



POST-SAN DIEGO 2024  
Novità dal Meeting della Società Americana di Ematologia

# Novità dal Meeting della Società Americana di Ematologia

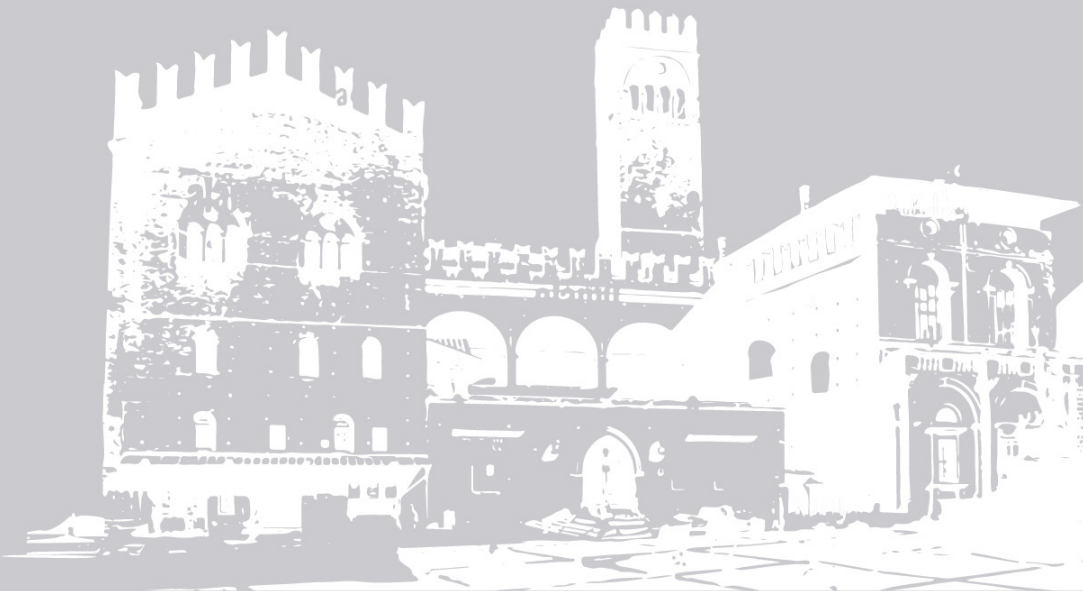
Bologna  
Palazzo Re Enzo  
13-15 Febbraio 2025

#### COORDINATORI

Angelo Michele Carella  
Pier Luigi Zinzani

#### BOARD SCIENTIFICO

Paolo Corradini  
Mauro Krampera  
Fabrizio Pane  
Adriano Venditti



## 3° SESSIONE – LEUCEMIA LINFATICA CRONICA: Terapie di salvataggio

Lydia SCARFO'

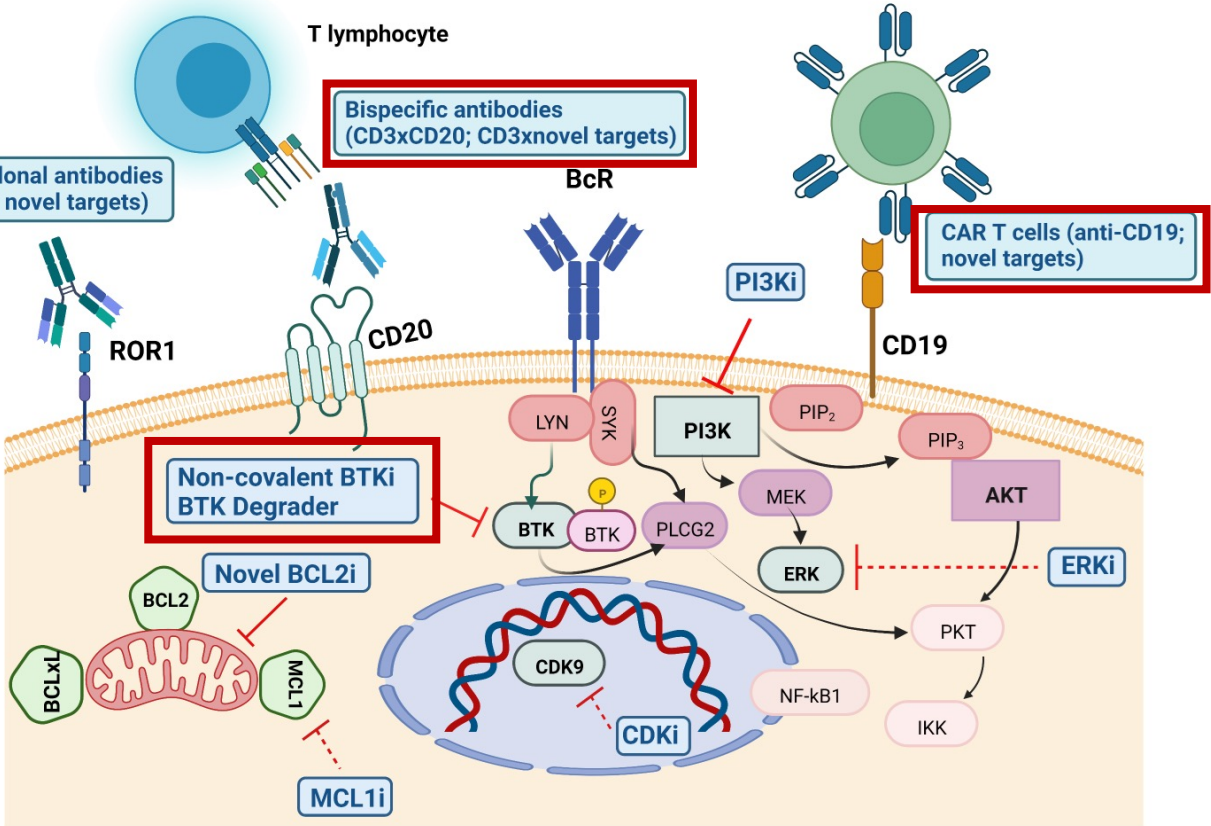
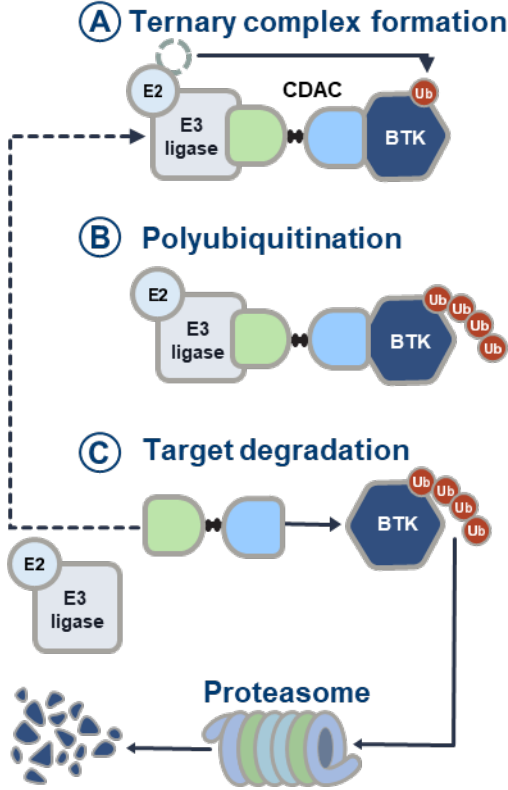
*Università Vita Salute e IRCCS Ospedale San Raffaele, Milano*



## Disclosures of Lydia Scarfò

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

# Is there hope for the future?



# CaDAnCe-101: Phase 1/2, Open-Label, Dose-Escalation/ Expansion Study in R/R B-Cell Malignancies

CaDAnCe-101  
(BGB-16673-101,  
NCT05006716)

## Key eligibility criteria for CLL/SLL

- Meets iwCLL 2018 criteria for treatment
- ≥2 prior therapies, including cBTKi if approved for disease
- ECOG PS 0-2 & adequate end-organ function

## Key study objectives for part 1

- **Primary:** safety<sup>c</sup> and tolerability, MTD, and RP2D
- **Secondary:** PK, PD, and preliminary antitumor activity<sup>d</sup>

## Part 1: Monotherapy dose finding<sup>a</sup>

### Part 1a: Dose escalation

**Selected R/R B-cell malignancies**  
(MZL, FL, MCL, **CLL/SLL**, WM, DLBCL, RT)  
*n*≤72  
**Oral, QD, 28-day cycle<sup>b</sup>**  
Doses: 50 mg, 100 mg, 200 mg,  
350 mg, 500 mg, 600 mg

