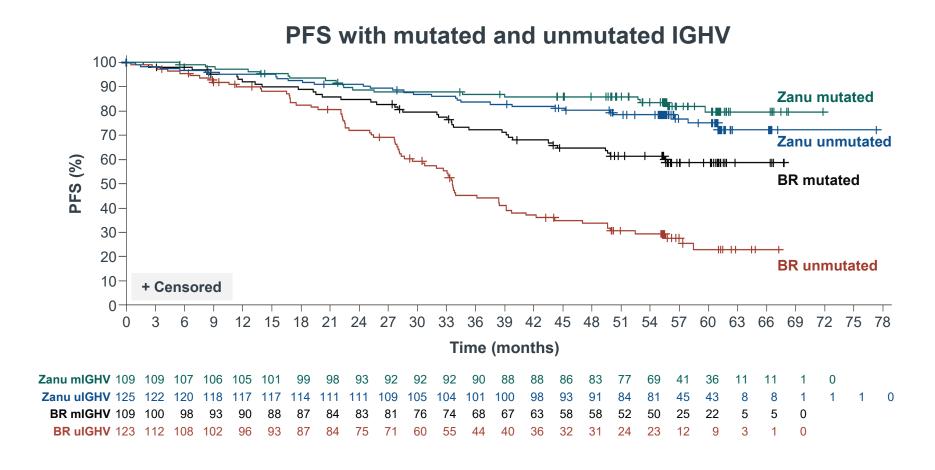
## Ask the audience

### How would you treat this patient?

- Chemoimmunotherapy
- Venetoclax-obinutuzumab
- Continuous zanubrutinib, acalabrutinib, or ibrutinib
- Acalabrutinib-obinutuzumab
- Ibrutinib-venetoclax
- Other
- Clinical trial with novel agent

## PFS outcomes are independent of IGHV status with zanubrutinib

SEQUOIA long-term follow-up



## Zanubrutinib mIGHV vs uIGHV

HR: 1.35 (95% CI: 0.76–2.40); P=0.5194

#### **Overall PFS**

#### 60-week (95% CI)

- Zanu: 75.8% (69.0–81.3)
- BR: 40.1% (32.7–47.3)

#### COVID-19 adjusted (95% CI)

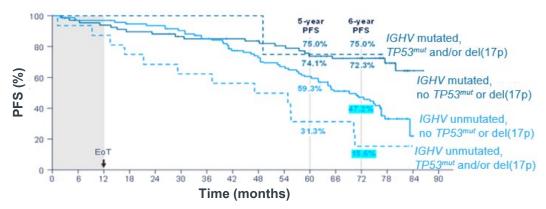
- Zanu: 78.7% (69.0-81.3)
- BR: 40.6% (32.7–47.3)

BR, bendamustine-rituximab; CI, confidence interval; COVID-19, coronavirus disease 2019; HR, hazard ratio; (m/u)IGHV, (mutated/unmutated) immunoglobulin heavy chain variable; PFS, progression-free survival; Zanu, zanubrutinib.

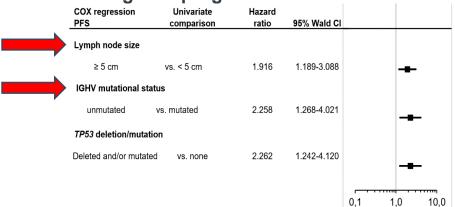
## Unmutated IGHV and bulky disease with venetoclax-based fixed-duration therapy\*

#### Venetoclax-obinutuzumab

PFS according to IGHV and del(17p)/TP531

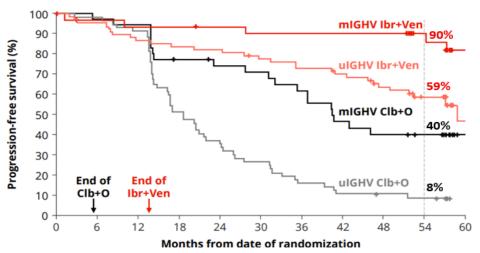


#### Negative prognostic factors for PFS<sup>1</sup>



#### Venetoclax-ibrutinib

GLOW:\* IV vs. Clb-O<sup>2</sup>



#### Estimated 60-month PFS rates with IV<sup>3</sup>

uIGHV: 52.2%mIGHV: 82.5%

No difference in TTNT for patients with mIGHV vs. uIGHV

HR (95% CI): 1.20 (0.31–4.60); *P*=0.7878

#### This slide includes data from different clinical trials. These data are meant for demonstration purposes only and are not meant for cross-trial comparison purposes.

\*Patients with del(17p) or known *TP53* mutations at screening were excluded from GLOW. CI, confidence interval; Clb, chlorambucil; del, deletion; lbr, ibrutinib; IV, ibrutinib-venetoclax; (m/u)IGHV, (mutated/unmutated) immunoglobulin heavy chain variable; mut, mutated; O, obinutuzumab; PFS, progression-free survival; TTNT, time to next treatment; Ven, venetoclax. 1. Al Sawaf O *et al.* Oral presentation at EHA 2023; Frankfurt, Germany, June 8–11, 2023. 2. Moreno C *et al.* Oral presentation at ASH 2023; San Diego, CA, USA, December 9–12, 2023. 3. Niemann CU *et al.* Poster 1871 presented at ASH 2024; San Diego, CA, USA, December 7–10, 2024. Slide courtesy of Alessandra Tedeschi.