### Part 1b: Safety expansion

**Selected R/R B-cell malignancies**  
(MZL, MCL, **CLL/SLL**, WM)  
*n*≤120

### Part 1c: Additional safety expansion

**Selected R/R B-cell malignancies**  
(MZL, WM, RT, DLBCL, FL)  
*n*≤100

### Part 1d: Additional safety expansion

**R/R CLL/SLL**  
*n*≤30

### Part 1e: Additional safety expansion

**Selected R/R B-cell malignancies**  
**(Japan only)**  
(MZL, FL, MCL, CLL/SLL, WM)  
*n*=6-9

### Part 1f: Monotherapy safety expansion

**Selected BTK inhibitor-naïve**  
**B-cell malignancies**  
(MZL, MCL, CLL/SLL, WM, RT)  
*n*≤40

Determination of  
BGB-16673 RDFE

## Phase 2

**Cohort 1:**  
Post BTK inhibitor,  
R/R CLL/SLL

**Cohort 2:**  
Post BTK inhibitor,  
R/R MCL

**Cohort 3:**  
Post BTK inhibitor,  
R/R WM

**Cohort 4:**  
Post BTK inhibitor,  
R/R MZL

**Cohort 5:**  
R/R FL

**Cohort 6:**  
R/R non-GCB  
DLBCL

**Cohort 7:**  
Post BTK inhibitor,  
R/R RT

<sup>a</sup> Data from gray portions of the figure are not included in this presentation. <sup>b</sup> Treatment was administered until progression, intolerance, or meeting other criteria for treatment discontinuation. <sup>c</sup> Safety was assessed according to CTCAE v5.0 in all patients and iwCLL hematologic toxicity criteria in patients with CLL; DLTs were assessed during the first 4 weeks of part 1a. <sup>d</sup> Response was assessed per iwCLL 2018 criteria after 12 weeks in patients with CLL; response was assessed per Lugano criteria after 12 weeks in patients with RT.

GCB, germinal center B cell; RT, Richter transformation.

# Baseline Patient Characteristics

Heavily pretreated, with high-risk CLL features

	Total (N=60)
<b>Age, median (range), years</b>	70 (50-91)
<b>Male, n (%)</b>	39 (65.0)
<b>ECOG PS, n (%)</b>	
0	34 (56.7)
1	25 (41.7)
2	1 (1.7)
<b>CLL/SLL risk characteristics at study entry, n/N with known status (%)</b>	
Binet stage C	27/56 (48.2)
Unmutated IGHV	38/46 (82.6)
del(17p) and/or <i>TP53</i> mutation	40/60 (66.7)
Complex karyotype (≥3 abnormalities)	19/38 (50.0)

	Total (N=60)
<b>Mutation status, n/N (%)</b>	
<i>BTK</i> mutation present	18/54 (33.3)
<i>PLCG2</i> mutation present	8/54 (14.8)
<b>No. of prior lines of therapy, median (range)</b>	4 (2-10)
<b>Prior therapy, n (%)</b>	
Chemotherapy	43 (71.7)
cBTK inhibitor	56 (93.3)
ncBTK inhibitor	13 (21.7)
BCL2 inhibitor	50 (83.3)
cBTK + BCL2 inhibitors	38 (63.3)
cBTK + ncBTK + BCL2 inhibitors	12 (20.0)
<b>Discontinued prior BTK inhibitor due to PD, n/N (%)<sup>a</sup></b>	50/56 (89.3)

Data cutoff: September 2, 2024.

<sup>a</sup> Remaining 6 patients discontinued prior BTK inhibitor due to toxicity (n=3), treatment completion (2), and other (n=1).

cBTK, covalent BTK; ncBTK, noncovalent BTK.

Thompson M, ASH2024, abs #885 oral communication

# Safety Summary and All-Grade TEAEs in ≥10% of All Patients

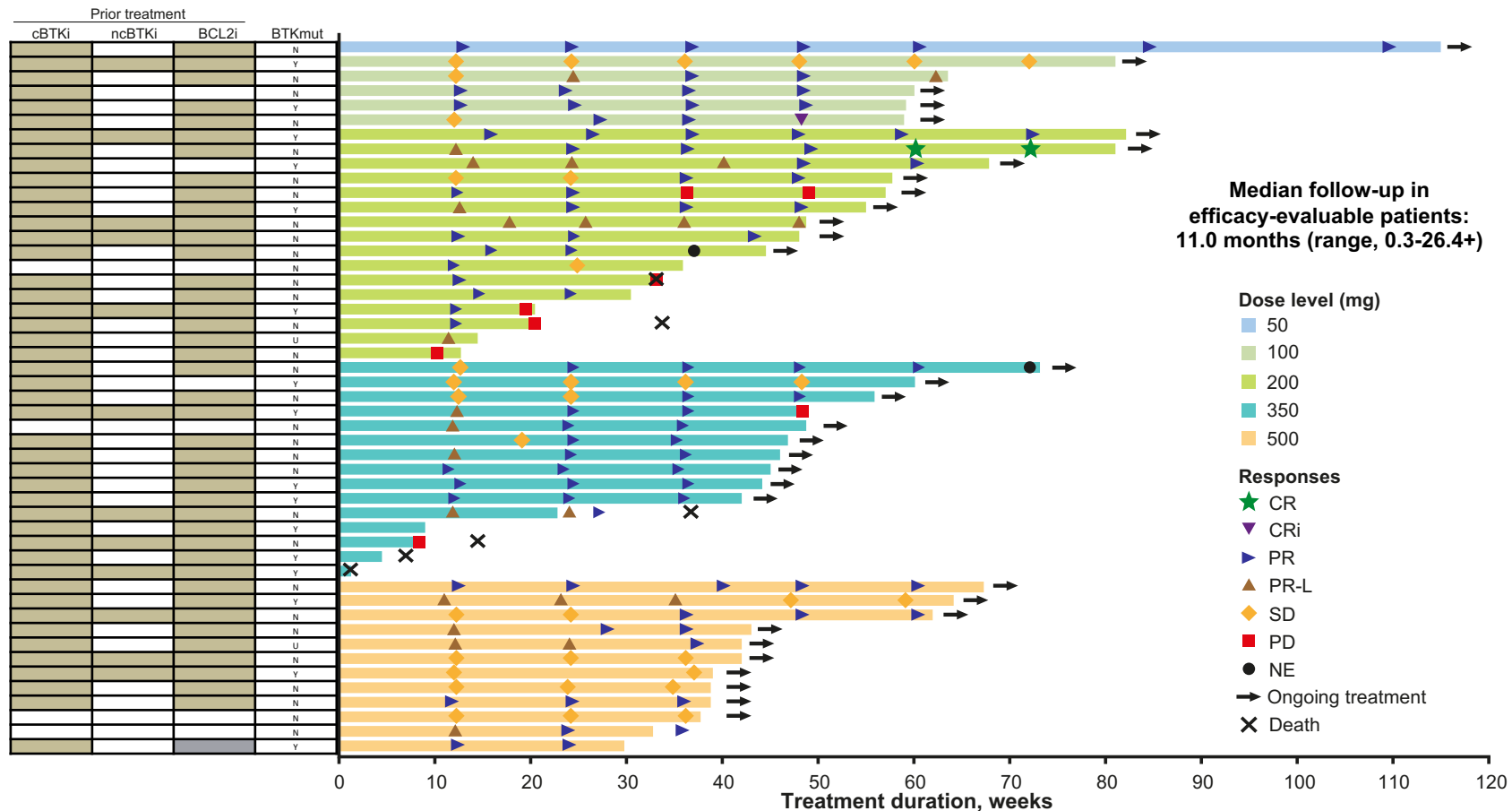
- No atrial fibrillation
- No pancreatitis
- Major hemorrhage<sup>b</sup>: 3.3% (n=2; grade 1 subarachnoid hemorrhage [n=1] and grade 3 subdural hemorrhage [n=1])
- Febrile neutropenia: 1.7% (n=1; in the context of COVID-19 pneumonia and norovirus diarrhea)

Patients, n (%)	Total (N=60)	
	All Grade	Grade ≥3
Fatigue	18 (30.0)	1 (1.7)
Contusion (bruising)	17 (28.3)	0
Neutropenia <sup>c</sup>	15 (25.0)	13 (21.7)
Diarrhea	14 (23.3)	1 (1.7)
Anemia	11 (18.3)	0
Lipase increased <sup>a</sup>	10 (16.7)	2 (3.3)
Cough	9 (15.0)	0
Pneumonia	8 (13.3)	5 (8.3)
Pyrexia	8 (13.3)	0
Arthralgia	7 (11.7)	0
COVID-19	7 (11.7)	0
Dyspnea	7 (11.7)	0
Peripheral edema	7 (11.7)	0
Thrombocytopenia <sup>d</sup>	7 (11.7)	2 (3.3)
Amylase increased <sup>a</sup>	6 (10.0)	0
Nausea	6 (10.0)	0
Sinusitis	6 (10.0)	0

Median follow-up: 10.2 months (range, 0.3-26.4+).

<sup>a</sup> All events were lab findings and were transient, mostly occurring during the first 1-3 cycles of treatment, with no clinical pancreatitis. <sup>b</sup> Grade ≥3, serious, or any central nervous system bleeding. <sup>c</sup> Neutropenia combines preferred terms *neutrophil count decreased* and *neutropenia*. <sup>d</sup> Thrombocytopenia combines preferred terms *platelet count decreased* and *thrombocytopenia*.

# Treatment Duration and Response



Data cutoff: September 2, 2024. Efficacy-evaluable patients. First response assessment after 12 weeks.

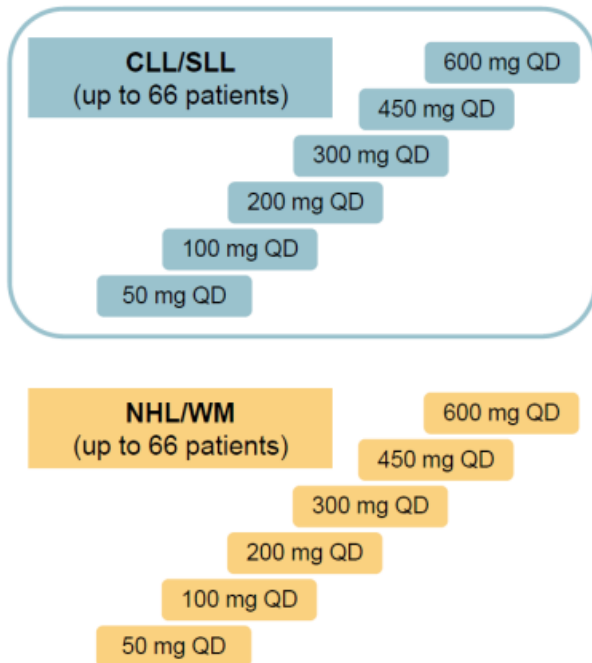
Thompson M, ASH2024, abs #885 oral communication

# NX5948-301: Trial design

## Phase 1a dose escalation (completed enrollment)

### Key eligibility criteria

- Age ≥18 years
- Relapsed/refractory disease
- ≥2 prior lines of therapy (≥1 for PCNSL)
- ECOG PS 0–1 (ECOG PS 0–2 for PCNSL)



## Phase 1b dose expansion (N = up to 160 patients)

**CLL/SLL 200 mg QD**  
Prior BTKi and BCL2i

**CLL/SLL 600 mg QD**  
Prior BTKi and BCL2i

**WM**  
3L+ post-BTKi

**WM**  
2L post-BTKi

**MCL**  
Prior BTKi and anti-CD20 CIT

**MZL**  
Prior anti-CD20 CIT and ≥2 prior LoT

**DLBCL**  
Prior anthracycline, anti-CD20 CIT + 1 LoT

**FL**  
Prior anti-CD20 CIT + 1 LoT

**PCNSL/SCNSL**  
Patients who have progressed or had no response to ≥1 prior LoT

**BCL2i**, BCL2 inhibitor; **BTKi**, BTK inhibitor; **CIT**, chemo-immunotherapy; **CLL**, chronic lymphocytic leukemia; **DLBCL**, diffuse large B-cell lymphoma; **ECOG PS**, Eastern Cooperative Oncology Group performance status; **FL**, follicular lymphoma; **LoT**, lines of treatment; **MCL**, mantle cell lymphoma; **MZL**, marginal zone lymphoma; **NHL**, non-Hodgkin's lymphoma; **PCNSL**, primary CNS lymphoma; **QD**, once daily; **SCNSL**, secondary CNS lymphoma; **SLL**, small lymphocytic lymphoma; **WM**, Waldenström's macroglobulinemia

3



# NX5948-301: Patient characteristics

Characteristics	Patients with CLL/SLL <sup>a</sup> (n=60)
<b>ECOG PS, n (%)</b>	
0	24 (40.0)
1	36 (60.0)
<b>CNS involvement, n (%)</b>	5 (8.3)
<b>Median prior lines of therapy (range)</b>	4.0 (1–12)
<b>Previous treatments<sup>b</sup>, n (%)</b>	
BTKi	59 (98.3)
cBTKi	59 (98.3)
ncBTKi <sup>c</sup>	17 (28.3)
BCL2i	50 (83.3)
BTKi and BCL2i	49 (81.7)
CAR-T therapy	3 (5.0)
Bispecific antibody	4 (6.7)
PI3Ki	18 (30.0)
Chemo/chemo-immunotherapies (CIT)	43 (71.7)
<b>Mutation status<sup>d</sup> (n=57), n (%)</b>	
<i>TP53</i>	23 (40.4)
<i>BTK</i>	22 (38.6)
<i>PLCG2</i>	7 (12.3)
<i>BCL2</i>	6 (10.5)

<sup>a</sup>Baseline disease characteristics in CLL cohort were comparable to those in the overall population; <sup>b</sup>Patients could have received multiple prior treatments; <sup>c</sup>All patients who received ncBTKi have also previously received cBTKi;

<sup>d</sup>Mutations presented here were centrally sequenced.

**BCL2**, B-cell lymphoma 2; **BCL2i**, BCL2 inhibitor; **BTK**, Bruton's tyrosine kinase; **BTKi**, BTK inhibitor; **cBTKi**, covalent BTKi; **CAR-T**, chimeric antigen receptor T-cell; **CLL**, chronic lymphocytic leukemia; **CNS**, central nervous system;

**ECOG PS**, Eastern Cooperative Oncology Group (ECOG) performance status; **ncBTKi**, non-covalent BTKi; **PI3Ki**, phosphoinositide 3-kinase inhibitor; **PLCG2**, phospholipase C gamma 2; **SLL**, small lymphocytic lymphoma

Date cutoff: 10 Oct 2024

# NX5948: Safety Profile

TEAEs, n (%)	Patients with CLL/SLL (n=60)			Overall population (N=125)		
	Any grade	Grade ≥3	SAEs	Any grade	Grade ≥3	SAEs
Purpura/contusion <sup>a</sup>	22 (36.7)	–	–	42 (33.6)	–	–
Fatigue <sup>b</sup>	16 (26.7)	–	–	29 (23.2)	2 (1.6)	–
Petechiae	16 (26.7)	–	–	28 (22.4)	–	–
Thrombocytopenia <sup>c</sup>	10 (16.7)	1 (1.7)	–	26 (20.8)	7 (5.6)	–
Rash <sup>d</sup>	14 (23.3)	1 (1.7)	1 (1.7)	24 (19.2)	2 (1.6)	1 (0.8)
Neutropenia <sup>e</sup>	14 (23.3)	11 (18.3)	–	23 (18.4)	18 (14.4)	–
Anemia	11 (18.3)	4 (6.7)	–	21 (16.8)	10 (8.0)	–
Headache	10 (16.7)	–	–	21 (16.8)	1 (0.8)	1 (0.8)
COVID-19 <sup>f</sup>	10 (16.7)	–	–	19 (15.2)	2 (1.6)	2 (1.6)
Diarrhea	12 (20.0)	1 (1.7)	–	18 (14.4)	1 (0.8)	–
Cough	9 (15.0)	–	–	16 (12.8)	1 (0.8)	–
Pneumonia <sup>g</sup>	4 (6.7)	2 (3.3)	2 (3.3)	10 (8.0)	6 (4.8)	6 (4.8)
Lower respiratory tract infection	3 (5.0)	1 (1.7)	1 (1.7)	9 (7.2)	3 (2.4)	2 (1.6)
Fall	1 (1.7)	1 (1.7)	1 (1.7)	8 (6.4)	2 (1.6)	2 (1.6)
Hypertension	2 (3.3)	1 (1.7)	–	7 (5.6)	5 (4.0)	–
Hyponatremia	–	–	–	3 (2.4)	2 (1.6)	–
Pulmonary embolism	1 (1.7)	1 (1.7)	1 (1.7)	2 (1.6)	2 (1.6)	2 (1.6)
Subdural hematoma	1 (1.7)	–	1 (1.7)	2 (1.6)	1 (0.8)	2 (1.6)

- Tolerable safety profile consistent with prior disclosures
- 1 case of Grade 1 AFib in a CLL patient with pre-existing AFib
- 6 TEAEs resulted in drug discontinuation (1 CLL; 5 NHL)
- 2 Grade 5 AEs (1 pulmonary embolism; 1 case pending) deemed not related to NX-5948