## Patient scenario 3

## Previously untreated CLL

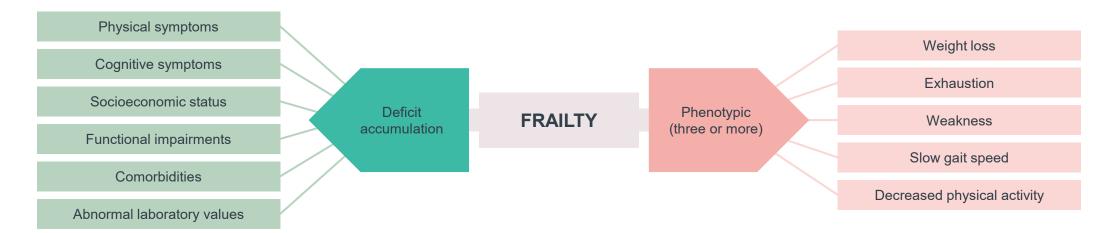
| Age                        | 83 years  |
|----------------------------|---|
| History<br>with CLL        | Recent CLL diagnosis  |
| Patient<br>characteristics | <ul><li>Diabetes, insulin-dependent</li><li>Chronic obstructive pulmonary disease</li></ul> |
| Logistics                  | <ul><li>Lives alone</li><li>No caregiver</li><li>Far from hospital</li></ul>                |
| Genetic testing            | <ul><li>Unmutated IGHV</li><li>FISH: trisomy 12</li><li>TP53 wild-type</li></ul>            |

How would you manage this patient and why?

What impact do the comorbidities and logistics have on your decision?

## Frailty is not a comorbidity (1)

Condition characterized by a decline in physiological reserves and an increased vulnerability to stressors, resulting in a higher risk of adverse outcomes



Source: González-Gascón-y-Marín et al. 2023.1

- The prevalence of frailty in community-dwelling older adults aged 70 years tends to be ~15–30%1
- In six trials of the German CLL Study Group which evaluated first-line targeted therapy, only 4.6% of the 717 patients were over 80 years of age<sup>1</sup>

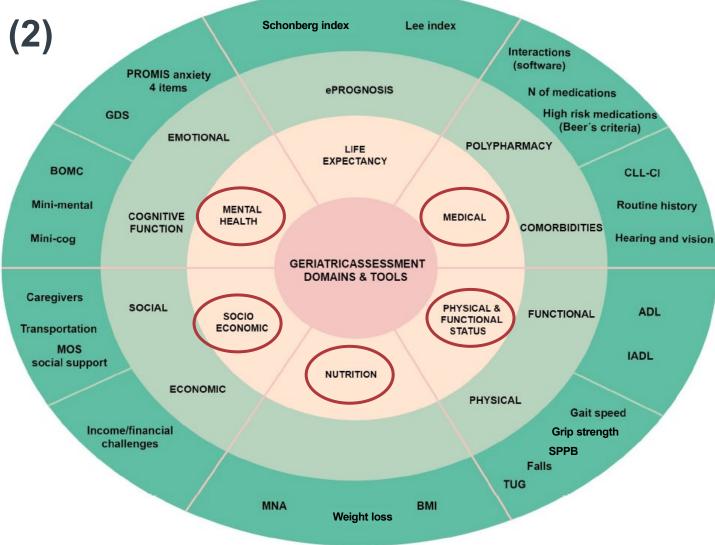
Frailty is not a comorbidity (2)

 Comprehensive approach for HCPs to develop personalized care plans tailored to the unique requirements of older patients<sup>1</sup>

 2023 ASCO guidelines on managing vulnerabilities in older patients receiving systemic cancer therapy have termed this approach "GA-guided management (GAM)"<sup>2</sup>

Evaluated by the **Practical Geriatric Assessment** tool<sup>2</sup>

Essential domains that GA should encompass according to the 2023 ASCO guidelines<sup>2</sup>



Source: González-Gascón-y-Marín et al. 2023.1

ADL, activities of daily living; ASCO, American Society of Clinical Oncology; BMI, body mass index; BOMC, Blessed Orientation-Memory-Concentration Test; CLL-CI, chronic lymphocytic leukemia-comorbidity index; GA, geriatric assessment; GDS, Geriatric Depression Scale; HCP, healthcare professional; IADL, instrumental activities of daily living; MNA, Mini Nutritional Assessment; MOS, Medical Outcomes Study; PROMIS, Patient-Reported Outcomes Measurement Information System; SSPB, short physical performance battery; TUG, Timed Up and Go Test.