<sup>a</sup>Purpura/contusion includes episodes of contusion or purpura; <sup>b</sup>Fatigue was transient; <sup>c</sup>Aggregate of 'thrombocytopenia' and 'platelet count decreased'; <sup>d</sup>Aggregate of 'rash' and 'rash maculopapular' and 'rash pustular';

<sup>e</sup>Aggregate of 'neutrophil count decreased' or 'neutropenia'; <sup>f</sup>Aggregate of 'COVID-19' and 'COVID-19 pneumonia'; <sup>g</sup>Aggregate of 'pneumonia' and 'pneumonia klebsiella'

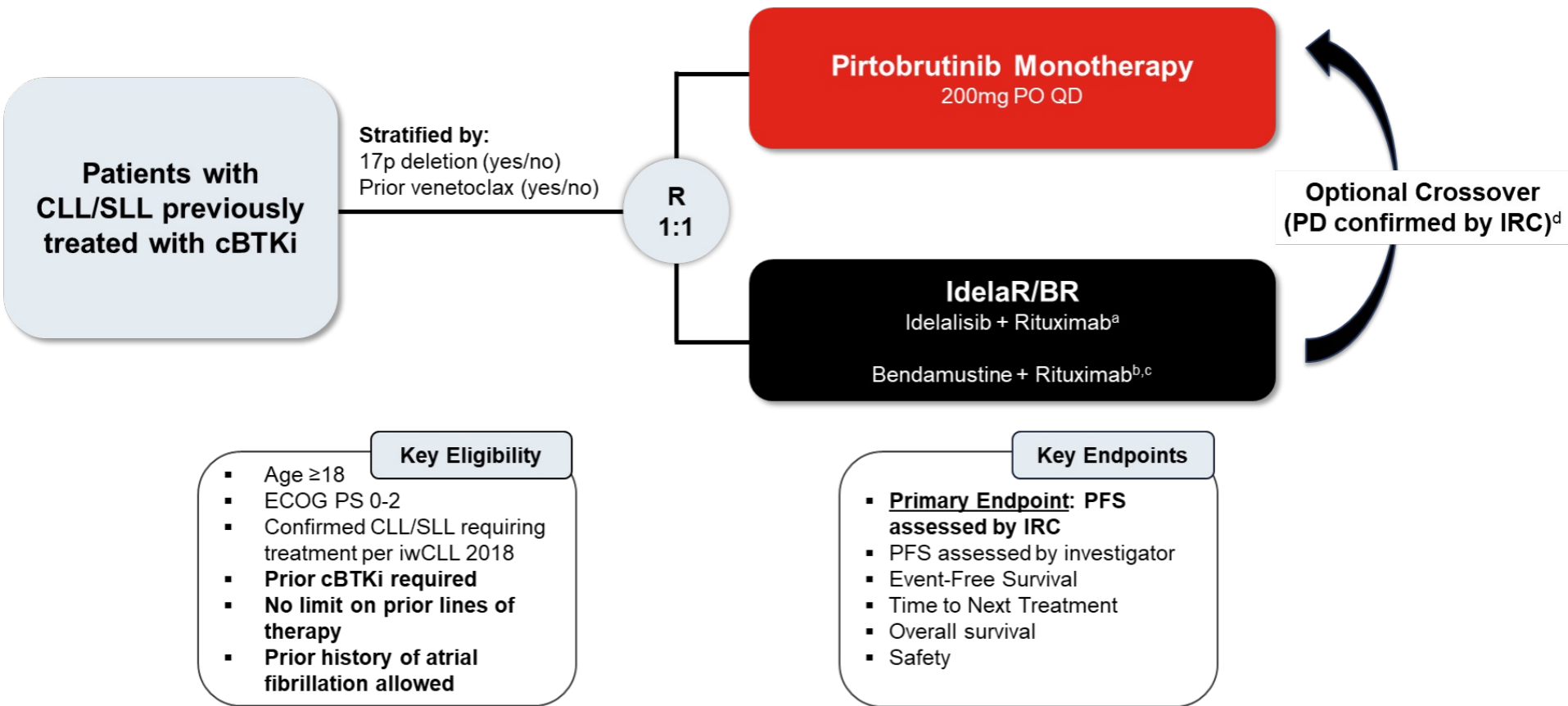
AE, adverse event; AFib, atrial fibrillation; CLL, chronic lymphocytic leukemia; NHL, non-Hodgkin's lymphoma; SAE, serious adverse event; SLL, small lymphocytic lymphoma; TEAE, treatment emergent AE

Data cutoff: 10 Oct 2024

6



# BRUIN CLL-321: Study Design



# BRUIN CLL-321: Baseline characteristics

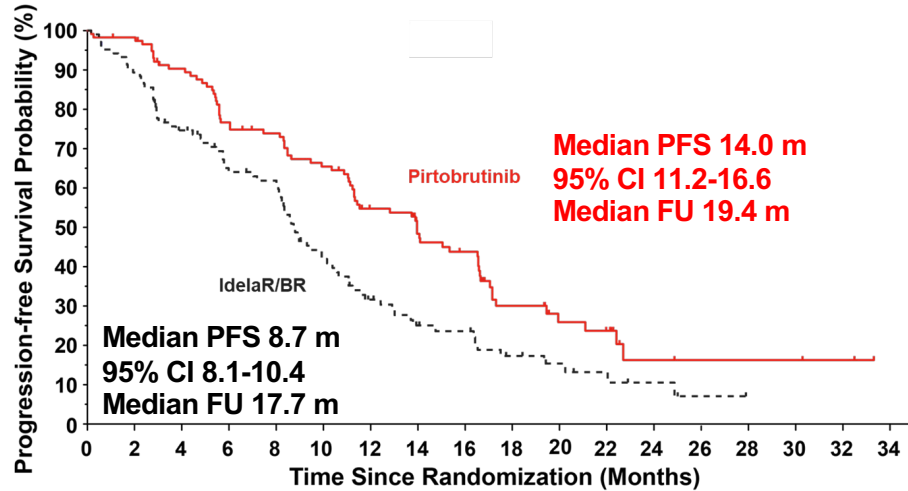
Characteristics	Pirtobrutinib n=119	IdelaR/BR n=119
Median age, years (range)	66 (42-90)	68 (42-85)
Male, n (%)	83 (70)	83 (70)
Region, n (%)		
North America	24 (20)	39 (33)
Europe	76 (64)	63 (53)
Asia	14 (12)	15 (13)
Australia	5 (4)	2 (2)
Histology, n (%)		
CLL	109 (92)	108 (91)
SLL	10 (8)	11 (9)
ECOG PS, n (%)		
0-1	107 (90)	114 (96)
2	12 (10)	5 (4)
Rai stage <sup>a</sup> , n (%)		
0-II	58 (49)	62 (52)
III-IV	56 (47)	54 (45)
High-risk molecular features (Central Lab), n/n available (%)		
17p deletion and/or <i>TP53</i> mutation	51/94 (54)	53/98 (54)
IGHV unmutated	90/97 (93)	74/93 (80)
Complex karyotype <sup>b</sup>	53/74 (72)	44/75 (59)
Molecular Characteristics, n/n available (%)		
BTK C481S	37/99 (37)	36/94 (38)
PLCy2	15/99 (15)	11/94 (12)

Characteristics	Pirtobrutinib n=119	IdelaR/BR n=119
Median lines of prior systemic therapy, n (range)	3 (1-13)	3 (1-11)
Prior therapy, n (%)		
cBTKi	119 (100)	119 (100)
Ibrutinib	100 (84)	106 (89)
Acalabrutinib	17 (14)	20 (17)
Zanubrutinib	10 (8)	7 (6)
Other <sup>c</sup>	5 (4)	3 (3)
>1 Prior cBTKi	17 (14)	18 (15)
BCL2 inhibitor <sup>d</sup>	60 (50)	62 (52)
Chemotherapy	81 (68)	83 (70)
Anti-CD20 Antibody	86 (72)	83 (70)
PI3K inhibitor	11 (9)	11 (9)
Immunomodulator	2 (2)	3 (3)
Autologous Stem Cell Transplant	1 (1)	0 (0)
Allogeneic Stem Cell Transplant	2 (2)	1 (1)
Reason for any prior cBTKi discontinuation <sup>e</sup> , n (%)		
Disease progression	85 (71)	87 (73)
Toxicity	20 (17)	22 (18)
Other	14 (12)	8 (7)

Poor prognosis (e.g., >50% del(17p) and/or *TP53* mutation and complex karyotype) and heavily pre-treated population (e.g., 33% received ≥ 4 prior lines of therapy, ~50% received prior BCL2i)