### Patient scenario 4A

## Relapse after venetoclax-obinutuzumab

| Age                     | 74 years   |
|-------------------------|--|
| History<br>with CLL     | First-line Ven-Obi (best response: CR)   |
| Patient characteristics | <ul><li>ECOG PS: 1</li><li>No comorbidities and no comedications</li></ul>   |
| Laboratory<br>findings  | <ul> <li>WBC count: 54 × 10<sup>9</sup>/L → 85% lymphocytes</li> <li>Hemoglobin: 8.7 g/dL / 5.4 mmol/L</li> <li>Platelet count: 78 × 10<sup>9</sup>/L</li> </ul> |
| Genetic testing         | <ul> <li>Unmutated IGHV</li> <li>FISH result: del(11q)</li> <li>TP53 wild-type</li> </ul>  |

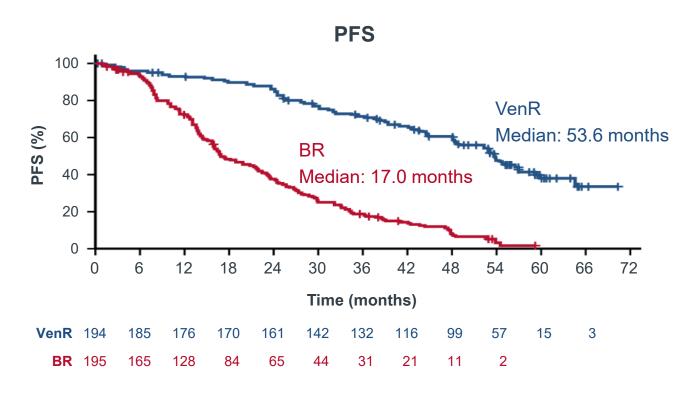
The patient was treated with first-line venetoclax-obinutuzumab and remained in disease remission for 3 years off-treatment

How would you manage the patient and why?

If you favor a BTKi at this stage, which agent would you select for the patient?

## Venetoclax-rituximab is approved for R/R CLL

The MURANO study



Patients with prior exposure to venetoclax were ineligible for enrolment

#### **Median TTNT**

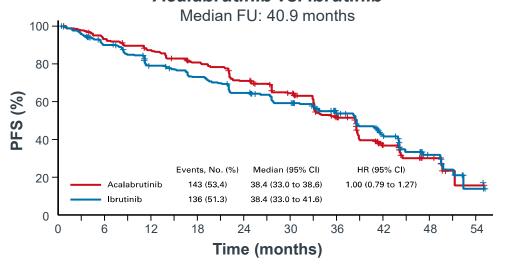
- VenR: 57.8 months
- **BR**: 23.9 months

Venetoclax-rituximab is approved by the EMA for R/R CLL based on the MURANO study data

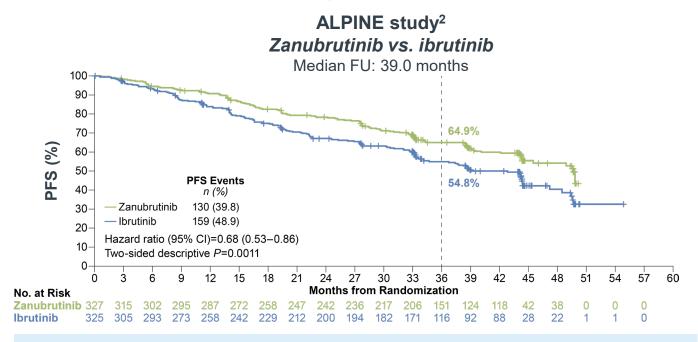
## Head-to-head trials have compared the BTK inhibitors acalabrutinib and zanubrutinib with ibrutinib in the relapsed setting

ELEVATE-RR in patients with del(17p) and/or del(11q)<sup>1</sup>

Acalabrutinib vs. ibrutinib



Median PFS with acalabrutinib with del(11q) or del(17p): 38.4 months



- Sustained PFS benefit with zanubrutinib over ibrutinib, which was consistent across multiple sensitivity analyses
  - Accounting only for PD and death events that occurred during active treatment,
     P=0.0206
  - Censoring for new CLL/SLL therapies, P=0.0014
  - o Censoring for death due to COVID-19, P=0.0013
- No OS difference recorded

This slide includes data from different clinical trials. These data are meant for demonstration purposes only and are not meant for cross-trial comparison purposes.

BTK, Bruton's tyrosine kinase; CI, confidence interval; CLL, chronic lymphocytic leukemia; COVID-19, coronavirus disease 2019; del, deletion; FU, follow-up; HR, hazard ratio; OS, overall survival; PD, progressive disease; PFS, progression-free survival; SLL, small lymphocytic leukemia.

## Venetoclax-obinutuzumab retreatment?

The ReVenG study

**Eligibility Criteria** 

- Relapsed CLL
- Completed 12 cycles of first line Ven-Obi and achieved a clinical response<sup>1</sup>
- Minimum of 1 year progression-free period after completing 1L Ven treatment
- PD by iwCLL criteria

Davids MS et al. Blood 2021; 138 (Supplement 1): 2634.