# BRUIN CLL-321: IRC-Assessed PFS (Primary Endpoint) and TTNT or Death

## IRC-Assessed PFS

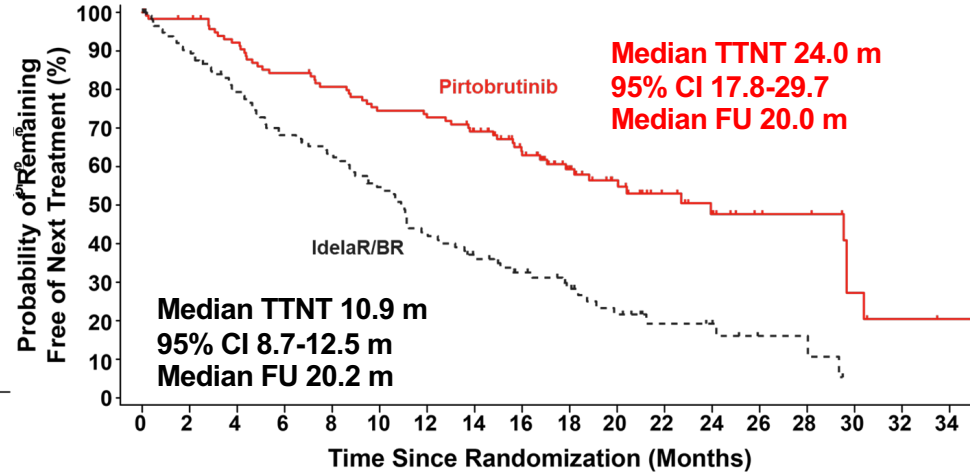


Number at Risk

—	119	113	100	84	79	69	54	44	36	19	12	10	4	3	3	3	2	0
- - -	119	92	73	60	57	37	25	18	16	10	7	5	3	1	0	0	0	0

**HR 0.54 (0.39-0.75), p = 0.0002**

## TTNT or Death



Number at Risk

—	119	114	105	96	91	84	81	74	60	45	34	23	17	10	9	4	2	1
- - -	119	101	86	72	66	56	44	33	26	19	13	8	7	3	3	0	0	0

**HR 0.37 (0.25-0.52), p < 0.0001**

**Cross-over rate: 50/66 (76%) → OS follow-up limited and confounded by high rate of post-progression crossover**

# BRUIN CLL-321: Safety Exposure Adjusted Incidence Rate

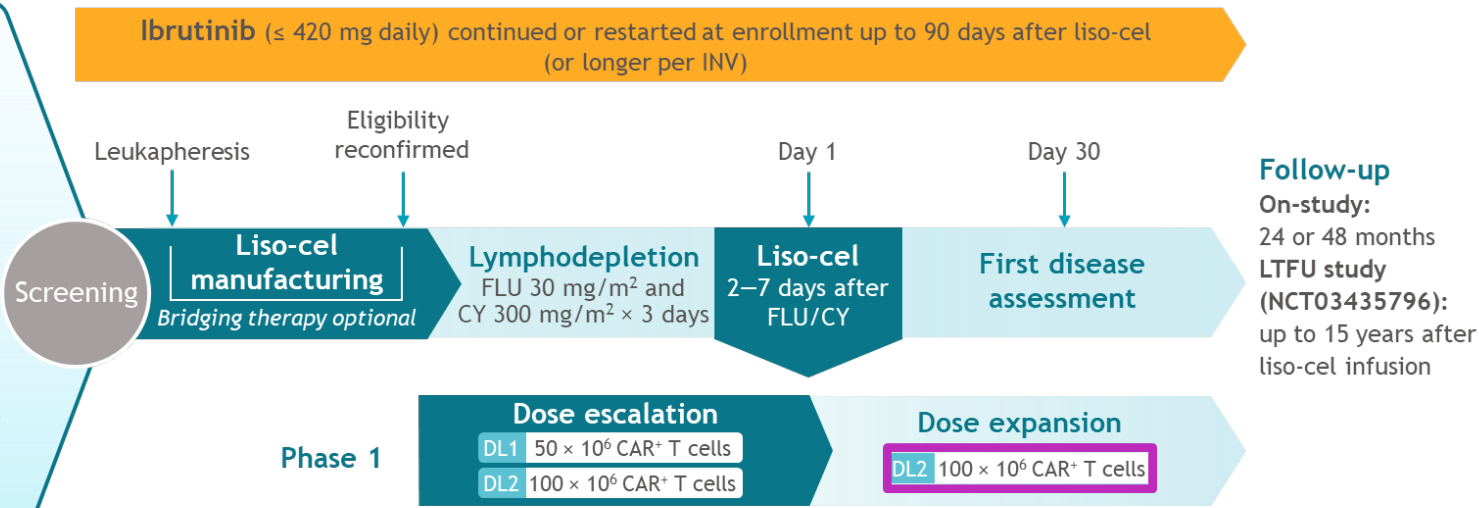
Treatment-Emergent Adverse Event (Any Grade)	Pirtobrutinib (n=116) IR <sup>a</sup>	IdelaR or BR (n=109) IR <sup>a</sup>	IRR (95% CI) <sup>b</sup>	p-value <sup>c</sup>
Infections <sup>d</sup>	94.5	125.5	0.75 (0.53-1.07)	0.11
Pneumonia <sup>e</sup>	20.4	19.5	1.04 (0.54-2.03)	0.90
COVID-19	11.1	33.4	0.33 (0.17-0.65)	0.001
Anemia	18.5	30.3	0.61 (0.33-1.12)	0.11
Neutropenia <sup>f</sup>	26.4	66.5	0.40 (0.25-0.64)	<0.001
Cough	14.3	30.8	0.47 (0.25-0.88)	0.02
Diarrhea	15.3	63.7	0.24 (0.14-0.42)	<0.001
Pyrexia	11.1	52.4	0.21 (0.11-0.40)	<0.001
Fatigue	9.5	34.2	0.28 (0.14-0.55)	<0.001
Nausea	9.8	38.3	0.26 (0.13-0.51)	<0.001
Vomiting	5.8	29.6	0.19 (0.08-0.44)	<0.001
ALT increased	2.8	33.6	0.08 (0.03-0.25)	<0.001
Weight decreased	2.8	28.5	0.10 (0.03-0.29)	<0.001

When adjusting for exposure, the incidence rates of TEAEs was lower with pirtobrutinib than with IdelaR/BR

# TRANSCEND 004 Ibrutinib cohort: Study Design

## Key eligibility criteria for liso-cel plus ibrutinib cohort

- Age ≥ 18 years
- R/R CLL/SLL
- ECOG PS 0–1
- Adequate organ function
- No active CNS involvement
- No Richter transformation
- Met ≥ 1 of the following:
  - Receiving BTKi with progression at study entry
  - High-risk features with < CR after ≥ 6 mo on BTKi
  - *BTK/PLCγ2* mutation<sup>a</sup> ± ibrutinib progression
  - Prior BTKi with no contraindications to restart BTKi
- Progression on BTKi and received prior venetoclax (per amendment 5)



**Primary endpoint (at DL2)**  
CR/CRi rate per iwCLL 2018 by INV assessment

**Secondary endpoints**  
Safety (DL1 + DL2); ORR, DOR, DOCR, time to response, time to CR/CRi, PFS, OS, and uMRD<sup>b</sup> rate in blood at DL2

**Exploratory analyses**  
uMRD<sup>b</sup> rate in marrow, cellular kinetics (CAR T cell expansion and persistence)

<sup>a</sup>Per local laboratory assessment; <sup>b</sup>MRD was assessed by next-generation sequencing using a clonoSEQ assay. Undetectable MRD was defined as < 1 CLL cell per 10,000 leukocytes at ≥ 1 time point after infusion (uMRD<sup>4</sup>). CY, cyclophosphamide; DOR, duration of response; DOCR, duration of continued CR after initial CR; FLU, fludarabine; INV, investigator; iwCLL, International Workshop on Chronic Lymphocytic Leukemia; LTFU, long-term follow-up; uMRD<sup>4</sup>, undetectable minimal residual disease at < 1 in 10<sup>-4</sup> leukocytes.