**Treatment Cohorts** 

**COHORT 1 (n = 60)** 

> 2 years between last dose of fixed duration Ven in 1L setting and PD

Study Treatment
6 cycles Ven-Obi, then 6 cycles Ven
monotherapy

**COHORT 2 (n = up to 15)** 

1-2 years between last dose of fixed duration Ven in 1L setting and PD

Study Treatment<sup>2</sup>
6 cycles Ven-Obi, then 18 cycles Ven
monotherapy

**Endpoints** 

Primary Endpoint
ORR at EoCT (C6+3 months)

**Key Secondary Endpoints** 

CR/CRi

ORR at EoT

DOR

uMRD 10-4

**PFS** 

OS

TTNT

Safety

ReVenG is the first prospective clinical trial to evaluate the efficacy and safety of retreatment with Ven-Obi at the time of PD in patients who had initially responded to first-line Ven-Obi for ≥12 months after completing therapy

<sup>1</sup>Patients who stopped 1L VenG therapy earlier than 12 months but completed at least 9 months of therapy and had a documented clinical response may be eligible based on the investigator's discretion <sup>2</sup>Patients with detectable MRD at EoT may continue venetoclax until PD based on patient choice and investigator discretion

1L, first-line; CLL, chronic lymphocytic leukemia; CR(i), complete remission (with incomplete marrow recovery); DOR, duration of response; EoCT, end of combination therapy (Ven-Obi); EoT, end of therapy; iwCLL, International Workshop on Chronic Lymphocytic Leukemia; ORR, overall response rate; OS, overall survival; PD, progressive disease; PFS, progression free survival; TTNT, time to next treatment; uMRD, undetectable minimal residual disease; Ven, venetoclax; Ven-Obi, venetoclax-obinutuzumab.

18

## Venetoclax-rituximab as second-line therapy?

The MURANO study



#### **MURANO** venetoclax retreatment substudy

- Median prior LOT before first VenR: 1<sup>1</sup>
- BCRi-exposed: 2.6%<sup>1</sup>

Slide courtesy of Alessandra Tedeschi.

Phase III
R/R CLL
(N=389)¹

Phase III
R/R CLL
(N=389)¹

Rituximab
×6 cycles

Rituximab
×6 cycles

Rituximab
×6 cycles

Time off treatment:<sup>2</sup> Median 2.3 years (range: 1.2–3.1)

CIT

mPFS of MURANO full cohort for VenR: **54.7 months** (~4.5 years; 95% CI: 52.3–59.9) Out of **34** patients with PD who entered the retreatment substudy, **25** were retreated with VenR<sup>2</sup>

## Retreatment<sup>†,2</sup>: Up to 2 years on treatment (n=25)

Best ORR: **72**%

- Most patients were classified as high risk: 32% had del(17p) and/or TP53 mutation, 88% IGHV unmutated, 32% GC<sup>‡</sup> ≥5
- mPFS: 23.3 months (95% CI: 15.6–24.3)

Median follow-up: 33.4 months

19

<sup>\*</sup>To PD, unacceptable toxicity, or 2 years¹; †Median treatment duration: 11.4 (range: 0.7–37.6) months. Responses in patients treated with next line of therapy for insufficient time to have response assessed, or patients who had no response assessments reported were considered unevaluable²; ‡≥3 copy number alterations.²

BCRi, B-cell receptor pathway inhibitor; cBTKi, covalent Bruton's tyrosine kinase inhibitor; CI, confidence interval; CIT, chemoimmunotherapy; del, deletion; GC, genomic complexity; IGHV, immunoglobulin heavy chain variable; LOT, lines of therapy; mPFS, median progression-free survival; ORR, overall response rate; PD, progressive disease; R/R CLL, relapsed/refractory chronic lymphocytic leukemia; Tx, treatment; VenR, venetoclax-rituximab.

1. Seymour JF et al. N Engl J Med 2018; 378 (12): 1107–1120. 2. Kater AP et al. Oral presentation at EHA 2023; Frankfurt, Germany, 8–11 June 2023.

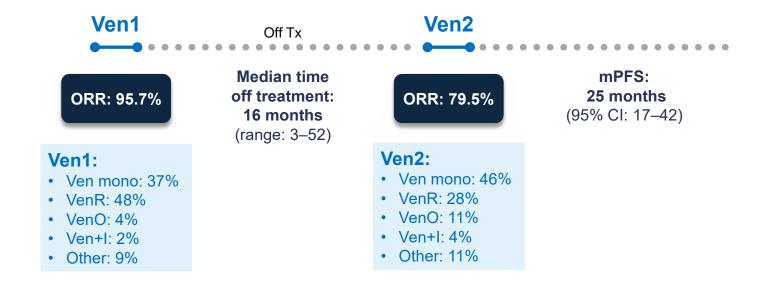
## **Venetoclax-based retreatment?**

A multicenter, international, retrospective study

#### Multicenter, retrospective study (N=46)

Median prior LOT: 2 (range: 0–10)

Prior BTKi: 40%



BTKi, Bruton's tyrosine kinase inhibitor; CI, confidence interval; I, ibrutinib; LOT, lines of therapy; O, obinutuzumab; mPFS, median progression-free survival; ORR, overall response rate; R, rituximab; Tx, treatment; Ven1, initial venetoclax regimen; Ven2, second venetoclax-based regimen.

Thompson MC et al. Blood Adv 2022; 6 (15): 4553-4557.

### Patient scenario 4B

## Relapse on continuous BTKi

| Age                        | 77 years   |
|----------------------------|--|
| History<br>with CLL        | 3 years' remission following Ven-Obi (best response: CR);<br>3 years' remission on BTKi (best response: PR)  |
| Patient<br>characteristics | <ul><li>ECOG PS: 1</li><li>No comorbidities and no comedications</li></ul>   |
| Laboratory<br>findings     | <ul> <li>WBC count: 127 × 10<sup>9</sup>/L → 70% lymphocytes</li> <li>Hemoglobin: 10.1 g/dL / 6.3 mmol/L</li> <li>Platelet count: 77 × 10<sup>9</sup>/L</li> </ul> |
| Genetic<br>testing         | \  |

The patient was treated with second-line cBTKi monotherapy and remained in disease remission for 3 years

How would you manage the patient and why?

What is the impact of *BTK* L528W?

## Ask the audience

#### How would you treat this patient?

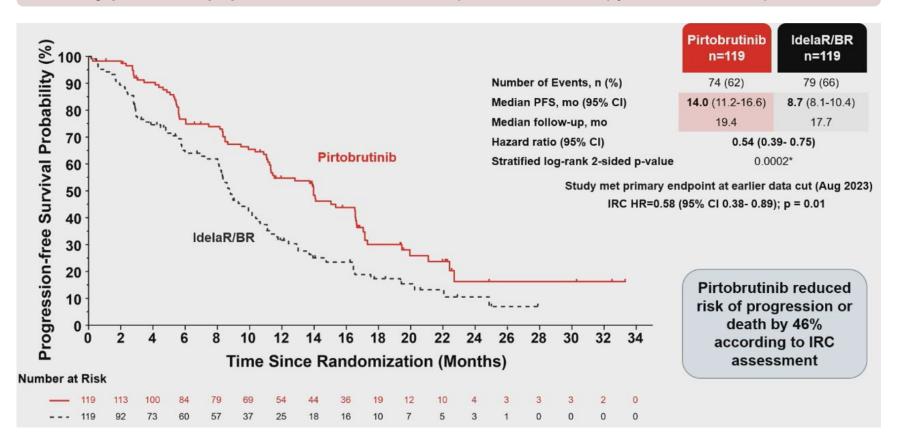
- Chemoimmunotherapy
- Fixed-duration venetoclax-rituximab
- Continuous zanubrutinib, acalabrutinib, or ibrutinib
- Acalabrutinib-obinutuzumab
- Ibrutinib-venetoclax
- Idelalisib + rituximab
- Pirtobrutinib
- Other
- Clinical trial with novel agent

## **Non-covalent BTK inhibitors**

**BRUIN** study



**High-risk:** >50% del(17p) and/or *TP53* mutation and complex karyotype **Heavily pretreated population:** 33% received ≥4 prior lines of therapy, ~50% received prior BCL2i





#### **Subgroups**

Consistent PFS benefit with pirtobrutinib vs. IdelaR/BR



#### Safety outcomes

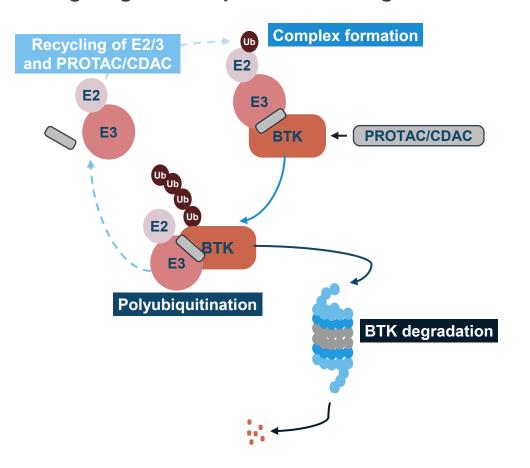
#### **Discontinuations**

- Pirtobrutinib: 6/116 (5.2%)
- IdelaR/BR: 23/109 (21.1%)

BCL2i, B-cell lymphoma 2 inhibitor; BR, bendamustine-rituximab; BTK, Bruton's tyrosine kinase; CI, confidence interval; HR, hazard ratio; IdelaR, idelalisib-rituximab; IRC, independent review committee; PFS, progression-free survival

## BTK degraders are a potential future therapeutic option in the R/R setting

#### **Targeting BTK for proteasomal degradation**



Phase I
CaDAnCe-101 study of
BTK degrader BGB-16673<sup>1</sup>

60 patients with R/R CLL/SLL enrolled Median 4 prior lines of therapy

#### **Safety**

- Well tolerated
- No AF

#### ORR (n=49)

- Overall: 77.6%
- Prior cBTKi + BCL2i: 86.7%
- Prior cBTKi + BCL2i + ncBTKi: 58.3%

Phase la/b of BTK degrader NX-5948<sup>2</sup>

60 patients with R/R CLL/SLL enrolled

Median 4 prior lines of therapy

#### Safety

- · Well tolerated
- One case of Grade 1 AF in a patient with pre-existing AF

#### ORR (n=49)

Overall: 75.5%

AF, atrial fibrillation; BCL2i, B-cell lymphoma 2 inhibitor; (c/nc)BTK(i), (covalent/noncovalent) Bruton's tyrosine kinase (inhibitor); CDAC, chimeric degradation activation compound; CLL, chronic lymphocytic leukemia; ORR, overall response rate; PROTAC, proteolysis-targeting chimera; R/R, relapsed/refractory; SLL, small lymphocytic lymphoma; Ub, ubiquitin.