# TRANSCEND 004 Ibrutinib cohort: Baseline Characteristics

	DL2 + ibrutinib set (n = 51)	Total liso-cel + ibrutinib combination set (n = 56)
Median (range) age, y	65 (44–77)	65 (44–77)
Median (range) prior lines of systemic therapy ≤ 3 prior therapies, n (%)	<b>5 (1–13)</b> 19 (37)	<b>5 (1–13)</b> 20 (36)
Prior BTKi, n (%)	51 (100)	56 (100)
Prior venetoclax, n (%)	39 (76)	42 (75)
Prior BTKi and venetoclax, n (%) BTKi progression/venetoclax failure, <sup>a</sup> n (%)	39 (76) <b>28 (55)</b>	42 (75) <b>31 (55)</b>
High-risk cytogenetics, n (%)	50 (98)	55 (98)
Del(17p)	23 (45)	25 (45)
Mutated <i>TP53</i>	23 (45)	24 (43)
Unmutated IGHV	37 (73)	39 (70)
Complex karyotype <sup>b</sup>	25 (49)	29 (52)
Bulky disease (≥ 5 cm) per INV before LDC, <sup>c</sup> n (%)		
Yes	18 (35)	18 (32)
Unknown	4 (8)	5 (9)
Median (range) SPD per INV before LDC, <sup>d</sup> cm <sup>2</sup>	29 (1–218)	27 (1–218)
LDH ≥ ULN before LDC, n (%)	22 (43)	24 (43)
Received bridging therapy (in addition to ibrutinib), <sup>e</sup> n (%)	13 (25)	16 (29)

- Median (range) ibrutinib exposure was 34 days (15–188) before and 95 days (6–1517) after liso-cel in the total combination-treated set
- Liso-cel was manufactured for 63/65 (97%) patients in the leukapheresed set
  - Median (range) time from leukapheresis to liso-cel availability was 25 (17–79) days (n = 62)

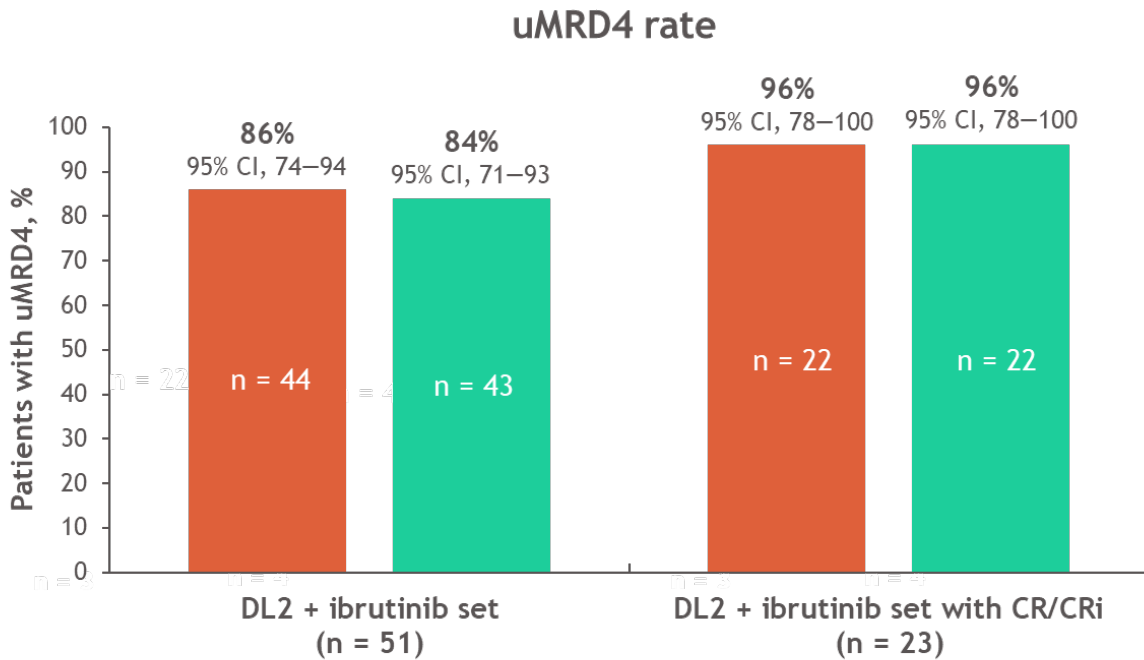
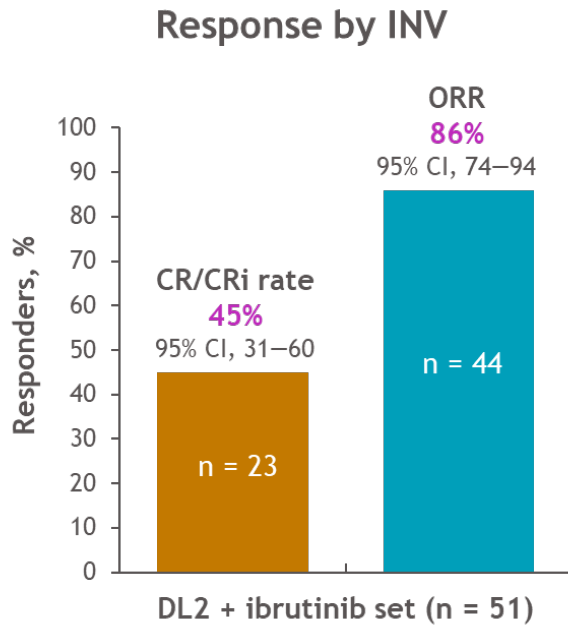
<sup>a</sup>Includes patients who progressed on a BTKi and met 1 of the following criteria: 1) discontinued venetoclax due to disease progression or intolerability and the patient's disease met indications for further treatment per iwCLL 2018 criteria or 2) failed to achieve an objective response within 3 months of initiating therapy; <sup>b</sup>At least 3 chromosomal aberrations; <sup>c</sup>At least 1 lesion with a longest diameter ≥ 5 cm; <sup>d</sup>Forty-seven patients at DL2 and 51 patients in the total combination-treated set had SPD measurements; <sup>e</sup>Included other anticancer therapies in addition to concurrent ibrutinib treatment given for disease control during liso-cel manufacturing. IGHV, immunoglobulin heavy-chain variable region; LDC, lymphodepleting chemotherapy; SPD, sum of the product of perpendicular diameters.

# TRANSCEND 004 Ibrutinib cohort: Response and MRD

Median (IQR) on study follow-up: 24.8 m (14.2-34.6)

Median (range) time to first response: 1 m (0.9-6.0)

Median (range) time to CR/CRi: 3 m (0.9-12.1)

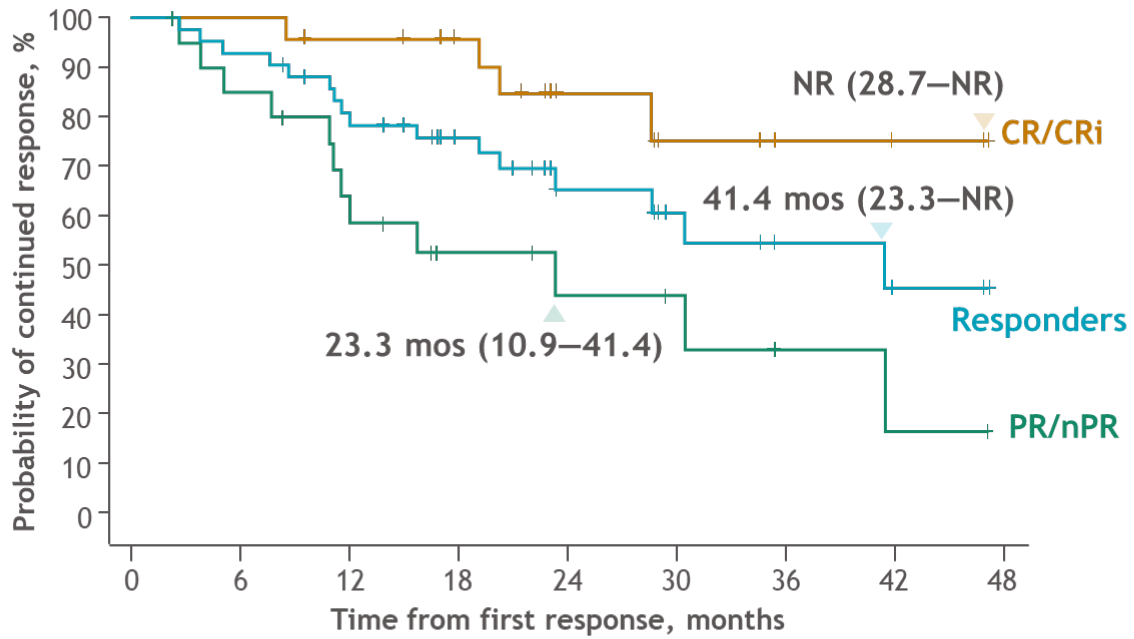


■ uMRD4 rate in blood ■ uMRD4 rate in marrow<sup>a</sup>

<sup>a</sup>Forty-nine patients (22 with CR/CRi) were evaluable for MRD in marrow.

# TRANSCEND 004 Ibrutinib cohort: DOR by best response at DL2

Median (95% CI) follow-up for DOR: 23.4 months (22.1–35.4)



% continued response (95% CI)

	12 months	24 months
<b>Responders (n = 44)</b>	79 (63–88)	65 (47–79)
<b>Patients with CR/CRi (n = 23)</b>	96 (73–99)	85 (60–95)

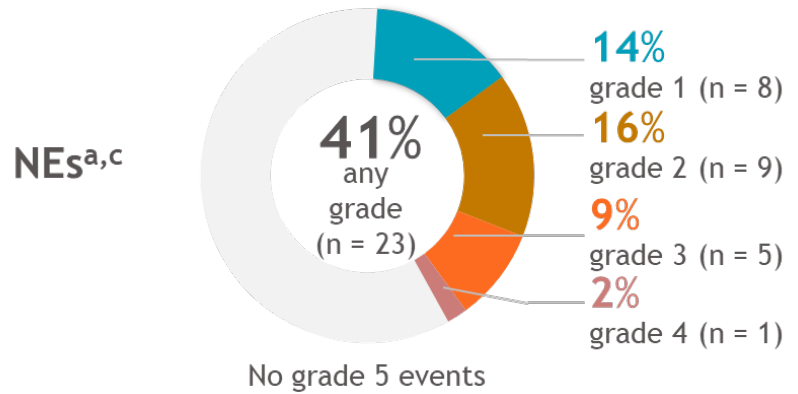
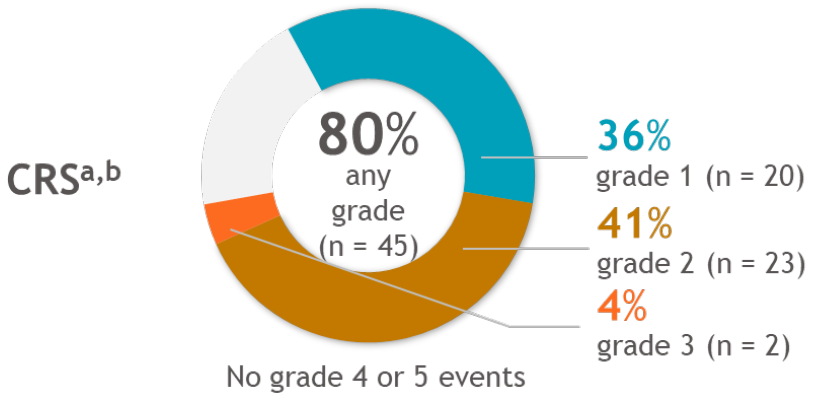
- All 17 patients ongoing in the study at data cutoff were responders (CR/CRi, n = 13; PR/nPR, n = 4)

No. at risk

	0	6	12	18	24	30	36	42	48
<b>CR/CRi</b>	23	23	21	18	9	6	4	3	0
<b>PR/nPR</b>	21	17	11	7	5	4	2	1	0
	44	40	32	25	14	10	6	4	0

Data on KM curves are expressed as median (95% CI). No formal landmarking analyses were conducted. NR, not reached.

# TRANSCEND 004 Ibrutinib cohort: Safety



	Total combination-treated set (n = 56)
Median (range) days to CRS onset	7 (1–14)
Median (range) days to CRS resolution	5 (2–18)
Received tocilizumab and/or corticosteroids for CRS and/or NE, n (%)	33 (59)

	Total combination-treated set (n = 56)
Median (range) days to NE onset	8 (1–15)
Median (range) days to NE resolution	8 (1–362)
Received tocilizumab and/or corticosteroids for CRS and/or NE, n (%)	33 (59)

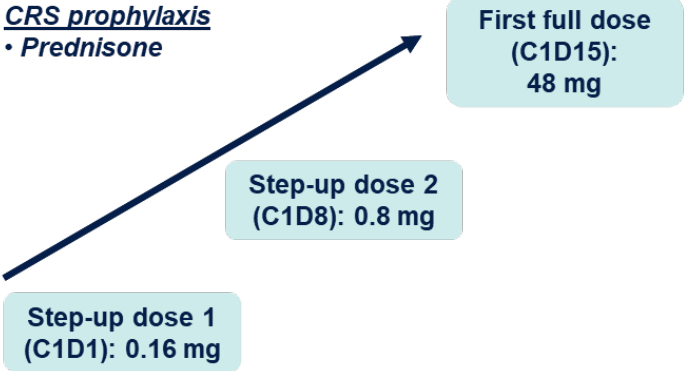
<sup>a</sup>Summed percentages for grouped grades within each graph may not equal the any-grade percentage due to rounding; <sup>b</sup>CRS was graded based on Lee 2014 criteria; <sup>c</sup>NEs were defined as -INV-identified neurological AEs related to liso-cel.

# EPCORE 101: study design

**Key inclusion criteria**

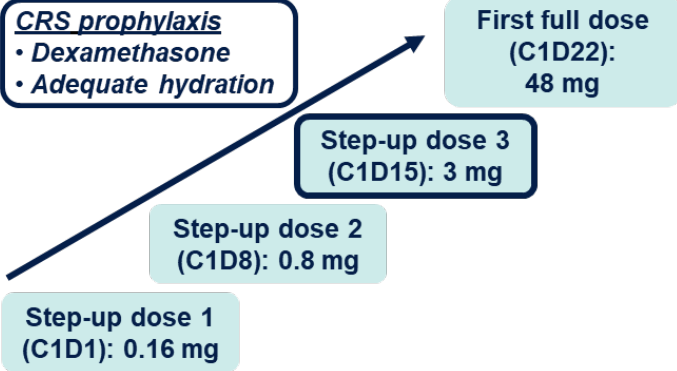
- CD20+ R/R CLL
- ≥2 prior lines of systemic therapy
- ECOG PS 0–2
- Measurable disease with  $\geq 5 \times 10^9/L$  B lymphocytes (expansion only)
- No prior allogeneic HSCT

## Expansion (EXP; N=23)



Data cutoff: May 28, 2024  
Median follow-up: 22.8 months

## Cycle 1 Optimization (C1 OPT; N=17)



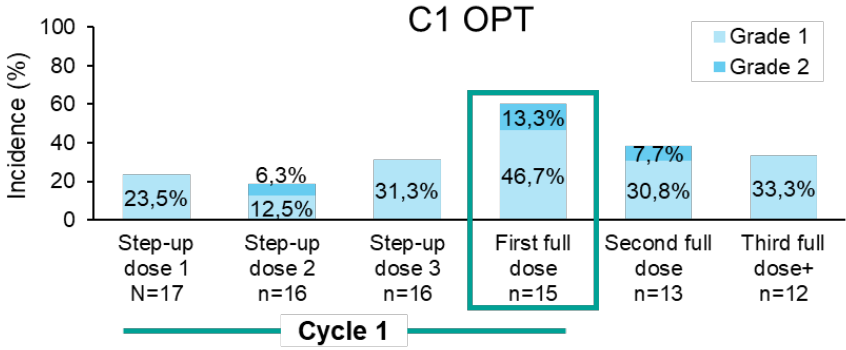
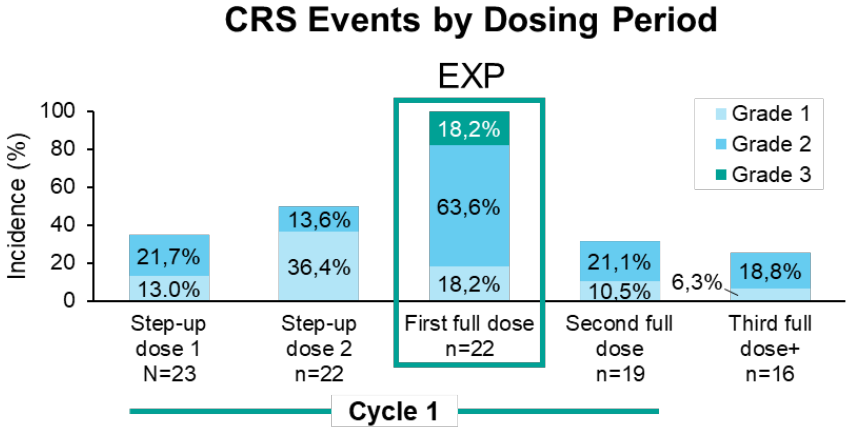
Data cutoff: May 28, 2024  
Median follow-up: 2.9 months

- **Primary endpoint (EXP):** Overall response rate
- **Primary endpoint (C1 OPT):** Incidence and severity of CRS, ICANS, and clinical TLS
- **Key secondary endpoints (EXP):** CR rate, time to response, MRD (PBMCs using the clonoSEQ<sup>®</sup> assay), and safety/tolerability

- To ensure patient safety and better characterize CRS, inpatient monitoring was required for at least 24 hours after each epcoritamab dose in C1