## Patient scenario 4C

### Richter transformation

| Age                        | 78 years   |
|----------------------------|--|
| History<br>with CLL        | 4 years' remission following Ven-Obi;<br>3 years' remission on BTKi; 1 year of<br>remission on pirtobrutinib   |
| Patient<br>characteristics | <ul><li>ECOG PS: 1</li><li>No comorbidities and no comedications</li></ul>   |
| Laboratory<br>findings     | <ul> <li>WBC count: 7 × 10<sup>9</sup>/L → 35% lymphocytes</li> <li>Hemoglobin: 10.2 g/dL / 6.3 mmol/L</li> <li>Platelet count: 120 × 10<sup>9</sup>/L</li> <li>PET scan: left axillary 18F-FDG uptake with an SUV of 12</li> <li>Biopsy findings: DLBCL transformation</li> </ul> |

The patient was treated with pirtobrutinib, and remained in disease remission for 1 year before experiencing sudden weight loss and enlarged lymph nodes

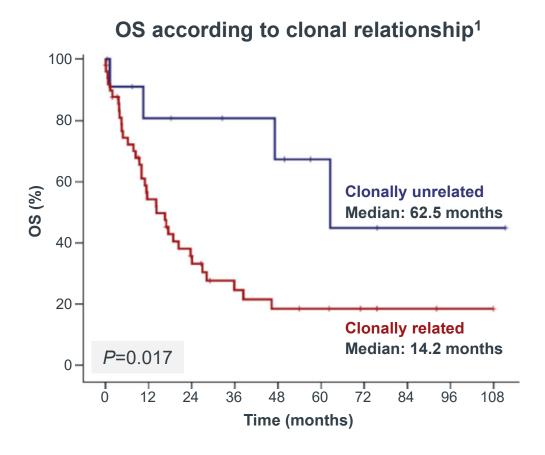
PET scan reveals left axillary 18F-FDG uptake with an SUV of 12

**Biopsy confirms DLBCL transformation** 

What other information could help you make a treatment decision for this patient?

#### This is a hypothetical patient case scenario intended for educational purposes only.

## The clonal relationship of DLBCL-RT to the underlying CLL is a relevant prognostic factor in Richter transformation



~80% of DLBCL-RT are CLL clonally related<sup>2</sup>

Clonality should also guide treatment decisions

## Patient scenario 4D

#### Richter transformation

| Age                        | 78 years   |
|----------------------------|--|
| History<br>with CLL        | 4 years' remission following Ven-Obi;<br>3 years' remission on BTKi; 1 year of<br>remission on pirtobrutinib   |
| Patient<br>characteristics | <ul><li>ECOG PS: 1</li><li>No comorbidities and no comedications</li></ul>   |
| Laboratory<br>findings     | <ul> <li>WBC count: 7 × 10<sup>9</sup>/L → 35% lymphocytes</li> <li>Hemoglobin: 10.2 g/dL / 6.3 mmol/L</li> <li>Platelet count: 120 × 10<sup>9</sup>/L</li> <li>PET scan: left axillary 18F-FDG uptake with an SUV of 12</li> <li>Biopsy findings: DLBCL transformation</li> </ul> |

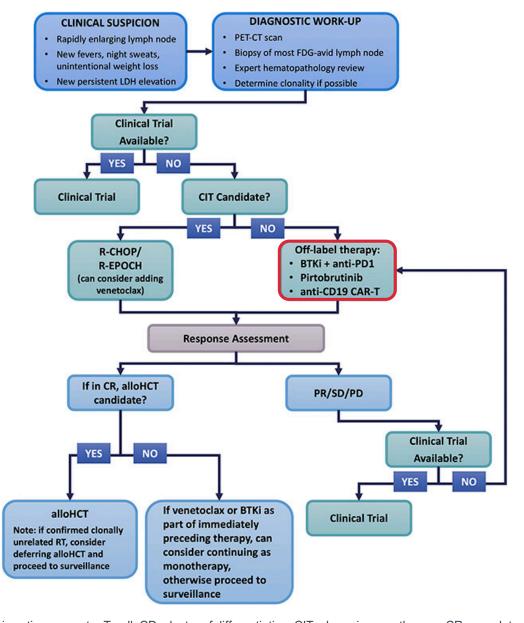
How would you manage this patient if the RT was clonally related to CLL?

How would you manage this patient if the RT was clonally unrelated to CLL?

This is a hypothetical patient case scenario intended for educational purposes only.

BTKi, Bruton's tyrosine kinase inhibitor; CLL, chronic lymphocytic leukemia; DLBCL, diffuse large B-cell lymphoma; ECOG PS, Eastern Cooperative Oncology Group Performance Status; FDG, fluorodeoxyglucose; FISH, fluorescence *in situ* hybridization; IGHV, immunoglobulin heavy chain variable; PET, positron emission tomography; RT, Richter transformation; SUV, standardized uptake value; Ven-Obi, venetoclax-obinutuzumab; WBC, white blood cell.

# Chemoimmunotherapy is the most commonly used initial therapy for RT

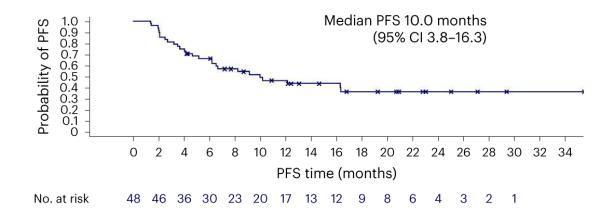


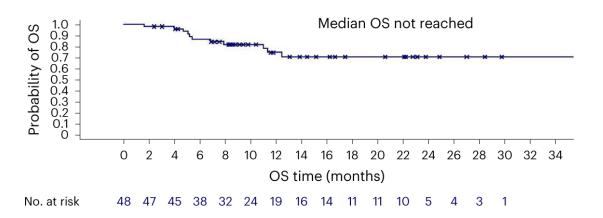
alloHCT, allogeneic hematopoietic cell transplantation; BTKi, Bruton tyrosine kinase inhibitor; CAR-T, chimeric antigen receptor T-cell; CD, cluster of differentiation; CIT, chemoimmunotherapy; CR, complete response; FDG, fluorodeoxyglucose; LDH, lactate dehydrogenase; PD, progressive disease; PET-CT, positron emission tomography-computed tomography; PR, partial response; R-CHOP, rituximab plus cyclophosphamide, doxorubicin, vincristine, and prednisone; R-EPOCH, rituximab, etoposide, prednisone, vincristine, cyclophosphamide, doxorubicin; RT, Richter transformation; SD, stable disease.

Ryan CE and Davids MS. Practical Management of Richter Transformation in 2023 and Beyond. In: *Am Soc Clin Oncol Educ Book* 2023: 43: e390804.

## Potential future therapeutic options for RT (1)

## Tislelizumab plus zanubrutinib

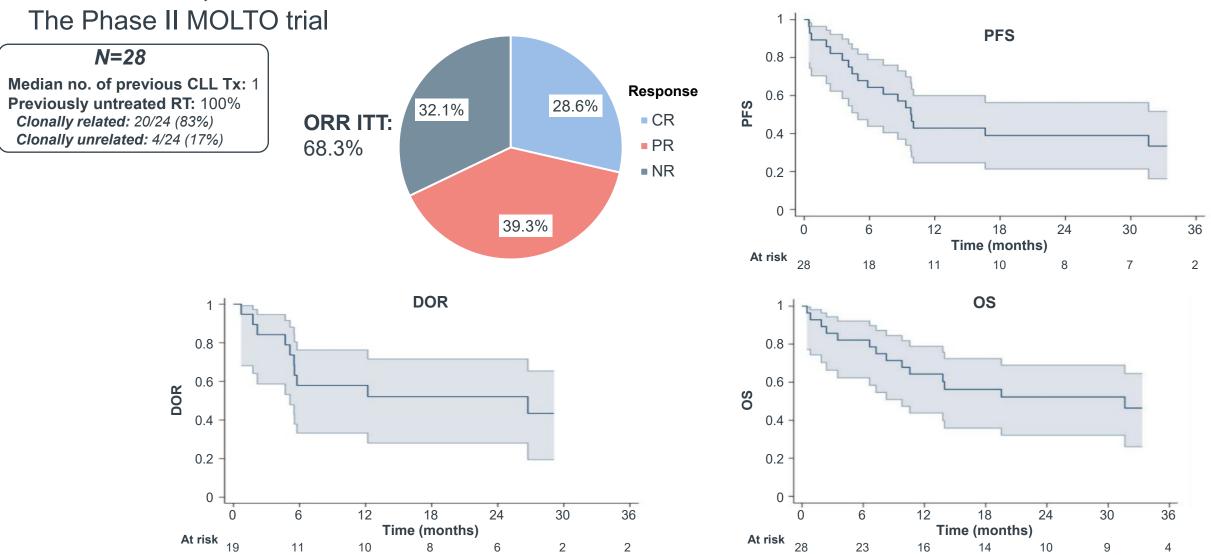




#### **Trial summary**

- 48 patients with RT
- Median prior lines for CLL / RT: 3 (range: 1-6)
- Clonal relationship
  - o Related: 26 (54.2%)
  - o Unknown: 22 (45.8%)
- ORR: 58.3% (95% CI: 43.2–72.4)
- CRR: 18.8%
- PR: 39.6%
- 12-month OS: 74.7% (95% CI: 58.4–91.0)