# EPCORE 101: Safety Optimization

	EXP N=23	C1 OPT N=17
<b>CRS, n (%)</b>	<b>22 (96)</b>	<b>14 (82)</b>
Grade 1	2 (9)	12 (71)
Grade 2	16 (70)	2 (12)
Grade 3	4 (17)	0
Treated with tocilizumab, n (%)	20 (87)	6 (35)
<b>Leading to treatment discontinuation, n (%)</b>	<b>0</b>	<b>0</b>
CRS resolution, n/n (%)	22/22 (100)	14/14 (100)
Median time to resolution, days (range)	3 (1–16)	3.5 (1–7)
<b>ICANS, n (%)</b>	<b>3 (13)</b>	<b>0</b>
Grade 1	1 (4)	0
Grade 2	2 (9)	0
<b>Clinical TLS, n (%)</b>	<b>1 (4)</b>	<b>0</b>
Grade 2	1 (4)	0



# EPCORE 101: Efficacy data

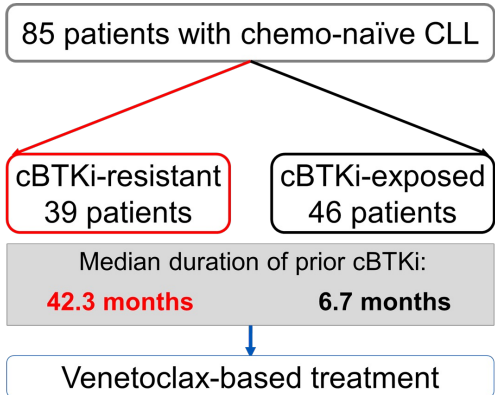
Response, n (%)	EXP mFU: 22.8 months					C1 OPT mFU: 2.9 months
	Full Analysis Set N=23	Response Evaluable n=21	<i>TP53</i> Aberration n=15	<i>IGHV</i> Unmutated n=16	Double Exposed <sup>a</sup> n=19	Response Evaluable n=10
<b>Overall response<sup>b</sup></b>	<b>14 (61)</b>	<b>14 (67)</b>	<b>10 (67)</b>	<b>10 (63)</b>	<b>10 (53)</b>	<b>6 (60)</b>
Complete response	9 (39)	9 (43)	5 (33)	7 (44)	7 (37)	1 (10)
Partial response	5 (22)	5 (24)	5 (33)	3 (19)	3 (16)	5 (50)
Stable disease	4 (17)	4 (19)	2 (13)	3 (19)	4 (21)	2 (20)
Progressive disease	1 (4)	1 (5)	1 (7)	0	1 (5)	1 (10)

- With limited follow-up, the C1 OPT regimen does not appear to affect epcoritamab efficacy
- uMRD4 in PBMCs was observed in most responders, including all patients with CR who were tested for MRD

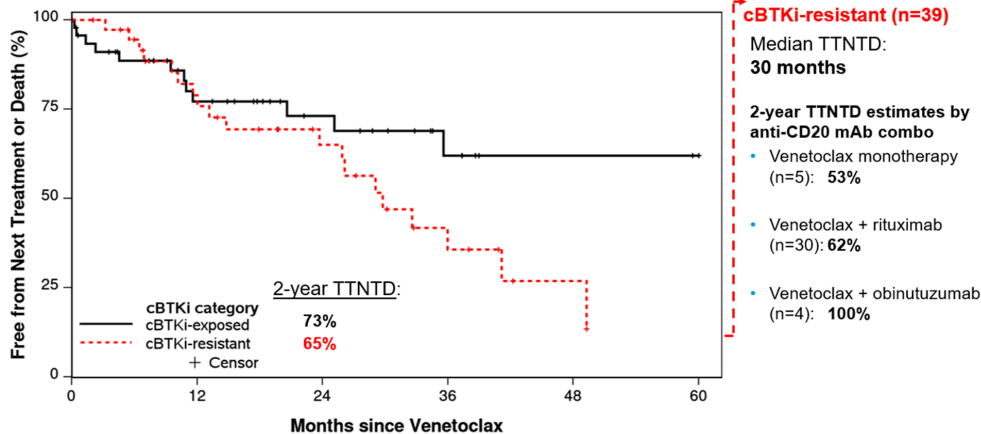
EXP MRD Negativity, n/n (%) <sup>c</sup>	uMRD4	uMRD6 <sup>d</sup>
Overall response <sup>b</sup>	9/12 (75)	8/12 (67)
Complete response	7/7 (100)	6/7 (86)
Partial response	2/5 (40)	2/5 (40)
Full analysis set	9/23 (39)	8/23 (35)

Four patients (*TP53* aberration, n=2; *IGHV* unmutated, n=3; double exposed, n=4) in EXP and 1 in C1 OPT shown above were not evaluable or had no assessment, including 3 in EXP (*TP53* aberration, n=2; *IGHV* unmutated, n=2; double exposed, n=3) and 1 in C1 OPT who died without postbaseline assessment. <sup>a</sup>Patients previously treated with both a BTK inhibitor and a BCL-2 inhibitor. <sup>b</sup>Response assessment according to iwCLL criteria. <sup>c</sup>Patients evaluated for MRD had at least 1 on-treatment MRD result and were not MRD negative at baseline. MRD was only evaluated in patients with CR or PR. <sup>d</sup>Two of 3 evaluated patients had uMRD6 in bone marrow at or shortly after the first CR assessment. mFU, median follow-up.

# Outcomes with Venetoclax-Based Treatment in Patients with Covalent Bruton Tyrosine Kinase Inhibitor (cBTKi)-Treated, Chemotherapy-Naïve Chronic Lymphocytic Leukemia (CLL): An International Retrospective Study



Parameter		Number (%) or Median [IQR]
<b>Total patients</b>		<b>85</b>
<b>Age, years</b>		69 [62, 77]
<b>Males</b>		59 (69)
<b>Prior lines of therapy</b>		1 [1, 2]
	Prior anti-CD20 mAb	32 (38)
	Two prior cBTKi	8 (9)
<b>Combination with anti-CD20 mAb</b>	Rituximab	45 (53)
	Obinutuzumab	27 (32)
	None/Venetoclax Monotherapy	13 (15)
<b>IGHV status*, n=56</b>	Unmutated	46 (82)
<b>Complex karyotype*, n=37</b>	Complex (≥3 abnormalities)	15 (41)
<b>TP53 disruption*, n=73</b>	Present (Abnormal)	33 (45)



## Total Cohort

- **TTNTD:** only **TP53** disruption with HR 2.23 (95% CI 1.02-4.87; P=0.04)
- **OS:** only older age with HR 1.05 (P=0.02)

## cBTKi-Resistant Subgroup

- **TTNTD:** only **TP53** disruption with HR 6.68 (95% CI 1.51-29.46; P=0.01)
- **OS:** only **TP53** disruption with HR 7.95 (95% CI 1.02-61.97; P=0.04)





POST-SAN DIEGO 2024  
Novità dal Meeting della Società Americana di Ematologia

# Thank you

Novità dal Meeting  
della Società Americana  
di Ematologia

Bologna, 13-15 Febbraio 2025



**Prof Paolo Ghia**

## Strategic Research Program on CLL

**Elisa Albi, Francesca Martini, Emanuela Sant'Antonio, Fabrizio Mavilia, Antonella Capasso, Maria Colia, Catalina Combi, Virginia Sgarlato, Eloise Scarano**

## Malignant B cells biology and 3D modelling Unit

**Cristina Scielzo, Federica Barbaglio**

## CERTH and Papanicolau Hospital, Thessaloniki

**Anastasia Hadzidimitriou, Andreas Agathangelidis, Anna Vardi, Thomas Chatzikonstantinou, Niki Stavroyianni, Kostas Stamatopoulos**

## Laboratory of B Cell Neoplasia

**Silvia Heltai, Michela Frenquelli, Pamela Ranghetti, Eleonora Perotta, Francesca Gandini, Jessica Bordini, Athanasios Pseftogkas, Chiara Lenzi, Daniela Belloni, Alessandro Campanella, Silvia Bonfiglio**

## Laboratory of Lymphocyte Activation

**Ilenia Sana, Elena Mantioni, Marta Muzio**

## Karolinska Institutet, Stockholm

**Viktor Ljungstrom, Richard Rosenquist**



*Ministero della Salute*  
Direzioni Centrali della Ricerca Scientifica  
e Biomedica e della Vigilanza sugli Enti  
**BANDO RICERCA FINALIZZATA 2016**  
esercizio Finanziario anno 2016-2017



**REL**  
RETE  
EMATOLOGICA  
LOMBARDA



Associazione Italiana per la Ricerca sul Cancro  
**Con la ricerca, contro il cancro.**

**ERIC**

European research initiative on CLL