Venetoclax, atezolizumab and obinutuzumab combination in DLBCL-RT

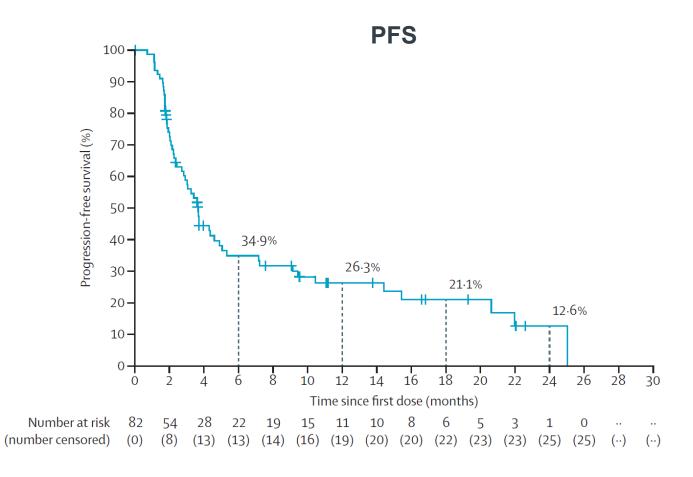


CLL, chronic lymphocytic leukemia; CR, compete response; DLBCL-RT, Richter transformation diffuse large B-cell lymphoma; DOR, duration of response; ITT, intention-to-treat; NR, no response; ORR, overall response rate; PFS, progression-free survival; PR, partial response; RT, Richter transformation; Tx, treatment.

Tedeschi A et al. Lancet Oncol 2024; 25 (10): 1298–1309.

## Potential future therapeutic options for RT (2)

#### **Pirtobrutinib**

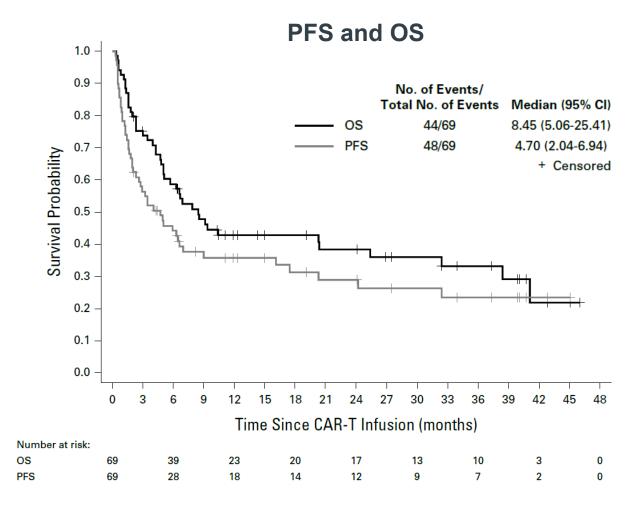


#### **Trial summary**

- 82 patients with RT
- Median prior lines for CLL/RT: 4 (range: 0–13)
- Clonal relationship not reported
- ORR: 50.0% (95% CI: 38.7–61.3)
- ORR with previous BTKi therapy (n=61): 45.9% (95% CI: 33.1–59.2)
- Median OS: 12.5 months (95% CI: 6.9–20.5)

## Potential future therapeutic options for RT (3)

Anti-CD19 targeted CAR-T



#### **Trial summary**

- 69 patients with RT
- Median prior lines for CLL/RT: 4 (range: 1–15)
- · Clonal relationship
  - Related: 23/69Unknown: 46/69
- CAR-T therapy received
  - o Axicabtagene ciloleucel: 44/69 (64)
  - o Tisagenlecleucel: 17/69 (25%)
  - Lisocabtagene maraleucel: 7/69 (10%)
  - o Brexucabtagene autoleucel: 1/69 (1%)

#### 24 months following CAR-T infusion

• ORR: 63.8%

• CRR: 46%

• PFS: 29%

#### 12 months following CAR-T infusion

• Estimated non-relapse mortality rate: 13%

CAR-T, chimeric antigen receptor T-cell; CD, cluster of differentiation; CI, confidence interval; CLL, chronic lymphocytic leukemia; CRR, complete response rate; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; PR, partial response; RT, Richter transformation.

Kittai AS et al. J Clin Oncol 2024; 42 (17): 2071–2079.

32

## Bispecific antibodies are being investigated for RT

#### Epcoritamab

642.CHRONIC LYMPHOCYTIC LEUKEMIA: CLINICAL AND EPIDEMIOLOGICAL | NOVEMBER 5, 2024

## Epcoritamab Monotherapy in Patients (Pts) with Relapsed or Refractory (R/R) Chronic Lymphocytic Leukemia (CLL): Results from CLL Expansion and Optimization Cohorts of Epcore CLL-1

Alexey Danilov, Bita Fakhri, Farrukh T. Awan, Hans Herluf Bentzen, Herbert A. Eradat, Carsten Utoft Niemann, Fritz Offner,
Christian Bjørn Poulsen, Thor Hoeyer, Mar Bellido, Damien Roos Weil, Alessandra Ferrajoli, Meghan C. Thompson, Jacob Haaber Christensen,
Ann Janssens, Tamar Tadmor, Mazyar Shadman, Pegah Jafarinasabian, Jimin Zhang, Marcia Rios, Alexandra Kuznetsova, Rebecca Valentin,
Arnon P. Kater

#### **Trial summary**

- 40 patients with RT
  - o 23 in expansion cohort; 17 in optimization cohort
- Median prior lines for CLL/RT: 4 (range: 2–10)
- Clonal relationship not reported

#### **Expansion cohort**

- ORR: 61%
- CR: 39%
- mPFS: 12.8 months
- 15-month OS: 65% alive

